

Strategic Elements for Data Sharing and interoperability

Katri Valkokari, VTT

29/11/2022 VTT – beyond the obvious

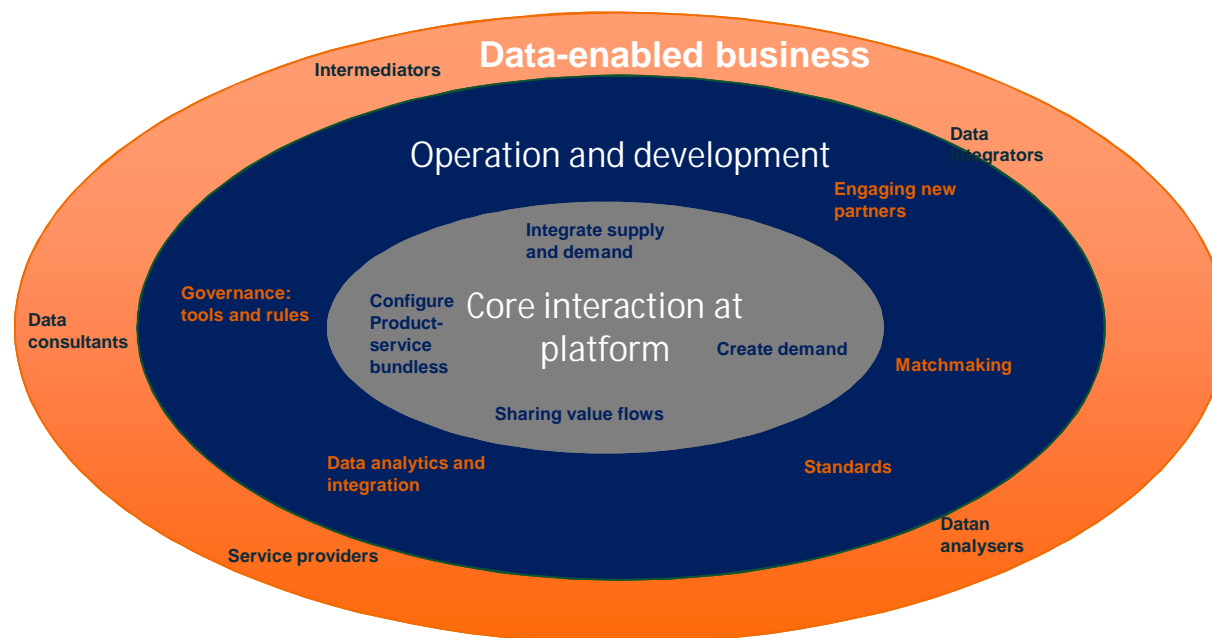
Key considerations

1. Value of data need to be understood from the perspective of variety of actors. The business logics inside different silos (transport sectors) are different, so the data sharing and governance rules need to be different.
2. Within on sector the current value chain (logistics, mobility) are at the core (see slide 3). The roles at core value chain and data (sharing) value chain probably are different, typically actors are both users and owners of data. When aim on novel business often cross-sectoral collaboration is needed. Thus, the primary question is who makes the rules of the game.
3. There are still different conceptualisations of data space and variety (over 30) initiatives ongoing, how can an actor whos' main focus is on every day business catch these opportunities (or even follow the development).

There are several roles at the platform economy

Different benefits from data sharing

- OEMs gain more efficient transparent processes and complementary solutions through pilots
- SMEs reach new customers and collaborators, easy access to resources and novel tools



Content

- VTT approach and purpose
- Practical example
- Data-driven business
- Way forward

Our strategy 2021–2025: The path of exponential hope



We solve global challenges

The challenges we focus on

Systematic challenges:

Carbon neutrality, productivity leap, societal resilience

Technological challenges:

Quantum leap, super-performing materials, superior digital systems, synthetic biology

Data

For us, *data is in the core* of these data-intensive global challenges

Background/motivation for the Lyyli Living Lab

- Urbanization is one of the most significant megatrends of our time. It will accumulate many challenges to cities **and arranging the people's mobility in a sustainable way is one of the largest one.**
- In people transportation, **increasing the share of public transport combined with walking and cycling is seen the most efficient way** to advance sustainable urban mobility.
- Since **data-driven digital services have become an integral part of the optimization of transport as well as customer experience**, their importance is paramount when looking for more sustainable solutions.
- The open innovation paradigm offers a viable approach for seeking novel (and better) services for public transportation.

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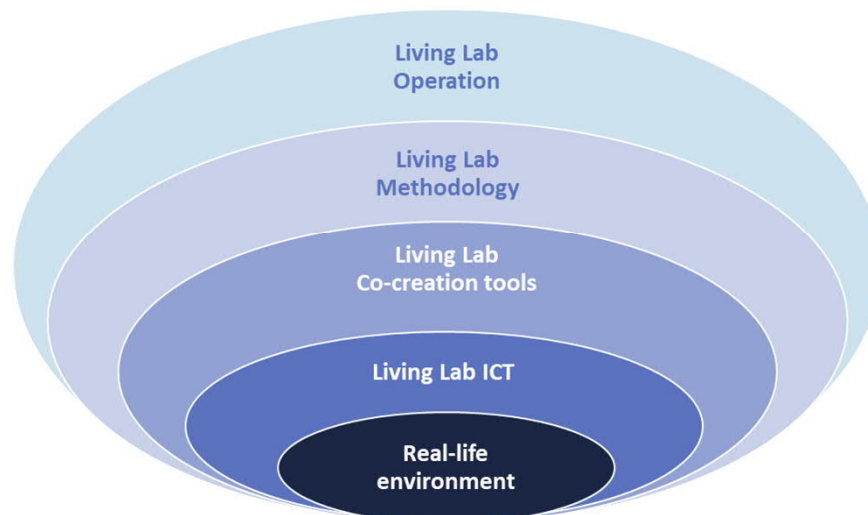


Ratikka Sepänpäädun sillan ylittettyään Paasikivenkadulla
(kuva: Tampereen kaupunki ja A-Insinöörit)

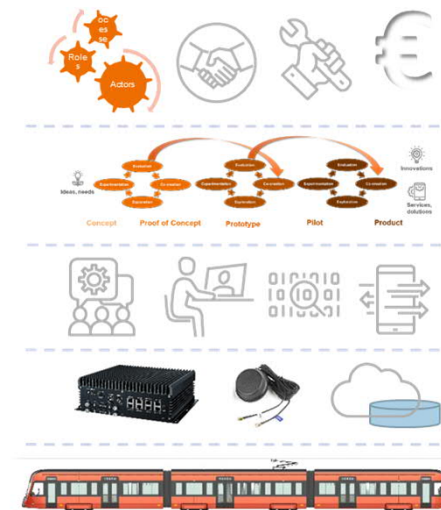


ANATOMY OF LYYLI LIVING LAB

Lyyli Living Lab is based on physical context enriched with Living Lab ICT, co-creation tools & methodology as well as on rules, roles & processes for guiding concrete operation



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Organisations need to increase data centricity

Digitalisation is transforming products and services into connected systems

This change impacts all companies. As products and service increasingly link into connected, data-intensive systems, data increasingly creates the core of competitive advantage of companies across industries.

Extracting value from data is complex

Companies acknowledge the potential value in data. However, identifying mechanisms for value creation, implementing changes and extracting value is complex and often difficult.

Managing complexity requires multiple lenses

Our systemic approach takes a in-depth views through the lenses of technology, people, society, business. This is the key in navigating the complexity and ambiguity of internal and external operating environments.

Data-intensive environments require bringing data to the core of your strategy

Data-intensive environments are in constant change. Value creation in such environments require complementing the process and monolithic orientation with data centricity.

PrepDSpace4Mobility – EU-DIGITAL-2021-CLOUD-AI

VTT

- Timeline: **1 Oct 2022 - 30 Sep 2023**
- Partners involved: **acatech, VTT, ERTICO, BAST, TNO, Fraunhofer, Paris Airports, iSHARE, etc.**

SCOPE:

- O1: *contribute to the further development of the common European mobility data space*
- O2: *governance mechanisms that will facilitate easy, cross-border access to key data resources*
- O3: *inventory of existing data platforms and marketplaces*
- O4: *data space reference architecture and building blocks*
- O5: *exploit, disseminate and communicate*



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the obvious

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