

SEPTEMBER 2025 TO JANUARY 2026



COST ACTION 24123

NEWSLETTER



Official launch

On 24 September 2025, COST Action “Extended Reality Neurorehabilitation of Spatial Neglect and Related Disorders After Brain Injury” was launched. The Action unites clinicians, researchers, XR developers, and patient representatives across Europe to advance extended reality as an innovative approach to diagnosing and treating spatial neglect.

The initiative aims to improve the accuracy, realism, and individualisation of neurorehabilitation by using XR to simulate daily-life environments and capture precise behavioural data.

Over its 4-year duration, neuroXRehab will develop expert guidelines, define common data elements, define the parameters of a shared data platform, and prepare multicentre studies to evaluate XR’s clinical impact.

NeuroXRehab Kickoff Meetings

The neuroXRehab COST Action officially launched its scientific and clinical roadmap during a successful Kickoff Event in Leuven (Belgium) from the 7th to the 9th of January, 2026. This gathering brought together 75 clinicians, researchers, and developers to bridge the gap between traditional neuropsychology and extended reality technology.



Led by Céline Gillebert (KU Leuven), the 33 members of **Working Group 1** focused on coordinating the scientific agenda for a comprehensive meta-study. This group is establishing the bedrock of the Action by synthesizing latest evidence on methodology and aligning definitions of neglect subtypes.

Working Group 2, led by Hanne Huygelier (KU Leuven) and co-led by Daniele Romano (University of Milano-Bicocca), convened 51 participants to address the "assessment gap." Traditional 2D tests often fail to capture neglect in dynamic 3D spaces, leading to diagnostic "ceiling effects." To bridge this, WG2 is operationalizing XR-native features, such as gaze and head orientation, to move assessment from the "Body Function" level to Functional Cognition (ICF Activity and Participation). These tools are being designed as hardware-agnostic, ensuring clinical data remains valid across all XR platforms.



Contact us if you want to join NeuroXRehab!



With the largest turnout of 57 participants, **Working Group 3**, led by Britta Stammler (University of Tübingen) and co-led by Dario Cazzoli (University of Lucerne), focused on the transition to intervention. A key shift was identifying patients and caregivers as central stakeholders in the treatment phase. The team is coordinating with WG2 to address shared needs in safety, usability, and implementation.

Save the date - neuroXRehab Madeira Meetings

We are pleased to announce that the neuroXRehab will host a three-day event in Madeira in May 2026.

- 18 May 2026 – WG1 Training School
- 19 May 2026 – WG2 and WG3 Meeting
- 20 May 2026 – WG4 (Creation of a Data Collection and Sharing Policy/Platform) Kickoff Meeting.

Location: University of Madeira Rectorship
Colégio dos Jesuítas - Rua dos Ferreiros
9000-082 Funchal - Portugal

More details will follow soon.

