SEISMEC

Framing AI for a Flourishing Workplace

Prof. dr. Jason Pridmore | Erasmus University

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A brand -new wave of
human -centric ,
tech -enabled ,
collaborative
Industry 5.0 workspaces

About SEISMEC

SEISMEC will shape a **future of work** that is both productive and enriching, with a focus on creating **sustainable work environments** that prioritize employee well-being and fulfillment.

At its core, the project is a mosaic of **piloting experiences** that come together through the unconventional lens of social sciences and humanities.

SEISMEC will demonstrate an **empowered**, **human-centred** and **ethical** development of digital and industrial technologies in a wide array of industrial sectors and contexts.

SEISMEC SHIFT

The SEISMEC SHIFT advocates for a brand-new Industry 5.0 framework that strikes the right balance between disruptive technology and human-centricity and operates on the premise that workers' empowerment and industrial competitiveness are complementary forces.

THE EXPECTED IMPACT OF HUMAN-CENTRIC DESIGN

- ▲ **10-15%** WORKER AUTONOMY
- ▲ **30%** TECHNOLOGY ACCEPTANCE
- ▲ **10%** PRODUCTIVITY
- ▼ **40%** TESTING & ERROR CORRECTION

The AI Challenge

AI in the workplace: what are we really trying to achieve?

- It’s everywhere.
- Companies say they want to be "human-centric"
- What does that *actually* mean?

Live poll:

What does ‘human -centric AI,’ mean to you?

in 3 words or less

Join at *menti.com* : 1698 7816

Different definitions ⟶ Different solutions

Industry 5.0

- Goes beyond efficiency and focuses on sustainability, resilience, and human well-being.
- AI must support - not replace - human potential
- Rethinks how work is organised and experienced

A taxonomy of human - centric approaches

Three solution pathways to human-centric AI

Each approach responds differently to the human-centric challenge

1. Environmental Design
2. Technology Accountability
3. Human-Infused Design

1. Environmental Design

Focus on ergonomics and personalization

- Interfaces that reduce cognitive load
- Serious games for training and motivation
- Wearables that improve safety and feedback

Transactional solution: optimize human -computer interfaces

2. Technology Accountability

Focus on transparency and oversight

- Explainable AI (e.g., SHAP, LIME)
- Human-in-the-loop (active involvement) / on -the-loop systems (supervisory oversight for critical decisions)
- Auditing, override, and compliance tools

Interventionist solution: build trust and control

3. Human-Infused Design

Focus on co-creation and participation

- Quadruple Helix: Academia, Industry, Government, Civil Society
- ELSA Labs: embedding ethics and social responsibility
- Workshops, design sprints, and ongoing collaboration

Participatory solution:
design *with, not for* people

The goal:

Flourishing! not just productivity.

- Each orientation defines a different workplace set of practices and processes.
- Differently builds for strategic control, engagement, or empowerment?
- Human-Centric AI is a set of choices; continuous, co-shaped choices that shape how people work, feel, and thrive.

Keep in touch!

@seismec.bsky.social

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