

XR5.0

Human-Centric AI-Enabled
Extended Reality Applications
for the Industry 5.0 Era

General Presentation of the XR5.0 project!



Project funded by

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER
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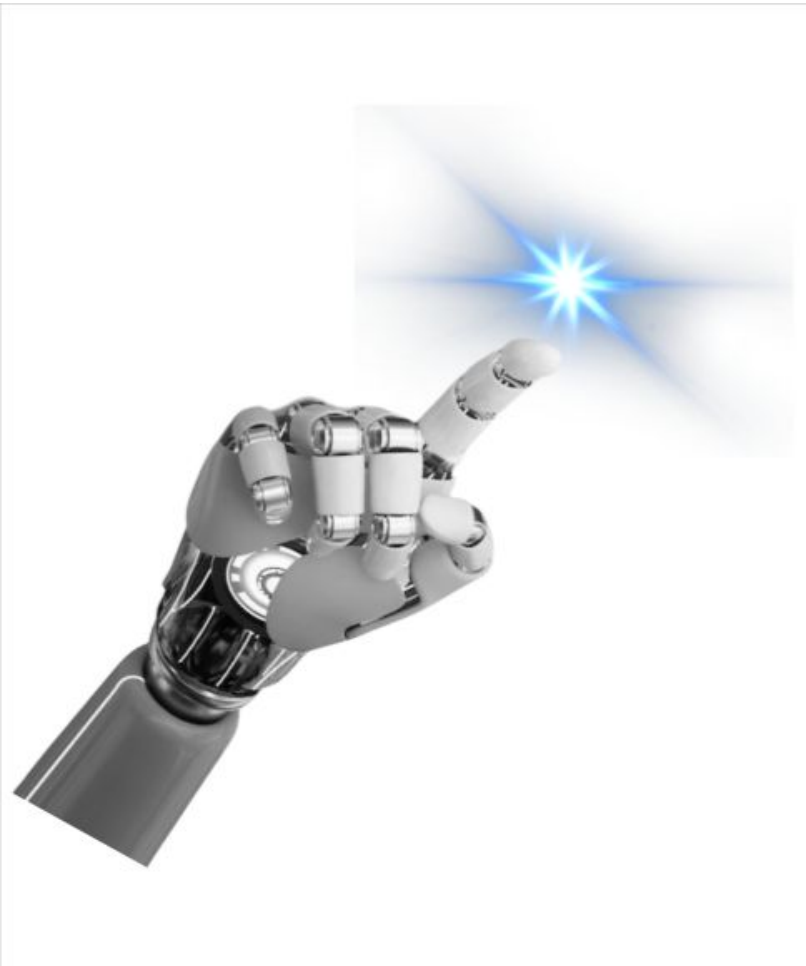
I. Get to know the XR5.0 project

The XR5.0 project aims to build, demonstrate, and validate a novel Person-Centric and AI- based XR paradigm that is tailored to the requirements and nature of I5.0 applications.

The XR5.0 project aims to develop user-friendly XR applications for industrial workers using VR, AR, and MR.



2. Project Introduction



- European Horizon **Europe project**
- Person-Centric, **AI-based XR** for Industry 5.0
- User-friendly **XR** applications using **VR, AR,** and **MR**
- Personalised experiences via worker traits, skills, and context
- Human-centered **digital twins** and advanced **AI** integration
- Cloud-based **XR** training platform for Operator 5.0
- 6 high-TRL **pilot applications** in real industrial settings
- Build a stakeholder community for **sustainability** and **impact**



Rapid Human Centric
AI-Enabled Product
Design



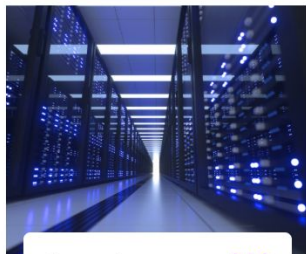
Human Centred
Remote Maintenance
and Asset
Management



Operator 5.0 Training
for Smart Water
Pipes based on XR
Streaming



Worker Centric
Aircraft Maintenance
Training



Increased
Effectiveness and
Safety of Product
Assembly and Repair
Processes



Human Centric
Guidance and
Troubleshooting for
Customer Service

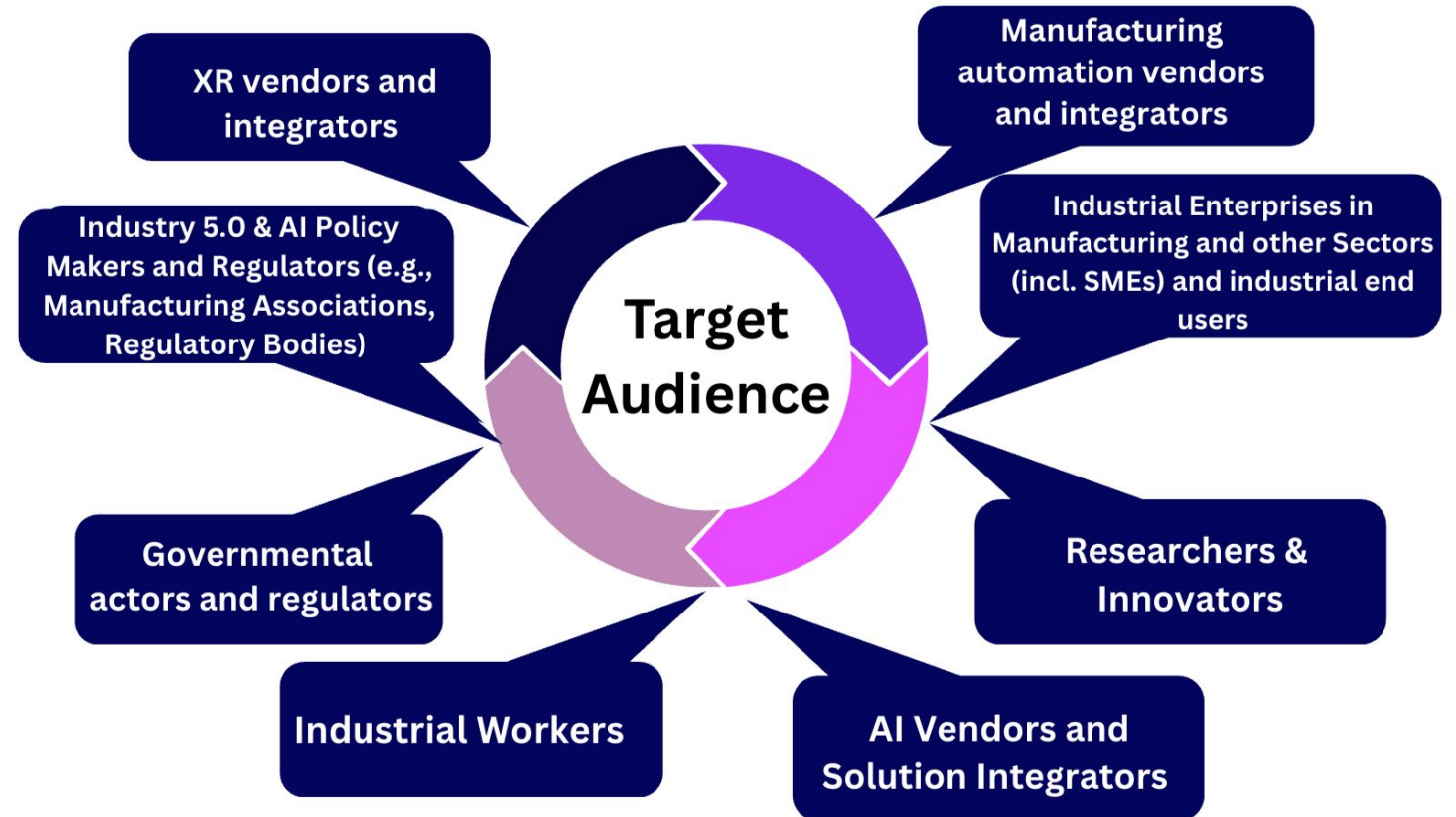


1. Rapid Human Centric AI-Enabled Product Design
2. Human Centred Remote Maintenance and Asset Management
3. Operator 5.0 Training for Smart Water Pipes based on XR Streaming
4. Worker Centric Aircraft Maintenance Training
5. Increased Effectiveness and Safety of Product Assembly and Repair Processes
6. Human Centric Guidance and Troubleshooting for Customer Service

- Standards-Based Reference Model, Structuring Principles and Blueprints for XR5.0 Applications in-line with European Values.
- Human Digital Twins for Person Centric XR Applications.
- Integration of XR with Human AI Collaboration Paradigms.
- Augmented Intelligence based on (Remote) XR Visualisation of AI insights and Outcomes.
- Operator 5.0 Training Platform Based on XR5.0 Technologies.
- Validation in Real-life Industry 5.0 Applications.
- XR5.0 Ecosystem Development and Community. Building



XR5.0 will build a vibrant community of interested stakeholders around the project's outcomes.



This community will provide a basis for the sustainability and wider uptake of the project's results towards maximising the impact of the project's use cases.

- Budget: **€10M**
- EU Funding: **€7.63M**
- Duration: **Jan 2024 – Dec 2026 (36 months)**
- Technology Readiness Level (pilots): **7–8**
- Grant agreement ID: **I01135209**





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Thank You!

www.xr50.eu



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