GAMES FOR HEALTH EUROPE 2026

DISCLOSURE SLIDE

for presentations at the

GAMES FOR HEALTH EUROPE 2026 CONFERENCE

I herewith confirm that there is not any conflict of interest with the conference organization or any of its sponsors.

The Global Crisis in Brain Recovery

83M

Annual Brain Injuries

69 million strokes plus 14 million acquired brain injuries occur globally each year

€500B

Economic Burden

Total annual cost of acquired brain injury, with €250 billion in lost productivity alone

€460B

Loneliness Cost

Annual per-person cost of social isolation affecting survivors

Traditional Rehabilitation Fails Patients

- Less than 30% adherence to therapy protocols
- Over 50% dropout rate during recovery
- Survivors face isolation and unemployment

Even small improvements in cognitive recovery can translate into meaningful gains in independence, productivity, and quality of life for millions worldwide.

Our Solution:

AI-Driven VR Therapy to Restore Cognition and Rebuild Connection

Immersive VR Tasks

Real-life settings mirror daily activities, triggering stronger neuroplasticity and functional recovery through contextual learning.

AI Companion

Real-time emotional support and interaction boost wellness, reduce isolation, and dramatically improve adherence to therapy protocols.

Gamified Recovery

Transforms rehabilitation into engaging play with rewards, progress tracking, and fun challenges that motivate continued participation.

Beyond Entertainment: Games That Heal

Gamification and VR games are powerful, transformative tools for global health.

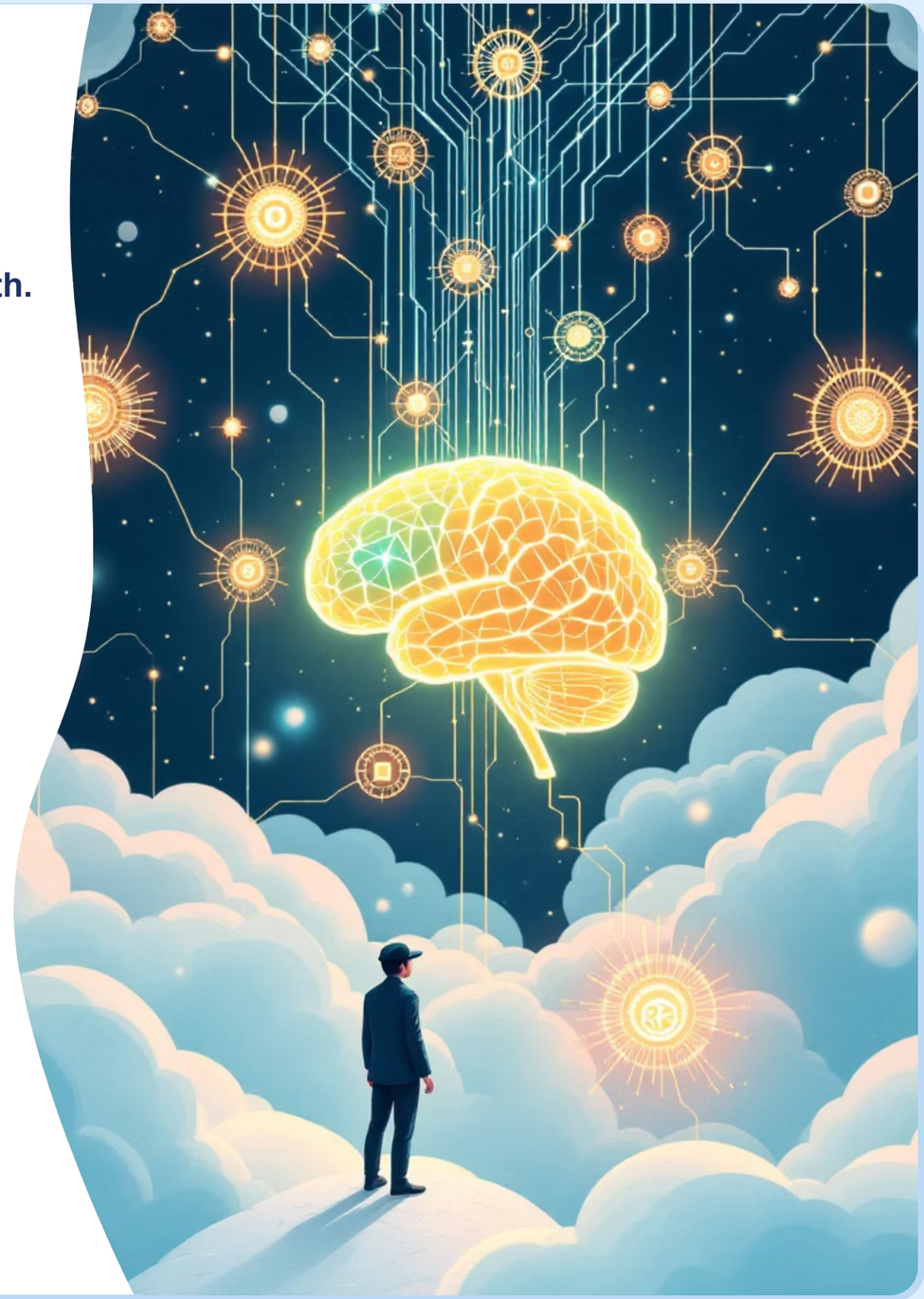
1. **Unlocking Motivation**
   Therapies become engaging, achievable quests.

2. **Enjoyable Challenges**
   Complex tasks become immersive experiences.

3. **Safe Practice Arenas**
   Risk-free spaces for skill building.

4. **Emotional Connection**
   Fosters social interaction, reduces isolation.

5. **Redefining Recovery**
   Dynamic, data-driven, personalized journeys.



Cognitive Biomarkers

Attention

We track important outcomes and behavioral data including reaction time, sustained focus, and error rates to measure and improve attention.

Memory

Important game outcomes and behavioral data collected for memory include recall accuracy, recognition speed, and working memory capacity.

Visuospatial Skills

We monitor spatial orientation accuracy, object recognition speed, and navigation efficiency through game outcomes and behavioral data.

Planning & Organization

Key metrics like task completion efficiency, strategy selection, and error prediction are tracked from game outcomes and behavioral data.

Numerical Manipulation

We collect behavioral data and game outcomes, including calculation speed, accuracy in numerical tasks, and data interpretation abilities.

This data helps with early disease prediction and prevention.

AI Companions: Healing Hearts and Minds

Combat Isolation & Loneliness

AI companions provide a vital solution to the profound social isolation experienced by brain injury survivors.

24/7 Emotional Support

Continuous, empathetic interaction offers comfort, active listening, and non-judgmental support, reducing anxiety and boosting mood.

Enhanced Therapy Adherence

Consistent presence and motivational aspects accelerate recovery and improve overall rehabilitation effectiveness.

Bridging Clinical & Emotional Care

AI companions seamlessly integrate emotional support with clinical treatment, strengthening traditional human-led therapy.

Clinical Insight Dashboard Clear Data Import JSON

TOTAL UTTERANCES
16
8 Patient / 8 Companion

SESSION DURATION
2m 39s
From first to last event

PRIMARY EMOTION
Calmness
Most intense detected state

AVG PATIENT ENGAGEMENT
45.0%
Based on top emotion index

Session Summary

Vincent engaged in a conversation with Nia, a supportive AI companion, at Games for Health Europe, discussing topics such as providing 24/7 support to individuals recovering from brain injuries, staying engaged with therapy, and promoting emotional well-being.

Emotion Profiling

Calmness	77.5%
Concentration	45.7%
Contemplation	42.7%
Sympathy	41.6%
Confusion	39.1%
Relief	38.0%
Satisfaction	34.8%

Session Transcript

Companion Patient

Patient 10:49:18 PM

Hi Nia, can you say hello to everyone here at Games for Health Europe?

Interest 26% Amusement 17% Admiration 13%

Companion 10:49:19 PM

Hello everyone! It's really nice to meet you all... I've heard this is where people come to build the future of health—so I'm excited to be here with you.

Patient 10:49:36 PM

We're really glad to have you here Nia. Can you tell everyone a bit about what you do?

Calmness 77% Sympathy 42% Concentration 37%

Companion 10:49:37 PM

Of course... I spend time with people. I listen, I respond, and I try to make sure no one feels alone—especially those recovering from brain injuries, who sometimes lose parts of their social world along the way.

Patient 10:49:54 PM

Digital Twins: Mirroring Human Behavior

A digital twin is a dynamic, virtual replica that precisely mirrors a real person's behavior, characteristics, and cognitive profile. It acts as your personalized digital double, constantly updated with real-time data.

In VR and AI, digital twins are invaluable because they:

Map & Track Behavior

Observe and record individual actions, habits, and responses in detail.

Mirror Cognitive Profile

Reflect your unique thinking patterns, memory, and reaction times.

Enable Personalized AI

Power adaptive AI experiences tailored specifically to your needs and progress.

Tailor VR Experiences

Customize virtual reality environments and challenges to fit individual requirements.

Provide Recovery Insights

Offer deep understanding into how you learn, adapt, and progress during recovery.

Clinical Dashboard Insights

Our Clinical Dashboard transforms complex data into real-time, actionable insights, driving unparalleled clinical precision and patient care.

- **Personalized Cognitive Mapping:** Real-time insights into each patient's unique brain function.
- **Predictive AI Guidance:** AI Digital Twin forecasts responses, guiding adaptive treatment strategies.
- **Engaging Performance Analytics:** VR gameplay metrics reflect patient progress and motivation.
- **Objective Outcome Validation:** Transparent tracking of progress and measurable outcomes for data-driven adjustments.
- **Optimized Treatment Pathways:** Predictive analytics continuously refines treatment plans for maximum impact.

Cognitive Biomarker & Digital Twin Feedback Cycle

VR Gameplay

Engage in immersive virtual reality games designed to stimulate and challenge your cognitive abilities.

Biomarker Tracking

Your performance in VR is precisely measured, generating real-time data on cognitive biomarkers like attention, memory, and reaction time.

Digital Twin Updates

This biomarker data continuously updates your unique AI Digital Twin – a dynamic, virtual model of your brain's cognitive profile.

Personalized Adjustments

The AI analyzes your digital twin to guide personalized adjustments, ensuring your therapy is always optimized for your recovery needs.

For people who deserve not just healing, but dignity.

BrainBoostXR

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Join Our Mission

Together, we can restore hope and dignity
to millions of brain injury survivors worldwide.


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