

SMIT, VRIJE UNIVERSITEIT BRUSSEL

Human-centred meaningful oversight for trustworthy AI in health

Turning a legal and clinical obligation into workable design requirements

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Brokerage event - Cluster Health & Mission Cancer Brokerage Event – 28 September 2026

Human 'in the loop'

41.7%

**of internal/emergency
physicians followed every
inaccurate
recommendation they
received**

Simulated chest-X-ray study · 127 IM/EM
physicians; 265 physicians in total

Split risk / split responsibility

01 Advice anchors judgement

Incorrect advice reduced diagnostic accuracy—whether labelled AI or human.

02 Expertise does not eliminate susceptibility

Even experienced professionals need calibrated trust, usable uncertainty and routes to challenge.

03 Deployment changes the work

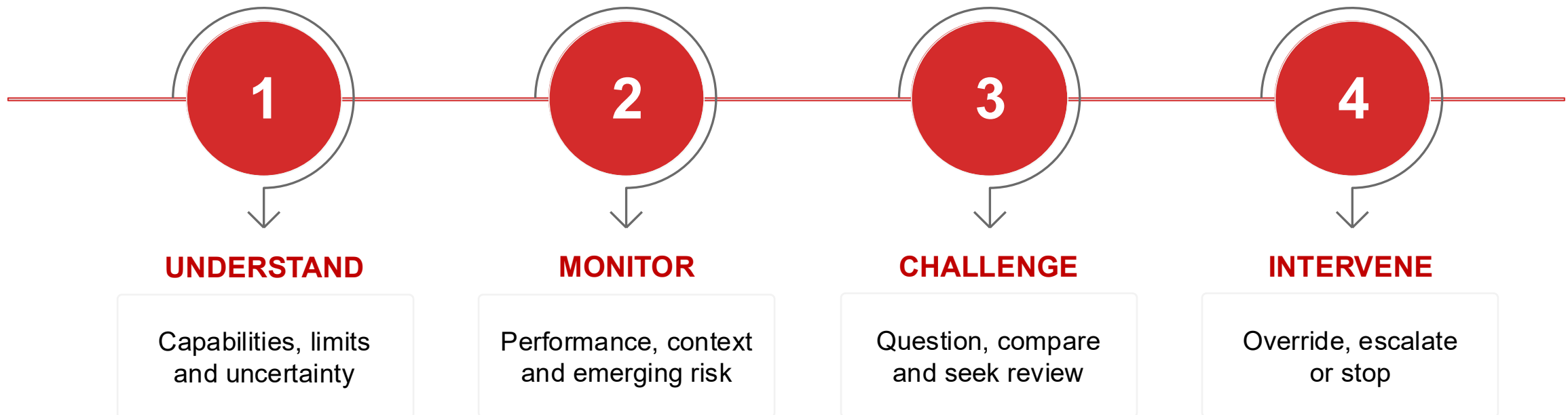
Responsibility, workload, escalation and training must be designed around real clinical practice.

Source: Gaube et al., npj Digital Medicine (2021), open access

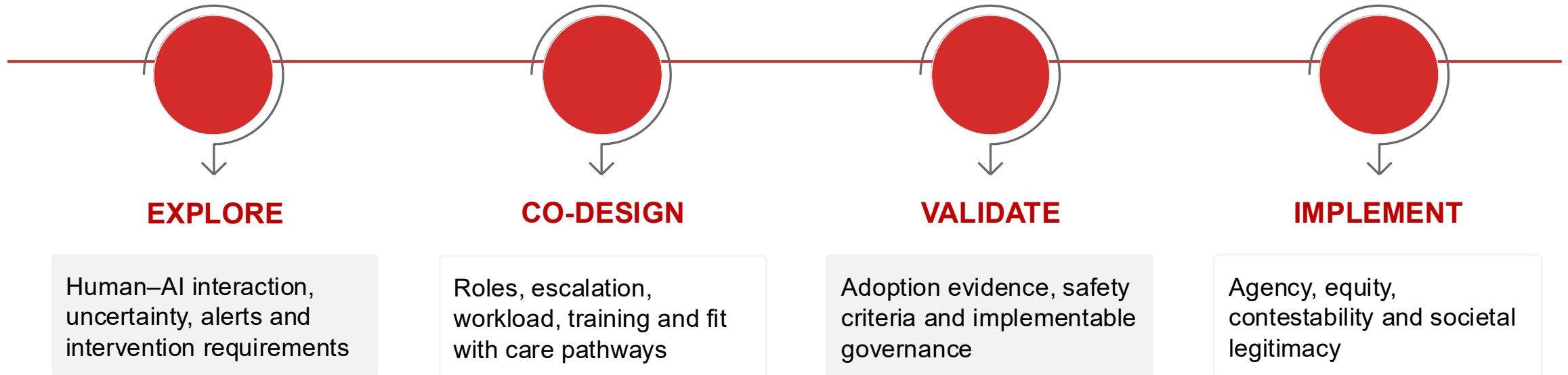
CREATING IMPACT

Effective oversight of AI is an operating capability

A person must be able to (1) understand the system's limits, (2) monitor its use, (3) challenge its output and (4) intervene with real authority.



SMIT SSH methodology for human-centred AI oversight



RELEVANT 2027 CALLS

AI & decision support

HORIZON-HLTH-2027-02-TOOL-01 · HORIZON-HLTH-2027-03-TOOL-04 · HORIZON-HLTH-2027-03-TOOL-08

Personalised health & cancer

HORIZON-HLTH-2027-01-CARE-02 · HORIZON-MISS-2027-02-CANCER-01

Health systems & procurement

HORIZON-MISS-2027-02-CANCER-04 · HORIZON-MISS-2027-02-CANCER-05

SMIT bridges digital health and trustworthy AI

- Leading SSH research center in technology innovation and development
- Strong expertise & track record in health
- Interdisciplinary team of +140 FTE researchers
- Embedded in VUB with links to university hospital

Prof dr An Jacobs

People-centred development of digital applications in the health.

Prof dr Rob Heyman

Societal and ethical governance of data-driven digital applications.

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Relevant expertise & track record

EU HEALTH

- MYPATH,
- SEURO
- MONALISA
- THERMOBREAST

TRUSTWORTHY AI & INCLUSION

- SHALGO
 - DIGIT-ABLE
 - EDIH
 - PEER
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SMIT enabling human-centred meaningful AI oversight before deployment, not after it.

- **Embed dedicated SSH research across design, validation and implementation.**
- **Deliver tested roles, workflows, interfaces and governance requirements**
- **Strengthen trustworthiness, acceptance & adoption, equity and real-world impact**



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Seeking consortia in Digital Health & AI, personalised care and cancer innovation