

Virtual Worlds Connect

Brokerage event

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Type: Research Public Institute (academic)

Country: Portugal

- ✓ HumanISE (Human-Centered Computing and Information Science)
- ✓ Expertise of the organisation/department: XR/immersive environments, digital twins, interoperability, AI-assisted interfaces, Human Centered AI



Addressed Topics

- ✓ **TOPICS: Virtual Worlds for Digital Twins** (interoperable immersive environments, immersive platforms, orchestration & interoperability for Digital Twins)
- ✓ **Role:** Researcher / project/WP coordinator (INESC TEC)
- ✓ **Contribution:** Virtual Choreographies (VChor) framework for coordinating twin services + XR platforms (VR/AR/mobile)

Technology / expertise

- ✓ Digital twin architectures; real-time data integration; simulation-driven decision support tools
- ✓ Semantic interoperability (APIs, knowledge graphs/Linked Data, service choreography)
- ✓ Immersive analytics & interaction (Quest/Apple Vision Pro/mobile AR);
- ✓ Collaborative XR with AI assistants/avatars

Experience / cooperation

- ✓ Experience: Ocean/energy digital twins (e.g., oil spill response); Industrial, Defense, Health Scenarios with Immersive platforms;
- ✓ Open to: EU consortia & pilots; twin platform providers; XR/virtual worlds tech; standards/interoperability partners
- ✓ Seeking: partners for demonstrators in climate/security/health/defense/supply chain and industrial training scenarios



Relevant calls

- ✓ HORIZON-CL4-2026-04-HUMAN-01
- ✓ HORIZON-CL4-2026-04-HUMAN-02
- ✓ DIGITAL-2026-AI-09-VIRTUAL-TESTBEDS-STEP
- ✓ CREA-CROSS-2026-INNOVLAB Creative Innovation Lab
- ✓ HORIZON-CL2-2026-01-HERITAGE-01 – “Artistic intelligence”
- ✓ HORIZON-HLTH-2027-03-TOOL-04: Virtual Human Twins (VHTs)

