Virtual Worlds Connect Brokerage Event

II Edition

October 5-6, 2026

Industry Contact Point Digital Transformation

Industry Contact Point Industry 4.0

Ministry of Science and Higher Education Republic of Poland

XR 4EUROPE

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AVRE

DeuSens Hyperxperience

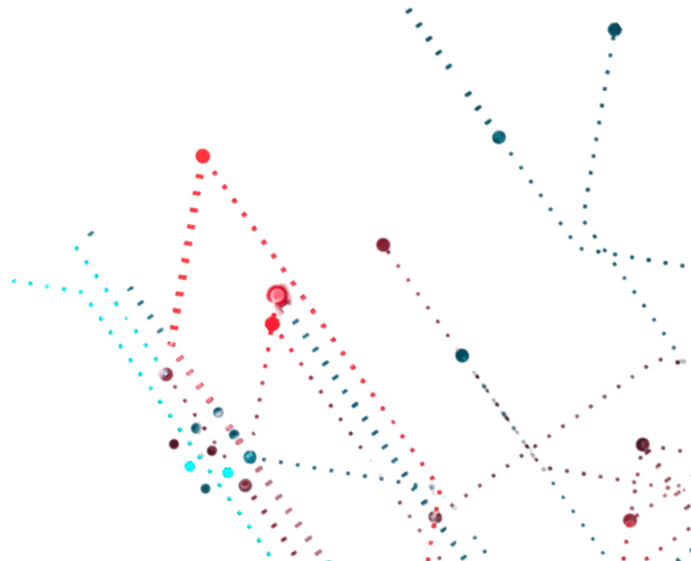
Type: SME, private company
Country: Spain

- **Department:** immersive tech, digital twins & AI · robotics unit
- **Expertise:** 3D capture, digital twins, VR/AR/MR, AI avatars
- **Track record:** 20+ heritage and tourism deployments

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Project idea

- **Topic:** HORIZON-CL2-2027-01-HERITAGE-06 · Future-proofing sustainable cultural tourism (RIA)
- **Focus 1:** transformative AI integration and strategic foresight for cultural tourism resilience
- **Title:** ANTICIPA · Anticipatory heritage twins for resilient cultural tourism (working title)
- **Our role:** Technology WP leader: 3D capture, digital twin platform, XR and AI experiences, pilot deployment
- **Coordination:** open to a university or RTO as coordinator



Project description

A future-proof heritage twin for future-proof tourism. Built on 3D Gaussian Splatting today, open to any capture technology that emerges in 2027-2031, and combined with AI foresight so sites move from reactive management to anticipatory governance.

Capture	Open data	Experience	Anticipation
3DGS from phones, drones, scanners · adapters for 4D and new methods	Semantic, standards-based, linked to the ECCCH	Remote VR, on-site AR, web, AI avatar guides	AI what-if scenarios on flows, capacity and climate · ethical AI

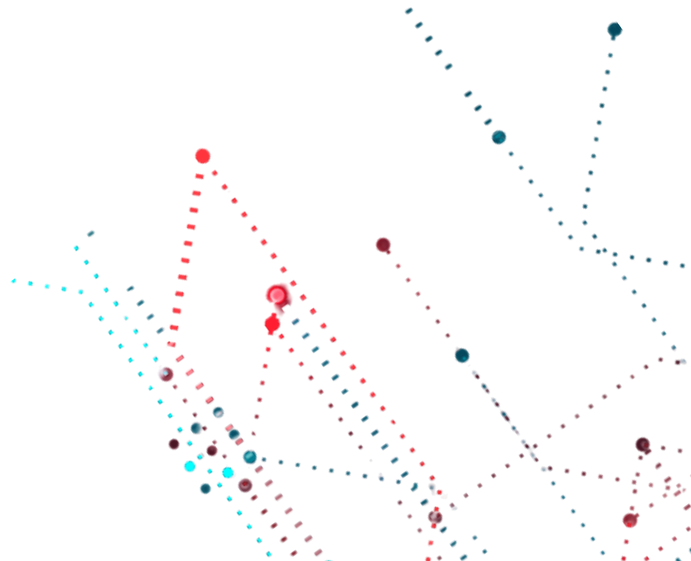
Three research lines on one twin

A · Living observatory
Periodic re-captures detect physical change: visitor wear, erosion, climate

B · Hybrid visit
Does a high-fidelity virtual visit replace, shift or complement the physical one?

C · Community capture
Low-cost capture gives peripheral destinations a real digital presence

4-year roadmap: Y1 static 3DGS + pilots · Y2 4D, metric fusion, autonomous re-capture · Y3 fast/generative reconstruction, AI agents · Y4 integrate what emerged



Partners sought

- **Current consortium:** DeuSens (ES), technology partner · open to build
- **Coordinator:** university or RTO in cultural tourism or heritage
- **SSH partners:** tourism studies, behavioural research, policy and foresight
- **Research groups:** computer vision and AI (3DGS, 4D reconstruction, foresight models)
- **Pilot sites:** an overcrowded hotspot, a fragile site and a rural destination
- **Also:** ethics and accessibility expertise

More about our work

deusens.com/en/portfolio/san-juan-de-la-pena-immersive-hub-vr-ar-ai
deusens.com/en/portfolio/dive-into-heritage-unesco-web-plataform
deusens.com/en/portfolio/immersive-tourism-augmented-reality-cinco-villas

