

DIGITAL CARE IN AGING SOCIETIES

DESIGNING RESPONSIBLE CARE ECOSYSTEMS



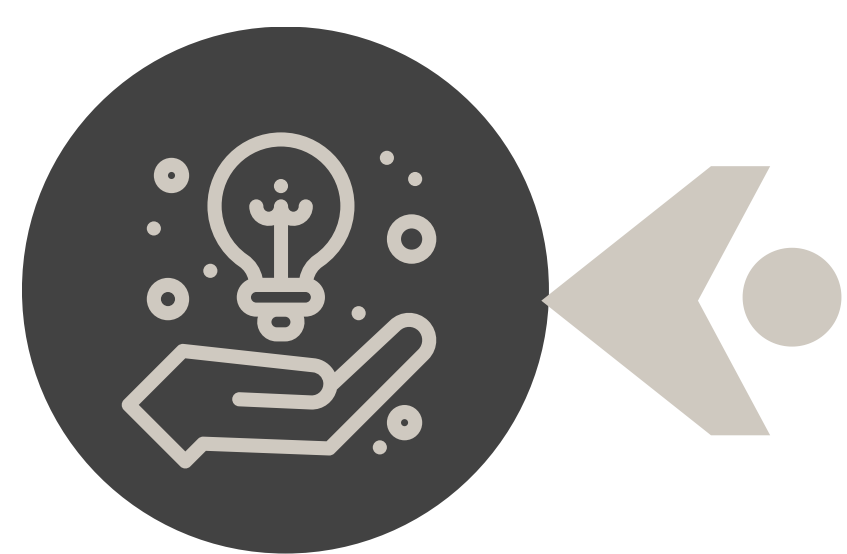
AGING SOCIETIES

Elderly people are a growing demographic worldwide and a class of consumers that is prone to experience vulnerability (Commuri and Ekici 2008).



HEALTHCARE SYSTEMS UNDER PRESSURE

The increasing geriatric population puts pressure on healthcare systems that suffer from a decreasing caregiver workforce, requiring innovative digitalized care systems (Chen et al. 2023).



NEED FOR RESPONSIBLE INNOVATION

The escalating demand for eldercare is met by digital technologies that aim to enhance the quality of life of eldercare consumers by innovating and transforming existing care systems.

EXTENSIVE RESEARCH ON THE POTENTIAL OF DIGITAL TECHNOLOGIES FOR PATIENT HEALTH, EMPOWERMENT AND WELL-BEING

Information Systems Research has demonstrated that mobile health applications can enhance transparency in patient journeys, facilitating more individualized, patient-centered decisions as a collaborative task among stakeholders (Wessel et al. 2024).

Research in consumer behavior has shown that integrating digital channels can diminish perceptions of vulnerability and empower marginalized consumer groups (Wunderlich et al. 2019).

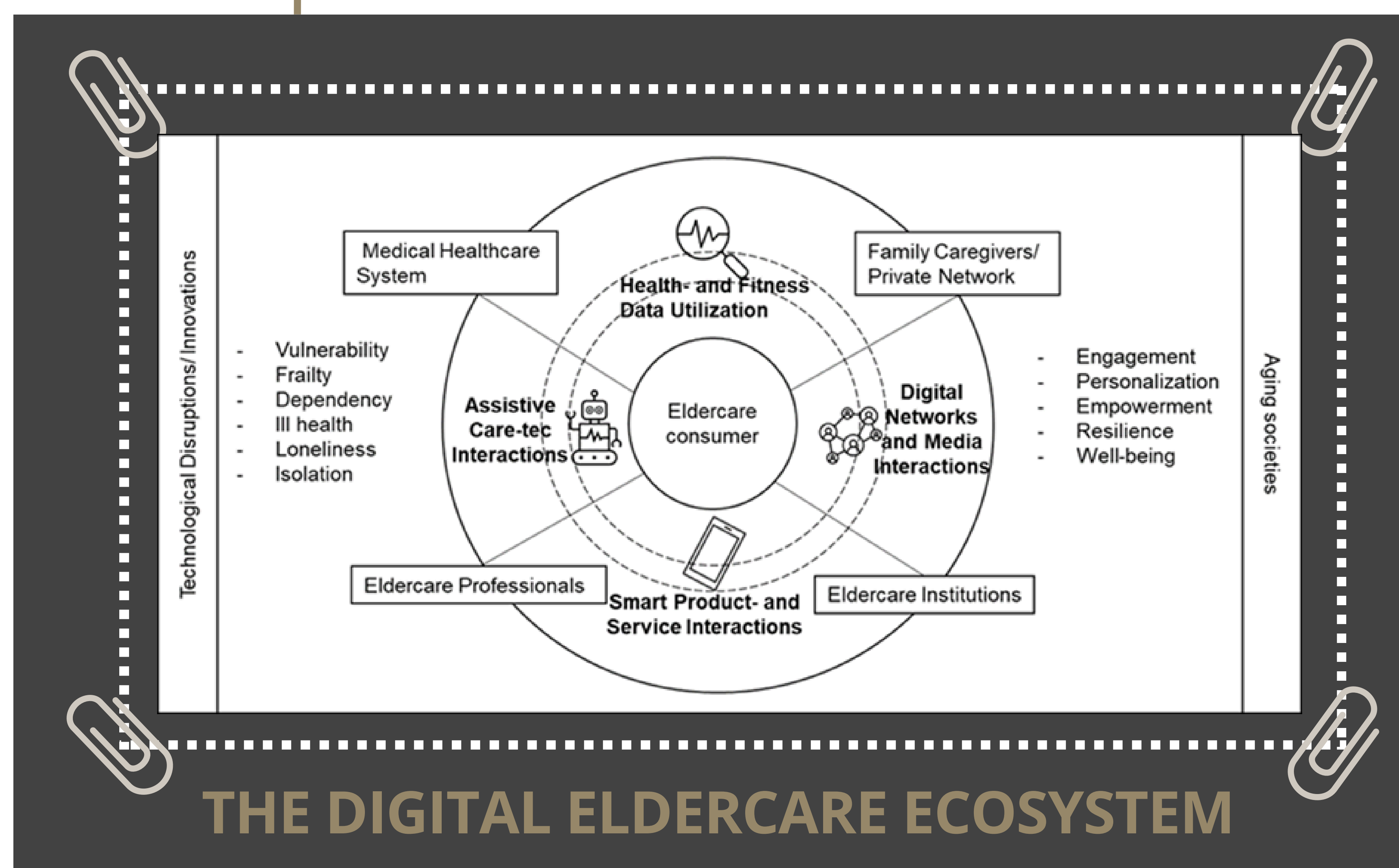
Patient research showed that interventions such as preoperative exercise programs for elderly and frail patients have improved surgical outcomes, survival rates, and quality of life (Spies et al. 2018).

EXEMPLARY RESEARCH QUESTIONS THAT WILL BE ADDRESSED IN INTERDISCIPLINARY COOPERATION

- What defines the responsible digital eldercare ecosystem?
- How do the different stakeholder groups perceive the digital eldercare ecosystem?
- How does it impact their health and quality of life, i.e., well-being, resilience, job satisfaction, care engagement, etc.?
- How can digital technology be designed and implemented in eldercare environments to diminish undesired outcomes (e.g., deliria) and enable desired outcomes (e.g., participation) among all stakeholder groups?

NEXT STEPS

- Conceptualization of the digital care ecosystem from the various disciplines and integration into an interdisciplinary understanding of the research object
- Integration of other disciplines that are necessary for this purpose, such as philosophy/ethics, law, nursing sciences
- Establishment of an expert panel and implementation of a Delphi study on responsible innovations in care



PROJECT PARTNERS

- Prof. Dr. Nancy Wunderlich, TU
- Prof. Dr. Martin Gersch, FU
- Prof. Dr. Claudia Spies, Charité
- Marius Greuél, Pflegewerk Berlin GmbH
- Oliver Schiefer, Pflegewerk Berlin GmbH
- Dr. Julia Rötzeimer-Keuper, TU

