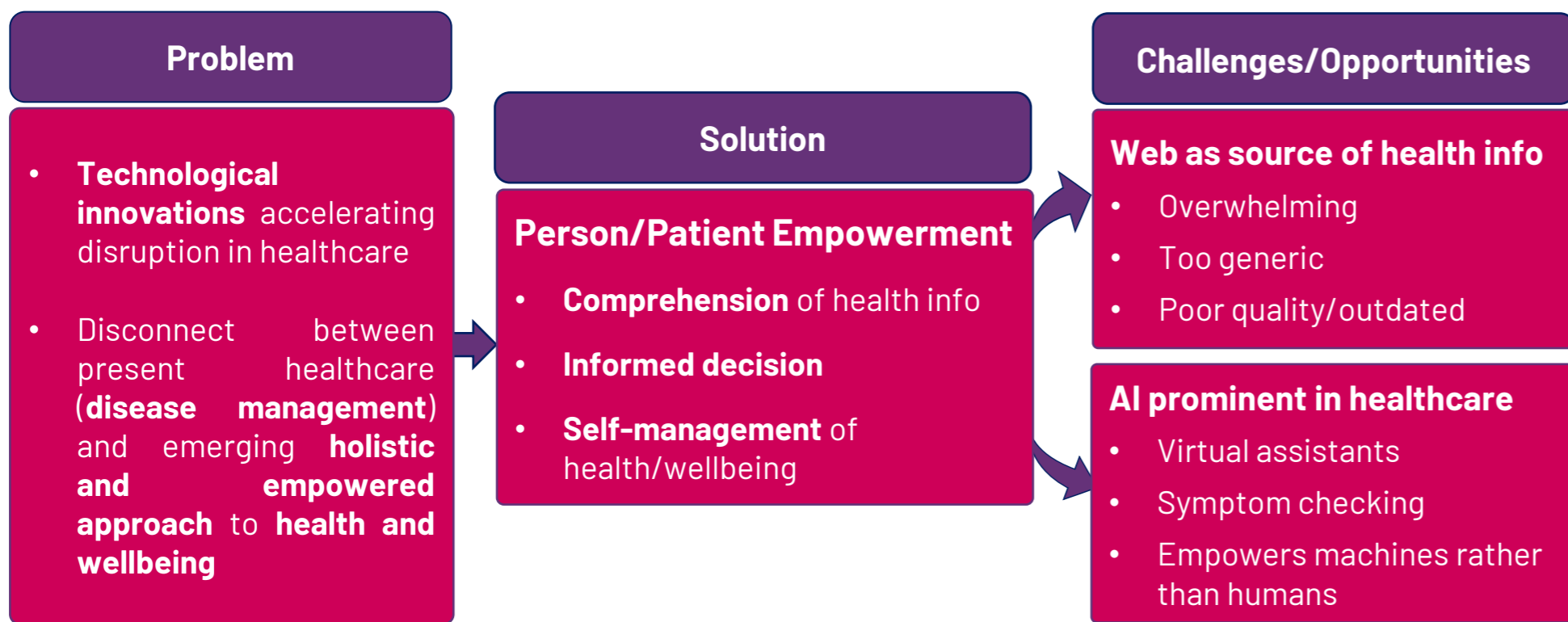


Responsible AI for Person Empowerment on Health and Wellbeing (RIPE)

Marco Alfano, Markus Helfert, Ita Richardson

1 INTRODUCTION - MOTIVATION:



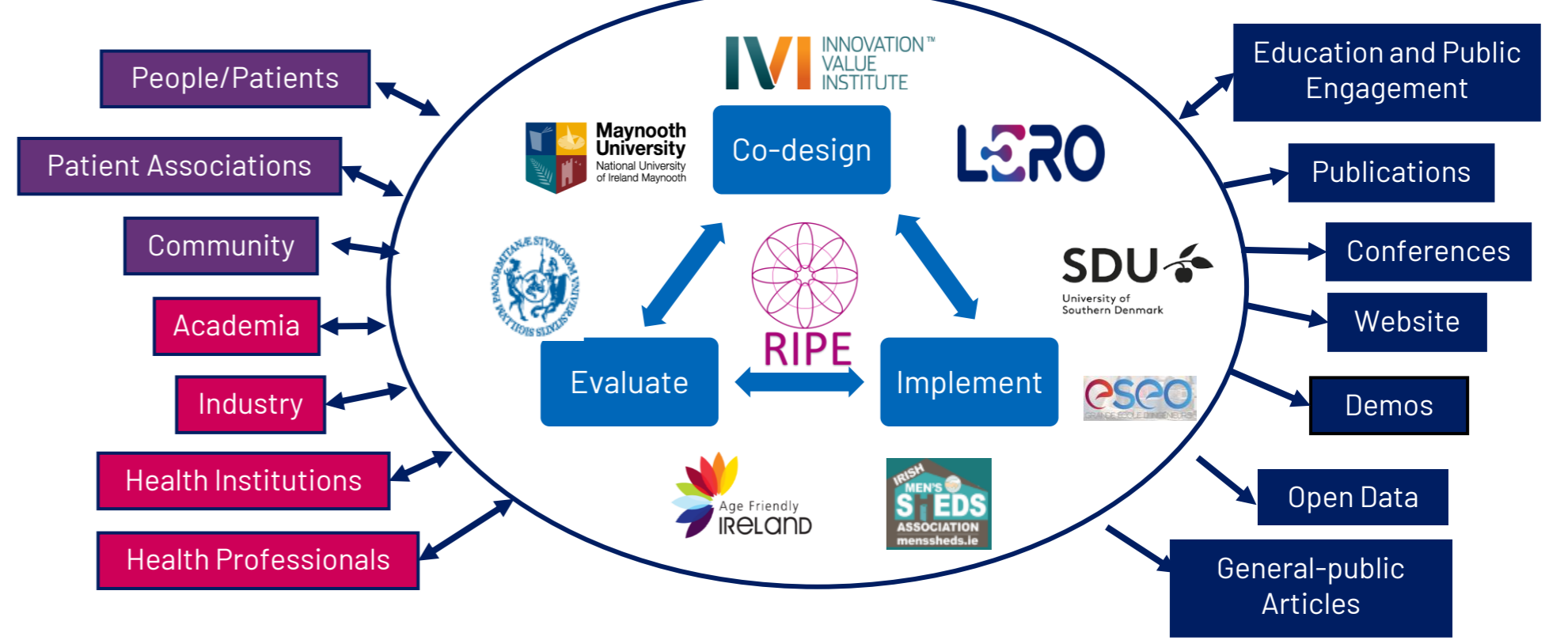
Research Question

How can **Responsible AI** be used to **empower** people and help them better **comprehend** health information/conditions, **make informed decisions**, and **self-manage health and wellbeing**?

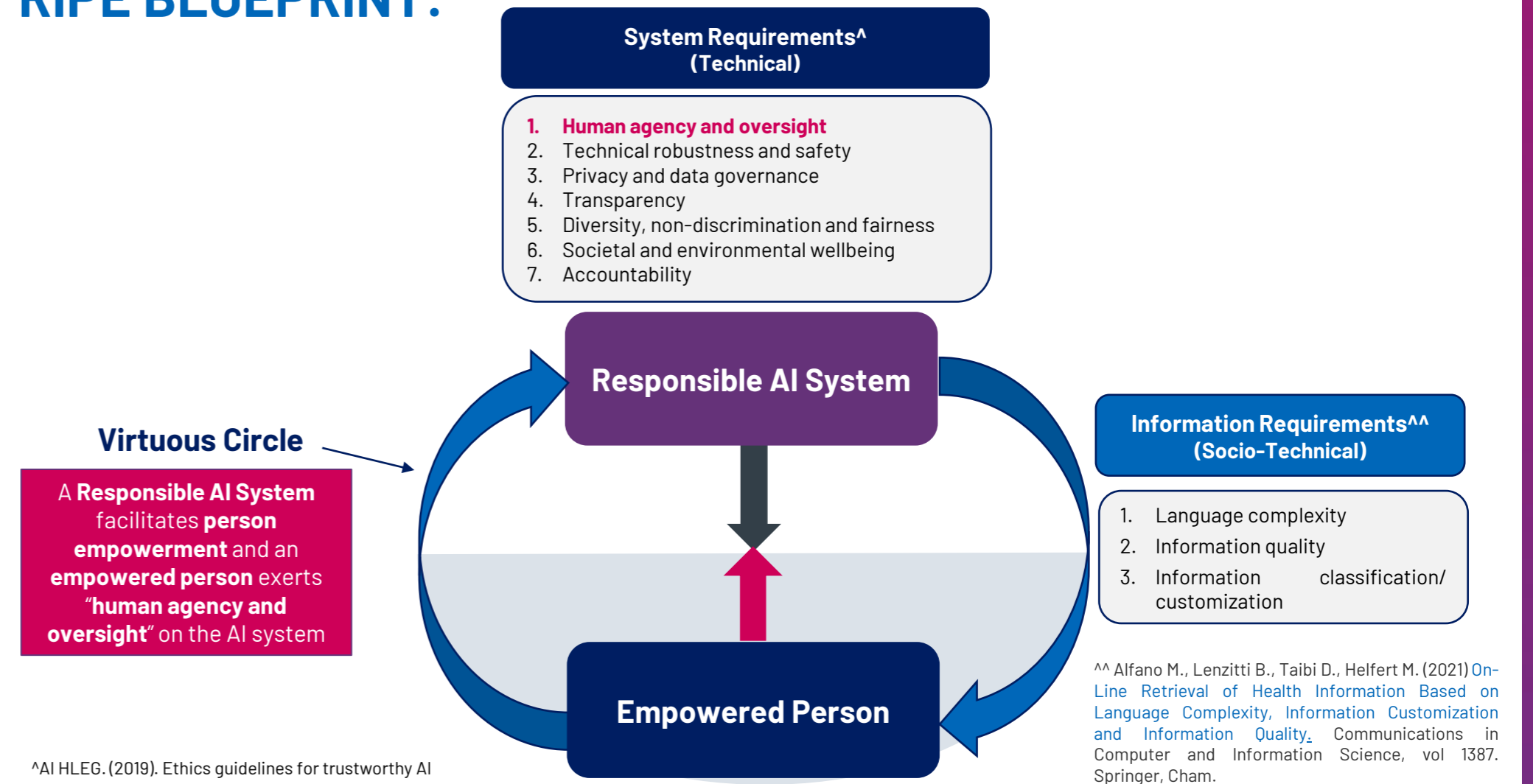
RIPE Basics

- SFI-Lero platform funding
- Strand allocation
 - Methods (primary)
 - Systems and Context (secondary)
- Application domain
 - Health, Wellbeing and Human Performance

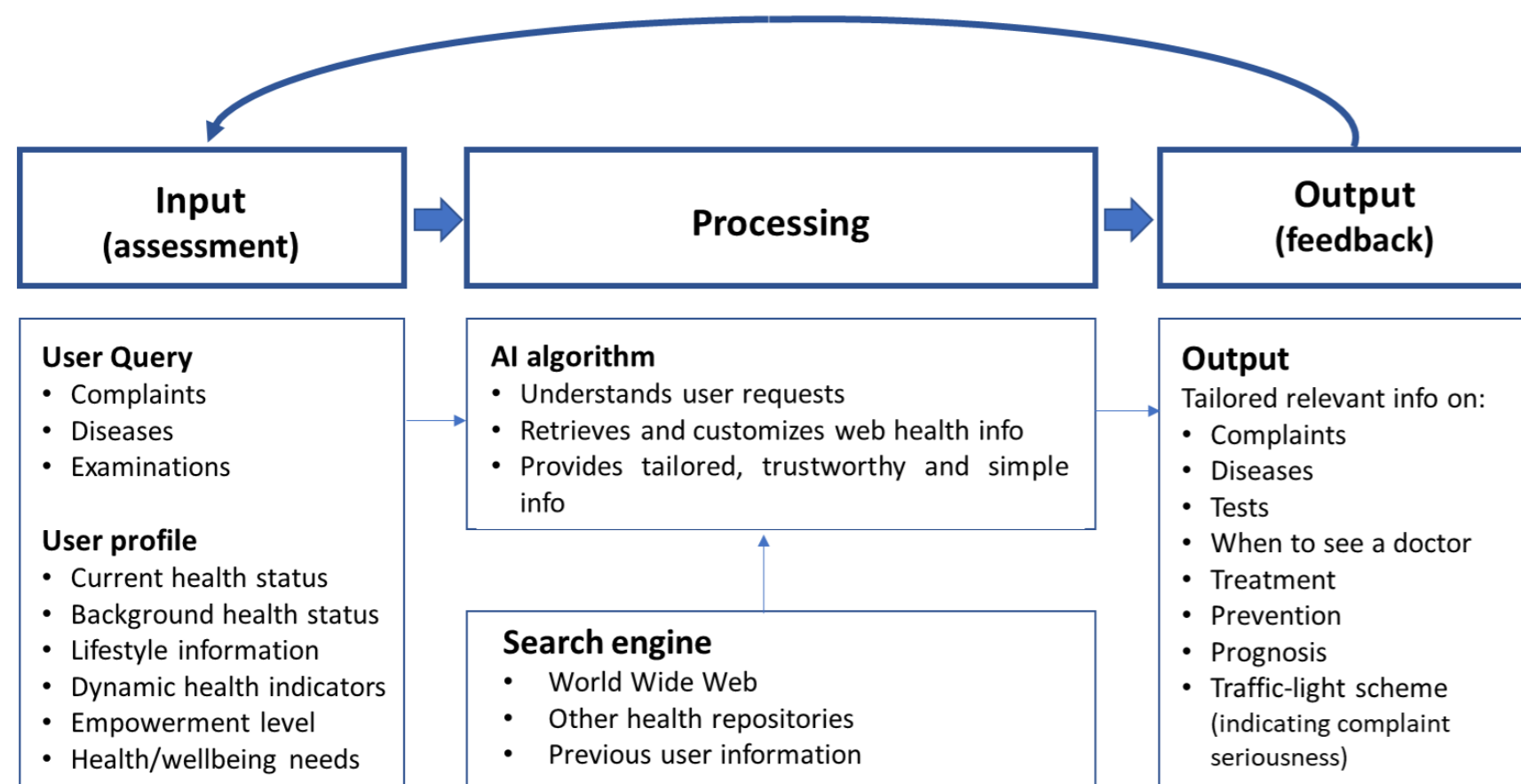
2 MULTISTAKEHOLDER CO-CREATION APPROACH:



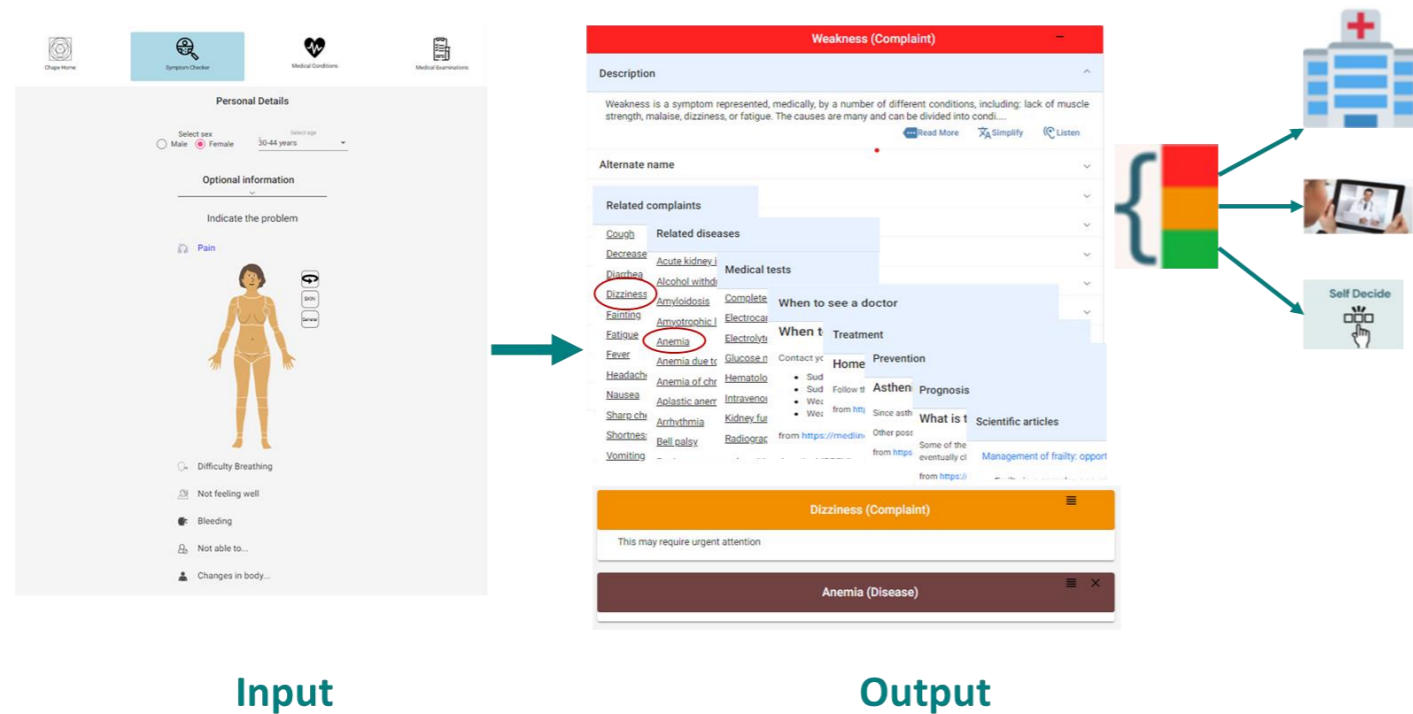
RIPE BLUEPRINT:



3 RIPE PROCESS MODEL:



RIPE Implementation



<http://cohealth.ivi.ie/chape>

4 MAIN OUTPUTS/EPE:

- 6 scientific publications (open access)
- 10 EPE activities and 10 presentations at international conferences/events
- 4 focus groups with members of Kildare Older Person's Council and Naas Men's Shed
- 2 interactive events on health and technology for the general public during MU research weeks 2022 and 2023
- 5 interviews with healthcare professionals
- RIPE use case for Ethical AI Hackathon in EU project on Trustworthy AI
- 2 workshops with HSE students of MSc in Digital Health Transformation
- IVI Webinar on Responsible AI for person empowerment on health/wellbeing
- 2 PPI panels for person-driven integrated health and wellbeing



Next: RIPE II

Use of Advanced Digital Technologies for Integrated Health and Wellbeing of Older People

- Creation of an integrated health and wellbeing model (physical, mental, emotional, social,...)
- Design and development of an intelligent health assistant for the empowerment of older people on integrated health and wellbeing

Selected Publications

- Alfano, M., Kellett, J., Lenzitti, B., Helfert, M. (2023). Intelligent Provision of Tailored, Easily Understood, and Trusted Health Information for Patient Empowerment. In Proceedings of the 16th International Joint Conference on Biomedical Engineering Systems and Technologies (BIOS-TEC 2023) - HEALTHINF.
- Alfano, M., Kellett, J., Lenzitti, B., Helfert, M. (2023). An Intelligent Empowering Agent (IEA) to Provide Easily Understood and Trusted Health Information Appropriate to the User Needs. In: Artificial Intelligence and Cognitive Science. AICS 2022. Communications in Computer and Information Science, vol 1862. Springer, Cham.
- Alfano, M., Kellett, J., Lenzitti, B., Helfert, M. (2022). Characteristics and Subjective Evaluation of an Intelligent Empowering Agent for Health Person Empowerment. Studies in health technology and informatics, 299, 177-182. IOS Press.

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