



Robotics and AI as Enablers for Greener Dismantling, Remanufacturing and Recycling

-ROB4GREEN-

HORIZON-CL4-2024-DIGITAL-EMERGING-01-04 – Industrial leadership in AI, Data and Robotics
boosting competitiveness and the green transition (AI Data and Robotics Partnership) (IA)

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Summary:

ROB4GREEN organizes its 1st Open Call (OC1) to engage external pilots in the deployment of innovative AI, Data, and Robotics solutions that bridge the gap between labor-intensive processing and automated circularity. The objective is to validate the ROB4GREEN framework in real-world industrial scenarios across four key circular economy challenges: Life Extension, Value Retention, Parts Harvesting, and Decommissioning/Recycling.

This deliverable provides the full documentation kit for the 1st Open Call, including the Guide for Applicants, technical requirements, and legal templates. The Open Call #1 is launched on 4 February 2026 and closed on 8 April 2026, with a total funding budget of €2.4 million to support 8 external pilots. Selected projects will receive up to €300,000 in lump-sum funding and expert mentoring.





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V0.1	08/04/2026	First draft	F6S
V1.0	14/04/2026	Final draft	F6S, LMS
V2.0	14/04/2026	Final version including annexes	F6S

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1 INTRODUCTION

ROB4GREEN is a project designed to bridge the current gap between labor-intensive Re-X processing (repair, remanufacturing, recycling) and automated circularity. By developing easy-to-use, collaborative, and AI-driven robotic systems, ROB4GREEN enables industries to adapt to key "R-strategies" for processing products after their first life.

The project addresses critical gaps such as limited cognitive intelligence and insufficient perception of product states. It focuses on three core technological pillars:

- ✓ **Cognitive and intelligent mechatronics:** advanced perception and reasoning to allow systems to "understand" product conditions and material compositions in real-time.
- ✓ **AI-based robot programming and HRI:** modules that facilitate efficient interaction and continuous learning between various robot types and human operators.
- ✓ **Multi-level optimization:** an integrated architecture for AI-driven decision-making that scales from individual robotic cells to the entire value chain.

These technologies are validated in three industrial pilots: Energy Infrastructure (wind blade decommissioning), Automotive (tire retreading), and Electronics (PCBA component harvesting).

To maximize industrial impact, the project incorporates a Financial Support to Third Parties (FSTP) program to verify its framework in additional real-world scenarios.

With a total budget of €4 million, this program will allow the verification of: a) the project's framework in additional real-world scenarios (external pilots), and b) the interoperability of the ROB4GREEN architecture by attracting external RTOs for the co-development of solutions for the project's pilot cases.

1.1 Open call overview

The ROB4GREEN 1st Open Call (OC1) aims to support third parties in developing and implementing innovative solutions while demonstrating the replicability and sustainability of the project's framework. The most relevant information for this call includes:

- ✓ **Total funding available:** €2,400,000.
- ✓ **Maximum funding per project:** Up to €300,000 in the form of a lump sum.
- ✓ **Target applicants:** Consortia of 2 or 3 legal entities. This must include one SME/Startup (Technical Integrator/Leader) and one Industrial End-user (Technology Adopter).
- ✓ **Project duration:** 10 months.
- ✓ **Key challenges:** Every application must address one of the four defined challenges:
 1. **Challenge #1: AI, Data and Robotics for Life Extension (Repairing)**
 2. **Challenge #2: AI, Data and Robotics for Value Retention (Refurbishing/Remanufacturing)**
 3. **Challenge #3: AI, Data and Robotics for Parts Harvesting**
 4. **Challenge #4: AI, Data and Robotics for Decommissioning and Recycling**
- ✓ **Technology integration:** It is mandatory for applicants to select one (x1) or two (x2) ROB4GREEN tools (e.g., SDS, RePlan, SBO, AIBAD) to be integrated into their proposed solutions.
- ✓ **Application launching:** 4 February till 8th of February (17:00 Brussels time)



Figure 1. ROB4GREEN Open call 1 key information

1.2 Document scope

This deliverable provides a full set of information for describing the steps taken for the definition of the documentation necessary for the execution of the 1st Open Call (Application kit). The **Application kit** is designed to clearly define the conditions, eligibility criteria, and technical requirements for all potential third-party beneficiaries. The documentation, listed in Table 1, includes both mandatory and supportive documents and can be found in the form of annexes at the end of this report.

1.3 Document structure

This report provides a comprehensive overview of the preparation for the first ROB4GREEN Open Call (OC1). Following an introduction to the call's objectives and contractual scope, Section 2, "Grant Definition and Open Call 1 Management," details the co-design of the four circular economy challenges, the selection of mature technology blocks from the solution catalogue, and the establishment of the legal Application Kit. The report then describes the "OC1 Launching & Promotion" phase and concludes with the "Evaluation and Selection" section, which outlines the methodology used to select the eight high-impact funded pilots. Finally, section 3 concludes this report and introduces upcoming activities and reports.

At the end of this report, 6 Annexes are attached corresponding to the files of the application kit summarized in Table 1.

Table 1. Application kit overview

Annex	Title	Description
Annex 1	ROB4GREEN Guide for Applicants	Detailed rules on eligibility, timeline, funding conditions, and evaluation
Annex 2	ROB4GREEN Technical Description	Specifics on the four challenges (C#1 to C#4) and the available ROB4GREEN tools.
Annex 3	F6S Application Form	Offline version of the online form used for electronic submission
Annex 4	ROB4GREEN Proposal Template	Mandatory technical document for describing Excellence, Impact, and Implementation.
Annex 5	ROB4GREEN Declaration of Honour	Acceptance of conditions by the SME and consortium legal representatives
Annex 6	ROB4GREEN SME Declaration	Template to evaluate and prove the SME status of participants



Upon successful evaluation, the applicants need to prepare and sign the sub-grant agreement based on the Annex 7: ROB4GREEN Sub-Grant Agreement and share their banking information via ROB4GREEN Annex 8: Banking information

2 GRANT DEFINITION AND OPEN CALL 1 MANAGEMENT

F6S, as the leader of Task 7.1 "Definition & Management of Open Calls", coordinated the strategic design and operational setup for the first ROB4GREEN Open Call (OC1). Following the established project methodology (WP2), a series of co-design workshops were organized involving consortium's technical partners and industrial end-users. These sessions focused on defining the core challenges and the specific impact expected from third-party pilots in the circular economy sector.

The OC1 strategy was formulated to achieve the following core objectives:

- ✓ Identifying high-impact domains within the "Re-X" value chain (Repair, Remanufacturing, Recycling).
- ✓ Defining the technical requirements and KPIs for the four strategic challenges, ensuring alignment with the ROB4GREEN framework.
- ✓ Finalizing the Application Kit, including the technical descriptions of available tools.

The Open Call cycle is divided into five core stages: a) Co-design, b) Launching & Promotion, c) Evaluation & Selection, and d) Monitoring & Mentoring, with F6S leading the initial management and launching activities. This report covers the first two phases, whereas the latter ones will be documented in the next WP7 deliverable, namely D7.2.

2.1 Co-design phase

The co-design phase was an iterative process that was materialized through monthly WP7 meetings and dedicated workshops. During these monthly meetings, F6S, supported by LMS, raised awareness within the consortium regarding the FSTP programme's needs, requirements, and expectations. A key milestone for the definition of the OC1 challenges was a dedicated session held on December 9th 2025, during ROB4GREEN's second General Assembly, hosted at TNO's facilities. Within this workshop, all previous iterations culminated, allowing the consortium to finalize the Open Call challenges. Technical partners collaborated to translate the project's priority areas for the circular economy into concrete challenges for external applicants. These sessions resulted in a structured survey that captured the required Technology Readiness Levels (TRL), necessary expertise, and designated mentors for each of the four challenges. The consortium decided that the programme would have a greater impact by orienting the challenges towards key Re-X processes. This ensures:

- ✓ the validation of ROB4GREEN tools in additional Re-X scenarios, and
- ✓ the development of additional tools by SMEs that are relevant to the project and can extend its portfolio of enabling technologies.

2.1.1 Challenge definition

The challenges of the first Open Call aim to address the particularities of crucial Re-X processes. Therefore, Challenge #2 was inspired by the MICHELIN automotive tire retreading use case and aims to enhance remanufacturing, refurbishing, and repurposing processes. Challenge #3 was inspired by the VALEO electronics component harvesting use case and aims for the optimization of valuable component retrieval (parts harvesting). Meanwhile, Challenge #4 was inspired by the ACCIONA energy infrastructure use case and addresses the needs of decommissioning and waste processing toward high-purity secondary material streams. To improve the impact and comprehensiveness of OC1, an additional challenge was added; therefore, Challenge #1 deals with the particularities of inspection and product repair. For reaching the number of 8 external pilots for this open call round, and assuming





balanced quality of applications, two projects per challenge are expected to be funded. This approach is also summarized in Table 2.

Table 2. Summary of Open Call Round 1 challenges

Challenge number	Challenge title	Link to ROB4GREEN use cases	Number of projects
Ch #1	AI, Data and Robotics for Life Extension	...	2
Ch #2	AI, Data and Robotics for Value Retention	MICHELIN use case	2
Ch #3	AI, Data and Robotics for Parts Harvesting	VALEO use case	2
Ch #4	AI, Data and Robotics for Decommissioning and Recycling	ACCIONA Use case	2

The positioning and impact of the programme and its challenges is also depicted in Figure 2 and Figure 3. More information regarding the challenges can be found in Annex 1.

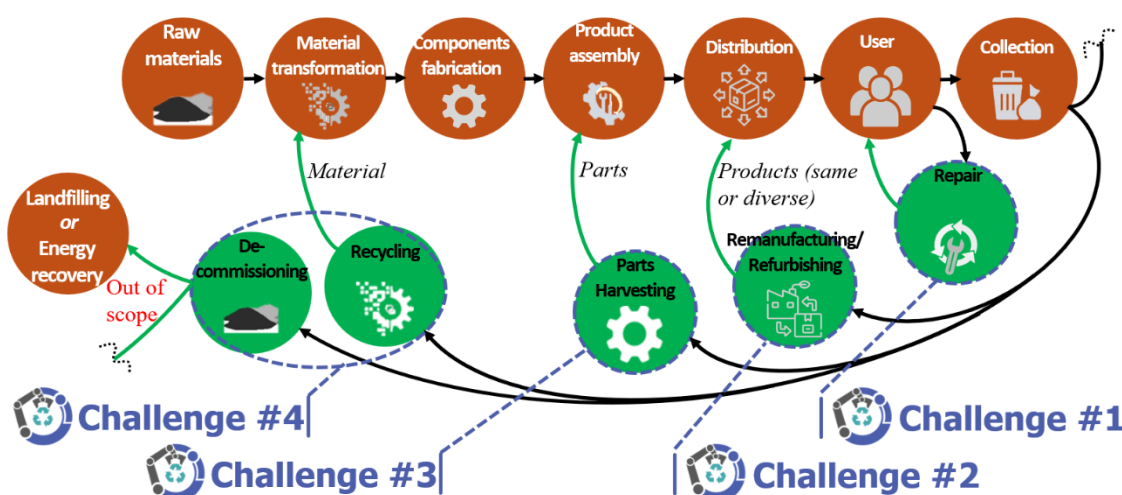


Figure 2. Simplified circular economy butterfly diagram and positioning of the ROB4GREEN Open Call Round #1 challenges

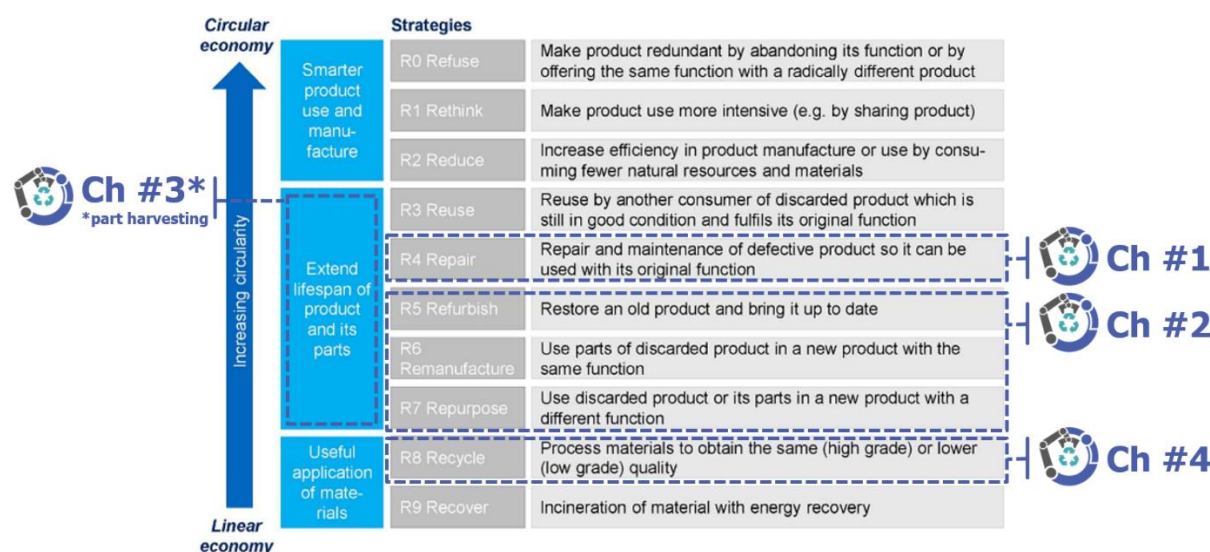


Figure 3. 9R Frameworks suggested by the PBL Netherlands Environmental Assessment Agency (2017), source: CE Grow circular





2.1.2 Project tools available to 3rd parties

To ensure the successful integration and technical feasibility of the funded pilots, the ROB4GREEN consortium partners undertook a rigorous selection process to define the set of technologies available for third-party use (from the complete list of technology blocks that was presented in D2.3).

This collective decision resulted in the "ROB4GREEN solution catalogue," a suite of tools that have reached the necessary maturity to be delivered as working prototypes by the eighteenth month (M18) of the project. These modules, ranging from the Shopfloor Perception & Digitalization Suite (SDS) to the Re-X Integration & Coordination Engine (ReICE), were specifically chosen for their ability to support multi-variant circular economy operations in high-variability industrial environments. To ensure that external pilots directly contribute to the validation and enhancement of the project's framework, it is mandatory for all applicants to select either one (x1) or two (x2) ROB4GREEN tools from this catalogue for integration into their proposed solutions.

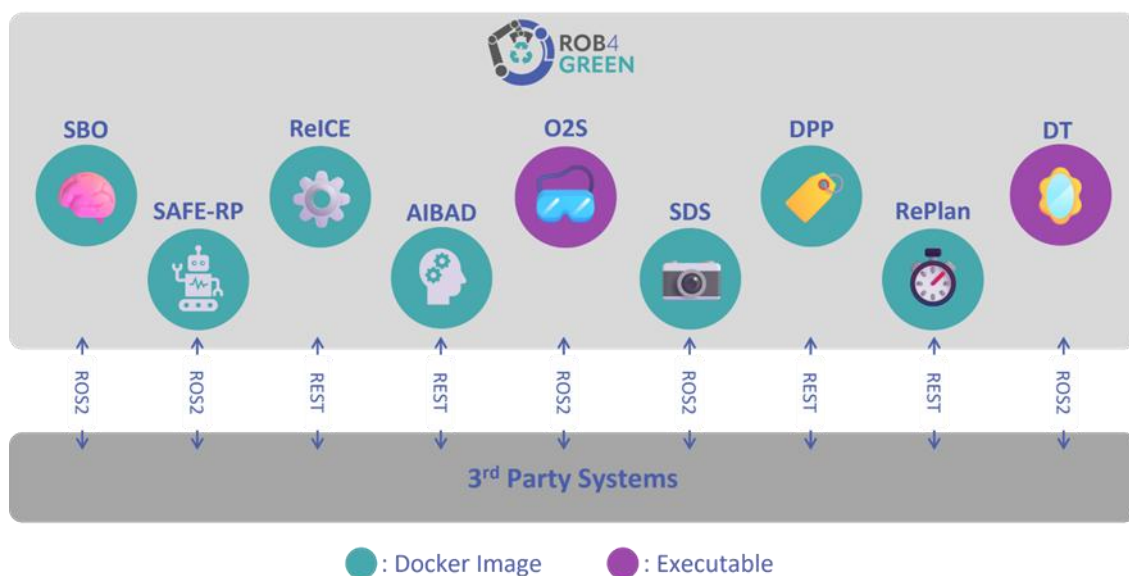


Figure 4. ROB4GREEN Tools available to 3rd Parties

More information regarding the tools, along with their supported functionalities, APIs and formats, is available in Annex 2.

2.1.3 Open call application documents

The design of the first ROB4GREEN Open Call (OC1) is grounded in a framework of transparent application rules, legal obligations, and comprehensive procedural guidance. These elements are meticulously detailed across a suite of documents that serve as the legal foundation for all third-party activities funded under the ROB4GREEN Grant Agreement (No. 101189665).

The "Application Kit" consists of the following mandatory and supporting documents:

- ✓ **Annex 1: ROB4GREEN Guide for Applicants** – Detailed regulations regarding eligibility, timelines, funding conditions, and the four-phase evaluation process.
- ✓ **Annex 2: ROB4GREEN Technical Description** – Technical specifics regarding the four circular economy challenges (C#1 to C#4) and the catalog of available ROB4GREEN tools.



- ✓ **Annex 3: F6S Application Form** – An offline version of the digital form required for electronic submission via the F6S platform.
- ✓ **Annex 4: ROB4GREEN Proposal Template** – The mandatory technical document used by applicants to describe the Excellence, Impact, and Implementation of their proposed pilot.
- ✓ **Annex 5: ROB4GREEN Consortium Declaration of Honour** – Legal acceptance of the call conditions by all participating consortium representatives.
- ✓ **Annex 6: ROB4GREEN SME Declaration** – A template used to verify the SME or Startup status of the Lead Partner.

Applicants whose proposals are successfully selected for funding will be required to finalize the following additional documents during the contracting phase:

- ✓ **Annex 7: ROB4GREEN Sub-Grant Agreement** – The formal contract between the project consortium and the third-party beneficiaries.
- ✓ **Annex 8: Banking Information Form** – Necessary documentation for the disbursement of the lump-sum funding.

All documents are publicly accessible via the project website at <https://rob4green-project.eu/open-calls-2/>.

Application Kit

The following documents are necessary for the application preparation:

- [Annex 1 - ROB4GREEN OC1 Guide for Applicants](#)
- [Annex 2 - ROB4GREEN Technical Description](#)
- [Annex 3 - F6S Application Form](#)
- [Annex 4 - ROB4GREEN Proposal Template](#)
- [Annex 5 - ROB4GREEN Consortium Declaration of Honor](#)
- [Annex 6 - SME Declaration](#)

Documents Needed Upon Proposal Acceptance

If your proposal gets approval for funding, you will be invited for contracting with the project. You may find related documents below:

- [Annex 7 - ROB4GREEN Sub-Grant Agreement](#)
- [Annex 8 - Banking information form](#)

Figure 5. ROB4GREEN Open Call 1 documents – ROB4GREEN website

2.2 OC1 Launching & promotion

The first ROB4GREEN Open Call (OC1) was officially open for submissions from **February 4, 2026**, until the closing deadline on **April 8, 2026**, at 17:00 CET. To ensure full transparency and strict adherence to Horizon Europe financial support regulations, all technical and legal annexes within the Application Kit were shared and approved by the **European Commission (EC)** prior to the official announcement.

2.2.1 Primary channels and platforms

The dissemination and management of the call were executed through the following primary channels:

- ✓ **Official EC Publication:** To maximize European reach and visibility, the call was formally listed on the European Commission Funding & Tenders Portal¹ under the section for competitive calls for third parties.

¹ Funding and Tenders portal – [ROB4GREEN Open Call #1](#)





- ✓ **Submission Platform:** All applications were handled exclusively through the **F6S platform**, which served as the centralized portal for consortium leads to submit their proposals and mandatory annexes. (Refer to Annex 6)
- ✓ **Informational Support:** Throughout the two-month application window, the consortium maintained an active outreach campaign. This included the hosting of three live, recorded info webinars that provided prospective applicants with a comprehensive walkthrough of the technical challenges, mandatory ROB4GREEN tools, and evaluation criteria.
- ✓ **Communication of the OC:** F6S leveraged its extensive network to perform targeted scouting, ensuring that high-potential SMEs and industrial end-users were aware of the available €2.4 million funding pool. TF-CC, as project's dissemination leader, promoted the open call through the project's social media platforms (Figure 6) and website (Figure 7). LMS, TF-CC and F6S have participated in online and physical events where they had the chance to engage with potential stakeholders (e.g., ERF2026, HADEA Showcase 2026, ADRA Technical Working Group meetings, etc.). Public material (i.e., business cards, Leaflets) highlighted the open call opportunities.

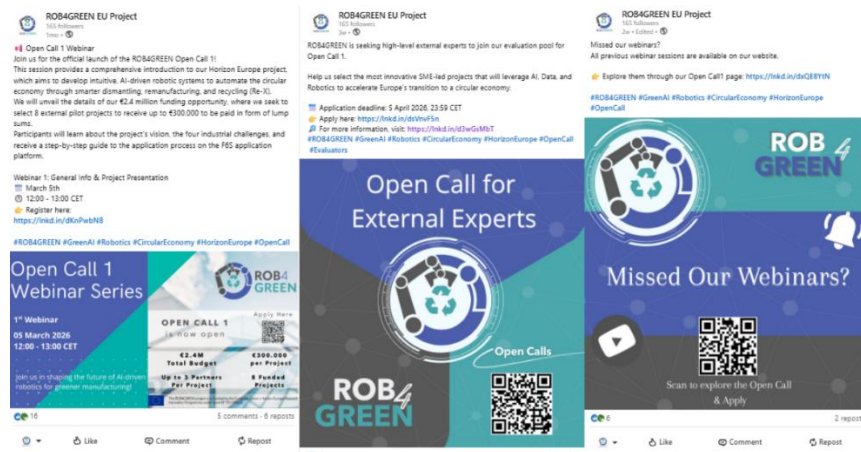


Figure 6. Indicative promotion posts via LinkedIn

Topics

The ROB4GREEN Open Call 1 is organized around four key topics. Each one corresponds to a different hierarchy level of the circular economy, aiming to address barriers that hinder its uptake in Europe.



AI, Data and Robotics for Life Extension

Robotic and AI solutions that extend the operational lifetime of products through inspection, diagnostics, and repair.



AI, Data and Robotics for Value Retention

Flexible robotic systems and AI tools that enable refurbishing, remanufacturing, or repurposing of used products at industrial scale.



AI, Data and Robotics for Parts Harvesting

AI-enabled robotic solutions for selective dismantling and recovery of high-value components from complex products.



AI, Data and Robotics for Decommissioning and Recycling

Robotic and AI technologies that support safe decommissioning and high-quality material recovery, prioritizing reuse and recycling over disposal.

Timeline



Figure 7. Open call topics and timeline - ROB4GREEN website





2.2.2 Support activities for the applicants

As detailed in Annex 1, the ROB4GREEN Open Call Management team was committed to ensure that the open calls will not only have high visibility, but also appropriate support for their applicants. In this direction, the following support means were provided, and disclosed in Annex 1:

- F6S Online Q&A: <https://www.f6s.com/rob4green-open-call-1/discuss/>
- Contact e-mail, and Open Call Management Team: oc@rob4green-project.eu
- Contact e-mail for submission platform (technical support, resubmission or issues): support@f6s.com
- Open Call 1 Documents: <https://rob4green-project.eu/open-calls/>
- OC information: <https://rob4green-project.eu/open-calls/>
- Submission platform: <https://www.f6s.com/rob4green-open-call-1/apply/>
- Frequently Asked Questions: <https://rob4green-project.eu/open-calls-2/>

In parallel, three live informational webinars were organized to provide prospective applicants with comprehensive details about the call. Participation required prior registration, ensuring that the sessions reached a targeted audience of SMEs and industrial partners. These webinars were specifically designed to address any queries potential applicants might have regarding the call requirements and its accompanying documentation.

Each session concluded with a dedicated Q&A segment, providing live query feedback to address specific technical or administrative concerns in real-time. Following the conclusion of each event, the recorded webinars were uploaded to the official ROB4GREEN website for public consultation (). Additionally, the presentation materials used during the sessions were sent directly to all registered participants via email to support them in their application preparation.

Need More Help?

Webinars regarding how to access a share of our €2.4 million funding pool to develop AI-driven robotics for the circular economy have taken place. You can watch the full recordings of the past webinars below and register for the upcoming webinar.

Webinar#1


Watch recording

Webinar#2


Watch recording

Webinar#3


Watch recording



Frequently Asked Questions(FAQ)

Here you will find our answers to the most frequently asked questions concerning the open call process and rules.

Apply by 8th April 2026 at 17.00 CET (Brussels time)

Consortium & Eligibility

Can a Large Company participate in the Open Call?

Figure 8. ROB4GREEN Webinars and FAQ – ROB4GREEN website



The table below outlines the structure, content, and impact of these three sessions.

Table 3. Summary of OC1 webinars

Webinar 1: General Info & Project Presentation	
Time	March 5th, 12:00 CET
Summary	Join us for the official launch of the ROB4GREEN Open Call 1! This session provides a comprehensive introduction to our Horizon Europe project, which aims to develop intuitive, AI-driven robotic systems to automate the circular economy through smarter dismantling, remanufacturing, and recycling (Re-X). We will unveil the details of our €2.4 million funding opportunity, where we seek to select 8 external pilot projects to receive up to €300,000 to be paid in form of lump sums. Participants will learn about the project's vision, the four industrial challenges, and receive a step-by-step guide to the application process on the F6S platform
Agenda	12:00 - 12:05 CET Welcome & Framing (5 min): Moderator intro (Josipa), housekeeping rules 12:05 - 12:20 CET Project Presentation (15 min): LMS presents the ROB4GREEN vision: Bridging the gap between labor-intensive Re-X and automated circularity. 12:20 - 12:35 CET Challenges Presentation (15 min): LMS provides an overview of the four core challenges: Life Extension, Value Retention, Parts Harvesting, and Decommissioning/Recycling. 12:35 - 12:50 CET Open Call Process (15 min): F6S explains eligibility, funding conditions (up to €300k per project), the 10-month pilot duration, and the F6S platform submission. 12:50 - 13:00 CET Interactive Q&A (10 min): Addressing general and administrative queries
Registration link	▶ Register Here
Recording link	https://youtu.be/X-TjKluSHtk
Webinar 2: Technical Deep-Dive & Challenges	
Time	March 18th, 12:00 CET
Summary	Join us for the official launch of the ROB4GREEN Open Call 1! This session provides a comprehensive introduction to our Horizon Europe project, which aims to develop intuitive, AI-driven robotic systems to automate the circular economy through smarter dismantling, remanufacturing, and recycling (Re-X). We will unveil the details of our €2.4 million funding opportunity, where we seek to select 8 external pilot projects to receive up to €300,000 to be paid in form of lump sums. Ready to build your proposal? This technical session is designed for potential applicants to deep-dive into the specific hurdles we aim to solve. Our technical leads will provide detailed insights into the four core challenges of this call: a) AI, Data, and Robotics for Life Extension b) AI, Data, and Robotics for Value Retention





Agenda	c) AI, Data, and Robotics for Parts Harvesting d) AI, Data, and Robotics for Decommissioning and Recycling We will discuss the technical requirements, the available ROB4GREEN technology blocks (AI perception, motion planning, and digital twins), and the expected KPIs for your 10-month pilot project. This is the best opportunity to ensure your proposed solution aligns with the project's roadmap.
	12:00 - 12:10 CET Project & OC process recap (10 min): F6S provides a brief introduction for new participants. 12:10 - 12:20 CET Challenge 1 (10 min): AI, Data and Robotics for Life Extension — focus on technical hurdles and expected outcomes. 12:20 - 12:30 CET Challenge 2 (10 min): AI, Data and Robotics for Value Retention. 12:30 - 12:40 CET Challenge 3 (10 min): AI, Data and Robotics for Parts Harvesting. 12:40 - 12:50 CET Challenge 4 (10 min): AI, Data and Robotics for Decommissioning and Recycling. 12:50 - 13:00 CET Technical Q&A (10 min): Deep-dive into technology blocks (AI perception, motion planning) and pilot onsite demonstration requirements
	▶ Register Here
	https://youtu.be/u8GNaTxORwk
Registration link	
Recording link	
Webinar 3: : Final Q&A & Teaser	
Time	March 18th, 12:00 CET
Summary	Join us for the official launch of the ROB4GREEN Open Call 1! This session provides a comprehensive introduction to our Horizon Europe project, which aims to develop intuitive, AI-driven robotic systems to automate the circular economy through smarter dismantling, remanufacturing, and recycling (Re-X). We will unveil the details of our €2.4 million funding opportunity, where we seek to select 8 external pilot projects to receive up to €300,000 to be paid in form of lump sums. With the April 8th deadline fast approaching, this final session is a dedicated space to answer your last-minute questions and help you polish your application. We will provide a concise recap of the project goals and the application requirements before opening the floor for an extended 40-minute interactive Q&A. Whether you have queries regarding the Technical Annex, SME eligibility, or the administrative requirements of the Lump Sum funding model, our Open Call management team is here to ensure you have all the information needed to submit a competitive proposal.
Agenda	12:00 - 12:10 CET Project Overview Recap (10 min): LMS highlights the key pillars of mechatronics and AI interfaces 12:10 - 12:20 CET Challenges Summary & KPI Expectations (10 min): LMS recaps the mandatory KPIs and dissemination requirements





	12:20 - 12:30 CET OC1 Process: Final Checklist (10 min): F6S reviews common pitfalls, mandatory annexes (Annex 3, 4, 5, and 6), and the "no-negotiation" rule for sub-grants 12:30 - 13:00 CET Extended Q&A Session (30 min): Open floor for all final questions regarding the €2.4M total call budget and onboarding process
Registration link	▶ Register Here
Recording link	https://youtu.be/ZJEVALUZOmc

2.3 Evaluation and Selection

The evaluation plan for the **ROB4GREEN 1st Open Call (OC1)** is structured to ensure a transparent, fair, and high-quality selection of the most innovative SME-led projects. To achieve this, the project has launched a targeted recruitment for an **Expert Evaluation Board**.

ROB4GREEN has launched an **Open call for expert evaluators** seeking experts to evaluate external pilots.

- **Profile of experts:** Candidates must hold a BSc, MSc, or PhD with at least 5 years of experience in industrial robotics, AI and data, circular economy, or business management.
- **Key responsibilities:** Experts will work remotely to evaluate 8-16 proposals per call, provide Individual Evaluation Reports (IERs), and participate in consensus and interview meetings.
- **Remuneration:** Selected experts receive competitive remuneration based on standard European Commission rates.
- **Deadline:** The evaluator application deadline is set for **5 April at 23:59 CET**.

The evaluation of submitted proposals is divided into four distinct phases:

1. **Phase 1 - Eligibility check:** A semi-automatic verification conducted by the ROB4GREEN team to ensure applications meet all administrative requirements, entity type rules, and geographic coverage.
2. **Phase 2 - Remote proposal evaluation:** Each eligible proposal is reviewed by a minimum of two independent experts from the evaluation board. They assess the proposals based on the core criteria defined below.
3. **Phase 3 - Online interview:** Only the top 16 ranked applications are invited to a 30–45-minute online interview and pitch session. This phase verifies the applicants' commitment and exploitation potential.
4. **Phase 4 - Final ranking and selection:** All applications are ranked based on their final Evaluation Summary Report (ESR) scores to select the top 8 proposals for funding.

Proposals are evaluated on a scale of 1 to 10 across four main categories:

- ✓ **Concept and Innovation:** Novelty and feasibility of the proposed application.
- ✓ **Technology Implementation Approach:** Quality of the work plan and co-development with the ROB4GREEN team.
- ✓ **Impact:** Market potential, scalability, and economic/societal impact.
- ✓ **Applicant Entity/Team:** Technological expertise and justification of requested resources.

To qualify for funding, proposals must reach a minimum threshold of **6/10** for each individual criterion and an overall score of at least **25/40**.

More details on the overall evaluation plan, selection of experts and corresponding activities will be thoroughly discussed in the upcoming report D7.2.





3 CONCLUSIONS

The ROB4GREEN OC1 preparation phase has successfully established the strategic and operational foundation for the project's cascade funding program. Through an iterative co-design process with consortium partners and industry stakeholders, four strategic challenges were defined to address real-world circular economy barriers. The resulting "Application Kit" provides a transparent legal and technical framework for all participants. Promotion and support activities, including the rollout on the F6S and EC portals and three live webinars, have maximized call visibility and provided essential applicant guidance. With the four-phase evaluation methodology now ready, the project is positioned to select eight high-impact pilots to receive a total of €2.4 million in funding. Full details on the evaluation outcomes and subsequent pilot mentoring will be reported in D7.2 and D7.3 deliverables.





ROB4GREEN

Robotics and AI as Enablers for Greener Dismantling, Remanufacturing and Recycling

-ROB4GREEN-

**HORIZON-CL4-2024-DIGITAL-EMERGING-01-04 – Industrial leadership in AI, Data and Robotics
boosting competitiveness and the green transition (AI Data and Robotics Partnership) (IA)**

Grant Agreement No. 101189665

Annex 1: Guide for Applicants_R2

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HISTORY OF CHANGES

Version	Release date	Changes
V0	05/02/2026	No changes (Original version)
R1	17/03/2026	Update in section 3.6, Table 3. The ending date of the FSTP's programme's projects is corrected to 31/03/2027 (instead of 01/03/2027)
R2	06/04/2026	Added an extra clarification for the PIC number stating that its validation is not mandatory.





1 INTRODUCTION

This document provides a full set of information regarding the **ROB4GREEN 1st Open Call for External Pilots**, also referred to as **Open Call 1 (OC1)**.

All associated Annexes should be read prior to the submission of a Proposal:

- Annex 1: Guide for Applicants (current document) → describes eligibility criteria, funding conditions, necessary documentation, etc.
- Annex 2: ROB4GREEN Technical Description → describes: a) the ROB4GREEN objectives and consortium, b) OC1 challenges and KPIs, c) the ROB4GREEN tools and support to be available.
- Annex 3: F6S Application Form → **required to be filled in** <https://www.f6s.com/rob4green-open-call-1/apply/>
- Annex 4: ROB4GREEN Proposal Template → **required to be uploaded** in the F6S application form.
- Annex 5: ROB4GREEN Consortium Declaration of Honor → **required to be uploaded**
- Annex 6: SME Declaration → **required to be uploaded**
- Annex 7: ROB4GREEN Sub-Grant Agreement → **required to be filled and signed** upon acceptance
- Annex 8: Banking information form → **required to be filled** upon acceptance

For the application, **the preparation of Annex 3, Annex 4, Annex 5 and Annex 6 are mandatory.**

Upon successful evaluation, the applicants need to prepare and sign the sub-grant agreement based on Annex 7 and share banking information via Annex 8.

1.1 Before you start, go through this checklist

- ✓ **Does your planned work fit the call for proposals?** → Check that your proposed work does indeed address the Open Call 1 objectives.
- ✓ **Is your proposal eligible?** → The eligibility criteria are given in Section 4 “Who can apply?”. Any proposal not meeting the eligibility requirements will be considered ineligible and will not be evaluated.
- ✓ **Are within budgetary limits and conditions?** → Check that you comply with any budgetary limits as expressed in Section 3.5 “Funding conditions”.
- ✓ **Is your proposal application complete?** → Make sure that you have filled in or uploaded all necessary annexes outlined in Section 0.
- ✓ **Does your proposal fulfil the requested information?** → Proposals should be precise, and concise and must answer to requested information, which is designed to correspond to the applied evaluation. Omitting requested information will almost certainly lead to lower scores and possible rejection.
- ✓ **Have you maximized your chances?** → There will be strong competition. Therefore, edit your proposal tightly, and strengthen or eliminate weak points. Ensure that you use and contribute to the ROB4GREEN ecosystem. Make sure you provide solid KPIs in line with the requirements of the Annex 1: ROB4GREEN technical description.
- ✓ **Have you submitted your proposal before the deadline?** → It is strongly recommended not to wait until the last minute to submit the proposal. Failure of the proposal to arrive in time for any reason, including network communications delays, is not acceptable as an extenuating circumstance. The time of receipt of the application as recorded by the submission system will be definitive.
- ✓ **Have you provided the necessary annexes (Annex 3, Annex 4, Annex 5 and Annex 6*)?**
- ✓ **Do you need further advice and support?** → You are strongly advised to communicate with the ROB4GREEN team using the contacts details of section 10.





2 WHAT IS THE ROB4GREEN PROJECT?

ROB4GREEN is an EU-funded project under the Horizon Europe Programme designed to bridge the gap between labor-intensive Re-X processing and automated circularity by developing intuitive, collaborative, and AI-driven robotic systems. By addressing current limitations in cognitive intelligence, product state perception, and value-chain decision-making, the project enables industries to adapt seamlessly to key circular “R-strategies” for processing products after their first life. The ROB4GREEN framework is built upon three core technological pillars: cognitive mechatronics that “understand” material compositions in real-time through advanced perception; AI-based interfaces for continuous learning and human-robot interaction in high-variability contexts; and a modular architecture for multi-level optimization that scales from individual robotic cells to the entire value chain. These innovations are rigorously validated through three industrial pilots focused on wind blade decommissioning (energy), tire remanufacturing (automotive), and high-value component harvesting (electronics). To maximize European industrial impact and ensure architectural interoperability, ROB4GREEN integrates a € Financial Support to Third Parties (FSTP) program, facilitating the deployment of external pilots and the co-development of solutions with external Research and Technology Organizations (RTOs) in additional real-world scenarios. For more information about the project and its consortium, refer to Section 2 of Annex 2.

3 WHAT IS THE ROB4GREEN - OPEN CALL 1?

This Open Call is part of the ROB4GREEN research project that is funded under the Horizon Europe Programme. The objective is to maximize impact on the European economy and validate the rapid technology deployment of the project’s solutions. In this direction, ROB4GREEN incorporates a Financial Support to Third Parties (FSTP) program with a *total budget of €4 million*.

3.1 Overview

OC1 aims to support third parties in the development and implementation of innovative solutions through funding, mentoring, and access to project’s digital tools, while demonstrating the replicability and sustainability of the ROB4GREEN framework. For the **1st Open Call (OC1)**, ROB4GREEN will invest **a total of €2.400.000**.

For having access to the ROB4GREEN programme, eligible applicants must submit competitive proposals that are evaluated based on four core criteria (refer to Table 4).

In this direction, the programme will select for funding **8 external pilot applications** by providing a **maximum contribution of 300.000€**, to be paid in form of **lump sums**.

Each external pilot must **address one of the challenges** defined in Table 1 and Annex 2,

The submission platform will be open for accepting OC1 applications between the **4th of February 2026** and the **8th of April 2026 at 17.00 CET (Brussels time)**.

After the selection is completed, the **selected applicants will be invited to sign the sub-grant agreement** and enter the ROB4GREEN Programme.

The **duration of the external pilot is ten (x10) months** and the starting date for the activities is planned for 01/06/2026. During the activities, the beneficiaries will have the support of a mentoring team composed of: a) an Innovation Mentor, b) a SSH Mentor (SSM), and c) an Industry Mentor (IME). In parallel, they will have access to a portfolio of technology blocks of ROB4GREEN that can support activities. Information for Mentoring team can be found in Section 8.9.

3.2 Technical Requirements

All applications need to be structured based on the following key technical requirements:



- The funded activities are expected to **start at TRL 4** (minimum) and **end at TRL 7** (final).
- The funded activities need to achieve the ROB4GREEN **overall KPIs for external pilots** (refer to Section 5.3 of Annex 2).
- The funded activities need to achieve specific **Dissemination KPIs** (refer to Section 5.3 of Annex 2).
- The funded activities **must address one of ROB4GREEN challenge** (section 3.2 of Annex 2).
- Each application needs to
 - ✓ demonstrate the proposed solutions onsite or at relevant testbeds,
 - ✓ justify product-market fit,
 - ✓ and support the comprehensive evaluation of the used ROB4GREEN tools by including end-users at the center of the pilot's deployment and validation.

The expected outcome of the funded activities, at the end of their 10-month duration, needs to include:

- the demonstration of the solution including the selected (1 or 2) ROB4GREEN functionalities (refer to Annex 2)
- a report presenting the testing with actual users (individuals such as workers, operators, engineers) in the selected industry. This should be supported by a user satisfaction study and documented in a report.
- a report presenting their go to market strategy.

3.3 Types of projects

Applicants are required to select **one of the challenges** presented in Table 1. More information and technical details on the challenges can be found in Annex 2.

In line with its core mission for having broad impact on the European Circular Economy, the OC1 aims to fund innovative projects that improve working conditions and efficiency across diverse Re-X processes. Therefore, a balanced **baseline distribution of two (x2) applications per challenges** is foreseen, as showcased in Table 1.

Table 1. Challenges of the ROB4GREEN - Open Call 1

Code	Challenge Title	Baseline number of funded applications ¹
C#1	AI, Data and Robotics for Life Extension	2
C#2	AI, Data and Robotics for Value Retention	2
C#3	AI, Data and Robotics for Parts Harvesting	2
C#4	AI, Data and Robotics for Decommissioning and Recycling	2

3.4 Project structure and phases

¹ While ROB4GREEN targets balanced distribution, in the event of a shortage of high-quality proposals in a specific challenge, the consortium may adjust this distribution to guarantee the scientific and technical impact of the programme. Refer to Section 6 for further details on the selection process.





The programme's structure is summarized in Table 2.

Table 2. Programme phases

Phase number	Name	Duration
Sprint 1	Requirements	M01 – M02
Sprint 2	Deployment & development	M03 – M08
Sprint 3	Validation	M09 – M10

For more information of the phases and corresponding achievement criteria, refer to Annex 2.

3.5 Funding conditions

3.5.1 Financial support

Any entity, applying individually or as part of a consortium, will only be considered for funding under this Open Call **once**.

Each proposal application may receive a **maximum of up to €300.000** in the form of **lump sum**.

The budget distribution must be clearly allocated to the members of the consortium as **each member can only receive up to €200.000**.

The €200,000 limit is a cumulative ceiling per legal entity across all ROB4GREEN open calls; therefore, the total financial support a single partner receives throughout the entire duration of the ROB4GREEN project (for Open Call #1 and Open Call #2) cannot exceed this threshold.

These amounts are inclusive of all taxes and indirect costs. The total amount **requested must represent 100% of the project costs** (including indirect costs). All applications will be required to provide a justification of the planned costs and resources of the project.

3.5.2 Eligible costs categories

Funding is foreseen to support the following categories of costs:

- A. Personnel costs: these involve work performed by employees of the third-party for:
 - Project management;
 - Research and technical development;
 - Testing and piloting;
 - Communication, promotion, and exploitation;
- B. Other direct costs: these include:
 - Investment in software/ hardware (only the value associated with its depreciation).
 - Travels associated with the project deployment or ROB4GREEN activities.
 - Participation in events/ conferences and promotion campaigns associated with ROB4GREEN.
- C. Indirect costs: these represent an amount equal to the 25% of "Personnel costs + Other Direct costs".

Relevant Notes:

- Subcontracting of activities is not eligible for this open call.
- This cost breakdown is only used to justify the requested lump-sum amount at proposal stage and during contracting. It does not imply later cost reporting or cost-based reimbursement.



3.5.3 OC1 lump sum conditions

For the ten (10) month period of the lump sum, funding will be performed in two (x2) payments, linked with the project's sprints. More specifically:

1. **50% prefinancing** at the start of the project (Linked to Sprint 1 and Sprint 2).
2. **50% final payment** after the successful completion of Sprint 3, and successfully delivery of results.

ROB4GREEN mirrors the rules applying to its Model Grant Agreement into this programme which is covered by its FSTP funding. Therefore, the applicants must comply to the **Article 22** and **Article 27²** of the Horizon Europe Model Grant Agreement.

The ROB4GREEN consortium applies a strict “performance-based” funding model. **Pre-financing is a liquidity tool, not an acquired right.**

Should the technical reviews conclude that the work was not properly implemented or that the agreed milestones were not reached, the costs will be rejected, and any pre-financing paid shall be considered a debt to the ROB4GREEN coordinator (University of Patras_ LMS) and must be recovered in full.

Figure 1 visualizes the applied funding conditions and payment schedule.

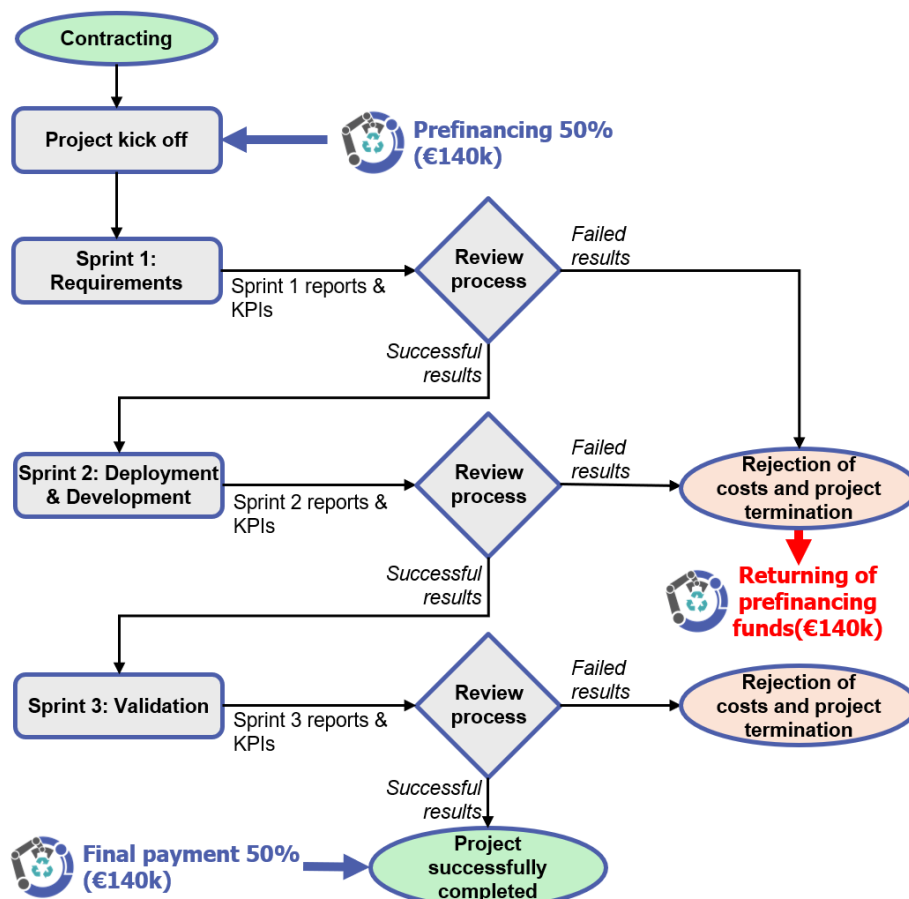


Figure 1. Funding conditions and payment schedule of programme (indicative example for a €280.000 grant)

² Detailed descriptions of the articles applying and more specifically Article and Article 27 can be found [here](#).



Detailed payment schedule and payment conditions will be settled in the Sub-grant Agreement (Contract) (Annex 7).

3.6 FSTP programme phases and Timeline

The FTSP programme phases and its timeline for OC1 is summarised in Table 3.

Table 3 Application Process and Timeline³

Phase	Description	Timeline
Application	- Applicants prepare their proposals and submit them through the F6S Platform https://www.f6s.com/rob4green-open-call-1/apply - Annexes and proposal Supplement material can be found in ROB4GREEN website https://rob4green-project.eu/open-calls/	Launch date: 04/02/2026 Submission deadline: 08/04/2026 (17h00 CET)
Eligibility & Technical check Application evaluation	- ROB4GREEN Consortium performs internal checks the eligibility criteria of the applications (refer to 4.2). - An evaluation board reviews the received applications, scoring them based on the evaluation criteria. The evaluators rank the applications and select the top-ranked projects in online interviews.	Launch date: 09/04/2026 Review deadline: 15/05/2026
Announcement of the results & onboarding	All applicants receive a written letter about approval or rejection of their project. The successful projects start the onboarding phase in the ROB4GREEN Programme.	Launch date: 16/05/2026 Onboarding deadline: 31/05/2026
Project duration	Applicants carry out the activities of their project in accordance to the sub-grant agreement	Kick off date: 01/06/2026 Project end: 31/03/2027

4 WHO CAN APPLY?

4.1 Types of applicants

Eligible applicants for the ROB4GREEN – OC1 are **consortia of 2 or 3 legal entities** composed by:

- Mandatory: (x1) one SME/Startup** that will be responsible for the technical developments (serving as Technology Integrator/Provider/Developer) and acts as the pilot leader.
- Mandatory: (x1) one Industrial end-user**, providing the external pilot scenario and it is responsible to validate the technical developments (serving as Technology Adopter)
- Optional:** 1 organization providing technology and/or expertise for supporting the project implementation, which can be either mid-cap, SME or research organization (RTO or academia)

Relevant Notes:

- It is mandatory that the leading organization and the end user organization are distinct entities.

³ The submission date for applications is final. All other dates, including those of the programme, may be subject to change. In such case, all beneficiaries will be informed accordingly.





2. The “Optional” participant can be accepted only if there is already one technology adopter and one technology providing SME in the consortium (e.g., 1 university + 1 end-user is not eligible)
3. All organizations need to comply with the eligibility criteria and originate from eligible countries (section 4.2.2)
4. The characterization of an organization as an SME needs to follow the [EU SME definition](#) and the [Commission Recommendation 2003/361/EC](#)
5. A signed version of the Declaration of Honour and the SME Declaration will be requested during the contract preparation phase

4.2 Eligibility criteria

The applications will go through a semi-automatic eligibility check which will exclude and mark as ineligible any application that does not comply with the criteria in this section.

4.2.1 Entities

ALL entities of the consortia need to comply with the following rules:

1. The applicants cannot be members or associated partners of the ROB4GREEN consortium (refer to Section 4.2.4).
2. The applicants should be legal entities established and based in one of the EU Member States or a Horizon Europe Associated country as defined in Horizon Europe rules for participation (refer to section 4.2.2).
3. SMEs and Start-ups will be considered eligible only in the case that they have been established at least one year (12 months) before the submission of the application.
4. The applicants must have a valid VAT.
5. The applicants must provide a PIC number. If no PIC number is available, participants must register in Funding and Tenders portal⁴. The validation of the PIC is not mandatory neither leads to ineligibility.
6. The applicants should be able to prove their financial stability and capacity and pass any financial check required by the European Commission, including financial capacity assessment. Therefore, applicants must not be a) bankrupt, b) in the process of bankruptcy, or c) in a situation of significant tax or social security debt.
7. The applicants should not have been convicted for fraudulent behaviors, other financial irregularities, unethical or illegal business practices (e.g., fraud, corruption, money laundering, etc.) and subject to EU restrictive measures (sanctions lists).
8. The applicants should not be enterprises under liquidation or under difficulty according to the Commission Regulation No 651/2014 art. 2.18.
9. The applicants should submit a signed version of Annex 5 and Annex 6.

4.2.2 Eligible Countries

The ROB4GREEN – OC1 follows the rules applied by the EC for the R&D Programme Horizon Europe in terms of geographical coverage, eligibility, and exclusions, which take precedence. Therefore, **eligible countries of origin** that allow funding for ALL entities are:

- European Union (EU) Member States (MS), including their outermost regions.
- The Overseas Countries and Territories (OCT) linked to the Member States⁵.

⁴ PIC registration: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/participant-register>

⁵ Entities from Overseas Countries and Territories (OCT) are eligible for funding under the same conditions as entities from the Member States to which the OCT in question is linked.



- Horizon Europe associated countries (**version V3.2**)⁶, published on 12/11/2024 (those that have signed an agreement with the EU as identified in the HE Programme Guide) according to the updated list published by the EC. Association to Horizon Europe is governed by the Horizon Europe Regulation 2021/695).

Relevant notes:

1. Entities from Switzerland are not eligible in this Open Call.
2. Version V3.2 was in place when ROB4GREEN Grant Agreement was signed, and it is the one used for this Open Call.

4.2.3 Proposal submission

ALL applications must:

1. respond to the technical challenges of OC1: Each application needs to address on the challenges described in Annex 2.
2. use 1 to 2 ROB4GREEN technology block: Each application needs to specify the number (1 or 2) and type of the available ROB4GREEN technology blocks (described in Section 4.2 Annex 2) that will be used and validated in the external pilot.
3. be submitted electronically, using the ROB4GREEN Online Submission Service: **Proposals submitted by any other means are not eligible and will NOT be evaluated.**
4. be submitted within deadline⁷: Failure to submit the application by the submission deadline, regardless of cause (e.g., network issues, multiple browsers or windows), is not acceptable as an extenuating circumstance. It is recommended to apply well before the deadline⁸.
5. follow file formatting: Unless otherwise agreed, all documents in all phases must be submitted electronically in PDF format without printing restrictions.
6. be within the page limit: the submitted files must follow the provided template (font sizes, rules, cover pages, etc.) and do not surpass the indicated page limit. Any content beyond the page limit will be excluded from the reviewing procedure. If proposal requirements are not satisfied by the material within the page limit rating will be negatively affected.
7. be complete: All mandatory questions must be answered, and all requested documents must be uploaded. Incomplete applications will be disqualified.
8. be submitted in English language: applications in any other language will not be evaluated. The same condition also applies for the whole duration of the ROB4GREEN programme. This means that it is mandatory that the submission of deliverables and reports is done in English.
9. accept proposed terms: applicants must agree to the application's terms and conditions.
10. review and accept sub-grant agreement: Applicants must get familiar with the documents that will be required in the contracting phase and accept their conditions. Sub-grant agreement rules cannot be negotiated during contracting phase (sub-grant agreement template Annex 7)
11. respect the budget limit: Proposals exceeded by any means the maximum budget are not eligible and will be automatically excluded from the evaluation.

⁶ V3.2: https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/guidance/list-3rd-country-participation_horizon- Euratom_v3.2_en.pdf

⁷ The deadline may be extended only in case of unforeseen F6S platform technical issues that affects all applicants. All applicants will be notified of the new deadline.

⁸ Resubmissions are possible provided the call deadline has not passed, but are only guaranteed if requested at least 2 business days before the deadline via support@f6s.com.



Furthermore, given that this call is competitive, **multiple applications are not allowed**. More specifically:

1. **Each legal entity or individual member** of a team will be eligible to participate in this Open Call with only one (x1) proposal. Submission of more than one (x1) proposals will be a disqualifier factor.
2. In case an entity submits more than one applications, **only** the application submitted first in the system will be considered. Additional applications regardless of eligibility or excellence will be automatically disregarded.

In addition to the previous conditions, it is noted that **proposals need to ensure that there is no risk of double funding**. The fundamental principle underpinning the rules for public expenditure in the EU states that no costs for the same activity can be funded twice from the EU budget, as defined in Article 111 of Council Regulation (EC, Euratom) No 1605/2002 of 25 June 2002 on the Financial Regulation.

4.2.4 Conflict of interest

To avoid conflicts of interest, applications will not be accepted from entities who are partners in the ROB4GREEN consortium or who are formally linked in any way to partners of the consortium. The list of partners is available in the technical Annex 2, or ROB4GREEN project [website](#).

Applicants shall not have any actual or/and potential conflict of interest with the ROB4GREEN selection process and during the whole project. The applicants will be required to declare that they know of no such potential conflicts of interest by submitting Annex 5 – ROB4GREEN Consortium Declaration of Honour. All suspected cases of conflict of interest will be assessed case by case. Applicants must take all measures to prevent any situation where the impartial and objective implementation of the project is compromised for reasons involving economic interest, political or national affinity, family or emotional ties or any other shared interest ('conflict of interests').

5 HOW TO APPLY?

5.1 Application process

The F6S platform will be the **single-entry point for all applications** to the ROB4GREEN - Open Call 1. Interested applicants should register at the ROB4GREEN F6S page →

<https://www.f6s.com/rob4green-open-call-1/apply>.

After application submission, editing is not possible.

If the applicant discovers an error in the proposal and provided the call deadline has not passed, the applicant may request the Open Call ROB4GREEN team to re-submit the proposal. For this purpose, please contact us at oc@rob4green-project.eu with a message titled: RESUBMISSION REQUEST.

However, ROB4GREEN is not committed that resubmission in time will be feasible in case the request for resubmission is not received by the Open Call ROB4GREEN team at least 48 hours before the call deadline (see section 3.1).

The templates to the Open Call 1 documents are available here: → <https://rob4green-project.eu/open-calls/>

For any support or question refer to the provided contacts of Section 10.

Relevant Notes:

- Additional material, which has not been specifically requested in the online application form, will not be considered for the evaluation of the proposals and may be subject to withdrawal from the evaluation.





- It is strongly recommended to avoid waiting till the last moment of submission. **Failure of the Proposal to arrive in time for any reason, including communications delays, or network issues is not acceptable as an extenuating circumstance and will automatically lead to rejection of the submission.** The time of receipt of the proposal as recorded by the submission system will be definitive.

5.2 Additional insights and instructions

Applying to an open call takes time and dedication and we would like to make sure that you understand the crucial rules:

- **Be on time:** Make sure you submit your proposal through the F6S platform before the deadline. If you submit the form correctly, the system will send you a confirmation of your submission (please check your SPAM folder as well). Proposals submitted by any other means are ineligible, hence will not be evaluated.
- **F6S application:** The F6S platform allows you to work flexibly on the content, which is automatically saved once you progress filling out the form. All members of your team can have access to the application form and contribute to the work.
- **Be exhaustive:** Have you answered all the sections of the form and uploaded all required Annexes?
- **Every question deserves your attention:** All sections of your proposal must be filled in. Make sure that the data provided is true and complete.
- **Documentation format:** Any document requested in any of the phases must be submitted electronically in PDF format without restrictions for printing.
- **Review future documents:** Applicants are encouraged to get familiar with the documents that will be required in the contracting phase described in Section 7 “What happens after selection”?
- **Don’t miss anything:** Applicants are encouraged to enable F6S notifications for the programme in their profile settings to ensure communications regarding their application are received.



6 HOW WILL APPLICATIONS BE EVALUATED AND SELECTED?

The evaluation process is structured into 4 phases, as illustrated in Figure 2.

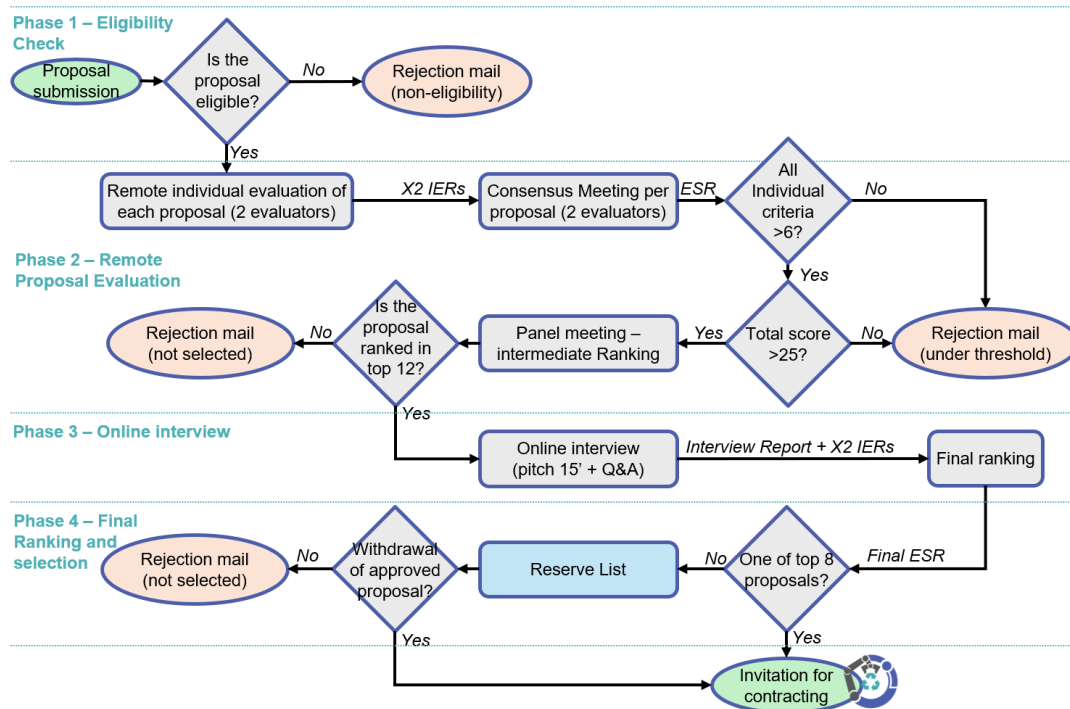


Figure 2. Evaluation process workflow

ROB4GREEN reserves the right to request at any moment of the process additional information and/or documentation to clarify any doubts regarding the eligibility of the applicant(s) and/or the application.

6.1 Phase 1 – Eligibility check

An initial eligibility verification will be done to filter out and discard non-eligible applications. This is a semi-automatic process carried out by the ROB4GREEN team⁹ considering all the **eligibility criteria and requirements** listed in Section 4. The check will verify:

- ✓ All entities are eligible for EC funding under the rules of Horizon Europe [Y/N].
- ✓ The application has a minimum of 2 and a maximum of 3 partners in addition to correct types of entities [Y/N].
- ✓ The proposed project is aligned to the Open Call 1 objective, per Challenge [Y/N].
- ✓ The Proposal is written in English [Y/N].
- ✓ All required documentation is submitted correctly [Y/N].
- ✓ The Proposal does not exceed the maximum available funding [Y/N].

The eligible Proposals will be given to external evaluators to initiate the remote evaluation of the next phase.

Applications marked as non-eligible (for not meeting one or more of the eligibility criteria) will receive a rejection letter with a justification. The letter will not involve any additional feedback related to the evaluation criteria of Table 1.

⁹ ROB4GREEN reserves the right to request at any moment and at any phase of the process additional information and/or documentation to clarify any doubts regarding the eligibility of the applicant(s) and/or the application.





6.2 Phase 2 – Remote Proposal evaluation

The external proposal evaluation will be done remotely by the expert evaluation board. This is a collective body composed of individual members, who will be selected from a pool of experts that will be established through a call for expressions of interest. The experts will be evaluated and selected based on their knowledge of the ROB4GREEN challenges and general experience in the evaluation of proposals (e.g., Horizon 2020, HE, FSTP programmes).

The **evaluators will perform evaluations on an individual basis**, not as representatives of their employer, or any other entity. They are required to be independent, impartial, and objective. All evaluators are providing their services under a contract, which includes a declaration of confidentiality and the absence of conflicts of interest; that might influence the impartial and objective analysis and evaluation of all submitted proposals.

6.2.1 Remote proposal evaluation

Each application will be reviewed by a minimum of two experts from the expert evaluation board. They will individually evaluate each proposal based on the criteria listed in the Table 4.

Table 4. Evaluation Criteria

#	Criteria Name	Score	Description	Threshold
1	Concept and Innovation	○ 1-2: Fail. The proposal fails to address the criterion under examination or cannot be judged due to missing or incomplete information.	○ Innovation, novelty and feasibility of the proposed application or tool. ○ Design, reliability, feasibility, and quality of the proposed application or tool or pilot. ○ Instructional challenge considered.	6/10
2	Technology implementation approach	○ 3-4: Very poor. The criterion is addressed in an unsatisfactory manner. ○ 5: Poor. There are serious inherent weaknesses. ○ 6-7: Good. While the proposal broadly addresses the criterion, there are significant weaknesses that would need correcting.	○ Analysis of the technological and implementation capacity. ○ Quality and feasibility of the work plan (including proposed milestones). ○ Connection and co-development with ROB4GREEN team. ○ Details on how the proposed components will be tested and validated. ○ Reach to other pilots to ensure exchange and pilot enrichment.	6/10
3	Impact	○ 8-9: Very Good. The proposal addresses the criterion well, although certain improvements are possible.	○ Economic and societal impact of the proposed pilot. ○ Market potential and go to market strategy. ○ European dimension, cross-border scalability. ○ Exploitation / business plan and commercialization milestones.	6/10
4	Applicant Entity/Team	○ 10: Excellent. The proposal successfully addresses all relevant aspects of the criterion in question. Any shortcomings are minor.	○ Capacity to applicant entity/team to perform the task. ○ Knowledge, technological and business expertise. ○ Financial viability/stability and capacity. ○ Commitment of the company and the team. ○ Allocation and justification of requested resources.	6/10





Each of the **two (x2) evaluators** will rate the applications for each criterion on a scale from 0 (zero) to 10 (ten), and will record his/her individual assessment using an Individual Evaluation Report (IER). The scores of each criterion will be the average of the scores of the evaluators rounded to the nearest integer.

After the individual remote evaluation, one of the experts will be assigned the role of rapporteur and will:

- For proposals with scoring difference of more than 4 points, host a consensus meeting between both experts try to agree on scores with difference less than 4 points, in which case, experts will update their IERs accordingly
- Consolidate the comments of both experts into a single coherent comment.
- Deliver the Evaluation Summary Report (ESR), which is the average of the two IERs rounded to the nearest integer.

The Rapporteur cannot change the scores of the other expert, only update the consolidated comments.

If after the consensus meeting the experts cannot agree on scores with difference less than 4 points, a third expert will be invited to score the same proposal and act as rapporteur. The score of each criterion will be the average of the scores of the three evaluators rounded to the nearest integer.

It is noted that the minimum threshold for each criterion is 6 (Six) out of 10 (Ten), while the overall threshold (sum total) is 25 (Twenty-five) out of 40 (Forty) points.

Applications that do not meet the minimum thresholds (per criteria or overall score) will be excluded from the programme.

6.2.2 Intermediate Ranking

Once all proposals, that have not been automatically rejected, have an ESR, they will be ranked per issued challenge. The criteria for the ranking of the proposals will be semi-automatic following the rules below:

- ✓ Rule 1: The proposals will be ranked based on their overall score (sum of criterion 1 to 4 scores).
- ✓ Rule 2: In case following Rule 1 there are proposals in the same position, priority will be given to proposals that their technology better fit to ROB4GREEN scope (Criterion 2).
- ✓ Rule 3: In case following Rule 2 there are proposals in the same position, priority will be given to proposals that have higher impact and market potential (Criterion 3).
- ✓ Rule 4: In case following Rule 3 there are proposals in the same position, priority will be given to the application that has a lower funding request.
- ✓ Rule 5: In case following Rule 4 there are proposals in the same position, priority will be given to the number of female researchers participating in the team.

In case following Rule 5 there are still proposals in a funding borderline position, the ROB4GREEN Open Call Management Team will invite at least 1 additional evaluator to read the specific proposals and break the tie by re-evaluating them.

6.3 Phase 3 – Online Interview

The objective of the interview is to better understand the proposal, particularly its quality and excellence, the expected impact and exploitation potential, quality of the workplan, quality of the





applicant(s), and willingness to exploit the results. Any complementary material that can support the presentation of the project is acceptable during the interview.

Only the top **sixteen (x16) proposal applications will be invited**, based on the results of the “Intermediate Ranking”.

Interviews will be carried out by the two external experts, that evaluated each proposal and have provided the corresponding original IERs, and two internal evaluators from the ROB4GREEN Consortium. Members of the ROB4GREEN team directly involved in the selected challenge that each proposal is addressing will participate in the interview and respective final evaluation process.

Interviews are expected to last approximately 30-45 min per application. The applicants are expected to prepare and present a **presentation (approximately 15 minutes)** and answer any questions regarding their proposal from the internal evaluators.

If at any time during the interview the applicants do not commit to what was included in the submitted proposal, the proposal will be automatically disqualified. If after the interview process the internal evaluators still have questions, the applicant may be requested to provide additional information in written format.

All experts, external and internal, are responsible for delivering a new ESR with scores and comments resulting from the interview that will be considered for the final ranking and selection of Phase 4. The evaluation criteria are identical as in the previous phases, as described in Table 4.

6.4 Phase 4 – Final Ranking and selection

All applications will be ranked in a single list based on their **overall score (using Phase 3’s ESR for each application)**.

Eight proposals will be selected for funding (2 per challenges, if applicable)

If multiple applications have the same overall score, the tie breaking criteria of the “Intermediate Ranking” will be reused. Refer to Section 6.2.2.

All eligible Proposals will receive:

1. an acceptance or rejection letter together with
2. an anonymised version of their Evaluation Summary Report (ESR), which will include “Remote Proposal Evaluation” results; and in the case of interview invitation, “Online Interview” results as well.

6.5 Appeals

Within five (x5) working days of receiving an ESR or a rejection letter informing that the proposal is not non-eligible, applicants may submit a request for redress if they believe the results of the eligibility checks have not been correctly applied, or if they feel that there has been a shortcoming in the way their proposal has been evaluated.

All requests for appeal must be sent to the Open Call Management Team (that includes the ROB4GREEN coordinator) to oc@rob4green-project.eu and must:

- Focus on provisional inconsistencies in their evaluation (e.g. admissibility or eligibility checks, evaluation procedure, etc), not their merits.
- Clearly describe the complaint.
- Be received within the time limit (5 working days) from the reception of a rejection letter considering the application as non-eligible or the ESR information letter delivered.





- Sent by the entities' legal representative that has also submitted the application.

In that case, the Open Call Management Team will examine the request for appeal. The committee will review the complaint and will recommend an appropriate course of action. If there is clear evidence of a shortcoming that could affect the eventual funding decision, it is possible that all or part of the proposal will be re-evaluated.

Important Note: The evaluation is carried out by highly qualified experts. ROB4GREEN will neither question nor interfere with their original evaluation. Mere repetitions of the content of the application or disagreements with the result or reasoning of the technical evaluation will not be considered.





7 WHAT HAPPENS AFTER SELECTION?

After the Open Call evaluation conclusion and project selection, the ROB4GREEN coordinator will start the contract preparation in collaboration with the selected proposals' coordinators. Contract preparation will go via administrative and financial checking (and potentially into technical or ethical/security negotiations) based on evaluators' comments. On a case-by-case approach, a phone call(s) or teleconference(s) may be needed for clarification.

The steps of this phase are summarized hereunder, whereas more details can be found in Table 5:

1. Inclusion of comments (if any) provided in the Evaluation Summary Report of the proposals as part of the sub-grant agreement (contract) (Annex 7).
2. Validation of the entities based on the provision of the following documentation:
 - ✓ Formal proof of the entity's legal existence and tax activity.
 - ✓ Proof of the SME status, including the SME Declaration Form (Annex 5).
 - ✓ Declaration of Honour, for all participating entities, signed by the legal representative of the entity (Annex 5).
 - ✓ Consortium Declaration of Honour, signed by the legal representative of each consortium partner (Annex 5).
 - ✓ Bank Account Information (Annex 8).
3. Signing of the sub-grant agreement (Annex 7) between ROB4GREEN Consortium represented by its Coordinator PANEPISTIMIO PATRON (LMS), and the Beneficiaries.

Table 5. Requirements for contract preparation

Legal requirement	Description
Proof of legal existence	Company register, official journal or other official document per country showing the name of the organisation, the legal address and registration number and a copy of a document proving VAT registration (in case the VAT number does not show on the registration extract or its equivalent).
<u>Specific to SMEs</u>	
1. Proof of the SME condition is required: ○ SME Declaration (Annex 6) signed (with a valid e-signature or by hand) and stamped: In the event the beneficiary declares being non-autonomous, the balance sheet and profit and loss account (with annexes) for the last period for upstream and downstream organisations is required. ○ Status Information Form, which includes the headcount (AWU), balance, profit & loss accounts of the latest closed financial year and the relation, upstream and downstream, of any linked or partner company. 2. Supporting documents: • In cases where either the number of employees or the ownership is not clearly identified: any other supporting documents which demonstrate headcount and ownership such as payroll details, annual reports, national regional, association records, etc.	
Consortium Declaration of Honour (Annex 5)	Signed declaration that all conditions related to the ROB4GREEN Open Call 1 are accepted by the applying entities.



Declaration of Financial Stability (Annex 5)	The lead partner in a consortium should ensure that the consortium members have the necessary financial capacity to implement the activities assigned to them based on the sub-grant agreement. By signing this declaration, the lead partner assumes responsibility for the financial implementation of the proposal. This declaration is within Annex 5.
Sub-grant agreement (Annex 7)	Signed between the ROB4GREEN consortium, represented by its coordinator (UNIVERSITY OF PATRAS, LMS), and the beneficiary. The sub-grant agreement will also include the comments (if any) of the proposal's ESR to the work plan. The account where the funds will be transferred will be indicated via a specific form signed by the entity, individuals, and the bank owners. The holder of the account will be the entity/ individual.

Relevant Notes:

- A **valid VAT identification number for each entity is mandatory**. Failure to provide the VAT¹⁰ number will automatically result in proposal rejection.
- The sub-project document preparation should be **concluded within two (x2) weeks**, starting by the invitation date. An additional week may be provided by the ROB4GREEN coordinator in case of significant reasoning.
- The Sub-grant Agreement (Annex 7) is definitive; its **terms and conditions are non-negotiable and cannot be altered**.
- The **Sub-grant Agreement shall be executed and signed in physical format**. Each beneficiary is required to sign the designated fields of the contract. Multiple original hard copies will be produced to ensure that the Beneficiary, the ROB4GREEN Coordinator, and the relevant Pilot Leader each retain a copy, with additional backup copies archived by the Coordinator and pilot leader.
- **Failure to conclude the contracting phase within the established timeframe will result in the rejection of the application**. In such an event, the ROB4GREEN consortium will invite the next highest-ranked project from the reserve list to initiate the contracting process.
- The consortium leader and the other consortium partners are responsible to make an agreement that shall cover the rights and obligations between them.

¹⁰ To be checked at European Commission services such as http://ec.europa.eu/taxation_customs/vies/





8 WHAT ELSE IS IMPORTANT TO KNOW?

8.1 Intellectual Property Rights (IPR)

When participating in the ROB4GREEN project, successful applicants will enter a co-creation process with the current partners of the ROB4GREEN consortium. In the case where the applicant produces a software, data, know-how or information independently on any other partner, the applicant will remain the sole owners of their respective IPR. In case of co-creation with multiple partners, an IPR co-creation is applied where generation IPR will be established through the joint efforts of multiple parties. Any commercial exploitation beyond the project is the responsibility of the beneficiaries.

Each Beneficiary shall bear sole responsibility for ensuring that its acts within the project do not knowingly infringe third party property rights. Therefore, there is no obligation to conduct research with regard to the property rights of third parties.

In the Sub-grant Agreement (Contract) (Annex 7), applicants shall identify their Background for the Project and should also, where relevant, inform the ROB4GREEN consortium that access to specific Background is subject to legal restrictions or limits.

During implementation, access rights to results of the project and Background needed for the performance of the own work of a party under the project shall be granted on a royalty-free basis, unless otherwise agreed for Background in the Sub-grant Agreement (Contract) (Annex 7).

For the exploitation, access rights to results if needed for exploitation of a party's own results shall be granted on fair and reasonable conditions and upon prior written agreement. Access rights to results for internal research and for teaching activities shall be granted on a royalty-free basis.

Regarding the evaluation and the review processes, each evaluator will sign an Agreement including confidentiality clauses before receiving access to the applications database to protect the applicants' intellectual property and sensitive non-disclosed information.

The ROB4GREEN Consortium itself will not retain an equity stake in any applicant's company, nor will it retain any IPR. However, the ROB4GREEN Consortium will be granted the right to make internal use of any IPR applicants produce as part of their ROB4GREEN Open Call activities.

ROB4GREEN and the European Commission may ask participants who have received funding to present their work as part of public relations and networking events to showcase the benefits of the ROB4GREEN project. This preconditions prior agreement regarding sensitive content.

8.2 On conflicts of interest

Applicants must not have any actual and/or potential conflict of interest with the ROB4GREEN selection process and during the project implementation. All cases of conflict of interest will be assessed case by case. Refer to section 4.2.4 for more details.

8.3 Ethical issues

ROB4GREEN complies with the fundamental ethical issues particularly those outlined in the "European Code of Conduct for Research Integrity".

- All applicants must submit a self-assessment ethics questionnaire, available in the Proposal Template
- If the applicant confirms the existence of potential ethical issues, they must contact the ROB4GREEN Open Call Management Team for guidance, as required.



- The ROB4GREEN will verify the declaration's consistency with the application contents and may contact applicants to resolve any ethical issues.
- Applications that fail to properly address ethical issues or inadequately deal with privacy aspects will be rejected.

8.4 Data protection

In order to process and evaluate applications, and manage project implementation, the ROB4GREEN consortium will need to collect Personal and Industrial Data.

- F6S Network Ireland Limited, will act as Data Controller for data submitted through the F6S platform for these purposes. Please see our privacy policy [here](#).
- A Data Protection Officer (DPO) has been appointed by F6S generally, to ensure compliance with data protection regulations, such as the General Data Protection Regulation (GDPR), and that personal data is collected, processed, and stored in a secure manner.
- The F6S platform's system design and operational procedures ensure that data is managed in compliance with the General Data Protection Regulation (EU) 2016/679 (GDPR).
- Each applicant will accept the F6S terms to ensure compliance. Please refer to <https://www.f6s.com/privacy-policy> to review the F6S platform's privacy policy and data security policy.
- Apart from the F6S platform, data will also be stored in the F6S Google Drive, and in the project repository on "ROB4GREEN_Open Call repository" SharePoint managed by the project coordinator LMS.
- Note that the ROB4GREEN consortium must retain generated data until five years after the balance of the ROB4GREEN project is paid or longer if there are ongoing procedures (such as audits, investigations or litigation). In this case, the data must be kept until their conclusion.
- Applicants list: A full list of applicants containing their basic information will be created for statistical and transparency purposes and shared with the European Commission.

The following sub-sections outlines obligations and practices within ROB4GREEN.

8.4.1 Data security

- Encryption of sensitive data
- Multi-factor authentication for access to ROB4GREEN systems.
- Role-based access control to limit data access to authorized personnel.
- Regular security audits and vulnerability assessments.
- Activity monitoring to detect and respond to suspicious behaviour.

8.4.2 Data integrity

- Data validation and verification processes.
- Regular data backups and recovery procedures.
- Version control for datasets and software components.

8.4.3 Data Privacy

- Obtaining informed consent from individuals before collecting their personal data.
- Minimizing the collection of personal data to what is strictly necessary for the project's objectives.
- Implementing data anonymization and pseudonymization techniques
- Establishing clear data retention policies.



- In general, alignment with EU GDPR.

For the 3rd parties, the following security and privacy rules must be followed:

- Assure full compliance to the GDPR and other applicable data protection laws.
- Use suitable data anonymization and pseudonymization techniques to safeguard individual privacy.
- Perform thorough risk assessments for all new components and use cases.
- Clearly and openly demonstrate to users how their data is gathered, utilized, and protected.

8.5 Confidentiality

Selected applicants are required to maintain confidential any project data, documents, invoices and other materials (in any form) during the implementation of the activities and for 5 years after project completion.

Relevant notes:

- This confidentiality period can be extended by agreement with the EC and the ROB4GREEN consortium. This needs to be explicitly stated in the Sub-Grant Agreement.
- Information shared during the project, whether written or spoken, is only considered confidential if the ROB4GREEN agrees and confirms it in writing within 15 days.
- Confidential information must only be used for project implementation, unless otherwise agreed upon.
- The selected applicants may disclose confidential information to the ROB4GREEN consortium and to the selected reviewers, who will be bound by a specific Non-Disclosure Agreement.
- Any information shared during the application stage will be treated as confidential.

8.6 Promotion of the action and ensuring visibility of the EU funding

The selected Beneficiaries must promote the programme activities, the ROB4GREEN project and its results, by providing targeted information to multiple audiences (including the media and the public) in a strategic and effective manner and to highlight the financial support of the EC. The ROB4GREEN Communication team will guide and support these communication activities to selected beneficiaries.

Any publicity made by selected third-party in respect of the project, in whatever form and on or by whatever medium, must specify that it reflects only the author's views, and that the EC ROB4GREEN project is not liable for any use that may be made of the information contained therein.

The EC and the ROB4GREEN Consortium shall be authorised to publish, in whatever form and on or by whatever medium, the following information:

- the name of the organizations of the selected project members.
- contact address of the selected project partners.
- the general purpose of the project.
- the amount of the financial contribution foreseen for the project; after the final payment, and the amount of the financial contribution received.
- the geographic location of the activities carried out.
- the list of dissemination activities and/or of a patent (applications) relating to the foreground.
- the details/references and the abstracts of scientific publications relating to the foreground and, if funded within ROB4GREEN project, the published version or the final manuscript accepted for publication.
- the publishable reports submitted to ROB4GREEN.
- any picture or any audio-visual or web material provided to the ROB4GREEN in the framework of the project.



8.7 Checks and reviews by European Commission

The EC may, at any time during the implementation of the sub-project and up to five years after the end of the sub-project, arrange for a check and review activity to be carried out, by external auditors, or by the EC services themselves, including the European Anti-Fraud office (OLAF). The procedure shall be deemed to be initiated on the date of receipt of the relevant letter sent by the EC.

Beneficiaries are not required to report actual costs but must achieve the agreed results linked to the lump-sum milestones. There will be no financial checks, reviews, or audits to check costs, since beneficiaries have no obligation to document the costs incurred for the action. Checks, reviews, and audits will focus on the technical implementation of the action.

8.8 Financial support

For accessing the funding, the third-party projects deployment needs to demonstrate and present proofs of their progress and achievements and the deliverables presented must be assessed positively in each of the stages. In case of missing the above, the costs are rejected, and third parties must return the pre-financing or they are not receiving the final payment. Eitherway, the beneficiaries are requested to terminate their activities as they are not participating longer in the ROB4GREEN project.

More information on the applied funding conditions can be found in Section 3.5. in detail:

- Eligible cost categories -> section 3.5.2
- Payment schedule and conditions -> section 3.5.3 and Figure 2

8.9 Further support provided within ROB4GREEN Assistance Programme

Each selected project will be supported by a dedicated ROB4GREEN Mentoring Team, ensuring that External Pilots maximize the potential of ROB4GREEN digital tools while effectively implementing their solutions. The mentoring team includes, **Innovation Mentor (IME)**, **SSH Mentor (SSM)**, **Industry Mentor (IND)**. To ensure fair and objective assessment, an Internal Evaluator Board (IEB) will independently evaluate project progress, offering valuable feedback while remaining uninvolved in day-to-day activities. More information for the mentoring team can be found in Annex 2.

9 RELEVANT OPEN CALL DEFINITIONS

Table 6 summarises the definition of useful terms that can be found throughout this document and the OC1 Annexes.

Table 6. Useful terms

Term	Definition
Applicant(s)	The legal entity or group of legal entities that intend(s) to submit or that submitted an application to the Open Call.
Application Eligibility Criteria	Criteria used to assess if an application can be considered for the open call. Possible values (Yes/No).
Application Eligible or Non-Eligible	Application that is or is not compliant with eligibility criteria.



Term	Definition
Application Timestamp	Timestamp of the final submission of an application. If the application is reopened and resubmitted the last date will be considered.
Bank Account Information	Form where the beneficiary provides information of the bank account to which payments will be made during the project implementation.
Beneficiary or 3rd Party	An entity or a consortium that submitted an application to the open call that was accepted to be funded, and have signed, or are in the process of signing, a sub-grant agreement.
Consortium	Set of legal entities that are cumulatively responsible to implement the project as defined in the Grant Agreement signed with the European Commission.
Consortium Declaration of Honour	Declaration where the applicants/ beneficiaries, participating as a consortium, declare they accept all conditions of the open call, acceleration process & programme; and agree - if applicable - on budget share. One CDoH is required for each sub-granted project.
Contract Deadline	Date and time until when the selected entities need to provide contractual information.
Declaration of Honour (DoH)	Declaration where the applicant/ beneficiary declares they accept all conditions of the open call, acceleration process & programme. One DoH is required for each applicant/ beneficiary.
External Evaluator	Expert hired by the consortium to assist in the evaluation of the Open Call. External evaluators cannot have conflicts of interest and are bound by a confidentiality agreement.
F6S Application Form	Application form available in F6S Platform.
F6S Platform	Platform provided by F6S.
FSTP	Financial support to third parties. Payments made to entities that are not members of the consortium.
FSTP – Lump Sum	Payment made to the third party based on the achievement of a milestone.
Internal evaluation committee	Group of appropriately qualified persons of the consortium partners that are assigned the responsibility of performing evaluations or reviews at any stage of the open call implementation or programme.
Mentor	Person from the consortium that works closely with the beneficiary to foster communication with the consortium and assess progress of the project. The mentor may be part of an evaluation committee.
Open Call	Competitive process to access a Programme.
Open Call and Programme deadlines	The project has planned the programme carefully, but unexpected things can happen. The application deadline is fixed, and will only change if something unforeseen occurs. Other dates, including of the programme, are flexible and may be adjusted as needed, and communicated to all applicants.
Open Call close date	Date and time when applications close.





Term	Definition
Open Call selection prioritisation	Rules used to order applications.
Proof of Bank Account Information	The account where the funds will be transferred will be indicated via a specific form signed by the entity, individuals, and the bank owners. The holder of the account will be the entity/ individual. Provided using Annex 8.
Proof of Legal Existence	Company/ organisation register, official journal or other official document per country showing the name of the organisation, the legal address and registration number and a copy of a document proving VAT registration (in case the VAT number does not show on the registration extract or its equivalent).
Proof of SME Status	Proof of the SME condition is required: • If the applicant has been fully validated as an SME on the Beneficiary Register of the EC Participant Portal, the PIC number must be provided. • Provision of the signed (with a valid e-signature) SME Declaration (Annex 6): in the event the beneficiary declares being non-autonomous, the balance sheet and profit and loss account (with annexes) for the last period for upstream and downstream organisations is required. A Status Information Form may be requested, which includes the headcount (AWU), balance, profit & loss accounts of the latest closed financial year and the relation, upstream and downstream, of any linked or partner company. • Supporting documents: In cases where either the number of employees or the ownership is not clearly identified: any other supporting documents which demonstrate headcount and ownership such as payroll details, annual reports, national regional, association records, etc.
Reserve List	Eligible applications that were not selected for funding which can be invited in case selected applications do not provide contractual data.
Schedule for payments to Beneficiaries	All payments to beneficiaries are dependent on the successful review of deliverables/ reports at the end of each sprint/ stage/ phase, and reception by the consortium of the corresponding payment request. All payments will be made with undue delay preferably no later than 30 calendar days after the reception of the financial statement.
Score, Per Committee	When the evaluation is made by a committee, the average score of each criterion is rounded to the nearest point or half point (1, 1.5, 2, ..., 9, 9.5, 10), before computing the overall score. Overall score is the sum of the scores of each criterion multiplied by the respective weight, rounded to the nearest integer value.
Selected application	Application that was selected to participate in the Open Call Implementation.



Term	Definition
SME	An incorporated enterprise that complies with the rules defined by the European Commission to be qualified as an SME ¹¹
SME – Autonomous Enterprise	An autonomous enterprise is not a partner with or linked to another enterprise
SME – Linked Enterprise	Linked enterprises are those that form a group through the direct or indirect control of the majority of voting rights of an enterprise by another or through the ability to exercise a dominant influence on an enterprise.
SME – Partner Enterprise	The enterprise holds a minimum of 25% (Capital or voting rights in another enterprise, or 25% (Capital or voting rights) are owned by another enterprise.
SME Declaration Form	Declaration where the SME status is assessed.
Sub-grant Agreement	Signed between the Project Consortium, represented by its Coordinator and the beneficiary. The sub-grant agreement will also include the comments (if any) of the application's ESR to the work plan.

10 USEFUL CONTACTS AND LINKS

Applicants may find support by the ROB4GREEN consortium via the following contacts and links:

- F6S Online Q&A: <https://www.f6s.com/rob4green-open-call-1/discuss/>
- Contact e-mail, and Open Call Management Team: oc@rob4green-project.eu
- Contact e-mail for submission platform (technical support, resubmission or issues): support@f6s.com
- Open Call 1 Documents: <https://rob4green-project.eu/open-calls/>
- OC information: <https://rob4green-project.eu/open-calls/>
- Submission platform: <https://www.f6s.com/rob4green-open-call-1/apply/>

¹¹ https://single-market-economy.ec.europa.eu/smes/sme-fundamentals/sme-definition_en





Robotics and AI as Enablers for Greener Dismantling, Remanufacturing and Recycling -ROB4GREEN-

**HORIZON-CL4-2024-DIGITAL-EMERGING-01-04 – Industrial leadership in AI, Data and Robotics
boosting competitiveness and the green transition (AI Data and Robotics Partnership) (IA)**

Grant Agreement No. 101189665

Annex 2: ROB4GREEN Technical Description

(Co-)Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Commission. Neither the European Union nor the granting authority can be held responsible for them.



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1 INTRODUCTION

This guide presents the **challenges of the Open Call** and elaborates on the ROB4GREEN functionalities that can be provided to the applicants to enhance the capabilities of their solutions. The guide provides material and technical details to take into consideration while preparing your proposal for the ROB4GREEN 1st Open Call.

More specifically, you can find:

- a. the objectives of the ROB4GREEN project (refer to Section 2),
- b. the technologies that fit the call and must be delivered through the **proposed challenges (refer to Section 3)**,
- c. an overview of the ROB4GREEN architecture and the technology **blocks that will be available for use** during the FSTP project period (**refer to Section 4**).

For more information regarding the structure of the open call, evaluation criteria, contact, etc. refer to Guide for Applicants.

2 ROB4GREEN PROJECT

2.1 Project overview and core mission

ROB4GREEN is an EU-funded project under the Horizon Europe Programme that aims to bridge the current gap between labor-intensive Re-X processing and automated circularity. By developing easy-to-use, collaborative, and AI-driven robotic systems, the project enables industries to reason and adapt to key “R-strategies” for processing products after their first life. More specifically, ROB4GREEN addresses gaps that currently limit the wider adoption of flexible robotics in the circular economy, including limited cognitive intelligence, insufficient perception of product states, and restricted decision-making at the value-chain level.

To overcome these, ROB4GREEN focuses on the development, deployment and validation of:

- Cognitive and intelligent mechatronics for automating advanced manufacturing processes: Development and enhancement of mechatronic systems, including robots and specialized tooling, to enable autonomy through advanced perception, reasoning, and cognitive capabilities. These advancements allow systems to “understand” product conditions and material compositions in real time.
- AI-based robot programming, continuous learning, and decision-making: Development of AI-driven modules and interfaces to facilitate efficient interaction and decision-making between various robot types and human operators within the high-variability contexts of the foreseen applications.
- Multi-level optimization of Re-X processes and systems: Creation of an integrated, modular architecture for information exchange, analysis, and AI-driven decision-making. This involves scaling optimizations from the individual robotic “cell” level up to the entire value chain, ensuring that lifecycle data is utilized to enhance circular decision-making.

ROB4GREEN technologies, methodologies, and integrated frameworks will be tested and validated in three pilots from the energy infrastructure, automotive, and electronics industries. These pilots target key R-strategies for infrastructure decommissioning and material recycling (wind blade composites), remanufacturing (tire retreading), and the harvesting of high-value components (PCBA components), respectively. To maximize impact on the European economy and validate the rapid technology deployment of the project’s solutions, ROB4GREEN incorporates a Financial Support to Third Parties (FSTP) program. With a total budget of €4 million, this program will allow the verification of: a) the project’s framework in additional real-world scenarios (external pilots), and b) the interoperability of the ROB4GREEN architecture by attracting external RTOs for the co-development of solutions for the project’s pilot cases.





2.2 Meet the consortium



LMS is a leading European laboratory, specializing on industrial and collaborative robots, HRI, task planning for autonomous HRC, development of Service Oriented Architectures at the shop floor etc. LMS has proven experience in coordination, technical contribution and management of EU-funded projects (Project coordinator: THOMAS, SHERLOCK, ODIN, CONVERGING, JARVIS, Node leader in AI Testing and Experimentation Facilities of AI-MATTERS, Project manager in X-act and ROBO-PARTNER). LMS is the coordinator of the ROB4GREEN project, leading user-centric design for Human-Robot Interaction, Robot behavior adaptation to human needs and social interaction, and learning of social skills for the robots by observation.



TNO, as an independent and pioneering applied science and technology organisation, is the innovation engine of The Netherlands. Our mission is to create impactful innovations for the sustainable wellbeing and prosperity of society. We innovate, investigate, and orchestrate, collaborating closely with governments, universities and the private sector. By building national and international consortia and ecosystems, we drive technological and methodological breakthroughs that help to realise a secure, sustainable, healthy, and digital society.



TECNALIA is the largest centre of applied research and technological development in Spain, a benchmark in Europe and a member of the Basque Research and Technology Alliance. We collaborate with companies and institutions to improve their competitiveness, people's quality of life and achieve sustainable growth. We do it thanks to a team of more than 1,500 people (44% women – 56% men) who are passionate about technology and committed to building a better society. Our main scopes of action are: smart manufacturing, digital transformation, energy transition, sustainable mobility, health and food, urban ecosystem and circular economy. Our mission is to transform technological research into prosperity; TECNALIA's research has a real impact on society and generates benefits in the form of quality of life and progress. And we work with the purpose of building a better world through technological research and innovation.



Flanders Make is the strategic research centre for the manufacturing industry. From our sites all over Flanders, we stimulate open innovation through excellent research. In addition, companies can work together with us in a custom innovation trajectory. Finally, we also offer an extensive range of testing and validation infrastructure for your products or production. Our goal is to contribute to the technological development of the vehicles, machines and factories of the future. Flanders Make has been an active contributor to EU R&D projects since FP7 with a total grant amount of almost 100M EUR and currently has more than 70 running EU projects.



COMAU is a worldwide leader in manufacturing flexible, automatic systems and integrating products, processes and services. Headquartered in Turin, Italy, with an international network that spans 17 countries that employ more than 4,000 employees, Comau uses the latest technology and processes to deliver advanced turnkey systems



that consistently exceed the expectations of its customers. Comau specializes in body joining & assembly, powertrain machining & assembly, robotics, and maintenance, as well as advanced production systems and environmental services for a wide range of industrial sectors. In particular, the unit of Robotics and Automation Products is mainly focused on the development and commercialization of robotics solutions and products for a very wide range of applications and processes. The product portfolio includes a large family of anthropomorphic robots, AGV, robots and exoskeletons.

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Netcompany-Intrasoft is a leading European IT Solutions and Services Group headquartered in Luxembourg (2b rue Nicolas Bové, L-1253 Luxembourg). It employs 3,200+ highly skilled professionals from 50+ nationalities, speaking 30+ languages. The company operates through branches, subsidiaries, and offices in 10 countries: Belgium, Cyprus, Greece, Jordan, Luxembourg, Romania, RSA, Scandinavia, UAE, and USA. Netcompany-Intrasoft serves 500+ organizations across 70+ countries, spanning EU institutions and agencies, national governments, public agencies, financial institutions, telecom organizations, and private enterprises. Its strength is delivering complex, mission-critical projects, combining strong technical expertise with deep understanding of customer business needs, supported by a skilled, flexible, internationally minded workforce.



TEACHING FACTORY COMPETENCE CENTER (TF CC) mission is to create added value for the services and products of manufacturing companies, through innovative technologies and research activities. TF CC is involved in a number of research projects funded by the industry as well as by the CEU. It has been established through the collaboration of universities and several large industrial companies and SMEs in Greece.



F6S is a global network that helps founders and startups grow. It supports public and private entities in promoting and communicating research and innovation projects. F6S connects startups with resources like grants, funding, investment, partnerships, and talent. Their tools help solve social, economic, environmental, and sustainability challenges. F6S collaborates with various organizations in the global startup ecosystem, including governments, corporations, investors, and universities.



Acciona specializes in developing regenerative infrastructure to promote people's well-being and protect the planet. It offers comprehensive solutions in waste management, with expertise in recycling composite materials and manufacturing both recycled and non-recycled components, particularly for the construction and wind energy sectors. Present in over 40 countries, Acciona drives innovation and digital transformation to improve performance, productivity, and sustainability, contributing to a zero-emission world.



MICHELIN is building a world-leading manufacturer of life-changing composites and experiences. Pioneering engineered materials for more than 130 years, Michelin is uniquely positioned to make decisive contributions to human progress and to a more sustainable world. Drawing on its deep know-how in polymer composites, Michelin is





constantly innovating to manufacture high-quality tires and components for critical applications in demanding fields as varied as mobility, construction, aeronautics, low-carbon energies, and healthcare. As specialist in multi-life tires for over a century, Michelin has been innovating to improve the mobility of heavy vehicles by offering high-performance tires and services tailored to the needs of its customers. In 1923, Michelin introduced tire retreading, allowing the reuse of tire carcasses. An innovation that remains more than ever relevant today.



VALEO is an automotive Tier 1 supplying all automakers worldwide, enjoying technological and industrial leadership in electrification, driving assistance, interior experience and light. 2023 Sales were at € 22 B and headcount at 110 000, all over the world.

Since 2022, Valeo has its “Circular Electronics Lab” in Nevers: in collaboration with car manufacturers and new mobility fleet operators, Valeo was able to launch a range of remanufactured electronics components, using much fewer natural resources compared to a new part.

3 ROB4GREEN OPEN CALL #1 CHALLENGES

3.1 Requirements applying to all of the four ROB4GREEN challenges

- a. **Existing Pre-Conditions:** the applicants should justify their ability to deploy the solution on-site for testing or their ability to create a relevant testbed. In cases where relevant, the applicants must provide their own robot(s).
- b. **Prototypes:** must be designed to operate effectively in the potentially challenging conditions set by the selected use case (e.g., human presence, harsh environments, etc.).
- c. **Use of open source:** applicants are encouraged to use open-source technologies where feasible to accelerate development, reduce costs, and ensure interoperability by following the corresponding permissions of use.
- d. **Security, privacy and safety:** should be taken into account to minimize risks to users both in terms of physical harm and in terms of digital privacy and security.
- e. **User studies:** where relevant, these studies should be conducted to evaluate operators' acceptance of the proposed solutions. Where not relevant, the case should be properly discussed and motivated.
- f. **Business case benefit/cost performance:** should emphasize the added value of the proposed solution and fit for market and European Economy.

3.2 ROB4GREEN challenges

The first round of ROB4GREEN Open Calls involves four **distinct challenges**. As depicted in Figure 1, each one corresponds to a different hierarchy level of the circular economy's “butterfly diagram”, aiming to address barriers that hinder its uptake in Europe.

Every application **must be assigned to one specific challenge** (e.g., *Challenge #1: AI, Data and Robotics for Life Extension*). This selection must be justified by explaining its relevance to at least one of the corresponding focus areas of that challenge (e.g., “*Inspection and Condition Checking*” and/or “*Repairing*”).

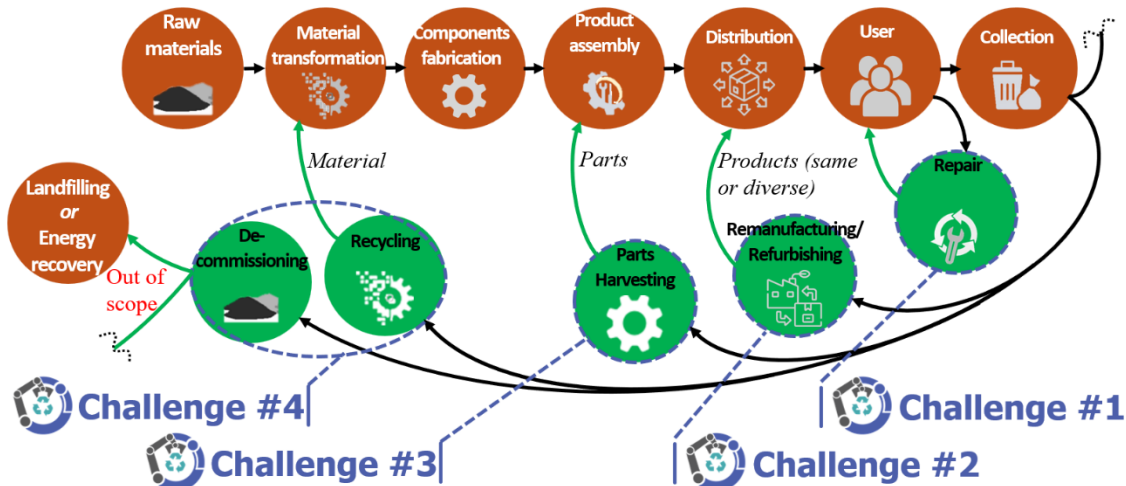


Figure 1. Simplified circular economy butterfly diagram and positioning of the ROB4GREEN Open Call Round #1 challenges

An alternative representation, based on the 9R framework depicted in Figure 2, showcases the aim of ROB4GREEN for generating impact through its first round of Open Calls in R-strategies. In summary, the applicants are challenged to provide AI, Data and Robotics solutions for:

- ✓ **Challenge #1: AI, Data and Robotics for Life Extension**
 - R4 Repair
- ✓ **Challenge #2: AI, Data and Robotics for Value Retention**
 - R5 Refurbish
 - R6 Remanufacturing
 - R7 Repurposing
- ✓ **Challenge #3: AI, Data and Robotics for Parts Harvesting**
 - Mass part harvesting for supplying conventional assemblies, or R(4 to 7) strategies
- ✓ **Challenge #4: AI, Data and Robotics for Decommissioning and Recycling**
 - Decommissioning and material sorting techniques for supporting R8 Recycle

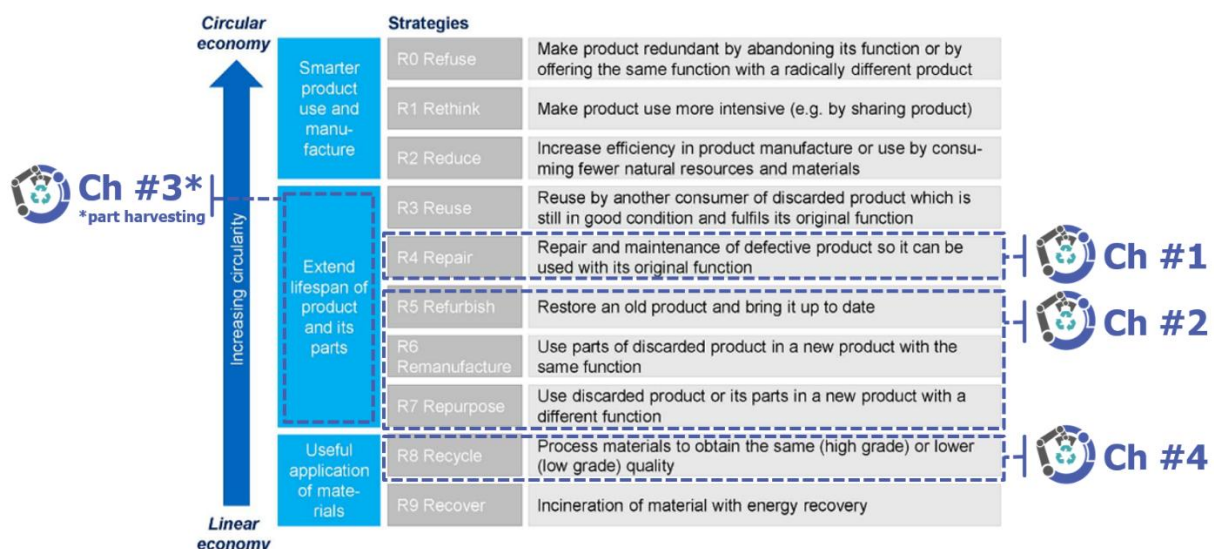


Figure 2. 9R Frameworks suggested by the PBL Netherlands Environmental Assessment Agency (2017), source: CE Grow circular



Challenge #1: AI, Data and Robotics for Life Extension

Positioning & Strategic Context: Within the hierarchy of circular economy strategies, Life Extension is positioned as the most resource-efficient strategy. It focuses on maintaining a product in its original use phase for the maximum possible duration, thereby preventing it from becoming waste or entering energy-intensive recycling streams prematurely. The strategic goal is to return a used product to its original user or market without altering its core purpose, functionalities, or technical attributes, effectively "resetting" its operational clock while preserving the energy and materials already embedded in it. Under this challenge, there are two priority areas for development which represent the functional requirements needed to bridge the current gap between manual labor and automated circularity:

- a. **Inspection and Condition Checking:** As part of the life extension cycle, the "Diagnostic" phase serves as the critical entry point for keeping high-value products in their primary use cycle for as long as possible. The core objective is to utilize **high-precision inspection, metrology and diagnostic tools** to identify both visible aesthetic defects and/or internal operational wear. This process is governed by the requirement to achieve a "Verified Condition Profile" -an objective, data-driven assessment of component wear and structural integrity that provides the necessary justification for the decision to extend a product's life.
- b. **R4 - Repairing:** As part of the life extension cycle, the "Corrective" phase represents the physical intervention stage aimed at restoring a product's operational integrity and original function. The core objective is to perform high-precision **physical interventions using robots**, ranging from the **targeted replacement of defective sub-components to the specialized processing of materials to reverse degradation**. This phase is governed by the requirement that all actions must ensure the product retains its original safety specifications and performance warranties, effectively making the repaired version indistinguishable from a new unit in terms of reliability and long-term functional performance.

The proposed solutions should improve productivity and operators' wellbeing besides throughput for product life extension while reducing costs and reliance from operator expertise. In this direction, applicants should propose solutions for:

- i. **at least two (x2) of the following "Inspection and Condition Checking" areas:**
 - *High-Precision Automated Metrology:* Development of robotic-integrated sensing systems (e.g., laser scanning, 1D/2D/3D metrology) capable of capturing sub-millimeter defects on complex surfaces.
 - *Multispectral & NDT Diagnostics:* Integration of Non-Destructive Testing (NDT) such as X-ray, ultrasound, or multispectral imaging to identify internal structural wear, cracks, or fatigue without disassembling the product.
 - *Cognitive AI for Defect Classification:* AI models that go beyond simple detection to classify defects by severity and type, utilizing "Digital Product Passport" (DPP) data to compare the current state against original manufacturing specs.
 - *Digital Twin-Based Condition Assessment:* Real-time synchronization between physical inspection data and a Digital Twin to visualize wear patterns and simulate "Residual Useful Life" (RUL).
- ii. **at least two (x2) of the following "repairing" areas:**
 - *Adaptive Robotized Processing:* Robotic systems that can automatically compute and adjust tool paths (for sanding, cleaning, or coating) based on the unique geometry of the damage detected in the diagnostic phase.
 - *AI-Driven Decision Support for Repair:* Reasoning engines that analyze inspection data to propose the most efficient repair strategy (e.g., "patch vs. replace") based on cost, material savings, and energy footprint.





- *Robotized Automation of Interventions: Flexible* robotic cells capable of performing complex corrective actions, such as the high-precision replacement of sub-components or delicate material removal.
- *Additive and Hybrid Manufacturing Tools:* Use of robotic additive manufacturing (3D printing) or laser cladding to restore material loss or rebuild worn-out features directly on the original component.
- *Intelligent Operator Support & HMIs:* Advanced Human-Machine Interfaces (HMIs) or Augmented Reality (AR) tools that guide operators through collaborative repair tasks, allowing the system to benefit from human dexterity while the robot handles precision and force.
- *Autonomous Interventional Logic:* Development of "skills-based" robotic behaviors where the system understands the *goal* of the repair (e.g., "close this crack") and autonomously selects the appropriate tools and movements.

Challenge #2: AI, Data and Robotics for Value Retention

Positioning & Strategic Context: Within the hierarchy of circular economy strategies (the "Butterfly Diagram"), Value Retention through Refurbishing and Remanufacturing represents a critical bridge between first-life usage and high-value second-life cycles. Unlike simple repair, this strategy involves industrial-scale processes aimed at capturing the maximum residual value of a product by updating its state or restoring it to a condition that meets or exceeds its original performance specifications. This product will attract new customers from the same or alternative sectors (repurposing). The strategic goal is to decouple economic growth from the consumption of virgin raw materials by transforming "cores" (used products) into high-quality assets that can be reintroduced to the market with full functional warranties.

Under this challenge, there are two priority areas for development which represent the functional requirements needed to bridge the current gap between manual labor and automated circularity:

- R5 - Refurbishing:** This area focuses on improving or updating a product, often involving aesthetic restoration and minor technical upgrades to align with current market standards or user expectations.
- R6 – Remanufacturing & R7 Repurposing:** This represents a high-level industrial process where a used product is systematically restored to an "as-new" condition. This involves standardized industrial steps, disassembly, cleaning, testing, and reassembly, to ensure the final product is functionally indistinguishable from a new one. A subset of activities corresponds to the repurposing of products where the product emerges with enhanced specifications (e.g., facelift, upgrading of sensors or electronics) or different ones (e.g., automotive battery pack repurposing for civil energy storage).

The proposed solutions should **enable flexible, AI-driven robotic automation** that can handle the high variability of incoming used products while maintaining industrial-grade quality and safety. Applicants must propose solutions for:

- at least two (x2) of the following "Refurbishing and Remanufacturing Management" areas:**
 - *DPP-Enabled Lifecycle Tracking:* Integration of Digital Product Passports (DPP) and Asset Administration Shells (AAS) to access historical maintenance data and track remanufacturing steps, ensuring full traceability of the "second-life" asset.
 - *Autonomous Multi-Criteria Sorting:* AI-driven systems that evaluate used products based on age, residual lifetime, and condition to automatically decide the optimal value-retention route (e.g., refurbish vs. remanufacture vs. recycle).
 - *Standardized Quality Verification AI:* Development of automated testing protocols and AI reasoning that can certify that a remanufactured part meets original safety and performance standards.



- *Reconfigurable Process Planning*: AI engines capable of generating dynamic assembly/disassembly sequences based on the specific version and state of the product "core" being processed.

ii. at least two (x2) of the following "robotized re-X processing" areas:

- *Flexible Robotic Cleaning and Stripping*: Autonomous robotic systems (e.g., using dry ice, lasers, or chemicals) that can adapt to different product geometries to remove contaminants without damaging the base material.
- *Skill-Based Robotic Reassembly*: Collaborative robots equipped with flexible grippers and force-feedback that can perform precision assembly tasks, accommodating for minor variations or wear in reused components.
- *Automated Aesthetic Restoration*: AI-controlled finishing systems (e.g., painting, polishing, or coating) that detect surface imperfections and apply tailored treatments via robot(s) to restore a product's "as-new" appearance.
- *Human-Robot Collaborative Refurbishing*: HMIs and AR-assisted workstations where robots handle heavy lifting or repetitive tasks, while operators perform high-dexterity updates.
- *Automated Functional Upgrading*: Robotic cells designed to swap out obsolete electronic modules (e.g., sensors or controllers) with modern equivalents to increase the technical value of the product.

Challenge #3: AI, Data and Robotics for Parts Harvesting

Positioning & Strategic Context: Within the hierarchy of circular economy strategies, Parts Harvesting serves as a vital recovery mechanism for high-value components and rare materials. This challenge addresses products that have reached the end of their functional life but still possess valuable sub-systems (e.g., electronic control units, specialized sensors, or subassemblies). Unlike bulk recycling, parts harvesting preserves the "embedded intelligence" and functional value of individual components, allowing them to be reused as spare parts for R4 Repair, R5 Refurbish, R6 Remanufacturing, R7 Repurposing or be integrated into completely new products. The strategic goal is to maximize resource recovery by selectively dismantling complex assemblies. This process reduces the need for primary material extraction and lowers the energy footprint associated with manufacturing new parts from scratch. Under this challenge, there are two priority areas for development:

- Inspection and Condition Checking:** The "Diagnostic" phase focused on identifying internal components and assessing their quality and reuse potential without damaging the host product.
- Dismantling and Sorting:** The "Extraction" phase, where robotic systems perform high-dexterity tasks to selectively remove and categorize parts based on their subsequent circular path.

Proposed solutions must address the high complexity and variability of heterogeneous waste streams while ensuring the integrity of the recovered parts. Applicants must propose **robotic solutions** for:

i. at least two (x2) of the following "Inspection and Condition Checking" areas:

- *Cognitive Multi-Sensor Identification*: AI systems utilizing RGBD, Near-Infrared (NIR), or other vision methods to recognize and locate specific components within a complex assembly (e.g., Identifying parts on a PCB).
- *Non-Destructive Reuse Assessment*: Integration of NDT tools (e.g., X-ray, ultrasound) to verify the functional integrity of internal parts before extraction, ensuring only viable components are harvested.





- *Automated Value-Assessment Reasoning*: AI models that combine inspection data with market demand and "Digital Product Passport" (DPP) information to determine the economic and environmental benefit of harvesting a specific part.
- *Digital Twin-Guided Localization*: Using a product's Digital Twin to guide robotic end-effectors to precise fastening points, even when the physical product is deformed or dirty.
- ii. **at least two (x2) of the following "Dismantling and Sorting" areas:**
 - *Dexterous Robotic Disassembly*: Use of robots and advanced modular grippers capable of performing delicate unbolting, unscrewing, de-soldering, or detaching tasks without damaging the target part.
 - *Adaptive Path Planning for Dismantling*: Robotic systems that autonomously compute extraction trajectories based on the real-time condition and orientation of the product.
 - *Intelligent Sorting and Binning*: AI-driven robotic cells that categorize harvested parts into specific circular streams (e.g., direct reuse vs. secondary market) with a target accuracy of >90%.
 - *Human-Robot Collaborative Harvesting*: Collaborative workstations where robots handle hazardous or repetitive disassembly steps (e.g., heavy casing removal), while humans focus on high-dexterity part retrieval.
 - *Autonomous Skill-Based Manipulation*: Development of robotic "skills" (e.g., "gentle pull," "rotate and lift") that allow the system to adapt to different component joining methods autonomously.

Challenge #4: AI, Data and Robotics for Decommissioning and Recycling

Positioning & Strategic Context: Within the hierarchy of circular economy strategies, Decommissioning and R8 Recycling represent the fundamental layers for closing the material loop. This challenge is directed at large-scale assets and products that have exhausted their functional utility (e.g., wind turbine blades, heavy industrial infrastructure, or structural composite parts). Unlike previous challenges focused on reuse, the strategic goal here is to safely dismantle these assets and recover raw materials with high purity to prevent downcycling and minimize landfilling. In line with the European Green Deal, ROB4GREEN is heavily focused and prioritizes material recovery and reuse instead of energy recovery (i.e., incineration).

Innovative automation is necessary to transform recycling from a hazardous, manual task into a high-throughput industrial process. By utilizing robotics and AI, the project aims to demonstrate that even challenging materials (e.g., those found in composites), can be processed profitably and sustainably, directly contributing to the European Green Deal's carbon neutrality goals. Therefore, under this challenge, there are two priority areas for development:

- a. **On-site De-commissioning Solutions:** Focused on mobile, aerial, or flexible robotic systems that can operate in non-standardized environments (e.g., wind farms, construction sites, etc.) to perform initial cutting, dismantling, or pre-processing.
- b. **Material Recycling:** The "Processing" phase where AI and robotics ensure the accurate separation and sorting of raw materials into high-purity streams for secondary manufacturing.

The proposed solutions must improve safety by removing operators from hazardous or repetitive environments while increasing the efficiency of raw material recovery. Applicants must propose **robotic solutions** for:

- i. **at least two (x2) of the following "Decommissioning" areas:**
 - *Mobile, aerial or naval Robotics for on-site processing*: Development of adaptive robotic systems capable of maneuvering around and processing components on-site. Typical





examples include wind turbine blades, building infrastructure, photovoltaic parks, trash collection, etc. among others.

- *Autonomous Cutting and Pre-processing*: AI-driven robotic tools that can autonomously identify optimal cutting paths and perform material separation on-site, adapting to the geometry and orientation of the decommissioned asset.
- *Environmental & Hazard Monitoring AI*: Integration of sensors and AI to monitor the surroundings during dismantling, ensuring the containment of dust or hazardous substances and protecting the local ecosystem.
- *Augmented Reality for Site Planning*: AR/VR tools to support human-robot collaboration in complex decommissioning environments, allowing operators to remotely supervise and guide robotic interventions.

ii. at least two (x2) of the following “Material Recovery” areas:

- *AI-Driven Material Characterization*: Real-time identification of material compositions (e.g., distinguishing between different types of composites or alloys) using advanced vision or spectroscopy before the sorting process begins.
- *High-Purity Sorting and Binning*: Robotic cells capable of high-speed, accurate sorting of shredded or dismantled materials into secondary raw material streams with a target accuracy of >90%.
- *Automated Cleaning for Recycling Purity*: Systems designed to remove contaminants (coatings, adhesives, or surface dirt) to ensure that the recovered material meets the technical requirements for high-quality secondary usage.
- *Process Optimization for Pyrolysis/Chemical Recycling*: AI reasoning engines that optimize the pre-processing of materials (e.g., cutting size and purity) to increase the yield and efficiency of subsequent chemical recycling or pyrolysis processes.
- *Circular Logistics Integration*: Software solutions that link recycling data with the value chain, providing "Verified Condition Profile" regarding the origin and quality of recycled materials for secondary markets.

Note: In line with the European Green Deal, ROB4GREEN is heavily focused and prioritizes material recovery and reuse instead of energy recovery (i.e., incineration). Therefore, external pilots under this prism are considered out of scope for this open call.





4 ROB4GREEN FRAMEWORK AND SUPPORT PROVIDED

4.1 ROB4GREEN technologies at a glance

The ROB4GREEN framework is engineered to transform highly variable, manual "Re-X" tasks into scalable, automated industrial processes. To achieve its objective, the ROB4GREEN consortium has analyzed industry requirements and designed a software architecture that effectively supports the project's goals. This architecture defines how ROB4GREEN modules exchange data and interoperate using different forms of communication and dedicated APIs. ROB4GREEN utilizes a service-oriented, distributed architecture that can fit into the centralized control requirements of a re-X system. Rather than providing isolated tools, the project offers an integrated ecosystem aiming sustainability, innovation & openness, adaptation, perception, reasoning, collaboration, scalability, modularity & interoperability and reusability.

The project's enabling technologies can be described by four main layers:

- **Perception and cognitive mechatronics layer:** Consists of robotic manipulators, sensors and perception modules. The physical and cognitive foundation of the ROB4GREEN solution is provided by the technologies that belong to this layer.
- **AI-based programming and continuous learning layer:** Modules for task planning, continuous learning, collision-free motion planning and human-robot interaction. Adaptability, autonomy, social interaction and personalization are some of the most important benefits that stem from this layer's outcomes.
- **Information exchange and multi-level optimization layer:** Digital twin, AI-based decision-making components and open communication architecture. Optimization of Re-X processes, data integration of the system with external platforms, and updates of digital representations based on shopfloor data are handled under this layer.
- **Integration and pilot deployment layer:** Performance, sustainability, and adaptability validation through integration of the complete ROB4GREEN system within industrial demonstrators. This layer ensures that the developed technologies interact coherently in realistic production conditions.

The start of the funding programme is timed for ROB4GREEN's eighteenth month (M18) since its kickoff that was celebrated in January 2025. By that timing, the ROB4GREEN consortium will be able to deliver the first working prototypes of the project's technology blocks that will support core functionalities. The following subsection elaborates further.

4.2 What ROB4GREEN tools are available for 3rd party integration?

The ROB4GREEN's first prototypes that can be available for 3rd parties are showcased in Figure 3. A summary of the technologies along with their formatting and used interfaces is provided in Table 1.

It is mandatory, that the applicants select one (x1) or two (x2) ROB4GREEN tools to be integrated in their solutions.



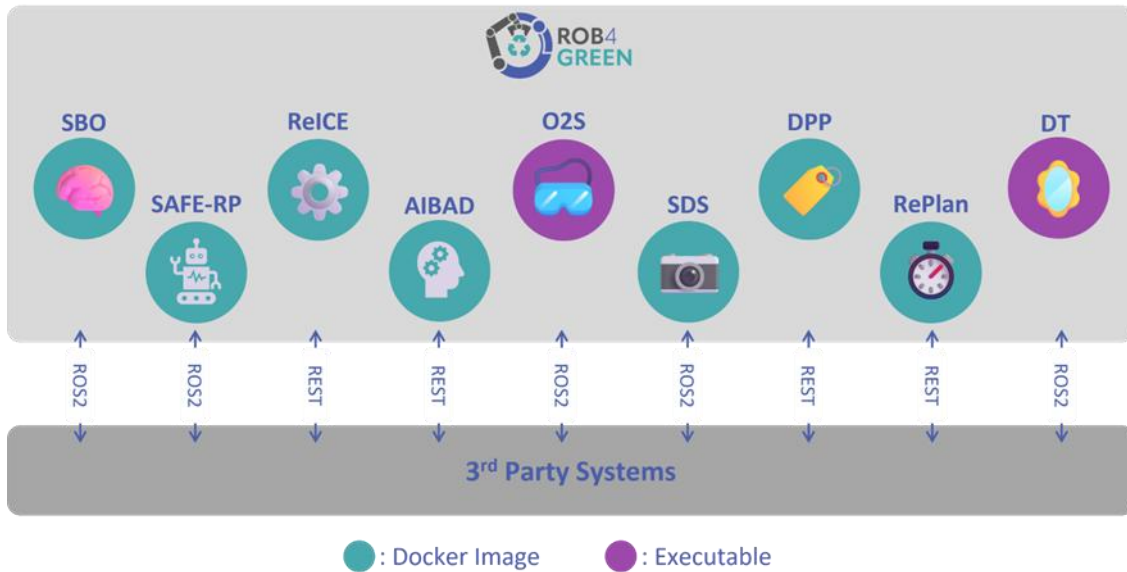


Figure 3. ROB4GREEN Tools available to 3rd Parties

Table 1. ROB4GREEN tools format and supported interfaces

Tool name	Tool acronym	Format	Interface
Shopfloor Perception & Digitalization Suite	SDS	Docker	ROS2
AI-based scheduling engine for robotized Re-X	RePlan	Docker	REST
Skill based dynamic orchestrator with behaviour trees	SBO	Docker/Executable	Behaviortree.cpp / ROS2
Collision-free robot motion planning	SAFE-RP	Docker	ROS2
Multi-modal Operator-System Interaction Suite	O2S	Executable	ROS2
Digital Product Passport	DPP	JSON-LD	REST
Digital Twin Platform for sustainable optimization of circularity operations	DT	Docker/Executable	ROS2
AI based Decision Making	AIBAD	Docker	REST
Re-X Integration & Coordination Engine	ReICE	Docker	REST

More technical details per software tool can be found in the following sub-sections.

4.2.1 Shopfloor Perception & Digitalization Suite (SDS)

Perception and interaction module for collaborative shopfloor environments. Provides real time human tracking based on skeleton detection and exposes the skeleton data via a standardized API. Supports contactless operator interaction through spatially defined virtual buttons, with button placement information received via a structured message type. Enables safe and flexible human robot collaboration and can be integrated seamlessly across different processes and industrial setups.

4.2.2 AI-based scheduling engine for robotized Re-X (RePlan)

AI-based scheduling engine that considers process constraints, priorities, and operational objectives to sequence Re-X actions and assign them to shopfloor resources. To optimize schedules and resource



assignments, factors such as resource availability, estimated execution time, and system state are also considered. Execution progress gets continuously evaluated and schedules can be adapted and updated dynamically in response to unexpected events in the execution environment. The outputs of replan include schedules and scheduling metadata. The functionalities of RePlan are accessible through an intuitive graphical user interface.

4.2.3 Skill based dynamic orchestrator with behavior trees (SBO)

The SBO skill-based programming framework will provide a visual programming framework for building adaptable robot applications easily. Skills will be implemented with behavior trees and context models that will standardize parameters and state. The core architecture will remain reusable so other ROS2 implementations would be able to build on it. Robotics engineers would be able to build applications for ABB, Fairino, and UR, with runtime support and external configuration.

The framework will integrate camera and vision stacks like Daheng, IDS, and Pickit. Computer vision researchers would be able to plug-in their vision skills with support for YOLOv8, SAM models and python plug-ins. Users would also be able to plug-in MoveIt task planning as skills so that motion planning and execution can be reused across robot brands. Users would be able to drag and drop skills to build more complex orchestration behaviors and would be able to change configuration to swap vision models. Robots and camera drivers without rewriting the behavior tree logic.

4.2.4 Collision-free robot motion planning (SAFE-RP)

SAFE-RP will leverage the use of Skills and AI for automatic programming of robots. This block focuses on the development of collision-free motion planning algorithms and automated program generation for flexible robotic systems. The primary objective is to generate safe and efficient trajectories for two key operations: scanning and processing of parts. The processing involves linearly movements of robot Tool Center Point (TCP) at constant speed for cutting, sealing, welding, deburring etc. The planning process will leverage both static environmental data and if available, other real-time sensor inputs, ensuring adaptability to dynamic conditions. Different planning algorithms will be developed, with a focus on: a) Implementing Cartesian trajectory constraints, and b) Optimizing computational efficiency for real-time execution.

It is noted that the deployment of the tool prerequisites an available robot URDF and ROS drivers. The third parties need to provide product's geometrical information (e.g. 3D cad) and support the parameterization process).

4.2.5 Multi-modal Operator-System Interaction Suite (O2S)

O2S is a Unity-based operator interface that works on a tablet, PC, or projector. It shows human tasks along with Task ID, Task name, Task description, and an image instruction panel. It also includes buttons or features for "Task Completed" and "Cancel" feedback. Task data come through ROS2 (topic/service). Instructional images are provided by a third party and stored in a specific folder using a set naming pattern (for example, per task and step) to allow for automatic loading. For projection, the overlaying, positioning and calibration of elements depend on accurate digitalization of the scene by the third party that needs to directly support such activities.

4.2.6 Digital Product Passport (DPP)

DPP captures and structures information about the product lifecycle including critical for repair and reuse decisions. It enables storing and tracking structured product data including historical repairs and modifications, component-level metadata and lifecycle events. It enables access to product information by other systems via its JSON-LD API (e.g., AIBAD, RePlan). It supports decision-making during Re-X by providing crucial information about the lifecycle and product specifications. It comes in the form of an JSON-LD schema and can be linked to other tools (such as AIBAD) via a dedicated DPP Service Tool. The DPP can also be used to reflect any Re-X processes that have been performed on the product.





4.2.7 Digital Twin Platform for sustainable optimization of circularity operations (DT)

A docker- or executable -based Digital Twin platform that provides robot visualization based on accurate URDF models, 3D assets and ROS2 robot drivers. The DT enables the visualization of robot kinematics, execution states and workspace layout, and can be integrated with the SDS module for the visualization of human position in the virtual environment.

Additional functionalities, such as custom analytics, could be provided only if the third party leads their integration and supports the R4G consortium in that direction. ROS2 drivers, hardware interfaces, etc. need to be available by the third party for supporting related functionalities.

4.2.8 AI based Decision Making (AIBAD)

AIBAD implements a symbolic AI model in Python+RDF using PyReason that provides recommendations regarding the next steps in the remanufacturing process. Based on incoming product information (BOM, DPP, visual inspection information) and predefined logic rules, it determines if a product is fit for remanufacturing and, if so, prescribes the next steps. RDF-based ontologies are used to describe product components, parameters, and metadata.

4.2.9 Re-X Integration & Coordination Engine (ReICE)

Integration and coordination backbone for Re-X processes. Facilitates interaction between heterogeneous software modules, robotic systems, and human interfacing components. ReICE facilitates monitoring and control of Re-X workflows, coordinates task execution, and manages execution dependencies and synchronization. It also enables interoperability and allows seamless integration and testing of new technologies.

4.3 Support provided within ROB4GREEN Assistance Programme

In addition to the financial support of up to €300,000 per project, participants will benefit from tailored mentoring for the overall solution deployment, as well as expert guidance to integrate and deploy ROB4GREEN digital tools that will complement the existing solutions in real-world scenarios.

Each selected project will be supported by a dedicated ROB4GREEN Mentoring Team, ensuring that External Pilots maximize the potential of ROB4GREEN digital tools while effectively implementing their solutions. The mentoring team includes:

- **Innovation Mentor (IME):** Main contact point between the External Pilot and the ROB4GREEN project. The IME may provide inputs on innovation and technical aspects, and involve other resources from ROB4GREEN, if necessary.
- **SSH Mentor (SSM):** Ensures that your solution is fit for market, user-centric, and aligned with societal and regulatory considerations, leveraging insights from social sciences and humanities (SSH).
- **Industry Mentor (IND):** Contribute with inputs from the overall sector of which the External Pilot operators. Whether or not to include an IND will be evaluated on a Pilot-to-Pilot basis, based on, e.g., the composition of the team in the External Pilot and the choice of Innovation Mentor.

To ensure fair and objective assessment, an Internal Evaluator Board (IEB) will independently evaluate project progress, offering valuable feedback while remaining uninvolved in day-to-day activities.

The Innovation Mentor (IME) will provide the External Pilot with a template, which will serve as a roadmap for monitoring milestones and results. Each External Pilot will undergo a minimum of three evaluation meetings, corresponding to key project sprints, ensuring continuous improvement and impact assessment (Section 5.3).





5 ACTIVITIES DURING THE WORK PROGRAMME

5.1 Programme Phases

The ROB4GREEN Programme includes three sprint phases summarized in Table 2.

Table 2. Programme phases

Phase number	Name	Duration
Sprint 1	Requirements	M01 – M02
Sprint 2	Deployment & development	M03 – M08
Sprint 3	Validation	M09 – M10

The corresponding deliverables (reports, dissemination summaries, videos, etc.), upon delivery and acceptance, mark the successful conclusion of the phases/ sprints and are mandatory.

During the activities, the beneficiaries will have the support of a mentoring team. Information for Mentoring team can be found in the “Guide for Applicants”.

5.1.1 Sprint 1: Requirements [M01 – M02]

Sprint 1 is the starting point the project and will last up to 2 months.

Within this phase, beneficiaries must finalize the implementation plan, including key requirements and roadmap for the development and deployment of the funded pilot. The implementation plan should account for the integration of ROB4GREEN tools with the rest of the envisioned technologies and the fulfilment of the project’s objectives.

At the end of Sprint1, beneficiaries should deliver:

- One (x1) technical report** presenting:
 - The full set of functional requirements, quality attributes, technical and business constraints. This includes technical specifications of the solution, description of the baseline technologies/prototypes and roadmap to the final demonstrator together with the finalization of the case specific KPIs.
 - Detailed development and implementation plan including, detailed description of the tasks to be performed, milestones and means of verification.
 - Detailed resource planning.
 - Risk management process and risk identification.
 - When required, evidence that a research protocol was submitted to an ethical committee
- One (x1) dissemination 1-pager:** this includes a publishable summary of the results obtained at this stage. It is accompanied by high-resolution figures and graphical material for social media usage.

Relevant Notes:

- The **plan must be agreed with the mentors** of ROB4GREEN project.
- The projects are required to deliver the two deliverables **two (x2) weeks before the end of the phase**.

5.1.2 Sprint 2: Development & Deployment phase [M03 – M08]

Sprint 2 lasts 6 months and is dedicated to the core development and deployment stage of the projects, following the specifications provided in the technical annex of the proposal, the detailed plan





submitted in Report #1 and eventual updates required by the ROB4GREEN consortium. More specifically activities involve:

- development of the required functionalities as identified in “Sprint 1”
- deployment of a demonstrator of the system prototype in relevant environment, including the ROB4GREEN tool(s) that the beneficiaries have selected from the list in Table 1.
- collection of relevant data to support to describe the operation of the initially deployed solution.

At the end of Sprint 2, beneficiaries must deliver:

- 1) **one (x1) technical video demonstration** of the system prototype in relevant environment (internal use)
- 2) **one (x1) technical report** (Report #2) including:
 - a. technical activities performed
 - b. compliance with the plan approved, including milestones and means of verification.
 - c. usage of resources
 - d. detailed risk management information
 - e. updated plan for the validation phase.
 - f. When required, evidence that a research protocol approved by an ethical committee was followed and is considered in the updated plan for the validation phase.
- 3) **one (x1) publishable dissemination summary**: this includes a publishable summary of the results obtained until this stage. It is accompanied by high-resolution figures and graphical material for social media usage.
- 4) **one (x1) publishable video**: video showcasing project outcomes that will be shared through social media for raising awareness.

Relevant notes:

- When required, evidence that a research protocol was approved by an ethical committee, and the implementation plan is updated according to their recommendations. If the requirements and/or recommendations of the Ethical Committee significantly update the scope of the project or the workplan, the consortium must promptly inform the ROB4GREEN consortium. Significant updates will be evaluated case by case and may lead to project termination if the updated goals as work to be performed cannot meet the goals of the proposal.
- The projects are required to **deliver the “technical video demonstration” and the “Report #2” two (x2) weeks before the end of the phase**, and the **dissemination material one (x1) week before the end of the phase**.

5.1.3 Sprint 3: Validation Phase [M09 – M10]

Sprint 3 marks the final stage of the project and its goal is to validate the pilot, following the specifications provided in the technical annex of the proposal, the detailed plan submitted in Report #2 and eventual updates required by the ROB4GREEN consortium. In addition, through exploitation activities, the consortium will be outlining the potential for future exploitation and impact. More specifically activities involve:

- system prototype demonstration in an operational environment (TRL7).
- exploitation roadmap, outlining potential commercialization pathways, and next steps for scaling up.
- user validation study to assess the use case, engaging at least 5 individuals if human intervention is maintained in the process (users of the proposed solution e.g. operators, engineers, workers). Participants should agree to provide structured feedback on usability and



technology acceptance, including the validation of the ROB4GREEN tool(s) with an option to share insights in relevant industry events or publications.

At the end of Sprint 3, beneficiaries must submit:

- 1) **one (x1) technical video demonstration** of the integrated system in relevant environment (internal use)
- 2) **one (x1) technical report** (Report #3) including:
 - a. technical activities performed
 - b. Pilot Validation
 - c. Future exploitation and market potential
 - d. compliance with the plan approved, including milestones and means of verification.
 - e. usage of resources
 - f. Detailed risk management information
 - g. When required, evidence that a research protocol approved by an ethical committee was followed.
- 3) **one (x1) publishable dissemination summary**: this includes a publishable summary of the results obtained by the end of the project. It is accompanied by high-resolution figures and graphical material for social media usage.
- 4) **one (x1) publishable video**: video showcasing project outcomes that will be shared through social media for raising awareness.

Relevant Notes:

- The **plan must be agreed with the mentors** of ROB4GREEN project.
- The projects are required to **deliver the “technical video demonstration” and the “Report #3” two (x2) weeks before the end of the phase**, and the **dissemination material one (x1) week before the end of the phase**.

5.2 Participation in public Events

During any of the Phases previously described, the sub-projects can be requested to:

- 1) attend at physical events (≤ 3) two-day events in Europe, either organized by ROB4GREEN or in which the ROB4GREEN Project is participating.
- 2) audio calls, video calls, webinars, online training, virtual conferences, etc. organized or suggested by the ROB4GREEN Consortium.

The scope of the events is to disseminate the projects' activities and results. **Applicants will need to plan the attendance on these events as part of the budget requested.**

5.3 Evaluation during the programme

The milestones, KPIs and deliverables will be evaluated at the end of each Sprint. **A remote review meeting will take place after each phase** (via teleconference platform) to evaluate the progress of the beneficiaries.

The reviewing process will take in consideration the achievement of the Key performance Indications presented in Table 4 through the deliverable reports that are enlisted in Section 5.1. A summary of a summary of the three reviews along with their expected requirements and outcomes are summarized in Table 3.

The beneficiaries will present the work completed, outline the progress achieved, and answer questions from the ROB4GREEN experts.





After the review, the beneficiaries will receive a review report, including short comments and potential recommendations. The report will indicate whether the deliverables are accepted, require revision, or are rejected.

Therefore, the following scenarios emerge:

- **Acceptance of all deliverables:** This validates the successful completion of the corresponding phase; therefore, the lump sum payment tranche will be approved. Payments will be processed within forty (x40) working days following the positive review outcome.
- **Rejection of at least one deliverable:** In the event of a rejected deliverable or an unsatisfactory review, beneficiaries will be requested to re-submit improved deliverables. The ROB4GREEN experts will then determine whether the project may proceed to the next Sprint or if the risk of failure is too high. If rejection or an unsatisfactory review occurs in the final Sprint (Sprint 3), the ROB4GREEN Consortium may allow a short extension for the beneficiary to revise and resubmit the deliverables. If the deliverables are approved within the extension period, the final lump sum payment will be released accordingly.

Table 3. Summary of project reviews: requirements, result and timeline

Phase	Item	Description
Requirements	Requirement	Submission of ✓ One (x1) technical report (Report #1) ✓ One (x1) dissemination 1-pager
	Result	Approval of the Updated plan for Development & Deployment Phase and compliance with funding conditions.
	Timeline	End of month M02.
Development & Deployment	Requirement	Submission of ✓ One (x1) technical report (Report #2) ✓ One (x1) publishable dissemination summary ✓ One (x1) technical video demonstration ✓ One (x1) publishable video
	Result	Approval of the Updated plan for Validation Phase and compliance with funding conditions.
	Timeline	End of month M08
Validation	Requirement	Submission of ✓ One (x1) technical report (Report #3) ✓ One (x1) publishable dissemination summary ✓ One (x1) technical video demonstration ✓ One (x1) publishable video
	Result	Approval of the deployment and validation activities and compliance with funding conditions. Payment of up of the remaining 50% of the grant and successful completion of the project
	Timeline	End of month 10



Table 4. Relevant KPIs and expected outcomes considered in the reviewing process

Main KPI categories	List of relevant KPIs
ROB4GREEN overall KPIs for external Pilots	<u>Universal indicators:</u> ○ KPI 1: Successful demonstration of the use case in the selected challenge at TRL7. ○ KPI 2: Number of ROB4GREEN tools utilized (1 or 2). ○ KPI 3: Energy/material savings thanks to AI & robotics by 50%. <u>Select x2 of the following:</u> ○ KPI-O1: Reduction of Greenhouse Gas (GHG) emissions by 10%. ○ KPI-O2: Ratio of tasks performed by AI enhanced robotic solutions over tasks by human by more than 5%¹. ○ KPI-O3: Reduction of energy during the pretreatment process by 20%. ○ KPI-O4: For composites, reduction of energy during the pretreatment process by 20% and time for the segregation/preprocessing by 30%. <u>Extra KPI for challenge #2:</u> ○ KPI-Ch1: materials savings increase by 15%. <u>Extra KPI for challenge #3:</u> ○ KPI-Ch2: accurate detection of components more than 90%. <u>Extra KPI for challenge #4:</u> ○ KPI-Ch4: Reduction of unwanted materials around 5% to 6%.
Dissemination KPIs	○ KPI 1: 1 Minimum 1 public announcement of the scope of the project (e.g., via Social Media (SM) (Sprint 1). ○ KPI 2: Minimum 1 prototype video demonstration at TRL 6 or above (Sprint 2). ○ KPI 3: Minimum 1 solution video demonstration at TRL7 (Sprint 3). ○ KPI 4: Minimum 3 social media posts per each Sprint ○ KPI 5: Minimum 200 interactions (likes, shares, comments) across all posts during the programme. ○ KPI 6: One blog post for ROB4GREEN website per Sprint.
Expected final outcome	The expected outcome at the end of the 10-month project execution includes: ○ the demonstration of the solution including the ROB4GREEN selected functionalities at a relevant environment with the selected use case (onsite or testbed). ○ a report presenting the testing of the solution. When applicable, it must involve testing with actual users (individuals such as workers, operators, engineers) in the selected industry. This should be supported by a user satisfaction study and documented in a report. In addition the report must be presenting their go to market strategy.

Relevant notes:

- It is important that **reports and technical demonstration videos must be submitted at least two weeks in advance**, so that the reviewers will have enough time to prepare. Similarly, **dissemination material (summaries, videos, etc.) needs to be submitted at least one week in advance**.

¹ e.g., 53% robotised- vs 47% manual- tasks, or better



- During the remote review meeting, the participation of **at least one (1x) representative per beneficiary is mandatory**.
- Failure to (re-)submit rejected or delayed deliverables within the specified (or extended) deadlines, insufficient quality of outputs, or the inability to achieve agreed Key Performance Indicators (KPIs) may lead to the **rejection of deliverables and, consequently, the rejection of associated costs**. Such instances **may also result in project termination**. To mitigate these risks, ROB4GREEN provides dedicated mentoring support to assist beneficiaries throughout the implementation phase.

6 CONCLUSIONS

This document summarizes the challenges of the Open Call along with the tools that will be accessible to the selected applicants of the 1st ROB4GREEN Open Call. The applicants should consider the presented functionalities and involve at least one of the ROB4GREEN tools in their proposals. The ROB4GREEN consortium will guide and support the integration and deployment of the selected toolset in their use case. The feedback collected after the end of the projects' execution will drive further enhancements of the functionalities of the ROB4GREEN modules.





ROB4GREEN

Robotics and AI as Enablers for Greener Dismantling, Remanufacturing and Recycling

-ROB4GREEN-

**HORIZON-CL4-2024-DIGITAL-EMERGING-01-04 – Industrial leadership in AI, Data and Robotics
boosting competitiveness and the green transition (AI Data and Robotics Partnership) (IA)**

Grant Agreement No. 101189665

Annex 3: F6S Application Form

(Co-)Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Commission. Neither the European Union nor the granting authority can be held responsible for them.



This project has received funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement No. **101189665**.



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1 INTRODUCTION AND NOTE

This document presents the F6S application Form that will be used for the application of proposals under the ROB4GREEN Open Call 1.

Please note that the question forms provided here are intended for reference purposes only! The questions will appear directly at the F6S platform to fill out.

Applicants DO NOT SUBMIT responses to this Template.

To submit your application for the call, please complete the relevant form available on the F6S page ONLY by clicking the following link:

<https://www.f6s.com/rob4green-open-call-1/apply/>

2 F6S APPLICATION FORM

The application form is attached to the pages hereunder:





ROB4GREEN Open Call 1

Add a Tagline



Pipeline Scouting Apply Events Jobs Save on Software



You'll receive emails about your application at demo@f6s.com



Overview

About ROB4GREEN Open Call 1

Funding



Application Form Demo ▾

[Update page](#)

Questions



ROB4GREEN Project Description

Robotics and AI as Enablers for Greener Dismantling, Remanufacturing and Recycling -ROB4GREEN

HORIZON-CL4-2024-DIGITAL-EMERGING-01-04 – Industrial leadership in AI, Data and Robotics boosting competitiveness and the green transition (AI Data and Robotics Partnership) (IA) - Grant Agreement No. 101189665
(Co-)Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Commission. Neither the European Union nor the granting authority can be held responsible for them.

ROB4GREEN is an EU-funded project under the Horizon Europe Programme designed to bridge the gap between labor-intensive Re-X processing and automated circularity by developing intuitive, collaborative, and AI-driven robotic systems. By addressing current limitations in cognitive intelligence, product state perception, and value-chain decision-making, the project enables industries to adapt seamlessly to key circular "R-strategies" for processing products after their first life. The ROB4GREEN framework is built upon three core technological pillars: cognitive mechatronics that "understand" material compositions in real-time through advanced perception; AI-based interfaces for continuous learning and human-robot interaction in high-variability contexts; and a modular architecture for multi-level optimization that scales from individual robotic cells to the entire value chain. These innovations are rigorously validated through three industrial pilots focused on wind blade decommissioning (energy), tire remanufacturing (automotive), and high-value component harvesting (electronics). To maximize European industrial impact and ensure architectural interoperability, ROB4GREEN integrates a € Financial Support to Third Parties (FSTP) program, facilitating the deployment of external pilots and the co-development of solutions with external Research and Technology Organizations (RTOs) in

additional real-world scenarios. For more information about the project and its consortium, refer to Section 2 of Annex 1.
Annex 1 Guide for Applicants
rob4green-project.eu/wp-content/uploads/2026/01/Annex-1_ROB4GREEN-OC1-Guide-for-Applicants.pdf

Proposal Form Identification and Information

This application form is part of the ROB4GREEN Open Call #1.

Only applications submitted through this online system will be eligible for the evaluation stage.

The administrative form consists of the following mandatory sections:

SECTION 1: Proposal identification

SECTION 2: Applicants Information

SECTION 3: Proposal Description

SECTION 4: Requirements to join the ROB4GREEN programme

SECTION 5: Additional questions

If you have any questions, feel free to contact the ROB4GREEN team (rob4green@f6s.com).

Failure to provide the required information in all sections will result in disqualification.

All documents are available at rob4green-project.eu/open-calls/

Section 1: Proposal Identification

Please provide the Acronym, the Proposal Title and the Summary of your proposal.

Why we request the information:

- Acronym and Proposal Title will be used to identify the proposal
- Summary will be used in Open Call reports to the European Commission

1 Proposal Acronym *

15

2 Proposal Title *

300

3 Proposal Summary *

SECTION 2: Applicant information

In this section, please provide the identification of all consortium partners.

Why we request the information:

- Name, VAT Number and PIC Number are necessary identify the organization.
- Country is necessary to verify country eligibility criteria.
- Website is necessary to double check the information provided in this form and the Proposal Technical Annex
- Contact person details are necessary as the consortium will need to contact every organization.

To find your PIC number or register your organization please visit the EU Portal in this link

ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/participant-register

Additional notes:

1. It is mandatory that the leading organization and the end user organization are distinct entities.
2. The "Optional" participant can be accepted only if there is already one technology adopter and one technology providing SME in the consortium (e.g., 1 university + 1 end-user is not eligible)
3. All organizations need to comply with the eligibility criteria (section 0) and originate from eligible countries (section 3.2.2)

4. The characterization of an organization as an SME needs to follow the EU SME definition and the Commission Recommendation 2003/361/EC

Applicant 1 (A1) - Lead

Mandatory: One (1) SME/Startup acting as the Technology Integrator/Provider. This partner is responsible for leading the technical developments and serving as the pilot leader.

4 **A1: Organisation/entity name ***

300

5 **A1: VAT number ***

20

6 **A1: PIC number ***

20

7 **A1: Country ***

20

8 **A1: Organisation website ***

200

9 **A1 – Name of the main contact person ***

200

10 **A1: Contact person's role/position in the company/organisation**

200

11 **A1: Email address ***

200

Applicant 2 (A2)

Mandatory: One (1) Industrial End-user acting as the Technology Adopter. This partner is responsible for providing the external pilot scenario and validating the technical developments

12 **A2: Organisation/entity name ***

300

13 **A2: VAT number ***

20

14 **A2: PIC number ***

20

15 **A2: Country ***

20

16 **A2: Organisation website**

200

17 **A2: Name of the main contact person ***

200

18 **A2: Contact person's role/position in the company/organisation ***

200

19 **A2: Email address ***

200

Applicant 3 (A3)

Optional: One (1) additional organization (Mid-cap, SME, or RTO/Academia) acting as a Supporting Partner. This partner is responsible for providing specific technology and/or expertise to facilitate the project implementation.

20 **A3: Organisation/entity name**

300

21 **A3: VAT number**

20

22 **A3: PIC number**

20

23 **A3: Country**

24 **A3: Organisation website**

200

25 **A3: Name of the main contact person**

200

26 **A3: Contact person's role/position in the company/organisation**

200

27 **A3: Email address**

200

SECTION 3: Proposal Description

Why we request the information:

- Challenge will be used to assign proposals to external and internal evaluators
- Proposal Technical Annex will be shared with external and internal evaluators during proposals evaluation.

28 **To which challenge are you applying? ***

Applicants are required to select one of the challenges.

More information and technical details on the challenges can be found in Annex 2 Technical Description

rob4green-project.eu/wp-content/uploads/2026/01/Annex-2_ROB4GREEN-Technical-Description.pdf

- ☐ C#1 AI, Data and Robotics for Life Extension
- ☐ C#2 AI, Data and Robotics for Value Retention
- ☐ C#3 AI, Data and Robotics for Parts Harvesting
- ☐ C#4 AI, Data and Robotics for Decommissioning and Recycling

29 **Upload here PDF of filled in Annex 2 Proposal Technical Annex (template). (Max file size 30MB.) ***

The template for the Technical Annex can be downloaded in the following link:

rob4green-project.eu/wp-content/uploads/2026/01/Annex-4_ROB4GREEN-Proposal-Template.docx

Before submitting check if you have:

- (1) Respected the formatting requirements, including the page limit
- (2) Provided information for all the required sections.

Proposals using another template will be disqualified. Any pages exceeding the defined limit will not be evaluated. Failure to meet the requirements will lead to proposal disqualification. (Max file size 30MB.)

[Choose a File](#)

SECTION 4: Requirements to join the ROB4GREEN programme

In order to simplify the application process, we will only be requesting signed versions of the documents during the contracting phase.

Why we require this information:

- Consortium Declaration of Honour, signed commitment that all partners are eligible and committed to the action.
- We need applicants to confirm that they have consulted the templates and will be able to produce the signed versions during the contracting phase.

30 **Consortium Declaration of Honour (Max file size 30MB.) ***

Please upload here a signed version of the Consortium Declaration of Honour.

The template for the Technical Annex can be downloaded in the following link:

rob4green-project.eu/wp-content/uploads/2026/01/Annex-5_ROB4GREEN-Consortium-Declaration-of-Honor-.docx

[Choose a File](#)

31 **SME Declaration**

We confirm that the company I represent (A1) is a valid SME, following established EU rules, which validity will be proved by a signed and stamped declaration to be provided should this proposal be accepted for funding.

View document here:

rob4green-project.eu/wp-content/uploads/2026/01/Annex-6_SME-Declaration.docx

- ☐ I confirm that the above mentioned declaration will be provided

32 **Data Sharing ***

The information provided and submitted in this proposal can be shared by F6S with the ROB4GREEN consortium and appointed external evaluators for the purposes of managing the open call.

- ☐ I accept that the information can be shared as described above

SECTION 5: Referrals and Acceptance of Conditions

Please provide data on how you became aware of the ROB4GREEN Open Call, if you are interested in receiving information relative to future funding opportunities, and accept the terms and conditions of the ROB4GREEN Open Call 1

Why we require this information:

- For statistical purposes and report to the European Commission
- For GDPR compliance

33 **How did you hear about ROB4GREEN Open Call? ***

- | | | |
|---|---------------------------------------|---|
| ☐ ROB4GREEN Website | ☐ F6S | ☐ ROB4GREEN Social Media |
| ☐ European Commission communications | ☐ Acquaintance | ☐ Other |

34 **I am interested in being contacted about future funding opportunities. ***

- ☐ Yes
☐ No

35 **I CONFIRM that all information provided in this proposal is true and correct. ***

- ☐ Yes

36 **Acceptance of the terms of the sub-grant agreement template ***

By submitting this application, the consortium confirms it has reviewed the ROB4GREEN Sub-Grant Agreement template and accept that its rules/terms are non-negotiable during the contracting phase.

rob4green-project.eu/wp-content/uploads/2026/01/Annex-7_ROB4GREEN-Sub-Grant-Agreement.pdf

- ☐ We accept the terms of the sub-grant agreement

37 **Acceptance of the ROB4GREEN conditions ***

The terms and conditions of the programme are defined in the ROB4GREEN Open Call guide for applicants available at:

rob4green-project.eu/wp-content/uploads/2026/01/Annex-1_ROB4GREEN-OC1-Guide-for-Applicants.pdf

- ☐ We have reviewed and accept all conditions of ROB4GREEN Open Call Guide for Applicants.

Are you done? Click below to finalize

Connect with Antonio & Josipa



ROB4GREEN

Robotics and AI as Enablers for Greener Dismantling, Remanufacturing and Recycling

-ROB4GREEN-

Grant Agreement No. 101189665

Annex 4: ROB4GREEN Proposal Template

Proposal Acronym

Proposal Title

Partner	Full legal name	Country
Lead		
#2		
#3 ¹		

Code	Challenge Title	Selected Challenge ²
C#1	AI, Data and Robotics for Life Extension	☐
C#2	AI, Data and Robotics for Value Retention	☐
C#3	AI, Data and Robotics for Parts Harvesting	☐
C#4	AI, Data and Robotics for Decommissioning and Recycling	☐

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¹ If there is no 3rd entity in the consortium, delete this table line.

² Select the challenge that your proposal addresses (only one)





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HISTORY OF CHANGES

Version	Release date	Changes
V0	05/02/2026	No changes (Original version)
R1	06/04/2026	Corrected a typo stating “full 16 months of the project” instead of “full 16 months of the project” in section 4.3.1.





Proposal template – *delete this page*

ROB4GREEN Open Call 1 – Call for External Pilots

Version 1

Please use this template to prepare your proposal - the indicated structure must be followed.

Applicants using other kind of template/ document structure will be automatically considered ineligible.

Disclaimer: Please be aware that the proposal will be evaluated as submitted, with no additional documents or links to add information beyond the defined hereby. The proposal is a self-contained document.

Evaluators will be instructed to ignore hyperlinks to information that is specifically designed to expand the proposal, thus circumventing the page limit.

Before submitting your application, you **must read Annex 1 Guide for Applicants** available here³ to clearly understand the rules applying to the call.

Rules: The page limit for the full proposal is **13 pages** (not including cover page, table of content page and the Ethical/Security Checklist). The page size is A4, and all margins (top, bottom, left, right) should be at least 15 mm. All tables, figures, references, and any other element pertaining to these sections must be included as an integral part of the proposal. The allowed font type is “Calibri” or “Open Sans” and the minimum **font size is 11** points. **ENGLISH** is the only eligible language of the proposal.

Tips: Please take advantage of the different communication instruments offered by the ROB4GREEN Consortium (i.e. info webinars, online Q&A, and the website) to receive feedback on any questions you may have before submitting your proposal.

It is in your interest to **keep your text as concise** as possible, since evaluators rarely view unnecessarily long proposals in a positive light.

 *Please delete this page when submitting the proposal*

 *Delete the guidance text in blue in each section.*

 *Upload the document in PDF format.*

³ <https://rob4green-project.eu/open-calls/>





1 SUMMARY OF THE PROJECT

i NOTE: MAXIMUM OF 1 PAGE (indicative)

1.1 Consortium composition

i Indicate in the table below who are the member of the consortium and their corresponding roles. Not necessary to have any introductory text here.

Table 1: Consortium

Consortium	Entity Name	Entity Type*	Entity role**
Entity 1 (Coordinator) Must be a for-profit SME			
Entity 2 (End-user)			
Entity 3 (Optional)			

*Entity types: Startup; SME; Research institute; NGO, Other entity.

**Entity roles: 1) Tech provider/integrator, 2) End-user. The proposal must include at least one applicant of each type.

1.2 Executive Summary

i Describe an overview of your pilot. What and where will it be implemented, who will be involved, why is it important, challenges to address, objectives to meet and potential impact.

Text style to be used.

1.3 Objectives

i Please state a clear objective/ a set of objectives of your intended work for the 10-month Pilot programme duration. Are they measurable and verifiable? Are they realistically achievable?

Text style to be used.





2 EXCELLENCE

i NOTE: MAXIMUM OF 4 PAGES (indicative)

i Describe the overall concept and objectives (general and specific) of the project within the scope of the open call and the project. Include also:

- State-of-art (brief) and challenges to be solved.
- Expected project outcomes, which should be justified, measurable and realistic within the timeline of the project implementation.
- The innovation potential, and how the project is novel.
- The technology readiness level of the project.

2.1 Current scenario

i Describe the challenging/problematic scenario that you will address in your project, explaining the business context, how the current situation looks like, what are the existing limitations. Identify the technical challenges and barriers and how your project will address this/these.

i Describe the positive advancement based on your activity and how your project goes beyond the state-of-the-art. Whenever possible, quantify the aspects involved.

Text style to be used.

2.2 Envisioned scenario

i Describe how you will reach the envisioned scenario. Explain the adopted technology for the application of the use case and comparison with state-of-the-art. You can indicate:

- How will the solution approach the selected industrial sector?
- What is the business case for this solution? What business needs and opportunities does it address?
- Briefly explain your project's alignment with ROB4GREEN objectives and technologies and how it contributes to the ROB4GREEN project's scope.
- What is the current TRL of your proposal? Justify the current TRL.
- Your previous experience relevant to this solution
- Technical plan to achieve TRL 7, technical milestones (you can include them in Table 3)
- Describe how research data will be managed.
- Explain the European dimension of your project.

Text style to be used.

2.3 Technical approach





i *Describe your technical approach including the overall robotics systems description, identification of the technologies required to be integrated/developed (including the ROB4GREEN component(s) you have chosen), description of human interactions, robot sensors, processing, operating systems, system flow, development environment, deployment environment, relevant operational characteristics, the applicable standards to be used and/or updated, data to be captured for decision support systems, validation methodologies.*

i *Specify the technological priority areas that your solution touches for the selected challenge. Examples for priority areas are shared in Annex 2, section 3.2 within the challenge tables (i.e., In this direction, applicants should propose solutions for: ...)*

i *Identify the ROB4GRREN technical components that you will use. Please refer to Annex 2 ROB4GREEN Technical Description Section 4.2.*

https://rob4green-project.eu/wp-content/uploads/2026/01/Annex-2_ROB4GREEN-Technical-Description.pdf

i *Applicants are expected to demonstrate and evaluate their use cases. Describe your anticipated validation plan, including the scenarios for validation and the evaluation criteria.*

Text style to be used.

2.4 Visual description

i *Include a scheme(s)/image(s)/figure(s) supporting the description of your anticipated work to be performed.*

Text style to be used.





3 IMPACT

i NOTE: MAXIMUM OF 3 PAGES

3.1 Expected outcomes and impacts

i What are the project outcomes (should be clear, measurable, and realistic)? Justify these outcomes and explain how they will generate added value with respect to ROB4GREEN vision and objectives.

- What will change thanks to your solution/demonstrator? What are the longer-term goals and how will a successful implementation of this demonstrator project lead to there?
- Describe the expected benefits for your organisation(s), for ROB4GREEN, and for other stakeholders involved.
- Define the potential socio-economic impact of your solution.
- Define the potential environmental impact of your solution.
- Describe the market potential of your solution.
- Describe your strategy for commercialisation and the potential for scalability of the solution/demonstrator.
- Describe any anticipated IP that you will generate in the frame of ROB4GREEN.

Text style to be used.

3.2 KPIs

i Please identify the KPIs that will be used to monitor your project performance.

Table 2. List of KPIs related to ROB4GREEN project

List of relevant KPIs related to ROB4GREEN impact	Value at the end of the pilot implementation
<u>Universal indicators:</u>	
KPI 1: Successful demonstration of the use case in the selected challenge at TRL7.	
KPI 2: Number of ROB4GREEN tools utilized (1 or 2).	
KPI 3: Energy/material savings thanks to AI & robotics by 50%.	
<u>Select x2 of the following:</u>	
KPI-O1: Reduction of Greenhouse Gas (GHG) emissions by 10%.	
KPI-O2: Ratio of tasks performed by AI enhanced robotic solutions over tasks by human by more than 5% ⁴ .	
KPI-O3: Reduction of energy during the pretreatment process by 20%.	
KPI-O4: For composites, reduction of energy during the pretreatment process by 20% and time for the segregation/preprocessing by 30%.	
<u>Extra KPIs per challenge:</u>	
Extra KPI for challenge #2:	

⁴ e.g., 53% robotised- vs 47% manual- tasks, or better





KPI-Ch1: materials savings increase by 15%.	
Extra KPI for challenge #3: KPI-Ch2: accurate detection of components more than 90%.	
Extra KPI for challenge #4: KPI-Ch4: Reduction of unwanted materials around 5% to 6%.	

 *add rows as needed*

 *non used KPI rows to be deleted*

Table 3. List of external pilot specific KPIs

List of relevant KPIs	Value at the end of the pilot implementation

 *add rows as needed*

Table 4. List of Dissemination KPIs

List of relevant KPIs	Value at the end of the pilot implementation
KPI 1: 1 Minimum 1 public announcement of the scope of the project (e.g., via Social Media (SM) (Sprint 1).	
KPI 2: Minimum 1 prototype video demonstration at TRL 6 or above (Sprint 2).	
KPI 3: Minimum 1 solution video demonstration at TRL7 (Sprint 3).	
KPI 4: Minimum 3 social media posts per each Sprint	
KPI 5: Minimum 200 interactions (likes, shares, comments) across all posts during the programme.	
KPI 6: One blog post for ROB4GREEN website per Sprint.	

 *add rows as needed*

Text style to be used.

3.3 Gender dimension/accessibility/inclusion

 *Describe the potential of your proposed solution regarding these aspects. Describe how the gender/inclusion and accessibility dimensions are considered in your project.*

Text style to be used.



4 IMPLEMENTATION

i NOTE: MAXIMUM OF 5 PAGES

4.1 Team skills & expertise

Text style to be used.

i Describe the team involved in the project in the table below. Please enter the details of the persons who are expected to be involved in the project implementation. In case of a single entity application, remove the sections for organisations #2 and #3.

Table 5: Proposed team

Entity	Name of the person	Role in the project	LinkedIn profile or equivalent	Gender

i Add lines as required

i Below please provide a short summary of the relevant experience of each team member. When appropriate, include previous project references pertinent to the proposal, products, publications, participation in conferences, collaborations, community projects, etc.

Organization #1 (consortium leader)

i Please describe the competences of the organization and in particular the team that will develop and deploy the use case in accordance with the described plan. Include:

- Company profile and main expertise/products/services if relevant
- Business and technical competences
- Competences adequate to the expected role
- Participating team members competences / skills

Text style to be used.

Organization #2 (End User)

i Please describe the role of the entity in the consortium and the team of experts that will represent this partner. Include:

- Company profile and main expertise/products/services if relevant,
- Business and technical competences
- Competences adequate to the expected role
- Participating team members competences / skills





i Additionally, explain the value of the overall consortium (when applicable) and how you will be structured as a team. Identify synergies, trans-disciplinary competences, cross-border dimension if it exists.

Text style to be used.

Organization #3 (consortium member, if applicable)

i Please describe the role of the entity in the consortium and the team of experts that will represent this partner. Include:

- Company profile and main expertise/products/services if relevant,
- Business and technical competences
- Competences adequate to the expected role
- Participating team members competences/ skills

i Additionally, explain the value of the overall consortium (when applicable) and how you will be structured as a team. Identify synergies, trans-disciplinary competences, cross-border dimension if it exists.

Text style to be used.

4.2 Planning

i Describe the activities that will take place in your project from the technical point of view. Break down your work into each of the 3 phases (1-Requirements; 2- Development & Deployment; 3- Validation), list tasks and provide timing of the different activities and components. This section should answer the question “how are we going to implement the project to reach the defined objectives?”

Table 6: Project plan Phase 1 Requirements

Description: <i>The main aim of this phase....</i>
Task 1.1. Name of task 1.1 Period of execution: M=month (Mx-Mx): Clear objective of the task: Clear description of the task: (if consortium) Contribution to the task by each organisation: Expected outcome(s):
Task 1.2. Name of task 1.2 Period of execution: M=month (Mx-Mx): Clear objective of the task:





Clear description of the task:

(if consortium) Contribution to the task by each organisation:

Expected outcome(s):

 [Add more tasks as needed](#)

Table 7: Project plan Phase 2 Development & Deployment

Description:

The main aim of this phase....

Task 2.1. Name of task 2.1

Period of execution: M=month (Mx-Mx):

Clear objective of the task:

Clear description of the task:

(if consortium) Contribution to the task by each organisation:

Expected outcome(s):

Task 2.2. Name of task 2.2

Period of execution: M=month (Mx-Mx):

Clear objective of the task:

Clear description of the task:

(if consortium) Contribution to the task by each organisation:

Expected outcome(s):

 [Add more tasks as needed](#)

Table 8: Project plan Phase 3 – VALIDATION

Description:

The main aim of this phase is....

Task 3.1 Name of task 3.1

Period of execution: M=month (Mx-Mx):

Clear objective of the task:

Clear description of the task:

(if consortium) Contribution to the task by each organisation:

Expected outcome(s):

 [Add more tasks as needed](#)





4.3 Total budget

4.3.1 Number of person-months (full-time equivalent) of people involved in the project for the full 10 months of the project

Please provide the information in the table below. A PM is a metric for expressing the effort of a person dedicated full time in one month:

Table 9: Person-Months & personnel costs

Entity	Name of the person	Person-months (PM)	Monthly rate in EUR (MR) (Actual cost only)	Direct personnel costs (PMxMR)
Total				

Add lines as needed.

4.3.2 Expected costs

Provide the information in the table below.

Table 10: Total budget (in EUR)

Budget line	Amount (€)			
	Entity 1	Entity 2	Entity 3 (if applicable)	Total
Direct personnel costs (a)				
Costs of equipment (b) (*)				
Travel and subsistence (c)				
Other direct cost (d)				
Indirect costs (0,25 x (a + b + c + d))				
Total				

(*) Only depreciation costs are eligible

For travelling costs, consider costs for the representation of your project to physical dissemination events organized or associated to ROB4GREEN.

The maximum total budget for any proposal is 300,000 EUR.

The maximum total budget for each entity is 200,000 EUR.



5 ANNEX: ETHICS SELF-ASSESSMENT

5.1 Ethical Issues Table - Checklist to be completed.

Important note: If you have indicated any issues in the checklist, please bear in mind that additional information will be requested if the proposal is shortlisted for funding.

For more information, please review the relevant sections of the following document: https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/guidance/how-to-complete-your-ethics-self-assessment_en.pdf

Table 10: Ethics issues checklist - Artificial Intelligence

Artificial intelligence	YES	No
Does your activity already involve the development, deployment and/or use of Artificial Intelligence-based systems?	☐	☐
Could the AI system/technique potentially stigmatise or discriminate against people (e.g. based on sex, race, ethnic or social origin, age, genetic features, disability, sexual orientation, language, religion or belief, membership to a political group, or membership to a national minority)?	☐	☐
Does the AI system/technique interact, replace or influence human decision-making processes (e.g. issues affecting human life, health, well-being or human rights, or economic, social or political decisions)?	☐	☐
Does the AI system/technique have the potential to lead to negative social (e.g. on democracy, media, labour market, freedoms, educational choices, mass surveillance) and/or environmental impacts either through intended applications or plausible alternative uses?	☐	☐
If Yes, please specify (max 1000 characters):  <i>Insert your response here</i>		

Table 11: Ethics issues checklist - Personal data

Protection of personal data			Yes	No
Does your activity involve processing of personal data?			☐	☐
If YES	Does it involve the processing of sensitive personal data (e.g. sexual lifestyle, ethnicity, genetic, biometric and health data, political opinion, religious or philosophical beliefs)?		☐	☐
	If yes	Does it involve processing of genetic, biometric or health data	☐	☐
	Does it involve profiling, systematic monitoring of individuals, or processing of large scale of special categories of data or intrusive methods of data processing (such as surveillance, geolocation tracking etc.)		☐	☐



Does your activity involve further processing of previously collected personal data (including use of pre-existing data sets or sources, merging existing data sets)?	☐	☐
Is it planned to export personal data (data transfer) from the EU to non-EU countries?	☐	☐
Is it planned to import personal data (data transfer) from non-EU countries into the EU or from a non-EU country to another non-EU country?	☐	☐
Does your activity involve the processing of personal data related to criminal convictions or offences?	☐	☐
If Yes, please specify (max 1000 characters):  Insert your response here		

Table 12: Ethics issues checklist - Environment, health and safety

Environment, health and safety	Yes	No
Does this activity involve the use of substances or processes that may cause harm to the environment, animals, or plants?	☐	☐
Does this activity deal with endangered fauna and/or flora / protected areas?	☐	☐
Does this activity involve the use of substances or processes (or technologies) that may cause harm to humans?	☐	☐
If Yes, please specify (max 1000 characters):  Insert your response here		

Table 13: Ethics issues checklist - Humans

Humans		YES	NO
Does your activity involve human participants?		☐	☐
If YES	Are they volunteers?	☐	☐
	Are they healthy volunteers for medical studies?	☐	☐
Are they medical patients involved in medical studies?		☐	☐
Are they potentially vulnerable individuals or groups?		☐	☐
Are they children/minors?		☐	☐



Are there other persons unable to give informed consent?	☐	☐
If Yes, please specify (max 1000 characters): <i>i Insert your response here</i>		

Table 14: Ethics issues checklist - Human embryonic stem cells and human embryos

Human embryonic stem cells and human embryos	YES	NO
Does your activity involve Human Embryonic Stem Cells (hESCs)?	☐	☐
If Yes, please specify (max 1000 characters): 		

Table 15: Ethics issues checklist - Human cells / tissues

Human cells / tissues	YES	NO
Does your activity involve the use of human cells or tissues (other than those covered by section “Human embryonic stem cells and human embryos”)?	☐	☐
If YES:	Are they available commercially?	☐
	Are they obtained from a biobank?	☐
If Yes, please specify (max 1000 characters): <i>i Insert your response here</i>		

Table 16: Ethics issues checklist - Animals

Animals	YES	NO
Does your activity involve animals?	☐	☐
If YES:	Are they vertebrates?	☐
	Are they non-human primates (NHP) (e.g. monkeys, chimpanzees, gorillas, etc.)?	☐
	Are they genetically modified?	☐
	Are they cloned farm animals?	☐





☐	Are they an endangered species?	☐	☐
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Table 17: Ethics issues checklist - Third countries

Third countries	YES	NO
Will some of the activities be carried out in non-EU countries?	☐	☐
If Yes, please specify (max 1000 characters): <i> Insert your response here</i>		





5.2 Security

Please complete the security assessment below. For more information: https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/guidance/how-to-handle-security-sensitive-projects_en.pdf

Table 18: Security issues

EU classified information (EUCI)	YES	NO
Does the activity involve information and/or materials requiring protection against unauthorised disclosure (EUCI)? If Yes, please specify (max 1000 characters): <i>i</i> Insert your response here	☐	☐
Misuse		
Does the activity have the potential for misuse of results? If Yes, please specify (max 1000 characters): <i>i</i> Insert your response here	☐	☐
Other security issues		
Does the activity involve information and/or materials subject to national security restrictions? If Yes, please specify (max 1000 characters): <i>i</i> Insert your response here	☐	☐
Are there any other security issues that should be taken into consideration? If Yes, please specify (max 1000 characters): <i>i</i> Insert your response here	☐	☐





ROB4GREEN

Robotics and AI as Enablers for Greener Dismantling, Remanufacturing and Recycling

-ROB4GREEN-

**HORIZON-CL4-2024-DIGITAL-EMERGING-01-04 – Industrial leadership in AI, Data and Robotics
boosting competitiveness and the green transition (AI Data and Robotics Partnership) (IA)**

Grant Agreement No. 101189665

Annex 5: ROB4GREEN Consortium Declaration of Honor

(Co-)Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Commission. Neither the European Union nor the granting authority can be held responsible for them.



This project has received funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement No. **101189665**.



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1 CONSORTIUM DECLARATION OF HONOUR

Proposal Title:

Proposal Acronym:

BETWEEN

[Redacted] [Company/ organisation name] established in [Redacted], [Official address], VAT number [Redacted], represented for the purposes of signing and submitting the proposal and the Consortium Declaration of Honour by [Redacted] [Name of legal representative];

AND

[Redacted] [Company/ organisation name] established in [Redacted], [Official address], VAT number [Redacted], represented for the purposes of signing and submitting the proposal and the Consortium Declaration of Honour by [Redacted] [Name of legal representative];

AND [remove block below if only two entities participate in the consortium]

[Redacted] [Company/ organisation name] established in [Redacted], [Official address], VAT number [Redacted], represented for the purposes of signing and submitting the proposal and the Consortium Declaration of Honour by [Redacted] [Name of legal representative];

It is hereby agreed that:

- All information provided is true and legally binding.
- Partner [Redacted] [Consortium leader name] is acting on behalf the following partner(s) as the consortium leader:
 - Partner 2: [Redacted] [Company/ organisation name]
[remove block below – Partner 3 – and this text if only two entities participate in the consortium]
 - Partner 3: [Redacted] [Company/ organisation name]
- The consortium entities have agreed on their roles and budget shares.
- The consortium leader is solely responsible for distributing the budget shares to the other consortium partners in accordance with this Consortium Declaration of Honour.
- The Rob4Green consortium bears no responsibility in case a partner of this project consortium violates the mutual agreement set in this Consortium Declaration of Honour.
- The Rob4Green consortium bears no responsibility in the case of dispute among consortium partners regarding intellectual property rights.
- By signing this Consortium Declaration of Honour, all consortium partners declare that they – individually or as a consortium – may have up to **one** proposal evaluated under Rob4Green Open call 1, and it is the





one that was first submitted in the system. Any entity, applying solely or as part of a consortium, may only be funded for one project.

- By signing this Consortium Declaration of Honour, all consortium partners hereby declare that should any applicant be associated with more than one successful proposals, the proposal with the lowest score shall be subject to automatic rejection. A lower-scoring proposal may only be considered for selection in exceptional circumstances where the quality of applications on the reserve list is insufficient to maintain the required number of funded projects per challenge, thereby preventing a significant programmatic imbalance.
- By signing and submitting this Consortium Declaration of Honour, the consortium partners accept all the rules explained in “ Open Call 1 Guidelines for Applicants”.
- All partners declare not being in one of the following situations:
 - a) it is bankrupt or being wound up, is having its affairs administered by the courts, has entered into an arrangement with creditors, has suspended business activities, is the subject of proceedings concerning those matters, or is in any analogous situation arising from a similar procedure provided for in national legislation or regulations;
 - b) it or persons having powers of representation, decision making or control over it have been convicted of an offence concerning their professional conduct by a judgment which has the force of res judicata;
 - c) it has been guilty of grave professional misconduct proven by any means which the contracting authority can justify including by decisions of the European Investment Bank and international organizations;
 - d) it is not in compliance with its obligations relating to the payment of social security contributions or the payment of taxes in accordance with the legal provisions of the country in which it is established or with those of the country of the contracting authority or those of the country where the contract is to be performed;
 - e) it or persons having powers of representation, decision making or control over it have been the subject of a judgment which has the force of res judicata for fraud, corruption, involvement in a criminal organization or any other illegal activity, where such illegal activity is detrimental to the Union’s financial interests;
 - f) is subject to an administrative penalty for being guilty of misrepresenting the information required by the contracting authority as a condition of participation in a grant award procedure or another procurement procedure or failing to supply this information or having been declared to be in serious breach of its obligations under contracts or grants covered by the Union's budget.
- Each partner declares that:
 - g) is not subject to a conflict of interest;
 - h) has not made false declarations in supplying the information required by the as a condition of participation in the Open Call 1 or does not fail to supply this information;
 - i) is not in one of the situations of exclusion, referred to in the abovementioned points a) to f).
 - j) Is aware and fully accepts all Rob4Green conditions and rules as expressed in Rob4Green open call documents Annex 1, Annex 2 and Annex 7.
- Each partner certifies that:
 - is committed to participate in the abovementioned project;
 - has stable and sufficient sources of funding to maintain its activity throughout its participation in the above-mentioned project and to provide any counterpart funding necessary;
 - has or will have the necessary resources as and when needed to carry out its involvement in the above-mentioned project.
 - the Coordinator shall not be held liable for any delays or failure in the transfer of the Financial Contribution to the Third Party if such delays or failure are due to late payments, non-payment, or other actions or omissions by the Funding Authority or any causes beyond the Coordinator's control.



Consortium leader

Company/organisation name	
Full address	
Country	
Name of legal representative	
Position in the company/organisation	
Project budget share	_____ EUR
I have the power of legally binding the abovementioned company/organisation on submitting this proposal	
Legal representative signature and stamp (stamp if applicable)	
Done at (place)_____	
The (day)_____ (month)_____ (year)_____	





Consortium partner no. 2

Company/organisation name	
Full address	
Country	
Name of legal representative	
Position in the company/organisation	
Project budget share	_____ EUR
I have the power of legally binding the abovementioned company/organisation on submitting this proposal	
Legal representative signature and stamp (stamp if applicable)	
Done at (place)_____	
The (day)_____ (month)_____ (year)_____	





Consortium partner no. 3

Company/organisation name	
Full address	
Country	
Name of legal representative	
Position in the company/organisation	
Project budget share	_____ EUR
I have the power of legally binding the abovementioned company/organisation on submitting this proposal	
Legal representative signature and stamp (stamp if applicable)	
Done at (place)_____	
The (day)_____ (month)_____ (year)_____	





Robotics and AI as Enablers for Greener Dismantling, Remanufacturing and Recycling

-ROB4GREEN-

**HORIZON-CL4-2024-DIGITAL-EMERGING-01-04 – Industrial leadership in AI, Data and Robotics
boosting competitiveness and the green transition (AI Data and Robotics Partnership) (IA)**

Grant Agreement No. 101189665

Annex 6: SME Declaration

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1 INTRODUCTION

This document consists Annex 6 of the ROBRGREEN Open Call 1. As per “Guide for Applicants” this annex needs to be filled and uploaded during the application to comply with eligibility criteria. The following sections elaborate on the fields and rules applied.





2 DECLARATION ON INFORMATION ON SME QUALIFICATION

Specific identification of the applicant enterprise:

Name or Business Name	
Address (or Registered office)	
Registration/ VAT number	
Names and titles of principal directors	

Type of enterprise (see explanatory note)

Select to indicate which case(s) applies to the applicant enterprise:

- ☐ Autonomous enterprise In this case the data filled in the box below result from the accounts of the applicant enterprise only. Fill in the declaration only, without annex.
- ☐ Partner enterprise Fill in and attach the annex (and any additional sheets), then complete the declaration by copying the results of the calculations into the box below.
- ☐ Linked enterprise

Data used to determine the category of enterprise

Calculated according to Article 6 of the Annex to the Commission Recommendation 2003/361/EC on the SME definition.

Reference period (*)		
Headcount (AWU)	Annual turnover (**)	Balance sheet total (**)

(*) All data must be related to the last approved accounting period and calculated on an annual basis. In the case of newly established enterprises whose accounts have not yet been approved, the data to apply shall be derived from a reliable estimate made over the financial year.

(**) EUR 1 000.

Important:

Compared to the previous accounting period, there is a change regarding the data, which could result in a change of category of the applicant enterprise (micro, small, medium-sized, or big enterprise).

☐ No

☐ Yes (in this case fill in and attach a declaration regarding the previous accounting period).

Signature

Name and position of the signatory, being authorised to represent the enterprise:

--

I declare on my honour the accuracy of this declaration and of any annexes thereto.

Done at: (place) on (day) (month) (year)

Signature:

--



3 EXPLANATORY NOTE ON THE TYPES OF ENTERPRISES

This section is an explanatory note on the types of enterprises taken into account for calculating the headcount and the financial amounts.

3.1 Types Of Enterprises

The definition of an SME¹ distinguishes three types of enterprise, according to their relationship with other enterprises in terms of holdings of capital or voting rights or the right to exercise a dominant influence².

3.1.1 Type 1: Autonomous Enterprise

This is by far the most common type of enterprise. It applies to all enterprises which are not one of the two other types of enterprise (partner or linked). An applicant enterprise is autonomous if it:

- Does not have a holding of 25%³ or more in any other enterprise,
- And is not 25%³ or more owned by any enterprise or public body or jointly by several linked enterprises or public bodies, apart from some exceptions⁴,
- And does not draw up consolidated accounts and is not included in the accounts of an enterprise which draws up consolidated accounts and is thus not a linked enterprise⁵.

3.1.2 Type 2: Partner Enterprise

This type represents the situation of enterprises which establish major financial partnerships with other enterprises, without the one exercising effective direct or indirect control over the other. Partners are enterprises which are not autonomous, but which are not linked to one another.

The applicant enterprise is a partner of another enterprise if:

¹ Henceforth, the term "Definition" refers to the Annex to Commission Recommendation 2003/361/EC on the definition of SMEs.

² Definition, Article 3

³ In terms of the share of the capital or voting rights, whichever is higher is applied. To this percentage should be added the holding in that same enterprise of each enterprise that is linked to the holding company (Definition, Article 3 paragraph 2)

⁴ An enterprise may continue being considered as autonomous when this 25% threshold is reached or exceeded, if that percentage is held by the following categories of investors (provided that those are not linked with the applicant enterprise):

- a) public investment corporations, venture capital companies, individuals or groups of individuals with a regular venture capital investment activity who invest equity capital in unquoted businesses ("business angels"), provided the total investment of those business angels in the same enterprise is less than EUR 1 250 000,
- b) universities or non-profit research centres,
- c) institutional investors, including regional development funds,
- d) autonomous local authorities with an annual budget of less than EUR 10 million and less than 5000 inhabitants.

(Definition, Article 3 paragraph 2, second sub-paragraph)

⁵ - If the registered office of the enterprise is situated in a Member State which has provided for an exception to the requirement to draw up such accounts pursuant to the Seventh Council Directive 83/349/EEC of 13 June 1983, the enterprise should nevertheless check specifically whether it does not meet one or other of the conditions laid down in Article 3 paragraph 3 of the Definition.

- There are also some very rare cases in which an enterprise may be considered linked to another enterprise through a person or a group of natural persons acting jointly (Definition, Article 3 paragraph 3).

- Conversely, there are very few cases of enterprises drawing up consolidated accounts voluntarily, without being required to do so under the Seventh Directive. In that case, the enterprise is not necessarily linked and can consider itself only a partner.

To determine whether the enterprise is linked or not, in each of the three situations it should be checked whether or not the enterprise meets one or other of the conditions laid down in Article 3 paragraph 3 of the Definition, where applicable through a natural person or group of natural persons acting jointly.



- It has a holding or voting rights equal to or greater than 25% in the other enterprise, or the other enterprise has a holding or voting rights equal to or greater than 25% in the applicant enterprise.
- The enterprises are not linked enterprises within the meaning defined below, which means, among other things, that the voting rights of one in the other do not exceed 50%.
- And the applicant enterprise does not draw up consolidated accounts which include the other enterprise by consolidation and is not included by consolidation in the accounts of the other enterprise or of an enterprise linked to it⁵.

3.1.3 Type 3: Linked Enterprise

This type corresponds to the economic situation of enterprises which form a group through the direct or indirect control of most of the voting rights (including through agreements or, in certain cases, through natural persons as shareholders), or through the ability to exercise a dominant influence on an enterprise. Such cases are thus less frequent than the two preceding types.

To avoid difficulties of interpretation for enterprises, the EC has defined this type of enterprise by taking over – wherever they are suitable for the purposes of the Definition – the conditions set out in Article 1 of Council Directive 83/349/EEC on consolidated accounts⁶, which has been applied for many years.

An enterprise thus generally knows immediately that it is linked, since it is already required under that Directive to draw up consolidated accounts or is included by consolidation in the accounts of an enterprise which is required to draw up such consolidated accounts.

The only two cases, which are however not very frequent, in which an enterprise can be considered linked although it is not already required to draw up consolidated accounts, are described in the first two indents of endnote 5 of this explanatory note. In those cases, the enterprise should check whether it meets one or other of the conditions set out in Article 3 paragraph 3 of the Definition.

3.2 The Headcount and the Annual Work Units⁷

The headcount of an enterprise corresponds to the number of annual work units (AWU).

Who is included in the headcount?

- The employees of the applicant enterprise
- persons working for the enterprise being subordinate to it and considered to be employees under national law
- owner-managers
- partners engaging in a regular activity in the enterprise and benefiting from financial advantages from the enterprise.

Apprentices or students engaged in vocational training with an apprenticeship or vocational training contract are not considered in the headcount.

How is the headcount calculated?

One AWU corresponds to one person who worked full-time in the enterprise in question or on its behalf during the entire reference year. The headcount is expressed in AWUs.

The work of persons, who did not work the entire year, or who worked part-time - regardless of its duration - and seasonal work is counted as fractions of AWU.

⁶ Seventh Council Directive 83/349/EEC of 13 June 1983, based on Article 54(3)(g) of the Treaty and concerning consolidated accounts (OJ L 193 of 18.7.1983, p. 1), as last amended by Directive 2001/65/EC of the European Parliament and of the Council (OJ L 283 of 27.10.2001, p. 28).

⁷ Definition, Article 5.





The duration of maternity or parental leaves is not counted.

4 ANNEX TO THE DECLARATION CALCULATION FOR THE PARTNER OR LINKED TYPE OF ENTERPRISE

Annexes to be enclosed if necessary

- **Annex A** if the applicant enterprise has at least one partner enterprise (and any additional sheets)
- **Annex B** if the applicant enterprise has at least one linked enterprise (and any additional sheets)

Calculation for the partner or linked type of enterprise⁸ (see explanatory note)

Reference period ⁹ :			
	Headcount (AWU)	Annual turnover (*)	Balance sheet total (*)
1. Data ⁹ of the applicant enterprise or consolidated accounts (copy data from box B(1) in annex B ¹⁰)			
2. Proportionally aggregated data ⁹ of all partner enterprises (if any) (copy data from box A in annex A)			
3. Added up data ⁹ of all linked enterprises (if any) – if not included by consolidation in line 1 (copy data from box B(2) in annex B)			
Total			
(*) EUR 1 000.			

Please note: The data entered in the "Total" row of the above table should be entered in the box "Data used to determine the category of enterprise" in the declaration.

⁸ Definition, Article 6 paragraphs 2 and 3

⁹ All data must be relating to the last approved accounting period and calculated on an annual basis. In the case of newly-established enterprises whose accounts have not yet been approved, the data to apply shall be derived from a reliable estimate made in the course of the financial year (Definition, Article 4).

¹⁰ The data of the enterprise, including the headcount, are determined on the basis of the accounts and other data of the enterprise or, where they exist, the consolidated accounts of the enterprise, or the consolidated accounts in which the enterprise is included through consolidation.





ANNEX A – PARTNER ENTERPRISES

For each enterprise for which a 'partnership sheet' has been completed (one sheet for each partner enterprise of the applicant enterprise and for any partner enterprises of any linked enterprise, of which the data is not yet included in the consolidated accounts of that linked enterprise), the data in the 'partnership box' in question should be entered in the summary table below:

BOX A

Partner enterprise (name / identification)	Headcount (AWU)	Annual turnover (*)	Balance sheet total (*)
1.			
2.			
3.			
4.			
5.			
6.			
7.			
Total			
(*) EUR 1 000.			

(attach sheets or expand the present table, if necessary)

Reminder:

This data is the result of a proportional calculation done on the 'partnership sheet' for each direct or indirect partner enterprise.

The data entered in the "Total" row of the above table should be entered in line 2 (regarding partner enterprises) of the table in the Annex to the declaration.





PARTNERSHIP SHEET

1. Specific identification of the applicant enterprise

Name or Business Name	
Address (or Registered office)	
Registration/ VAT number ¹¹	
Names and titles of principal directors ¹²	

2. Raw data regarding that partner enterprise

Reference period			
	Headcount (AWU)	Annual turnover (*)	Balance sheet total (*)
Raw data			
(*) EUR 1 000.			

Reminder: These raw data are derived from the accounts and other data of the partner enterprise, consolidated if they exist. To those are added 100% of the data of enterprises which are linked to this partner enterprise, unless the accounts data of those linked enterprises are already included through consolidation in the accounts of the partner enterprise¹³. If necessary, add "linkage sheets" for the enterprises which are not yet included through consolidation.

3. Proportional calculation

- a) Precisely indicate the holding¹⁴ of the enterprise drawing up the declaration (or of the linked enterprise via which the relation to the partner enterprise is established) in the partner enterprise to which this sheet relates:

Also indicate the holding of the partner enterprise to which this sheet relates in the enterprise drawing up the declaration (or in the linked enterprise):

- b) The higher of these two holding percentages should be applied to the raw data entered in the previous box. The results of this proportional calculation should be given in the following table:

'Partnership box'			
Percentage:	Headcount (AWU)	Annual turnover (*)	Balance sheet total (*)
Proportional results			
(*) EUR 1 000.			

These data should be entered in Box A in Annex A.

¹¹ To be determined by the Member State according to its needs

¹² Chairman (CEO), Director-General or equivalent.

¹³ Definition, Article 6 paragraph 3, first sub-paragraph

¹⁴ In terms of the share of the capital or voting rights, whichever is higher. To this holding should be added the holding of each linked enterprise in the same enterprise (Definition, Article 3 paragraph 2 first sub-paragraph).





5 ANNEX B – LINKED ENTERPRISES

DETERMINE THE CASE APPLICABLE TO THE APPLICANT ENTERPRISE:

☐ **Case 1:** The applicant enterprise draws up consolidated accounts or is included by consolidation in the consolidated accounts of another enterprise. (Box B(1))

☐ **Case 2:** The applicant enterprise or one or more of the linked enterprises do not establish consolidated accounts or are not included in the consolidated accounts. (Box B(2)).

Please note: The data of the enterprises, which are linked to the applicant enterprise, are derived from their accounts and their other data, consolidated if they exist. To them are aggregated proportionally the data of any possible partner enterprise of that linked enterprise, situated immediately upstream or downstream from it, unless it has already been included through consolidation¹⁵.

CALCULATION METHODS FOR EACH CASE:

In case 1: The consolidated accounts serve as the basis for the calculation. Fill in Box B(1) below.

Box B(1)			
	Headcount (*)	Annual turnover (**)	Balance sheet total (**)
Total			

(*) Where in the consolidated accounts no headcount data appears, the calculation of it is done by adding the data from the enterprises to which the enterprise in question is linked.

(**) EUR 1 000.

The data entered in the "Total" row of the above table should be entered in line 1 of the table in the Annex to the declaration.

Identification of the enterprises included through consolidation			
Linked enterprise (name / identification)	Address (of registered office)	Registration / VAT number (*)	Names and titles of the principal director(s) (**)
1.			
2.			
3.			
4.			
5.			
6.			
7.			
Total			

(*) To be determined by the Member State according to its needs

(**) Chairman (CEO), Director-General or equivalent.

¹⁵ Definition, Article 6 paragraph 3, second sub-paragraph





Important: Partner enterprises of such a linked enterprise, which are not yet included through consolidation, are treated like direct partners of the applicant enterprise. Their data and a 'partnership sheet' should therefore be added in Annex A.

In case 2: For each linked enterprise (including links via other linked enterprises), complete a "linkage sheet" and simply add together the accounts of all the linked enterprises by filling in Box B(2) below.

Box B(2)			
Enterprise No.:	Headcount (AWU)	Annual turnover (**)	Balance sheet total (**)
1. (*)			
2. (*)			
3. (*)			
Total			

(*) attach one "linkage sheet" per enterprise

(**) EUR 1 000.

The data entered in the "Total" row of the above table should be entered in line 3 (regarding linked enterprises) of the table in the Annex to the declaration.





LINKAGE SHEET

(only for linked enterprises not included by consolidation in Box B)

1. Precise identification of the applicant enterprise

Name or Business Name	
Address (or Registered office)	
Registration/ VAT number ¹⁶	
Names and titles of principal directors ¹⁷	

2. Data on enterprise

Reference period			
	Headcount (AWU)	Annual turnover (*)	Balance sheet total (*)
Total			
(*) EUR 1 000.			

These data should be entered in Box B(2) in Annex B.

Important: The data of the enterprises, which are linked to the applicant enterprise, are derived from their accounts and their other data, consolidated if they exist. To them are aggregated proportionally the data of any possible partner enterprise of that linked enterprise, situated immediately upstream or downstream from it, unless it has already been included through consolidation¹⁸.

Such partner enterprises are treated like direct partner enterprises of the applicant enterprise. Their data and a 'partnership sheet' have therefore to be added in Annex A.

¹⁶ To be determined by the Member State according to its needs

¹⁷ Chairman (CEO), Director-General or equivalent.

¹⁸ If the data of an enterprise are included in the consolidated accounts to a lesser proportion than the one determined under Article 6 paragraph 2, the percentage rate according to that article should be applied (Definition, Article 6 paragraph 3, second sub-paragraph).



ROB4GREEN

Robotics and AI as Enablers for Greener Dismantling, Remanufacturing and Recycling

-ROB4GREEN-

**HORIZON-CL4-2024-DIGITAL-EMERGING-01-04 – Industrial leadership in AI, Data and Robotics
boosting competitiveness and the green transition (AI Data and Robotics Partnership) (IA)**

Grant Agreement No. 101189665

Annex 7: ROB4GREEN Sub-Grant Agreement

(Co-)Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Commission. Neither the European Union nor the granting authority can be held responsible for them.



This project has received funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement No. **101189665**.



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This Funding Agreement for providing Financial Support to the selected Third Parties, hereinafter the "**Third Party Agreement**", shall enter into force on the day of its signature by the last contracting Party.

BETWEEN:

- UNIVERSITY OF PATRAS - Special Account for Research Funds, based at the University Campus, Building A, Rio, Patras, 26500 (VAT 998219694, Tax Office of Patras) legally represented for the signature hereof by [Legal Representative], [Legal Representative Position].
- Laboratory for Manufacturing Systems and Automation (LMS), Department of Mechanical Engineering and Aeronautics, University of Patras, [Scientific Coordinator of the project], Scientific Coordinator of the project.

Hereinafter referred to as the "the Coordinator".

and

- [COMPANY NAME] with VAT NUMBER: [XXXXXX], established in [STREET, CITY, COUNTRY], legally represented for the signature hereof by [NAME, SURNAME, POSITION IN THE ORGANISATION].
- [COMPANY NAME] with VAT NUMBER: [XXXXXX], established in [STREET, CITY, COUNTRY], legally represented for the signature hereof by [NAME, SURNAME, POSITION IN THE ORGANISATION].
- [COMPANY NAME] with VAT NUMBER: [XXXXXX], established in [STREET, CITY, COUNTRY], legally represented for the signature hereof by [NAME, SURNAME, POSITION IN THE ORGANISATION].

The first entity mentioned above shall be hereinafter referred to as "**Third Party 1**" (Pilot Leader), and all **two / three** entities collectively shall be referred to as the "**Third Parties**".

In addition, hereinafter all contracting parties of this Agreement jointly or individually, referred to as "**Parties**" or "**Party**";

WHEREAS:

The Coordinator together with other beneficiaries has been awarded a Grant by the European Commission (Funding Authority), Grant Agreement no. 101189665 entitled "**ROB4GREEN**", hereinafter referred to as the "**Grant Agreement**".

The Grant Agreement states that third parties will be selected and financially supported to perform the activities described in their proposal¹⁰.

The Coordinator will provide financial support to the Third Parties according to the provisions of the Grant Agreement for the Third Party's to perform the activities described in their proposal.

The Coordinator will sign this contract only after all the following documents have been received from the Third Party:

- The original signed Declaration of Honour (as provided in the open call's **Annex 5**).
- SMEs Declaration form (as provided in the open call's **Annex 6**).

All documents, properly signed and stamped (if applicable), shall be sent to the Coordinator, to the following e-mail: **oc@rob4green-project.eu**.

The Third Party is requested to send all requested documents in a single e-mail and with adequate identification (e-mail subject): **ROB4GREEN 101189665- [Sub-project Acronym] documentation**.

All original should be sent to the following address:

Laboratory for Manufacturing Systems and Automation (LMS), Department of Mechanical Engineering and Aeronautics, University of Patras, Patras 26504, Greece.

NOW, THEREFORE, IT IS HEREBY AGREED AS FOLLOWS:





1 DEFINITIONS

Words beginning with a capital letter shall have the meaning defined either herein or in the Rules of Participation for Horizon Europe, including their respective Appendixes.





2 SUBJECT

- 2.1 The Third Party(ies) will perform the work as defined in this Third Party Agreement, the Technical Description (Annex 2), and the Guidelines for Applicants as proposed by the Third Party(ies) and finally agreed with the Coordinator.
- 2.2 The Third Party(ies) shall be responsible for ensuring that the activities are carried out and complies with generally accepted technical, scientific and professional standards, is undertaken by appropriate personnel and carried out in accordance with the schedule laid down in Article 3 and the financial provisions laid down in Article 4.
- 2.3 Each Third Party assumes all responsibility towards the Coordinator for all tasks contracted to it by this Third-Party Agreement and shall indemnify and hold harmless the Coordinator in case of breach of its obligations.
- 2.4 Each Third Party accepts the Terms and Conditions of the Grant Agreement insofar as they relate to the tasks which are contracted to it hereby. The principal Terms and Conditions of the Grant Agreement are attached as Appendix 3 to this Third Party Agreement.
- 2.5 The Third Party 1 acknowledges that the final version of the project plan, to be submitted as **Deliverable D1.1 - Sprint 1 Project Plan & Requirements**, will reflect the outcome of Sprint 1 negotiations and shall constitute the definitive basis for the implementation of the Action under this Agreement.
- 2.6 The Third Party 1 acknowledges that it is responsible for the preparation and timely submission of Deliverable **D3.1 - Post-Project Exploitation Strategy**, which shall define the intended use, protection, and exploitation of the results generated during the Action. This deliverable shall include provisions for intellectual property rights management, ownership of results, access rights, and future exploitation pathways. The deliverable shall be aligned with the terms of the Grant Agreement and submitted to the Coordinator for review and integration into the overall project reporting.

Co-funded by the European Union

Grant agreement n 101189665





3 DURATION

- 3.1 This Third Party Agreement will be effective from the Effective Date first mentioned above and will be terminated upon finalizing the work described herein or upon completion of the ROB4GREEN project, whichever comes first. Should the end date of the ROB4GREEN project be amended, this Third-Party Agreement shall be deemed automatically changed accordingly. The Third Party(ies) shall commence to perform their activities according to Appendix 1 of this document on 01.06.2026 and shall have completed it according to the plan laid out in Appendix 1, and in any case before the end date of ROB4GREEN (31.12.2028 at the time of signing this agreement). By that date, all results and reports shall have been delivered to the coordinator.
- 3.2 Each Third Party shall notify the Coordinator in writing without undue delay if it becomes apparent that it might be unable to keep the schedule.
- 3.3 The Coordinator shall be entitled to terminate this Agreement with immediate effect through written notice to the Third Party:
- if the Third Party is in breach of any of its obligations under this Third Party Agreement, whereas the breach is not remediable, or, if remediable, has not been remedied within thirty (30) days after written notice to that effect from the Coordinator;
 - if, to the extent permitted by law, the Third Party is declared bankrupt, is being wound up, is having its affairs administered by the courts, has entered into an arrangement with its creditors, has suspended business activities, or is the subject of any other similar proceeding concerning those matters;
 - if the Third Party is subject to an event of Force Majeure (in accordance with how that term is defined under Article 35 of the Grant Agreement), which prevents the Third Party from correct performance of its obligations hereunder and such circumstances have lasted, or can reasonably be expected to last more than six (6) weeks.





4 FINANCIAL PROVISIONS

- 4.1 The maximum financial reimbursement to be granted to the Third Parties shall not exceed the amount of 300.000,00 €, which is the maximum contribution based on the rules in the Guidelines for Applicants (Annex 1 of the Open Call). The financial support will be paid to the Third Party(ies) in fixed lump sum instalments based to the successful completion of project milestones and deliverables, as evaluated by the ROB4GREEN consortium, according to the Guidelines for Applicants, as follows:

- 50% prefinancing, linked with Sprint 1 and Sprint 2.
- 50% after positive assessment of the M10 report deliverable and approval of the project outcomes, marking the completion of Sprint 3.

For each Sprint, before a payment can be processed, the Third Party(ies) must submit written documentation to the Coordinator, demonstrating the completion and proper implementation of the work described in Appendix 1. Each Third Party is individually responsible to comply with financial record keeping obligations outside the Grant Agreement (Appendix 3), if any (e.g., under national law or internal company procedures).

The Third Party is required to submit the corresponding deliverables and present its work in scheduled review meetings. The Third Party(ies) must submit the deliverable(s) corresponding to each stage no later than on the last day of the respective stage, allowing sufficient time for review by the ROB4GREEN evaluation team (2 weeks). A review meeting will be held between twenty (10) to thirty (30) calendar days after the end of each stage, during which the Third Party(ies) will present their work and address questions from the ROB4GREEN evaluation team. Evaluation will be based on the achievement of results including submitted deliverables and presented status of KPIs.

When more than one Third Party enters into this Agreement with the Coordinator, the lead applicant (Third Party 1) is responsible for submitting all the required documentation and payment requests on behalf of any other Third Parties in this agreement. Upon approval by the Coordinator, funding will be transferred in separate instalments to each Third Party.

Note: *A non-favourable review of the work carried out at the end of any stage may result in the early termination of the contract and cancelation of the prefinancing or suspension of payments if the Third Party fails to submit a revised version that meets the required approval.*

- 4.2 The Coordinator is entitled to withhold any payments due to a Third Party:
- a) identified by the Partners of the ROB4GREEN Consortium to be in breach of its obligations under this Agreement,
 - b) or who has not yet signed this Third Party Agreement.

The Coordinator is equally entitled to withhold payments to a Third Party when this is suggested by or agreed with the Funding Authority.

- 4.3 The Coordinator shall receive from the Funding Authority the lump sum contribution allocated to the Third Party, as approved in accordance with this Third-Party Agreement and the Grant Agreement (see Appendix 3), and shall transfer it to the Third Party's bank account as specified in Appendix 3.
- 4.4 The Coordinator shall not be held liable for any delays or failure in the transfer of the Financial Contribution to the Third Party if such delays or failure are due to late payments, non-payment, or other actions or omissions by the Funding Authority or any causes beyond the Coordinator's control.





5 ORGANIZATION AND PERFORMANCE OF THE WORK

5.1 Technical and Financial Responsibility

The Third Party(ies) shall provide all personnel, facilities, equipment and materials necessary for the proper performance of this Third Party Agreement and shall assume the technical and financial responsibility for the work specified in Appendix 1 of this document. Each Third Party undertakes to indemnify the Coordinator and/or other ROB4GREEN Beneficiaries against any failure on its part to discharge its aforementioned responsibilities.

5.2 Audits

Each Third Party undertakes to supply the Coordinator and/or other ROB4GREEN Beneficiaries without delay with any information which the latter may request concerning the implementation of this Third Party Agreement. In particular, upon request the Third Party shall make available to the Coordinator, the other ROB4GREEN Beneficiaries and to their auditors the technical and financial documents verifying that the work is being or has been carried out. Each Third Party acknowledges and accepts the rights of the Funding Authority relating to controls and audits laid down in Articles 25 and 26 of the Grant Agreement (see Appendix 3).

Each Third Party(ies) undertakes to give the representatives of the Coordinator reasonable access to the premises where the work is being carried out and to all documents concerning the work programme and/or necessary to verify the compliance with the obligations arising from this Third Party Agreement and of the Grant Agreement (see Appendix 2). Additionally, the Third Party acknowledges and accepts the rights of the European Commission and/or its agencies, the Court of Auditors or any third party authorised by the European Commission and/or its agencies relating to the technical and financial or other verification of this Third Party Agreement laid down in Articles 25 and 26 of the Grant Agreement (see Appendix 3).

5.3 Each Third Party fully accepts the provisions of Articles 12, 13, 17, 22, 27 and 33 of the Grant Agreement, as attached in Appendix 3.





6 RESULTS

6.1 Ownership of Results

Results are owned by the Party or the ROB4GREEN Beneficiary that generates them.

6.2 Joint ownership

Where Results are generated from work carried out jointly by the Parties to this Third Party Agreement or by the Third Party(ies) and ROB4GREEN Beneficiaries and it is not possible to separate such joint invention, design or work for the purpose of applying for, obtaining and/or maintaining the relevant patent protection or any other intellectual property right, the Parties or the Third Party(ies) and the ROB4GREEN Beneficiaries shall have joint ownership of this work. The joint owners shall, within a six (6) month period as from the date of the generation of such Results, establish a written separate joint ownership agreement regarding the allocation of ownership and terms of exercising, protecting, the division of related costs and exploiting such jointly owned Results on a case-by-case basis. However, until the time a joint ownership agreement has been concluded and as long as such rights are in force, such Results shall be jointly owned in shares according to their share of contribution (such share to be determined by taking into account in particular, but not limited to, the contribution of a joint owner to an inventive step, the person months or costs spent on the respective work etc.) to the Results by the joint owners concerned.

Unless otherwise agreed:

- each of the joint owners shall be entitled to use their jointly owned Results for non-commercial research activities on a royalty-free basis, and
- each of the joint owners shall be entitled to otherwise Exploit the jointly owned Results and to grant non-exclusive licenses to third parties (without any right to sub-license), if the other joint owners are given at least 45 calendar days' advance notice and compensation under Fair and Reasonable conditions.

The joint owners shall agree on all protection measures and the division of related cost in advance.

6.3 Use of data for scientific purposes

ROB4GREEN has the right to use data collected and/or generated during the Project for scientific purposes, without any prior explicit consent. ROB4GREEN will ensure that data are properly anonymised and do not compromise any sensitive information.



7 ACCESS RIGHTS & INTELLECTUAL PROPERTY RIGHTS

The Third Party(ies) acknowledge that all tools, modules, and similar assets provided by ROB4GREEN partners are proprietary and remain the property of the respective ROB4GREEN partner or any applicable third party. Nothing in this Agreement shall grant the Third Party(ies) or any other affiliated entity any license or rights to use these tools, modules, or similar assets beyond the scope of the ROB4GREEN project, unless a separate agreement is explicitly established.

Any tools, software modules, or similar assets provided by the ROB4GREEN project partners to the Third Party(ies) are delivered "as-is" and "as available", without warranties of any kind, unless otherwise stated in the agreement. While no guarantees can be made regarding performance or suitability for a specific purpose, ROB4GREEN partners will provide reasonable mentorship and technical guidance to facilitate integration and use during the project. Support may include documentation, onboarding sessions, and mentoring, as outlined in the Open Call conditions and subject to partner availability.

All results developed solely by the Third Party(ies) during the sub-project ("Third Party Results") shall remain exclusively the property of the Third Party(ies). However, this does not preclude the possibility of separate agreements between the Third Party and one or more ROB4GREEN partners regarding joint ownership, licensing, or commercialization.

Each Third Party shall grant a non-exclusive, royalty-free, worldwide, transferable and unlimited right of use with the right for sub-licensing to the Coordinator and the other ROB4GREEN Beneficiaries for implementation of the ROB4GREEN Project and any exploitation and commercialization of The Coordinator's and/or the other ROB4GREEN Beneficiaries' Results with regard to all results achieved by the Third Party in the course of the work according to this Third Party Agreement ("Third Party Results").

The Third Party shall use all reasonable endeavours to ensure the accuracy of all information and data provided by it to the Coordinator and/or other ROB4GREEN Beneficiaries under this Third Party Agreement, whether they are Third Party Results or not and whether they are protected by intellectual property rights or not, and warrants its right to disclose such information. In the event of any error or omission in the Third Party Results being brought to the attention of the Third Party by the Coordinator or the other ROB4GREEN Beneficiaries, the Third Party undertakes to correct such error or rectify such omission promptly, during which time the Coordinator shall be entitled to withhold payment of any sums due to the Third Party.

The Third Party warrants that the Results and any information provided by it under this Third Party Agreement shall not infringe the intellectual property rights of any third party, and shall indemnify the Coordinator and the other ROB4GREEN Beneficiaries fully and effectively from any and all liabilities, costs expenses, howsoever arising from breach of this warranty.

In the event that the use or commercial exploitation of the Results of the Coordinator and/or the other ROB4GREEN Beneficiaries depends upon licenses to any of the Third Party's Background, the Third Party shall grant the Coordinator and/or the other ROB4GREEN Beneficiaries a non-exclusive, royalty-free, world-wide and fully paid-up license for this purpose. Such licence shall include the right for the Coordinator and/or the other ROB4GREEN Beneficiaries to grant sublicenses under the said Background to other ROB4GREEN Partners of the Project (and their Affiliates, as the case may be) to the extent required by the Grant Agreement (see Appendix 3).

Should any ROB4GREEN Beneficiary make any claim towards the Coordinator under the Coordinator's overall responsibility for the Third Party(ies)' tasks, the Third Party shall indemnify and hold harmless the Coordinator from any costs.





8 DISSEMINATION

Third Parties must inform in writing of any intended dissemination activity (including publications, presentations or contributions to any standards organisation) in writing, giving at least a 10-day notice. Each Party agrees that any dissemination activity by the Third Party is subject to the prior written approval of the Coordinator and involved partners.

The Coordinator and the other ROB4GREEN Beneficiaries are entitled to include the main information and visual content regarding the Third Party' work in their reporting towards the European Commission, without any prior notice to the Third Party.

8.1 Information and communication towards the EC

The Third Party shall, throughout the duration of the sub-project, take appropriate measures to engage with the public and the media about the sub-project and to highlight the financial support of the European Commission (EC) and the ROB4GREEN project.

Unless the EC requests otherwise, any publicity, including at a conference or seminar or any type of information or promotional material (brochure, leaflet, poster, presentation etc.), and any infrastructure, equipment, and major results must:

- Specify that the sub-project has received funding from the EC through the ROB4GREEN project.
- Display the European emblem alongside the ROB4GREEN logo. When displayed in association with a logo, the European emblem should be given appropriate prominence. This obligation to use the European emblem in respect of projects to which the EC contributes implies no right of exclusive use. It is subject to general third-party use restrictions which do not permit the appropriation of the emblem, or of any similar trademark or logo, whether by registration or by any other means. Under these conditions, the Third Party is exempt from the obligation to obtain prior permission from the EC to use the emblem.
- Specify that it reflects only the author's views and that the EC and the ROB4GREEN Consortium is not liable for any use that may be made of the information contained therein. The following text should be used:

"The [sub-project acronym] has indirectly received funding from the European Union's Horizon Europe research and innovation programme under the ROB4GREEN project (Grant Agreement No. 101189665), through ROB4GREEN Open Call 1. Views and opinions expressed are those of the author(s) only and do not necessarily reflect those of the European Union or the ROB4GREEN consortium. Neither the European Union nor the granting authority can be held responsible for them."

The Coordinator, the ROB4GREEN consortium, and/or the EC shall be authorized to publish, in whatever form and on or by whatever medium, the following information:

- The name of the Third Party(ies).
- Contact address of the Third Party(ies).
- The general purpose of the sub-project (publishable summary, etc.)
- The amount of the financial contribution of the EC foreseen for the sub-project. After the final payment, the amount and rate of the financial contribution of the EC accepted by the EC.
- The estimated amount and rate of the financial contribution of the EC foreseen for the Third Party(ies) in the table of the estimated breakdown of budget.
- The geographic location of the activities carried out.
- The list of dissemination activities and/or of patent (applications) relating to foreground.





- The publishable reports submitted (technical reports are excluded, since they are confidential).
- Any picture or any audio-visual or web material provided to the EC in the framework of the Sub-project.

The Third Party(ies) shall ensure that all necessary authorisations for such publication have been obtained and that the publication of the information by the ROB4GREEN Coordinator, the ROB4GREEN consortium partners, or EC does not infringe any rights of third parties.

Upon a duly supported request by the Coordinator on behalf of the Third Party(ies), the EC may agree to forgo such publicity if disclosure of the information indicated above would risk compromising the Third Party's security, academic or commercial interests.

8.2 Information and communication among the Contracting Parties

Any notice to be given under this Contract shall be in writing to the addresses and recipients listed above. Any change of persons or contact details shall be notified immediately to the ROB4GREEN Coordinator. The address list shall be made accessible to all parties concerned.



9 CONFIDENTIALITY

All information in whatever form or mode of communication, which is disclosed by a Party (the “Disclosing Party”) to any other Party (the “Recipient”) in connection with this Third Party Agreement and the tasks of the Third Party(ies) and which has been explicitly marked as “confidential” at the time of disclosure, or when disclosed orally has been identified as confidential at the time of disclosure and has been confirmed and designated in writing within 15 calendar days from oral disclosure at the latest as confidential information by the Disclosing Party, is “Confidential Information”.

The Recipients hereby undertake for a period of 3 years after the termination of this Third Party Agreement:

- not to use Confidential Information otherwise than for the purpose for which it was disclosed;
- not to disclose Confidential Information without the prior written consent by the Disclosing Party;
- to ensure that internal distribution of Confidential Information by a Recipient shall take place on a strict need-to-know basis; and
- to return to the Disclosing Party or delete on request all Confidential Information that has been disclosed to the Recipients including all copies and forms to the extent practically possible. The Recipients may keep a copy to the extent it is required to keep, archive or store such Confidential Information because of compliance with applicable laws and regulations, or for the proof of on-going obligations provided that the Recipient complies with the confidentiality obligations herein contained with respect to such a copy for as long as the copy is retained.

The Recipients shall be responsible for the fulfilment of the above obligations on the part of their employees or third parties involved in implementing the tasks and shall ensure that they remain so obliged, as far as legally possible, during and after the end of this Third-Party Agreement and/or after the termination of the contractual relationship with the employee or third party.

The above shall not apply for disclosure or use of Confidential Information, if and in so far as the Recipient can show that:

- the Confidential Information has become or becomes publicly available by means other than a breach of the Recipient’s confidentiality obligations;
- the Disclosing Party subsequently informs the Recipient that the Confidential Information is no longer confidential;
- the Confidential Information is communicated to the Recipient without any obligation of confidentiality by a third party who is to the best knowledge of the Recipient in lawful possession thereof and under no obligation of confidentiality to the Disclosing Party;
- the Confidential Information, at any time, was developed by the Recipient completely independently of any such disclosure by the Disclosing Party;
- the Confidential Information was already known to the Recipient prior to disclosure, or
- the Recipient is required to disclose the Confidential Information in order to comply with applicable laws or regulations or with a court or administrative order. If a Party become aware that it will be required, or is likely to be required, to disclose Confidential Information in order to comply with applicable laws or regulations or with a court or administrative order, it shall, to the extent it is lawfully able to do so, prior to any such disclosure notify the Disclosing Party, and comply with the Disclosing Party’s reasonable instructions to protect the confidentiality of the information.



The Recipient shall apply the same degree of care with regard to the disclosed Confidential Information as with its own confidential and/or proprietary information, but in no case less than reasonable care.

Each Party shall promptly advise the other Party in writing of any unauthorised disclosure, misappropriation or misuse of Confidential Information after it becomes aware of such unauthorised disclosure, misappropriation or misuse.

The same obligations on confidentiality apply to the Third Party who is receiving Confidential Information by the other ROB4GREEN Beneficiaries.





10 REPORTS AND DELIVERABLES

- 10.1 Each Third Party agrees to submit progress reports to the Coordinator to enable the Coordinator and/or the other ROB4GREEN Beneficiaries to include all contents directly into the project reporting, and to identify work performed and resources deployed by the Third Party(ies).
- 10.2 The content and format of the reports will be described by the Coordinator in providing templates. The reports will require information for publication so that the public can follow the action and understand the impact of the funding provided by the Coordinator. The reports will also require confidential reporting of technical progress, ethical and societal effects and economic impacts so that the Beneficiaries and the Funding Authority can understand the progress and impact of the action.





11 LIABILITY

11.1 The Coordinator's liability

The contractual liability of the Coordinator under this Third-Party Agreement shall in any case be limited to the amount of the financial support provided or to be provided to the Third Party hereunder. The Coordinator shall not in any case be liable for any indirect or consequential damages such as (i) loss of profits, interest, savings, shelf-space, production and business opportunities; (ii) lost contracts, goodwill, and anticipated savings; (iii) loss of or damage to reputation or to data; (iv) costs of recall of products; or (v) any other type of indirect, incidental, punitive, special or consequential loss or damage.

This limitation of liability shall not apply in cases of willful act or gross negligence.

11.2 Liability between Third Party, the Coordinator and the other ROB4GREEN Beneficiaries

The Third Party shall fully and exclusively bear the risks in connection with the work provided by it and for which financial support is granted and forwarded by the Coordinator. The Third Party shall indemnify the Coordinator and the other ROB4GREEN Beneficiaries for all damages, penalties, costs and expenses which the Coordinator or a ROB4GREEN Beneficiary as a result thereof would incur or have to pay to the European Commission or to any third parties with respect to the Third Party's work financially supported and/or for any damage in general which the Coordinator or the ROB4GREEN Beneficiaries incur as a result thereof.

In addition, should the European Commission have a right to recovery against the Coordinator regarding the financial support granted under this Third Party Agreement, the Third Party shall return the sums in question in the terms and the date specified by the Coordinator.

Moreover, the Third Party shall indemnify and hold the Coordinator and the ROB4GREEN Beneficiaries, their respective officers, directors, employees and agents harmless from and against all repayments, loss, liability, costs, charges, claims or damages that result from or arising out of any such recovery action by the European Commission.

11.3 The Third Parties shall comply with all applicable laws, rules and regulations applying in its country, including, but not limited to safety, security, welfare, social security and fiscal laws, rules and regulations. Additionally, the Third Parties shall comply with all applicable laws, rules and regulations of the European Union.



12 MISCELLANEOUS

12.1 Attachments, inconsistencies and severability

In case the terms of this Agreement are in conflict with the terms of the Grant Agreement (see Appendix 3), the terms of the latter shall prevail.

Should any provision of this Agreement become invalid, illegal or unenforceable, it shall not affect the validity of the remaining provisions of this Agreement. In such a case, the Parties concerned shall be entitled to request that a valid and practicable provision be negotiated which fulfils the purpose of the original provision.

The Clauses 6, 7, 8, 9, 11 remain valid also after expiration or termination of this Third-Party Agreement.

12.2 No representation, partnership or agency

A Third Party shall not be entitled to act or to make legally binding declarations on behalf of any of the Coordinator or any other ROB4GREEN Beneficiaries, and shall indemnify all of the latter from any third-parties claim resulting from a breach of these obligations. Nothing in this Agreement shall be deemed to constitute a joint venture, agency, partnership, interest grouping or any other kind of formal business grouping or entity between the Parties.

12.3 Mandatory national law

Nothing in this Agreement shall be deemed to require a Party to breach any mandatory statutory law under which the Party is operating.

12.4 Language

This Agreement shall be construed in accordance with and governed by the laws of Belgium excluding its conflict of law provisions.

The Parties shall endeavour to settle their disputes amicably. If the Parties mutually agree, by mediation.

If the Parties do not come to an amicable settlement, any dispute, controversy or claim arising under, out of or relating to this contract and any subsequent amendments of this contract, including, without limitation, its formation, validity, binding effect, interpretation, performance, breach or termination, as well as non-contractual claims, shall be submitted to the courts of the city of Brussels. They have exclusive jurisdiction.

Nothing in this Agreement shall limit the Parties' right to seek injunctive relief in any applicable competent court.



13 NO DOUBLE FUNDING

By signing this Agreement, the Third Party(ies) declares to be aware of the fundamental principle underpinning the rules for public expenditure in the EU that no costs for the same activity be funded twice from the EU budget, as defined in the Article 111 of Council Regulation (EC, Euratom) No. 1605/2002 of 25 June 2002 on the Financial Regulation, and confirms that all the work performed under ROB4GREEN (Grant Agreement no. 101189665) will be done exclusively in the scope of this programme, not being supported or funded by any other European Commission programme.





14 SIGNATURES

AS WITNESS:

The Parties have caused this Agreement to be duly signed by the undersigned authorized representatives in separate signature pages the day and year first above written.

On behalf of the ROB4GREEN Coordinator

LMS

Signature:

University of Patras

Signature:

Name: [Scientific Coordinator of the project]

Title: Scientific Coordinator of the ROB4GREEN project

Name: [Legal Representative]

Title: [Legal Representative Title]





On behalf of the Third Parties:

Third Party 1

Organization name

Signature:

Name: [Legal Representative]

Title: [Legal Representative Title]





Third Party ☒

Organization name

Signature:

Name: [Legal Representative]

Title: [Legal Representative Title]





APPENDIX 1 – THIRD PARTIES PROPOSAL

[Here the Third-Party proposal is attached]





APPENDIX 2 — EXCERPTS FROM THE GRANT AGREEMENT — PRINCIPAL TERMS AND CONDITIONS¹

ARTICLE 12 — CONFLICT OF INTERESTS

12.1 Conflict of interests

The beneficiaries must take all measures to prevent any situation where the impartial and objective implementation of the Agreement could be compromised for reasons involving family, emotional life, political or national affinity, economic interest or any other direct or indirect interest ('conflict of interests'). They must formally notify the granting authority without delay of any situation constituting or likely to lead to a conflict of interests and immediately take all the necessary steps to rectify this situation. The granting authority may verify that the measures taken are appropriate and may require additional measures to be taken by a specified deadline.

12.2 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28) and the grant or the beneficiary may be terminated (see Article 32). Such breaches may also lead to other measures described in Chapter 5.

ARTICLE 13 — CONFIDENTIALITY AND SECURITY

13.1 Sensitive information

The parties must keep confidential any data, documents or other material (in any form) that is identified as sensitive in writing ('sensitive information') — during the implementation of the action and for at least until the time-limit set out in the Data Sheet (see Point 6). If a beneficiary requests, the granting authority may agree to keep such information confidential for a longer period. Unless otherwise agreed between the parties, they may use sensitive information only to implement the Agreement.

The beneficiaries may disclose sensitive information to their personnel or other participants involved in the action only if they:

- (a) need to know it in order to implement the Agreement and
- (b) are bound by an obligation of confidentiality.

The granting authority may disclose sensitive information to its staff and to other EU institutions and bodies.

It may moreover disclose sensitive information to third parties, if:

- (a) this is necessary to implement the Agreement or safeguard the EU financial interests and
- (b) the recipients of the information are bound by an obligation of confidentiality.

The confidentiality obligations no longer apply if:

- (a) the disclosing party agrees to release the other party
- (b) the information becomes publicly available, without breaching any confidentiality obligation
- (c) the disclosure of the sensitive information is required by EU, international or national law.

Specific confidentiality rules (if any) are set out in Annex 5.

13.2 Classified information

The parties must handle classified information in accordance with the applicable EU, international or national law on classified information (in particular, Decision 2015/44415 and its implementing rules). Deliverables which contain classified information must be submitted according to special procedures agreed with the granting authority. Action tasks involving classified information may be subcontracted only after explicit approval (in writing) from the granting authority. Classified information may not be disclosed to any third party (including participants involved in the action implementation) without prior explicit written approval from the granting authority. Specific security rules (if any) are set out in Annex 5.

13.3 Consequences of non-compliance

¹ Annex numbering corresponds to the articles as stated in Horizon Europe Model Grant Agreement





If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28). Such breaches may also lead to other measures described in Chapter 5.

ARTICLE 17 — COMMUNICATION, DISSEMINATION AND VISIBILITY

17.1 Communication — Dissemination — Promoting the action

Unless otherwise agreed with the granting authority, the beneficiaries must promote the action and its results by providing targeted information to multiple audiences (including the media and the public), in accordance with Annex 1 and in a strategic, coherent and effective manner. Before engaging in a communication or dissemination activity expected to have a major media impact, the beneficiaries must inform the granting authority.

17.2 Visibility — European flag and funding statement

Unless otherwise agreed with the granting authority, communication activities of the beneficiaries related to the action (including media relations, conferences, seminars, information material, such as brochures, leaflets, posters, presentations, etc., in electronic form, via traditional or social media, etc.), dissemination activities and any infrastructure, equipment, vehicles, supplies or major result funded by the grant must acknowledge EU support and display the European flag (emblem) and funding statement (translated into local languages, where appropriate). The emblem must remain distinct and separate and cannot be modified by adding other visual marks, brands or text. Apart from the emblem, no other visual identity or logo may be used to highlight the EU support. When displayed in association with other logos (e.g. of beneficiaries or sponsors), the emblem must be displayed at least as prominently and visibly as the other logos. For the purposes of their obligations under this Article, the beneficiaries may use the emblem without first obtaining approval from the granting authority. This does not, however, give them the right to exclusive use. Moreover, they may not appropriate the emblem or any similar trademark or logo, either by registration or by any other means.



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17.3 Quality of information — Disclaimer

Any communication or dissemination activity related to the action must use factually accurate information. Moreover, it must indicate the following disclaimer (translated into local languages where appropriate):

“Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or [name of the granting authority]. Neither the European Union nor the granting authority can be held responsible for them.”

17.4 Specific communication, dissemination and visibility rules

Specific communication, dissemination and visibility rules (if any) are set out in Annex 5.





17.5 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28). Such breaches may also lead to other measures described in Chapter 5.

ARTICLE 20 — RECORD-KEEPING

20.1 Keeping records and supporting documents

The beneficiaries must — at least until the time-limit set out in the Data Sheet (see Point 6) — keep records and other supporting documents to prove the proper implementation of the action in line with the accepted standards in the respective field (if any). In addition, the beneficiaries must — for the same period — keep the following to justify the amounts declared:

(a) for actual costs: adequate records and supporting documents to prove the costs declared (such as contracts, subcontracts, invoices and accounting records); in addition, the beneficiaries' usual accounting and internal control procedures must enable direct reconciliation between the amounts declared, the amounts recorded in their accounts and the amounts stated in the supporting documents

(b) for flat-rate costs and contributions (if any): adequate records and supporting documents to prove the eligibility of the costs or contributions to which the flat-rate is applied

(c) for the following simplified costs and contributions: the beneficiaries do not need to keep specific records on the actual costs incurred, but must keep:

(i) for unit costs and contributions (if any): adequate records and supporting documents to prove the number of units declared

(ii) for lump sum costs and contributions (if any): adequate records and supporting documents to prove proper implementation of the work as described in Annex 1

(iii) for financing not linked to costs (if any): adequate records and supporting documents to prove the achievement of the results or the fulfilment of the conditions as described in Annex 1

(d) for unit, flat-rate and lump sum costs and contributions according to usual cost accounting practices (if any): the beneficiaries must keep any adequate records and supporting documents to prove that their cost accounting practices have been applied in a consistent manner, based on objective criteria, regardless of the source of funding, and that they comply with the eligibility conditions set out in Articles 6.1 and 6.2.

Moreover, the following is needed for specific budget categories:

(e) for personnel costs: time worked for the beneficiary under the action must be supported by declarations signed monthly by the person and their supervisor, unless another reliable time-record system is in place; the granting authority may accept alternative evidence supporting the time worked for the action declared, if it considers that it offers an adequate level of assurance

The records and supporting documents must be made available upon request (see Article 19) or in the context of checks, reviews, audits or investigations (see Article 25).

If there are on-going checks, reviews, audits, investigations, litigation or other pursuits of claims under the Agreement (including the extension of findings; see Article 25), the beneficiaries must keep these records and other supporting documentation until the end of these procedures.

The beneficiaries must keep the original documents. Digital and digitalised documents are considered originals if they are authorised by the applicable national law. The granting authority may accept non-original documents if they offer a comparable level of assurance.

20.2 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, costs or contributions insufficiently substantiated will be ineligible (see Article 6) and will be rejected (see Article 27), and the grant may be reduced (see Article 28). Such breaches may also lead to other measures described in Chapter 5.

ARTICLE 22 — PAYMENTS AND RECOVERIES — CALCULATION OF AMOUNTS DUE

22.2 Recoveries

Recoveries will be made, if — at beneficiary termination, final payment or afterwards — it turns out that the granting authority has paid too much and needs to recover the amounts undue.



Each beneficiary's financial responsibility in case of recovery is in principle limited to their own debt and undue amounts of their affiliated entities.

In case of enforced recoveries (see Article 22.4), affiliated entities will be held liable for repaying debts of their beneficiaries, if required by the granting authority (see Data Sheet, Point 4.4).

22.3 Amounts due

22.3.1 Prefinancing payments

The aim of the prefinancing is to provide the beneficiaries with a float.

It remains the property of the EU until the final payment.

For initial prefinancings (if any), the amount due, schedule and modalities are set out in the Data Sheet (see Point 4.2).

For additional prefinancings (if any), the amount due, schedule and modalities are also set out in the Data Sheet (see Point 4.2). However, if the statement on the use of the previous prefinancing payment shows that less than 70% was used, the amount set out in the Data Sheet will be reduced by the difference between the 70% threshold and the amount used.

The contribution to the Mutual Insurance Mechanism will be retained from the prefinancing payments (at the rate and in accordance with the modalities set out in the Data Sheet, see Point 4.2) and transferred to the Mechanism.

Prefinancing payments (or parts of them) may be offset (without the beneficiaries' consent) against amounts owed by a beneficiary to the granting authority — up to the amount due to that beneficiary.

For grants where the granting authority is the European Commission or an EU executive agency, offsetting may also be done against amounts owed to other Commission services or executive agencies.

Payments will not be made if the payment deadline or payments are suspended (see Articles 29 and 30).

22.4 Enforced recovery

If payment is not made by the date specified in the debit note, the amount due will be recovered:

(a) by offsetting the amount — without the coordinator or beneficiary's consent — against any amounts owed to the coordinator or beneficiary by the granting authority.

In exceptional circumstances, to safeguard the EU financial interests, the amount may be offset before the payment date specified in the debit note.

For grants where the granting authority is the European Commission or an EU executive agency, debts may also be offset against amounts owed by other Commission services or executive agencies.

(b) financial guarantee(s): not applicable

(c) joint and several liability of beneficiaries: not applicable

(d) by holding affiliated entities jointly and severally liable (if any, see Data Sheet, Point 4.4)

(e) by taking legal action (see Article 43) or, provided that the granting authority is the European Commission or an EU executive agency, by adopting an enforceable decision under Article 299 of the Treaty on the Functioning of the EU (TFEU) and Article 100(2) of EU Financial Regulation 2018/1046. If the Mutual Insurance Mechanism was called on by the granting authority to intervene, recovery will be continued in the name of the Mutual Insurance Mechanism. If two debit notes were sent, the second one (in the name of the Mutual Insurance Mechanism) will be considered to replace the first one (in the name of the granting authority). Where the MIM intervened, offsetting, enforceable decisions or any other of the above-mentioned forms of enforced recovery may be used mutatis mutandis.

Partial payments will be first credited against expenses, charges and late-payment interest and then against the principal.

Bank charges incurred in the recovery process will be borne by the beneficiary, unless Directive 2015/2366 applies.

For grants where the granting authority is an EU executive agency, enforced recovery by offsetting or enforceable decision will be done by the services of the European Commission (see also Article 43).

ARTICLE 25 — CHECKS, REVIEWS, AUDITS AND INVESTIGATIONS — EXTENSION OF FINDINGS





25.1 Granting authority checks, reviews and audits

25.1.1 Internal checks

The granting authority may — during the action or afterwards — check the proper implementation of the action and compliance with the obligations under the Agreement, including assessing costs and contributions, deliverables and reports.

25.1.2 Project reviews

The granting authority may carry out reviews on the proper implementation of the action and compliance with the obligations under the Agreement (general project reviews or specific issues reviews). Such project reviews may be started during the implementation of the action and until the time-limit set out in the Data Sheet (see Point 6). They will be formally notified to the coordinator or beneficiary concerned and will be considered to start on the date of the notification. If needed, the granting authority may be assisted by independent, outside experts. If it uses outside experts, the coordinator or beneficiary concerned will be informed and have the right to object on grounds of commercial confidentiality or conflict of interest. The coordinator or beneficiary concerned must cooperate diligently and provide — within the deadline requested — any information and data in addition to deliverables and reports already submitted (including information on the use of resources). The granting authority may request beneficiaries to provide such information to it directly. Sensitive information and documents will be treated in accordance with Article 13. The coordinator or beneficiary concerned may be requested to participate in meetings, including with the outside experts. For on-the-spot visits, the beneficiary concerned must allow access to sites and premises (including to the outside experts) and must ensure that information requested is readily available. Information provided must be accurate, precise and complete and in the format requested, including electronic format. On the basis of the review findings, a project review report will be drawn up. The granting authority will formally notify the project review report to the coordinator or beneficiary concerned, which has 30 days from receiving notification to make observations. Project reviews (including project review reports) will be in the language of the Agreement.

25.1.3 Audits

The granting authority may carry out audits on the proper implementation of the action and compliance with the obligations under the Agreement. Such audits may be started during the implementation of the action and until the time-limit set out in the Data Sheet (see Point 6). They will be formally notified to the beneficiary concerned and will be considered to start on the date of the notification. The granting authority may use its own audit service, delegate audits to a centralised service or use external audit firms. If it uses an external firm, the beneficiary concerned will be informed and have the right to object on grounds of commercial confidentiality or conflict of interest. The beneficiary concerned must cooperate diligently and provide — within the deadline requested — any information (including complete accounts, individual salary statements or other personal data) to verify compliance with the Agreement. Sensitive information and documents will be treated in accordance with Article 13. For on-the-spot visits, the beneficiary concerned must allow access to sites and premises (including for the external audit firm) and must ensure that information requested is readily available. Information provided must be accurate, precise and complete and in the format requested, including electronic format. On the basis of the audit findings, a draft audit report will be drawn up. The auditors will formally notify the draft audit report to the beneficiary concerned, which has 30 days from receiving notification to make observations (contradictory audit procedure). The final audit report will take into account observations by the beneficiary concerned and will be formally notified to them. Audits (including audit reports) will be in the language of the Agreement.

25.2 European Commission checks, reviews and audits in grants of other granting authorities

Where the granting authority is not the European Commission, the latter has the same rights of checks, reviews and audits as the granting authority.

25.3 Access to records for assessing simplified forms of funding

The beneficiaries must give the European Commission access to their statutory records for the periodic assessment of simplified forms of funding which are used in EU programmes.



25.4 OLAF, EPPO and ECA audits and investigations

The following bodies may also carry out checks, reviews, audits and investigations — during the action or afterwards:

- the European Anti-Fraud Office (OLAF) under Regulations No 883/201320 and No 2185/9621
- the European Public Prosecutor's Office (EPPO) under Regulation 2017/1939
- the European Court of Auditors (ECA) under Article 287 of the Treaty on the Functioning of the EU (TFEU) and Article 257 of EU Financial Regulation 2018/1046.

If requested by these bodies, the beneficiary concerned must provide full, accurate and complete information in the format requested (including complete accounts, individual salary statements or other personal data, including in electronic format) and allow access to sites and premises for on-the-spot visits or inspections — as provided for under these Regulations. To this end, the beneficiary concerned must keep all relevant information relating to the action, at least until the time-limit set out in the Data Sheet (Point 6) and, in any case, until any ongoing checks, reviews, audits, investigations, litigation or other pursuits of claims have been concluded.

25.5 Consequences of checks, reviews, audits and investigations — Extension of results of reviews, audits or investigations

25.5.1 Consequences of checks, reviews, audits and investigations in this grant

Findings in checks, reviews, audits or investigations carried out in the context of this grant may lead to rejections (see Article 27), grant reduction (see Article 28) or other measures described in Chapter 5. Rejections or grant reductions after the final payment will lead to a revised final grant amount (see Article 22). Findings in checks, reviews, audits or investigations during the action implementation may lead to a request for amendment (see Article 39), to change the description of the action set out in Annex 1. Checks, reviews, audits or investigations that find systemic or recurrent errors, irregularities, fraud or breach of obligations in any EU grant may also lead to consequences in other EU grants awarded under similar conditions ('extension to other grants'). Moreover, findings arising from an OLAF or EPPO investigation may lead to criminal prosecution under national law.

25.5.2 Extension from other grants

Results of checks, reviews, audits or investigations in other grants may be extended to this grant, if:

(a) the beneficiary concerned is found, in other EU grants awarded under similar conditions, to have committed systemic or recurrent errors, irregularities, fraud or breach of obligations that have a material impact on this grant and

(b) those findings are formally notified to the beneficiary concerned — together with the list of grants affected by the findings — within the time-limit for audits set out in the Data Sheet (see Point 6).

The granting authority will formally notify the beneficiary concerned of the intention to extend the findings and the list of grants affected. If the extension concerns rejections of costs or contributions: the notification will include:

(a) an invitation to submit observations on the list of grants affected by the findings

(b) the request to submit revised financial statements for all grants affected

(c) the correction rate for extrapolation, established on the basis of the systemic or recurrent errors, to calculate the amounts to be rejected, if the beneficiary concerned:

(i) considers that the submission of revised financial statements is not possible or practicable
or

(ii) does not submit revised financial statements.

If the extension concerns grant reductions: the notification will include:

(a) an invitation to submit observations on the list of grants affected by the findings and

(b) the correction rate for extrapolation, established on the basis of the systemic or recurrent errors and the principle of proportionality.

The beneficiary concerned has 60 days from receiving notification to submit observations, revised financial statements or to propose a duly substantiated alternative correction method/rate. On the basis of this, the granting authority will analyse the impact and decide on the implementation (i.e.





start rejection or grant reduction procedures, either on the basis of the revised financial statements or the announced/alternative method/rate or a mix of those; see Articles 27 and 28).

25.6 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, costs or contributions insufficiently substantiated will be ineligible (see Article 6) and will be rejected (see Article 27), and the grant may be reduced (see Article 28). Such breaches may also lead to other measures described in Chapter 5.

ARTICLE 26 — IMPACT EVALUATIONS

26.1 Impact evaluation

The granting authority may carry out impact evaluations of the action, measured against the objectives and indicators of the EU programme funding the grant. Such evaluations may be started during implementation of the action and until the time-limit set out in the Data Sheet (see Point 6). They will be formally notified to the coordinator or beneficiaries and will be considered to start on the date of the notification. If needed, the granting authority may be assisted by independent outside experts. The coordinator or beneficiaries must provide any information relevant to evaluate the impact of the action, including information in electronic format.

26.2 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, the granting authority may apply the measures described in Chapter 5.

ARTICLE 27 — REJECTION OF COSTS AND CONTRIBUTIONS

27.1 Conditions

The granting authority will — at beneficiary termination, interim payment, final payment or afterwards — reject any costs or contributions which are ineligible (see Article 6), in particular following checks, reviews, audits or investigations (see Article 25).

The rejection may also be based on the extension of findings from other grants to this grant (see Article 25).

Ineligible costs or contributions will be rejected.

27.2 Procedure

If the rejection does not lead to a recovery, the granting authority will formally notify the coordinator or beneficiary concerned of the rejection, the amounts and the reasons why. The coordinator or beneficiary concerned may — within 30 days of receiving notification — submit observations if it disagrees with the rejection (payment review procedure).

If the rejection leads to a recovery, the granting authority will follow the contradictory procedure with pre-information letter set out in Article 22.

27.3 Effects

If the granting authority rejects costs or contributions, it will deduct them from the costs or contributions declared and then calculate the amount due (and, if needed, make a recovery; see Article 22).

ARTICLE 33 — DAMAGES

33.1 Liability of the granting authority

The granting authority cannot be held liable for any damage caused to the beneficiaries or to third parties as a consequence of the implementation of the Agreement, including for gross negligence. The granting authority cannot be held liable for any damage caused by any of the beneficiaries or other participants involved in the action, as a consequence of the implementation of the Agreement.

33.2 Liability of the beneficiaries

The beneficiaries must compensate the granting authority for any damage it sustains as a result of the implementation of the action or because the action was not implemented in full compliance with the Agreement, provided that it was caused by gross negligence or wilful act. The liability does not extend to indirect or consequential losses or similar damage (such as loss of profit, loss of revenue or loss of contracts), provided such damage was not caused by wilful act or by a breach of confidentiality.

ARTICLE 35 — FORCE MAJEURE





A party prevented by force majeure from fulfilling its obligations under the Agreement cannot be considered in breach of them. 'Force majeure' means any situation or event that:

- prevents either party from fulfilling their obligations under the Agreement,
- was unforeseeable, exceptional situation and beyond the parties' control,
- was not due to error or negligence on their part (or on the part of other participants involved in the action), and
- proves to be inevitable in spite of exercising all due diligence.

Any situation constituting force majeure must be formally notified to the other party without delay, stating the nature, likely duration and foreseeable effects. The parties must immediately take all the necessary steps to limit any damage due to force majeure and do their best to resume implementation of the action as soon as possible.





Robotics and AI as Enablers for Greener Dismantling, Remanufacturing and Recycling

-ROB4GREEN-

**HORIZON-CL4-2024-DIGITAL-EMERGING-01-04 – Industrial leadership in AI, Data and Robotics
boosting competitiveness and the green transition (AI Data and Robotics Partnership) (IA)**

Grant Agreement No. 101189665

Annex 8: Banking information form

(Co-)Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Commission. Neither the European Union nor the granting authority can be held responsible for them.



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1 BANKING INFORMATION FORM

Proposal / Contract Number	ROB4GREEN OC1	Proposal Acronym	
Financial Information for payments			

Account holder	
Name of Account holder (as registered with the bank)	
Full address of account holder (as registered with the bank)	
Street name and number	
Postal Code	Town/City
Country	VAT number
Contact person of the account holder regarding the payments	
Name	
Phone	
e-mail	

Bank Information	
Bank name	
Branch address (full address – PO box not accepted)	
Street name and number	
Postal Code	Town/City
Country	
Account no	
Bank sorting code	
International Bank Account Number (IBAN) The IBAN is mandatory for all European Partners. Where no IBAN is provided increased bank-fees are charged to the partners. See also http://www.ecbs.org/iban.htm	
BIC/SWIFT	
Requested »reason for payment« (if other than EU project name or n°) / Remarks	

We certify that above information declared is complete and true.

BANK STAMP + SIGNATURE BANK REPRESENTATIVE*	DATE, STAMP + SIGNATURE of ACCOUNT HOLDER





IMPORTANT NOTE!

- *Please ensure that the provided information is correct, otherwise the payment may be rejected.*
- *Complete the form on your PC and not by hand, since unreadable information might cause delays.*
- *If a change of this Financial Information is necessary, please inform the Coordinator immediately!*
- *Any costs and bank fees due to incorrect or invalid Financial Information will be borne by the Third Party.*

