

# Healthcare testbed activities as a modular construct

Modularity in multi-provider service contexts, EurOMA 2022

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Vipuvoimaa EU:lta 2014–2020 What is testbed

 "user-centered, open innovation ecosystems based on a systematic user co-creation approach integrating research and innovation processes in real life communities and settings." (ENoLL, 2021)

 Testbed typically means testing devices, software or services in clinical or simulation environment with professionals or customers.



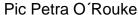
#### Elements in testbed activites

- Active (end)user involvement
- Real-life setting
- Multi-stakeholder participation
- Multi-method approach
- Co-creation

Ballon & Schuurman (2015)

Complex environment with multiple providers and services







#### **Material & Methods**

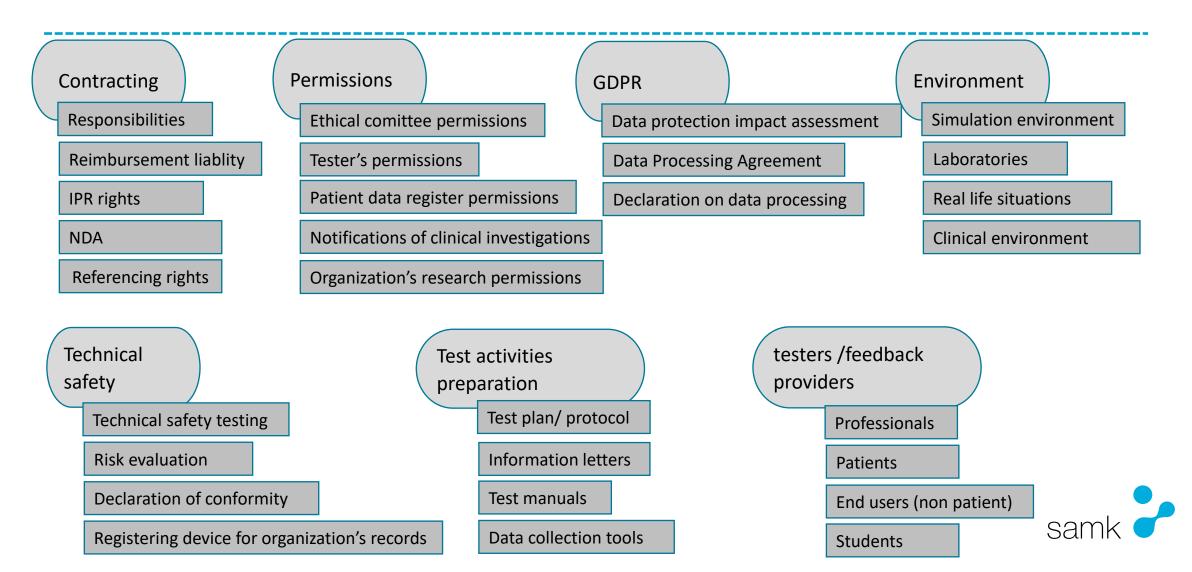
- 10 testbed cases
  - Their service structure
  - Test process and documents needed for the processes
  - Representing different types of testbed services
    - Maturity of the service/device
    - Testing environment
    - Testers
    - Feedback providers
    - Focus of the feedback



Pic Petra O'Rouke



### Testbed modules and components



#### Interfaces

**Entity Aim** Between services Between providers **Variety** Lists of modules and components Regular meetings between testbed available coordination team National and EU regulation Coherence Testbed coordinator Standardized contact protocol for companies Regular meetings Standardized documentation between testbed coordination team Service descriptions Regular meetings for internal evaluation

## **Contribution & Impact**

#### Main impact on testbed services

- Helps testbed coordinator to illustrate the service structure for
  - Companies
  - Multiple services providers
- Creates understanding between stakeholders
- Revealed deficiences in interface management

Some impact on discourse of modularity

Modular architecture tested in new complex service group



# Thank you!

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