



Teknologirådet

Dementia and AI - future scenarios for health and care

Marianne Barland, Project Director
The Norwegian Board of Technology

www.teknologiradet.no

▶ The Norwegian Board of Technology

- ▶ Independent body for technology assessment
 - ▶ Impacts and options of technology
- ▶ Advices the Norwegian Parliament, governmental bodies and the public at large
- ▶ Participatory methods and foresight



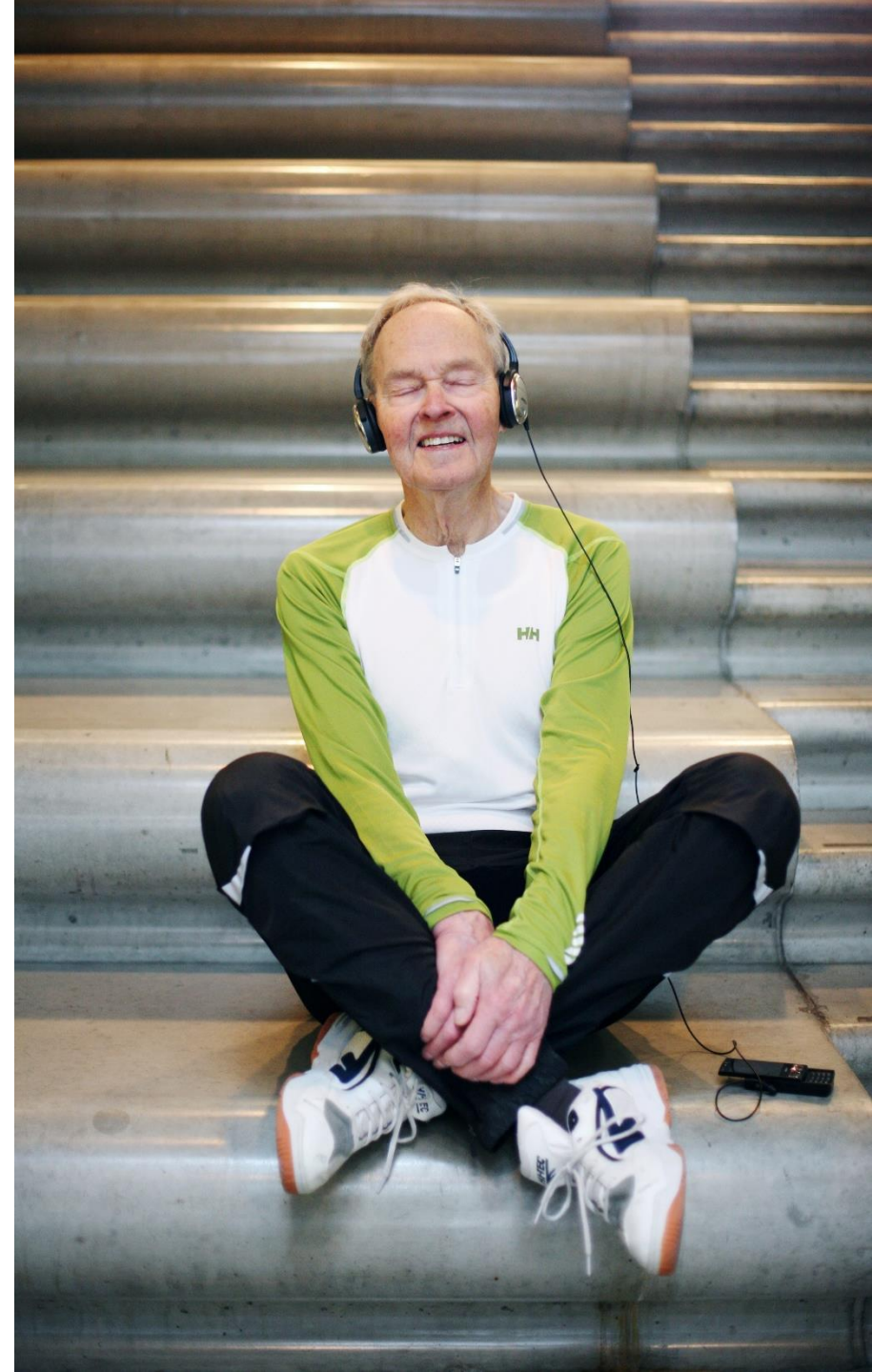
▶ Why use scenarios?

- ▶ Plausible and knowledge-based stories about the future
- ▶ A tool for discussing different futures
 - ▶ Understanding change
 - ▶ What choices do we have – and what are the consequences?
- ▶ Demographics and trends



▶ An ageing society

- ▶ Dementia in Norway: 100 000 people
 - ▶ 200 000 in 2040
- ▶ Over 400 000 is affected being next of kin
- ▶ Fewer people working in the health and care sector



▶ Technology trends

- ▶ Smart houses and wearables
 - ▶ Medical sensors: blood pressure, weight, medication
 - ▶ Surroundings: fall detectors, gps
- ▶ Artificial Intelligence
 - ▶ Cognitive and emotional support from digital assistants
 - ▶ Physical support from robots
 - ▶ Data and algorithms can diagnose early



▶ Digital simulation

- ▶ Virtual reality
- ▶ Augmented reality
- ▶ Opportunities:
 - ▶ Activities and memories
 - ▶ Games and exercise
 - ▶ Help in everyday life – who am I talking to?
 - ▶ Training for health workers, next of kin and volunteers

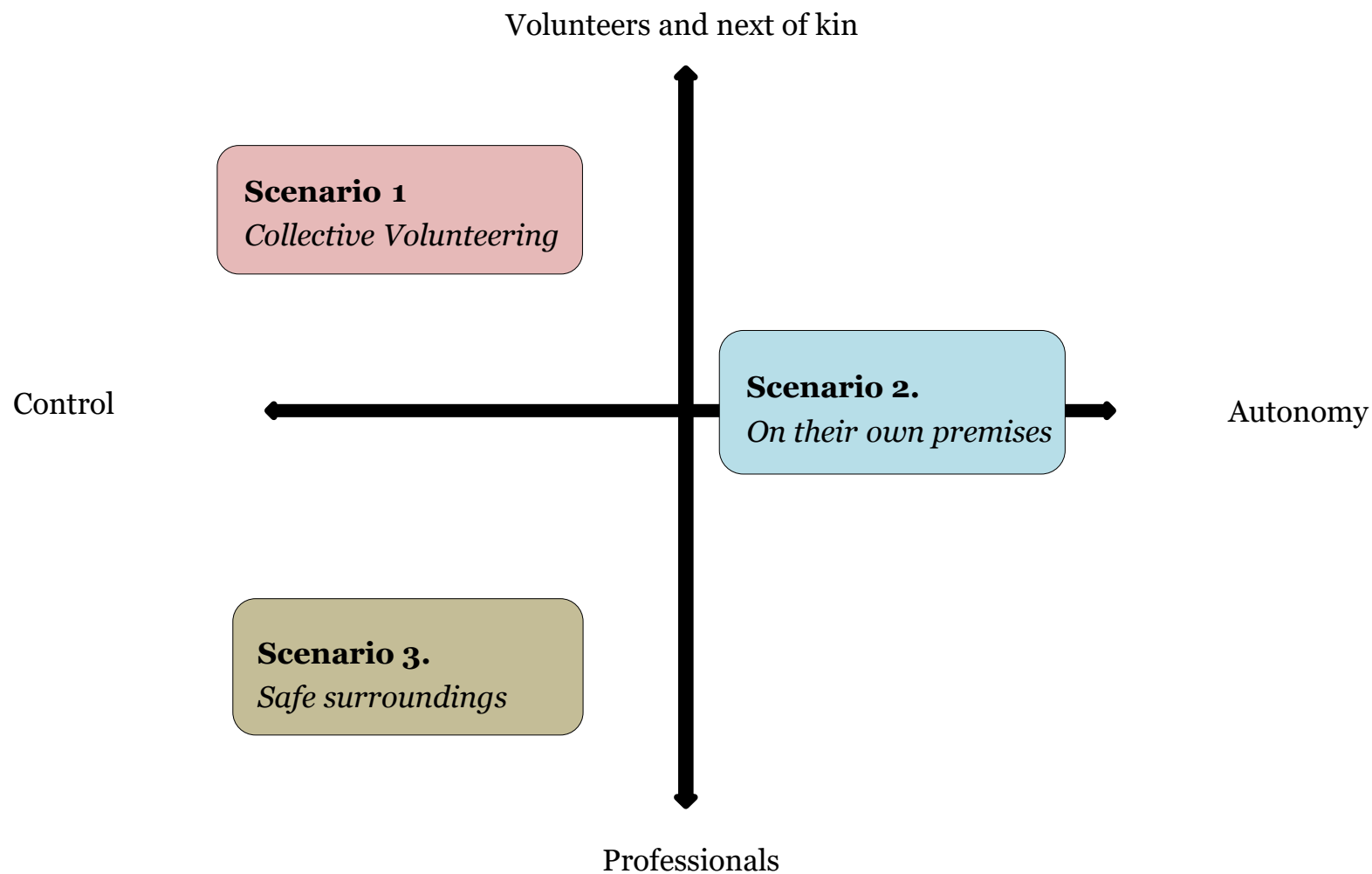


▶ Uncertainties and political choice

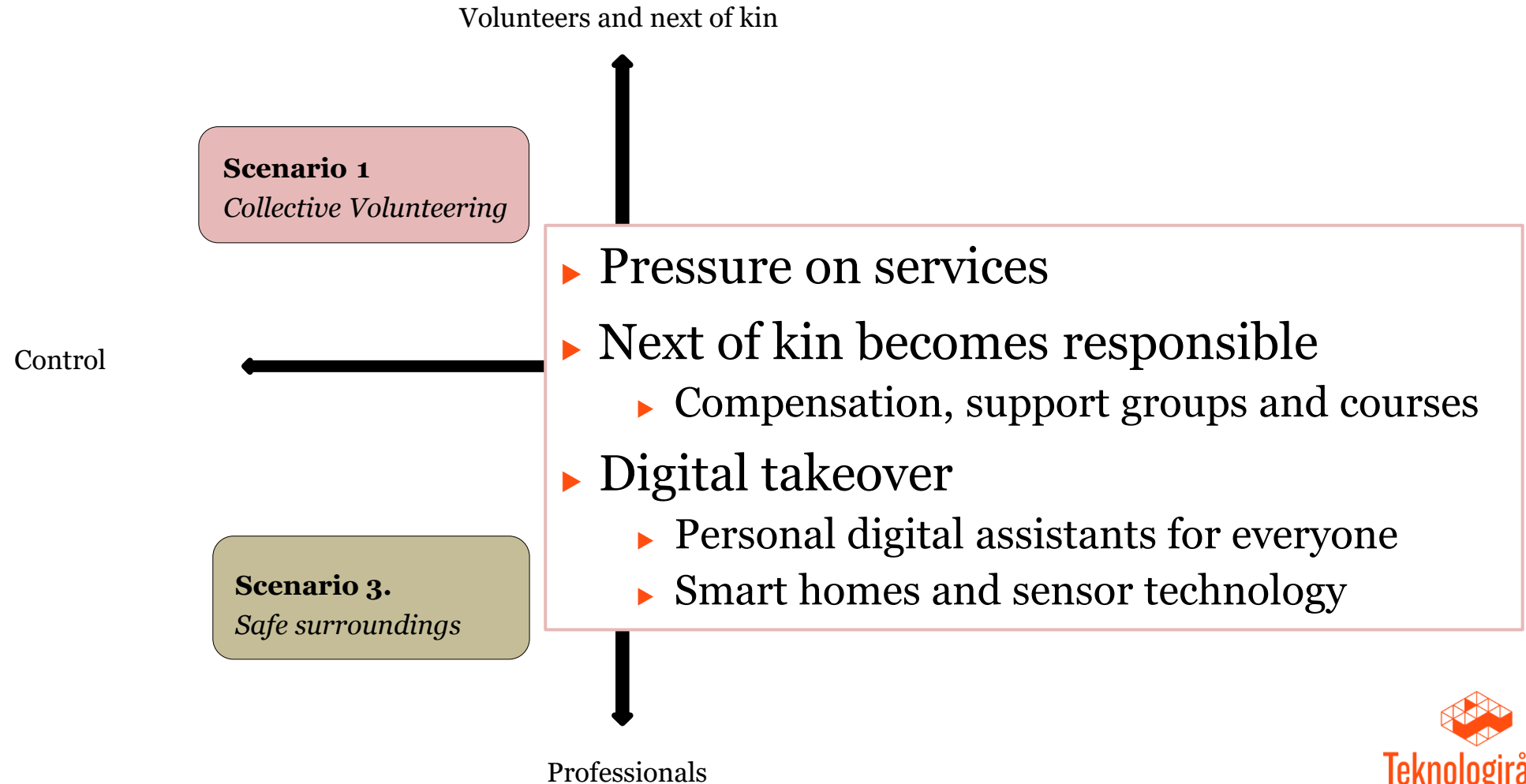
- ▶ How is health and care work organized?
 - ▶ Public models and professionalized services
 - ▶ Public platform and volunteer work
- ▶ What is prioritized: control or autonomy?
 - ▶ Having control over the disease
 - ▶ Value of autonomy



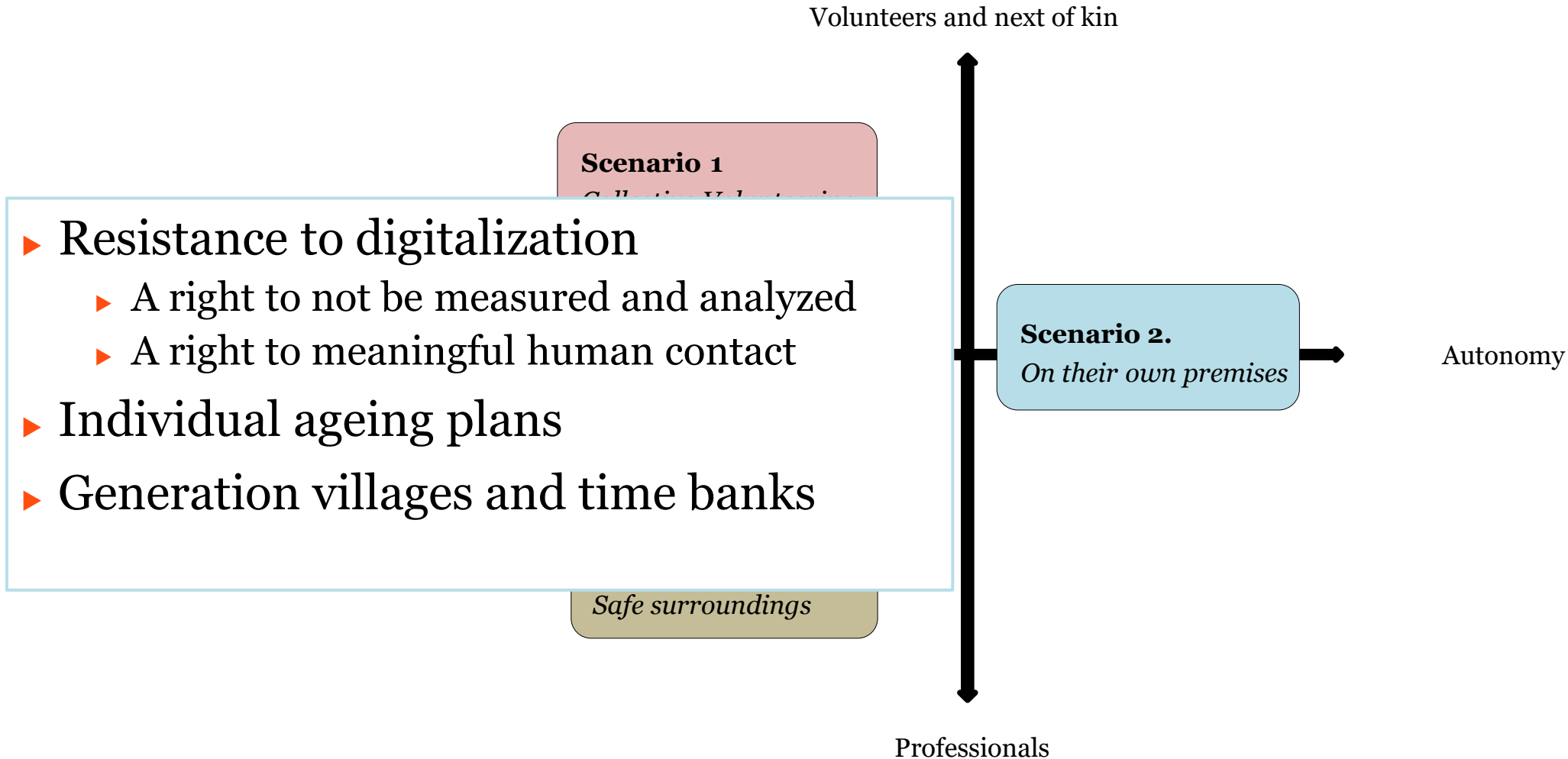
▶ 3 scenarios



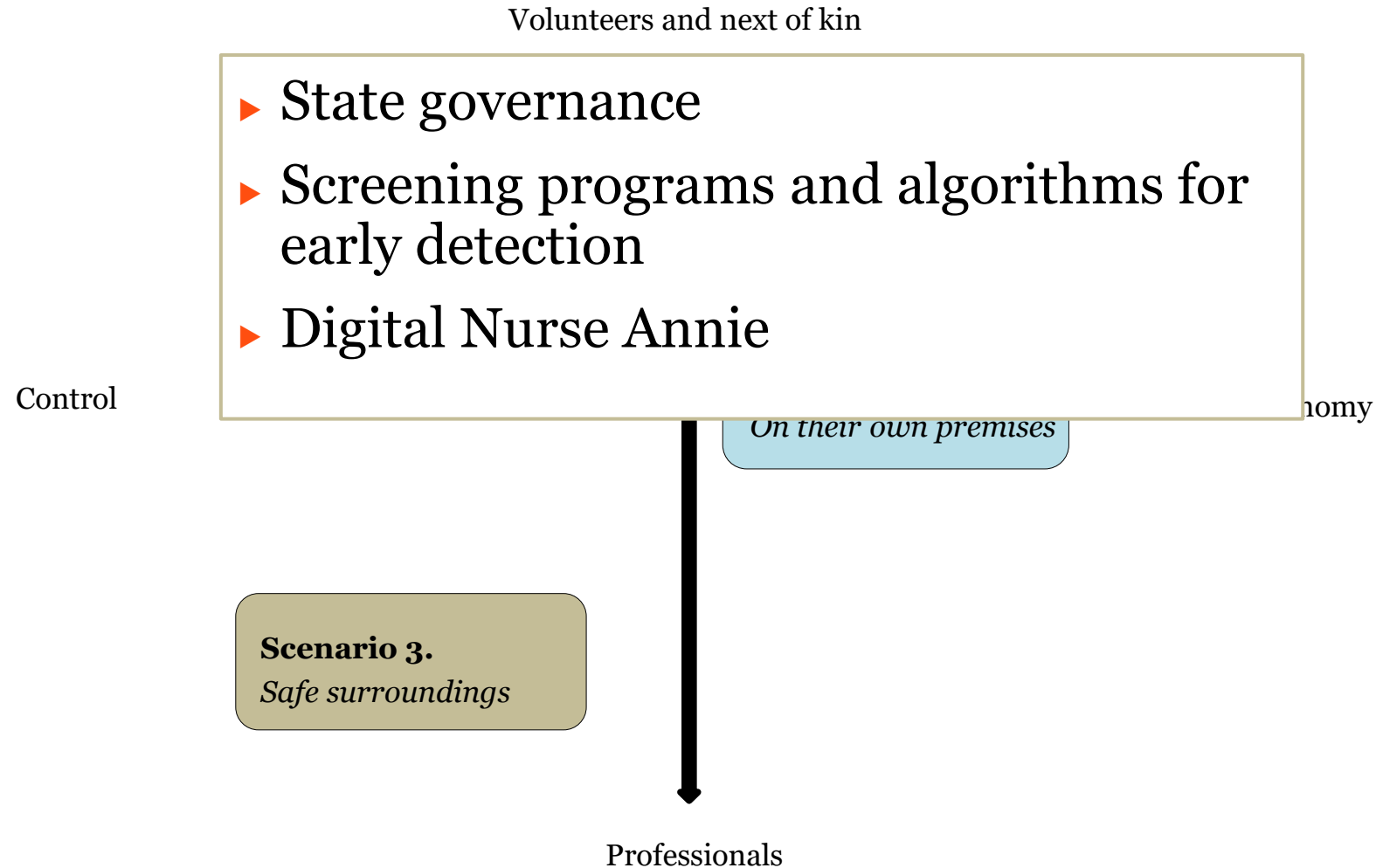
▶ 3 scenarios



▶ 3 scenarios



▶ 3 scenarios



▶ Scenario workshops

- ▶ Stakeholders from health sector, business, academia and NGOs
- ▶ Goal: discussion, future visions and policy recommendations
- ▶ Topics
 - ▶ Family/next of kin and volunteers
 - ▶ National «technology package»
 - ▶ Data sharing and privacy
 - ▶ Integrity and involvement of the patients
 - ▶ The right to say no

▶ In summary

- ▶ **Scenarios**
 - ▶ A tool to discuss and reflect on different possible futures
 - ▶ Highlighting potential challenges, dilemmas and conflicts
- ▶ **Stakeholder involvement**
 - ▶ Strengthen technology development
 - ▶ Support policy decisions





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Thank you!

marianne@teknologiradet.no