



MASTER

Develop your XR concept under the MASTER Open Call

The Open Call will be launched on **18 March 2024** and remain open until **31 May 2024**.

What is the purpose of the MASTER Open Call?

The first Open Call (OC1) will centre on creating proven digital learning solutions ready for immediate deployment using XR technology. We will encourage applicants to address specific technical challenges that will be outlined or propose their own challenges. This invitation is extended to any organization involved in developing XR-related technologies. The goal is to compile a collection of libraries useful for crafting educational scenarios tailored to the industry's needs. These libraries will then be incorporated into the VIROO platform, establishing it as the primary resource for XR-based training in manufacturing.

What applicants will gain

- Financial support to up to €150,000.
- Technical support from the respective technical partner of the MASTER consortium.
- Business support during the last four months of the experiment execution period.
- Licenses will be provided by VIRTUALWARE to all beneficiaries for the VIROO platform tools, alongside to technical support.
- Potential commercialisation agreement with VIRTUALWARE after the end of the project.



Challenges



Safety and ergonomics in workplace: The key to effective Human-Robot Interaction (HRI) lies in establishing a secure environment for the operator. This is typically achieved by leveraging cutting-edge Extended Reality (XR) technologies. These technologies aim to facilitate the development of safe workspaces and provide trainees with immersive learning experiences on executing production operations safely.



Intuitive robot programming: A challenge in robot interaction is programming them, as coding can be difficult for many. To address this, we aim to utilize XR technologies to offer intuitive methods for teaching robots new skills. This involves automatically generating program code in the background while focusing on leveraging the capabilities XR provides.



User-friendly HRI methods: Effective human-robot interaction requires well-designed support for users in their tasks. XR technology aids by enhancing scenes with additional information, though it brings its own challenges. Our goal is to tackle these challenges by creating interfaces with high usability and a positive user experience.

What is the envisioned impact of MASTER XR?

We aim to collaborate with technology providers to develop new tools in the XR environment that facilitate the creation of educational scenarios. Additionally, we seek to involve educational institutions in the process of utilizing these tools to create innovative educational materials. This objective will be pursued through two Open Calls, as well as through our consortium's ongoing activities.

The application & evaluation processes

Applicants will submit their proposals through the web-based submission system provided by MASTER. Supporting documents, such as templates and guidelines, will be available on the project portal. Applicants must carefully review these materials and submit their applications within the specified timeframe.

The evaluation will be based on key criteria outlined in the application form, including an initial business model. After the deadline, no further applications will be accepted, and the evaluation phase will commence.

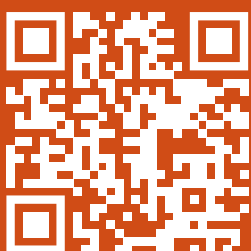
Each application will be reviewed by three independent reviewers in a three-step evaluation:

- 1 The individual evaluation will be done remotely by reviewers.
- 2 A consensus meeting to adjust the finally agreed scores.
- 3 The project steering committee will consider all the applications on the resulting ranked list and make the final selection according to the rules.

Once proposals are ranked, the MASTER consortium will allocate an equal number of proposals to each challenge, prioritizing the highest-ranked proposals. Applicants will receive initial decisions on funding and have an opportunity to submit redress documents within a week.

The MASTER partners will review these documents and provide responses within an additional week. The final decision will be communicated to both the European Commission and the applicants.

The process will conclude with the signing of sub-grant agreements between the MASTER coordinator and the selected third parties, marking the official start of support cases.



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