

LHINOS System Overview V1.0

Research Collaboration Edition - 2026

Core design principle: The human decides; AI supports.

1. What is LHINOS?

LHINOS is a persistent personal AI-supported system designed to help people understand situations, identify knowledge gaps, learn, reflect, evaluate alternatives, make their own decisions, act on them and review subsequent outcomes.

The scientific programme does not assume that this architecture is effective. It is designed to test clearly defined hypotheses independently.

2. Core interaction architecture

Biography → Life Map → Life State → Question → Information Gap → Knowledge → Options → Decision → Action → Outcome → Review → Life State Update

The system differs conceptually from a one-off chatbot interaction by maintaining context over time and reconnecting decisions with later outcomes.

3. Key research concepts

Biography

Longitudinal personal context. It is not automatically research data.

Life Map

A structured personal orientation model. It is not a clinical or psychological diagnosis. Numerical dimensions require separate psychometric validation.

Life State

A dynamic representation of changing conditions over time. Scientific validity must be established per variable.

Human Agency

The ability to understand information and alternatives, critically evaluate AI output, formulate preferences, make an intentional decision and retain responsibility.

Life Decision Improvement

A product-level evaluation framework that should initially be decomposed into separate outcomes rather than treated as a validated single score.

4. Research hypothesis

Can a persistent, personalised AI system measurably strengthen human reflection, learning, judgement and agency while preserving human autonomy and responsibility?

5. What LHINOS does not yet claim

- The complete system has been scientifically validated.
- The Life Map is already a validated psychometric instrument.
- Human Intelligence is an established new psychological factor.
- LHINOS improves wellbeing, intelligence or decision quality.
- LHINOS outperforms generic LLM assistants.

6. Initial European research streams

Research stream	Scientific role
Mallorca Living Lab	Feasibility, real-world use, longitudinal research
Psychometric Validation	Construct definition, items, scoring, longitudinal measurement
Human-AI Augmentation	Generic AI vs structured personal AI, learning transfer and agency

7. Research principles

- Independent scientific evaluation and freedom to reject hypotheses.
- Validated external measures where appropriate.
- Clear separation between exploratory and confirmatory findings.
- Privacy by design and data minimisation.
- Scientific claims should never exceed the evidence supporting them.

8. Long-term objective

The objective is not a university endorsement programme. It is a research infrastructure capable of answering individual questions about measurement, effectiveness, safety and human-AI interaction, leading over time to validated instruments, controlled studies, peer-reviewed publications and independent replication.