



INDUX-R

**Transforming European INDUstrial Ecosystems through eXtended Reality
enhanced by human-centric AI and secure, 5G-enabled IoT**

PRESS KIT



This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement No 101135556.



Aim

- At its core INDUX-R integrates advances in digitization, realistic animation, light-field displays, XR media streaming, and egocentric perception—technologies that create immersive and interactive experiences.
- To support multiple users in shared XR environments, INDUX-R relies on a scalable 5G architecture and a secure, interoperable Internet of Things network.

The foreseen use cases cover a wide spectrum of industrial ecosystems in event planning, Industry 4.0, virtual medical training, cultural tourism, and broadcasting of sports events where end-users will participate in every step of INDUX-R.

By integrating these technologies and use cases, INDUX-R aims to empower people across industries, improve efficiency, and expand access to knowledge and experiences through immersive XR solutions.



Objectives

- INDUX-R is driven by real market and societal needs, where XR offers clear value.
- It builds a human-centric XR ecosystem to empower users and create high-impact XR products.
- Focuses on scientific breakthroughs applied in real-life use cases, with potential for broader adoption.

Key Technologies:

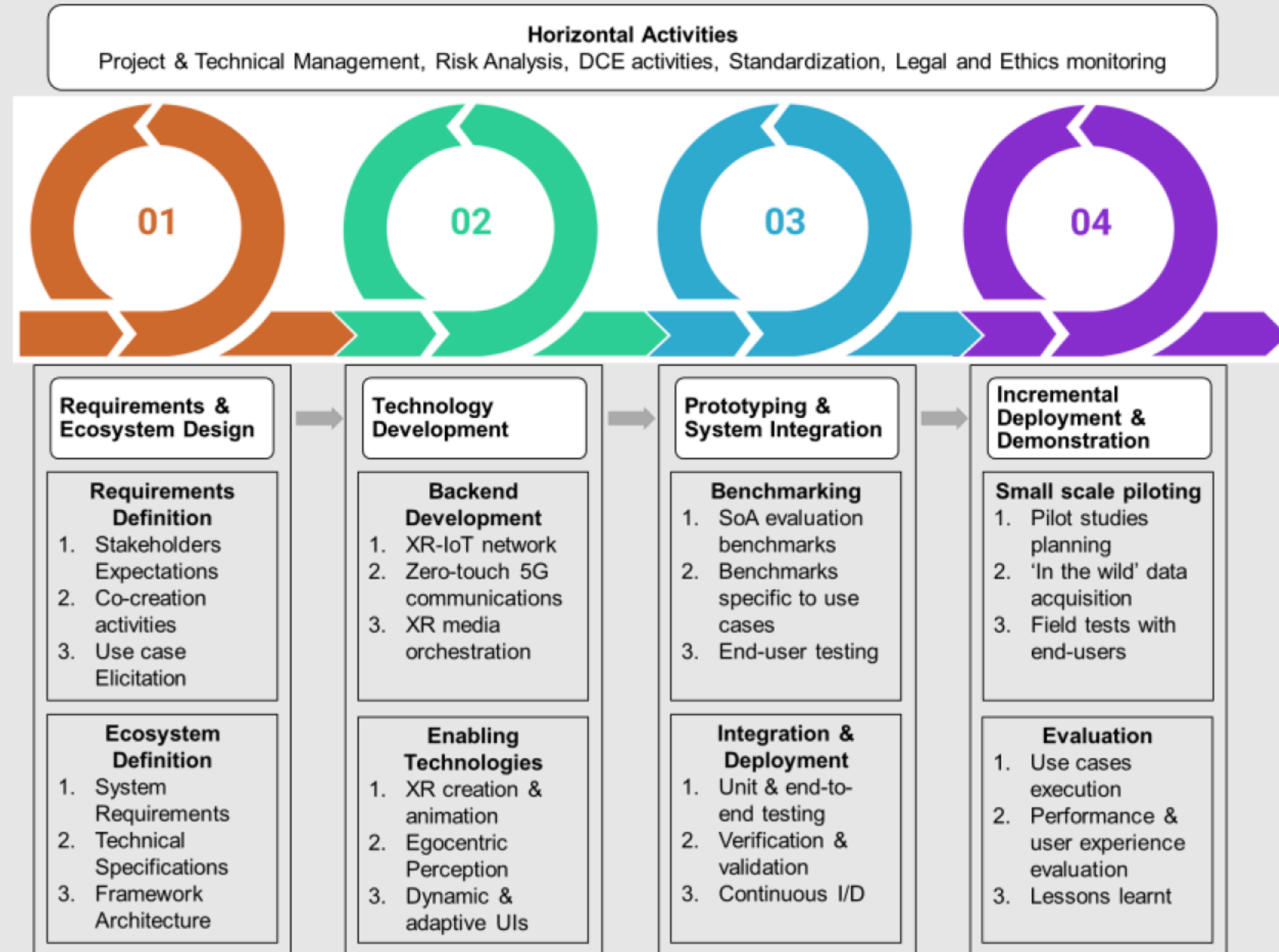
- XR asset creation
- Realistic animation
- Light-field HMDs
- XR media streaming
- Egocentric perception

Infrastructure:

- Scalable, zero-touch 5G architecture
- Secure, interoperable IoT network to manage demand and reduce waste



Project phases



Use Cases



LiveMediaXR omniconferences (UC-1)



X-ray vision for Industry 4.0 (UC-2)



Virtual medical training (UC-3)



4D Reconstruction for cultural tourism (UC-4)



NOMADE Cars sports immersion (UC-5)



LiveMediaXR omniconferences (UC-1)

With INDUX-R technologies, we're pushing the boundaries of how technology can overcome challenges related to distance and mobility.

Our AI-driven applications aim to expand access to knowledge, allowing more participants to engage in meaningful ways. We envision a future where physical attendees and remote participants seamlessly interact, as if they're in the same room. Stay tuned as we revolutionize conferences, merging the physical and digital worlds like never before!

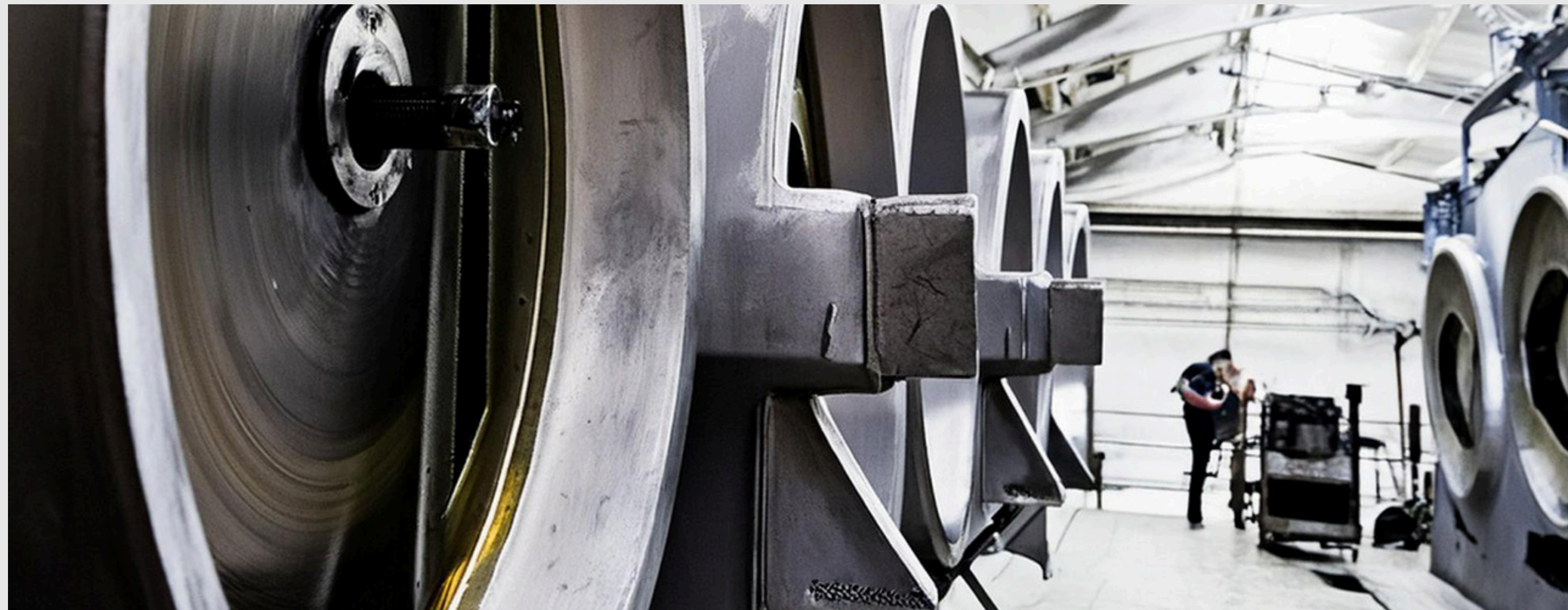


X-ray vision for Industry 4.0 (UC-2)

Unlocking the power of “X-ray vision” for Adl’s Hot Deep Galvanizing (HDG) line! INDUX-R’s innovative technology offers unprecedented visibility into the production process, providing a virtual window into every critical step.

This breakthrough allows real-time monitoring and analysis, enabling operators to detect issues, predict maintenance needs, and optimize operations with unparalleled precision.

By integrating AI-driven insights and advanced sensors, INDUX-R revolutionizes the way we approach industrial workflows, maximizing efficiency, reducing downtime, and ensuring superior quality control.



Virtual medical training (UC-3)

INDUX-R is redefining the future of surgical training with an immersive, dynamic learning environment. Through Use Case 3 (UC3), trainees can enhance their skills in a fully virtual, multi-user operating room. This cutting-edge platform allows medical professionals to practice and perfect surgical techniques in a collaborative, real-time setting, simulating the complexities of real-world procedures. Experience the next generation of medical training, where advanced technology empowers trainees to achieve surgical mastery in a safe, interactive, and innovative space.

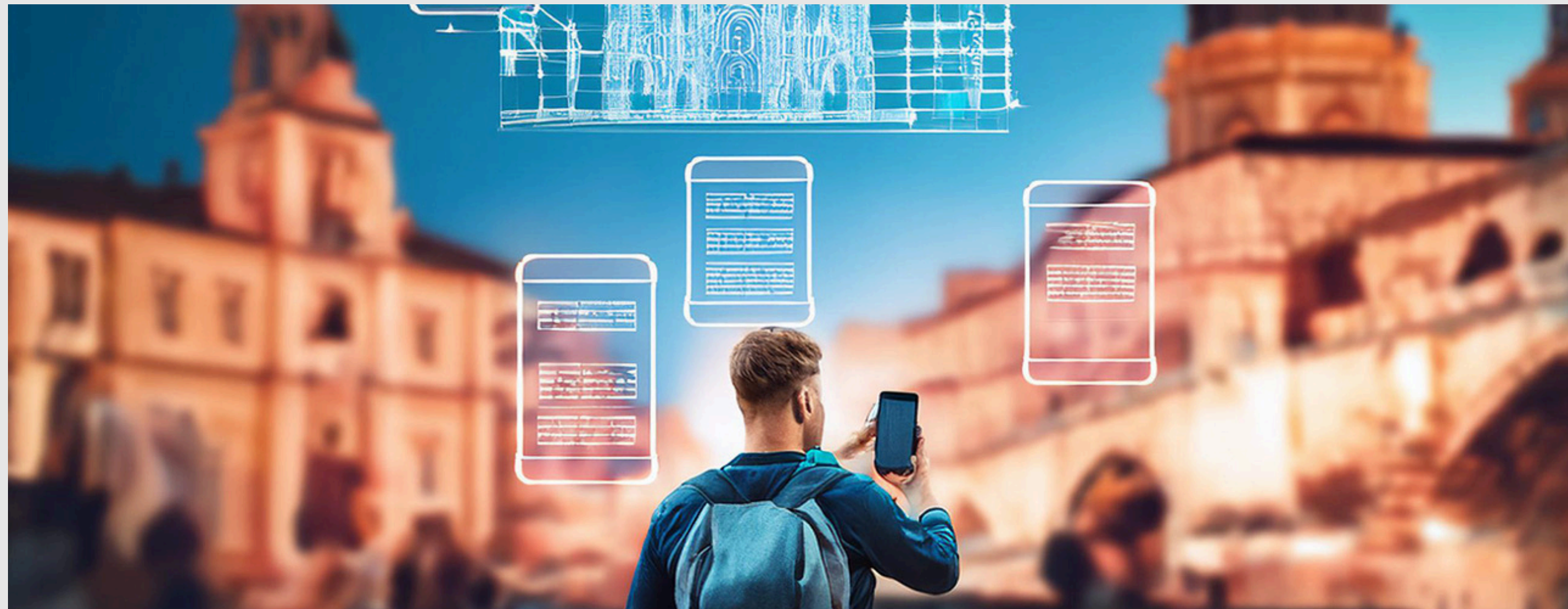


4D Reconstruction for cultural tourism (UC-4)

At INDUX-R, we're transforming the future of cultural tourism through the "city digital twin" concept.

Use Case 4 explores how 4D reconstruction technology can revolutionize the way we explore and experience cities, merging virtual tours with real-world adventures. This seamless integration allows visitors to dive into immersive, interactive experiences, offering new horizons for cultural exploration.

Whether virtually visiting iconic landmarks or enhancing on-site experiences, INDUX-R is paving the way for a new era of travel, where the physical and digital worlds unite in unforgettable ways!



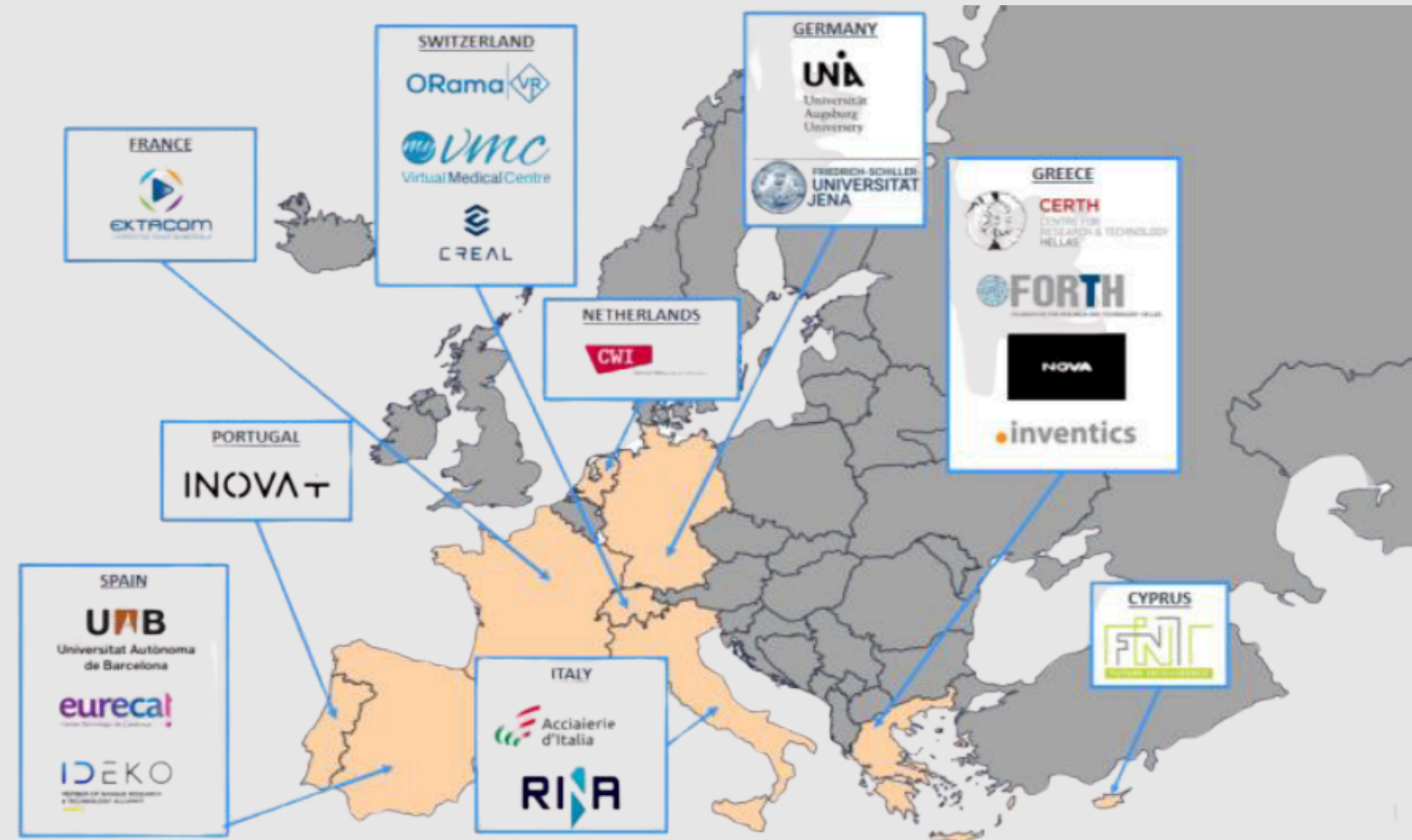
Advancing Sport Immersion with NOMADE Cars (UC5)

The INDUX-R UC5 project is redefining sports engagement through the innovative NOMADE Cars application. By integrating advanced technologies, this initiative enhances the immersive experience for users, offering new ways to interact with and experience motorsports.

Thanks to the valuable contributions of our partners, significant progress has already been made, demonstrating the potential of this cutting-edge solution. As development continues, INDUX-R UC5 aims to set new standards in sport immersion and digital interaction.



Partner countries



Project Partners





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Logo & visual identity

The logo encapsulates our mission, and identity of the **INDUX-R**. It is designed to establish:

- Brand Recognition
- Identity reinforcement
- Connection with the audience



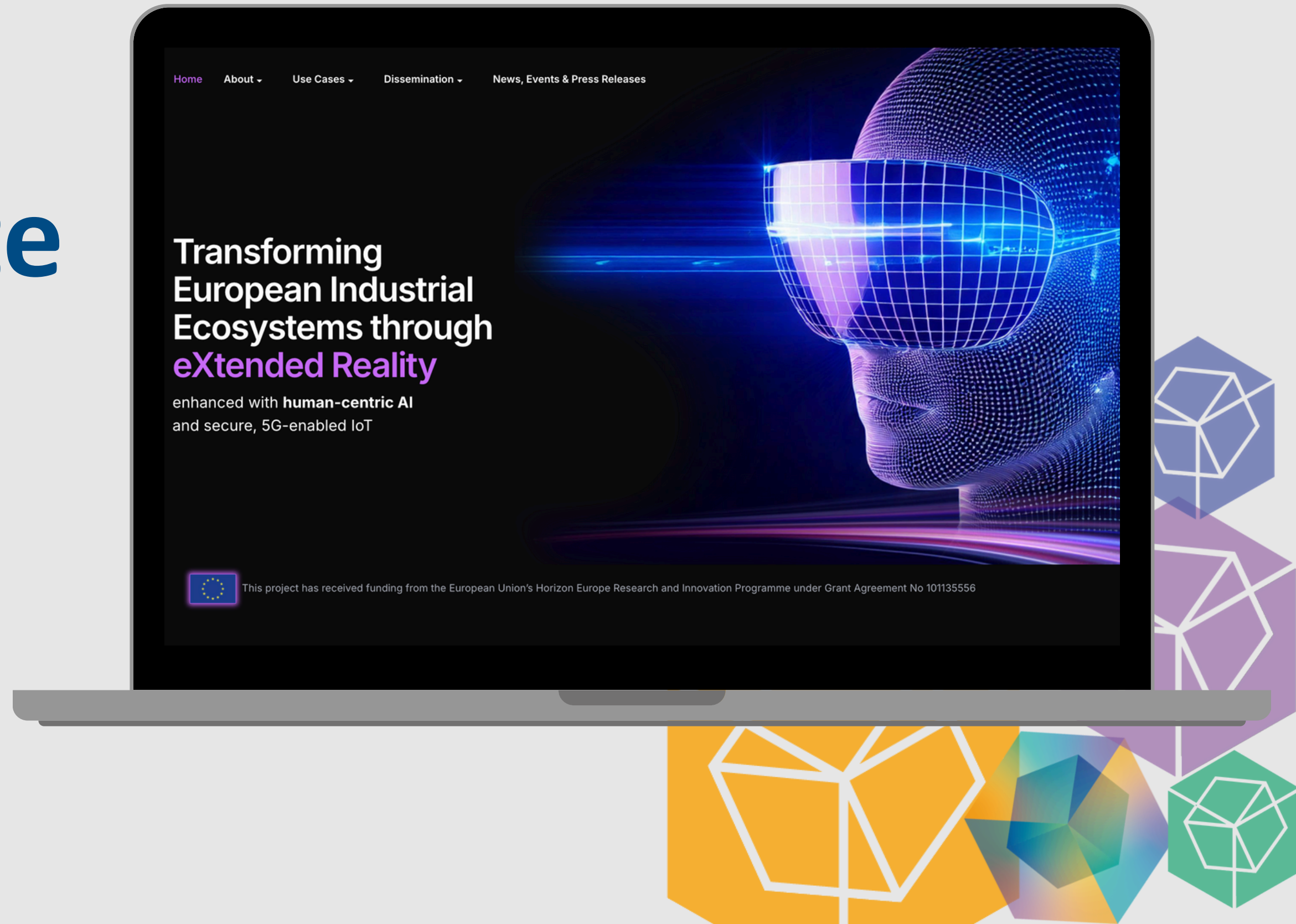
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Project website

Please visit indux-r.eu/
or scan

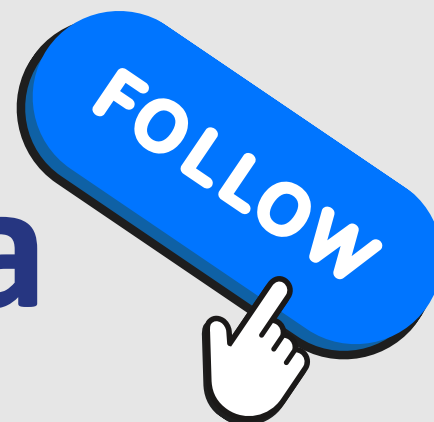




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Thank you for your attention!



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