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

XR POLSKA
POLSKA FUNDACJA RZECZYWISTOŚCI ROZSZERZONEJ

AVRE

MindEasy

Type: SME – neurotechnology R&D

Country: Poland, Toruń

- **Department:** R&D – neurotechnology, psychology & XR
- **EEG / qEEG** neurofeedback and passive brain-computer interfaces
- **Own EEG hardware** with biometric sensing + real-time signal-processing software
- **Neuro-adaptive content:** EEG-driven personalisation of VR scenes and LLM-based learning
- **Track record:** ReMINDer – BCI + VR for EMDR (HCist 2024); MindEasy (Springer, 2025)

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Project idea

TOPIC

HORIZON-CL2-2027-01-HERITAGE-04

Culture, heritage and creative industries for health and well-being

RIA · €3–4 M per project · opens 13 May 2027 · deadline 23 Sep 2027

Also relevant: HORIZON-CL4-2027-04-HUMAN-01 (hardware incl. non-invasive BCI for Virtual Worlds)

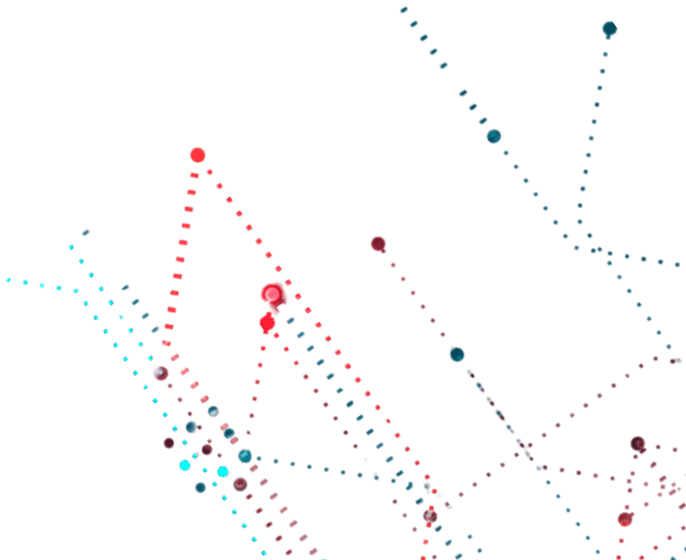
WORKING TITLE

NeuroScapes – neuro-adaptive immersive cultural experiences for mental health and well-being

OUR ROLE

Work Package leader: neuro-adaptive XR & impact measurement

EEG / biometric sensing · adaptive engine · validation studies



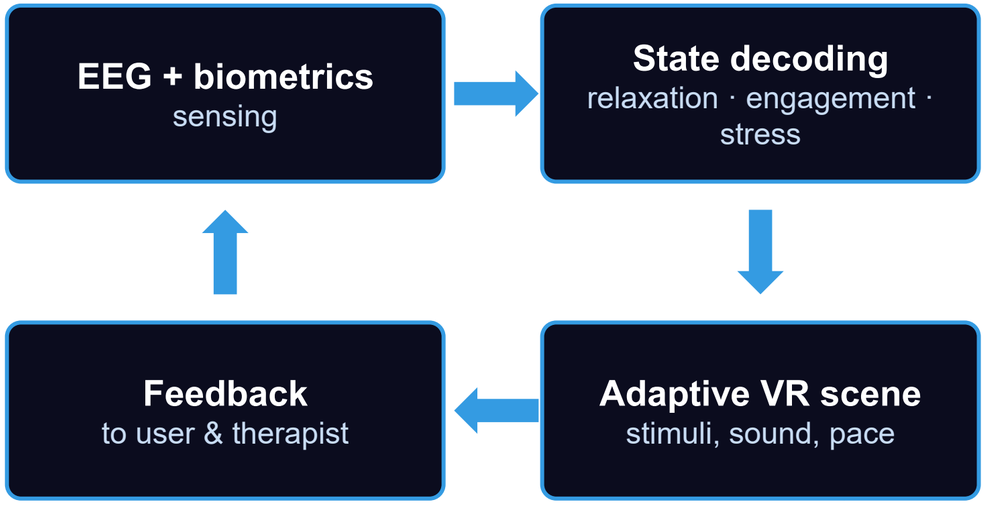
Project description

Challenge: culture supports health (WHO), but which features of an experience actually help is rarely measured objectively.

Idea: co-create VR experiences (heritage, art, music, nature, games) → read brain & body signals live → adapt the scene to the user's state.

Validation: well-being and clinical pilots – stress, anxiety, trauma-focused therapy, cognitive training.

Outputs: open neuro-adaptive XR toolkit + evidence-based guidelines for cultural & creative sectors.



PROOF OF CONCEPT **ReMINDer – EEG neurofeedback in VR for EMDR therapy (HCist 2024)**

Pilot build: 8-channel EEG (g.tec Unicorn) → LSL + Python (mne-lsl) → Unity via UDP. Alpha power drives the stimulus colour, delta power the music volume. Next step: clinical validation.

Partners sought

Current: MindEasy (PL) – neurotech & XR, WP leader [+ partners]
Open: coordinator – university / RTO with Cluster 2 experience

Clinical & psychology

Who
Psychologists, psychotherapists (incl. EMDR-trained), psychiatrists, university hospitals

Role
Co-design protocols, ethics, run well-being & clinical pilots

VR / XR developers

Who
Unity / Unreal developers, game studios, UX & 3D designers

Role
Build and scale the apps on our EEG pipeline

Cultural & creative

Who
Museums, heritage institutions, artists, music & game studios

Role
Create the immersive content – core to HERITAGE-04

Let's talk → lukasik.albert@proton.me · mindeasy.me

