## **Frequently Asked Questions (FAQs) – INDUX-R**

### **What is INDUX-R?**

**INDUX-R** is a European-funded research and innovation project that aims to create a **human-centric XR (Extended Reality) ecosystem**. It focuses on integrating cutting-edge XR technologies to transform key industrial sectors and improve real-life applications through immersive, scalable, and sustainable solutions.

### **What are the main goals of INDUX-R?**

* Empower human workers through immersive XR tools
* Develop and test breakthrough XR technologies
* Promote ethical, inclusive, and secure XR environments
* Enable scalable, energy-efficient 5G/IoT infrastructure
* Address real societal and industrial needs through use-case driven innovation

### **What technologies is INDUX-R developing?**

INDUX-R focuses on five core XR technology areas:

* **Digitization and creation of XR assets**
* **Realistic animation**
* **Light-field Head-Mounted Displays (HMDs)**
* **XR media streaming**
* **Egocentric perception and interaction**

It also integrates **AI**, **5G**, and **secure IoT networks** to support complex, multi-user XR applications.

### **What makes INDUX-R different from other XR projects?**

Unlike tech-first initiatives, INDUX-R is **application-driven and user-centric**. Real users from various industries guide the development and testing of XR tools. Ethical design, replicability, and long-term societal value are at the core of its approach.

### **Which sectors are involved in INDUX-R’s use cases?**

INDUX-R supports real-life XR applications in five diverse areas:

1. **LiveMediaXR** – immersive, hybrid event planning and interaction
2. **X-Ray Vision for Industry 4.0** – virtual visibility into manufacturing lines
3. **Virtual Medical Training** – collaborative surgery simulations
4. **4D Cultural Heritage Reconstruction** – immersive city “digital twins”
5. **Immersive Sports Broadcasting** – enhanced experiences for remote fans

### **Who is behind INDUX-R?**

The project is powered by a **multi-national consortium of research institutes, tech companies, universities, and end-user partners**, all supported by the European Union’s Horizon Europe programme.

### **How will INDUX-R impact society and industry?**

INDUX-R aims to:

* Enhance **training**, **education**, and **remote collaboration**
* Improve **industrial productivity**, **safety**, and **efficiency**
* Make cultural experiences more **inclusive** and **interactive**
* Reduce resource waste with **scalable, green XR infrastructure**
* Promote XR that aligns with **European values** and **ethical standards**

### **How does INDUX-R handle data security and privacy?**

Security and interoperability are central. INDUX-R develops **zero-touch, secure networks** and follows **GDPR-compliant frameworks**, ensuring that users’ data and rights are protected in XR environments.

### **Will the solutions developed be open or replicable?**

Yes. INDUX-R is committed to **replicability and scalability**, meaning solutions can be adopted across various sectors and adapted for broader societal benefits, beyond the initial use cases.

### **Can I get involved in the project?**

The project welcomes collaboration through workshops, demos, and public events. You can follow updates on the [official website](https://indux-r.eu/) or social media platforms to stay engaged.