

## LIVING LAB XCHANGE

# USE CASES AND BEST PRACTICES IN SUSTAINABLE LIVING LABS

## WHY

The living labs combine fundamental research with applied research of experiments in actual situations with market actors involved. Use cases are often used in innovation projects to develop and experiment with new knowledge and solutions in a bounded or controlled environment.

**WHERE** in a specific location, e.g. different cities

**WHO** specific ecosystems or (supply chain) partnerships

**WHAT** specific application areas (sector, hub, corridor)

**HOW** specific (technological) solutions or applications

## Living Lab Xchange

On January 19 2021, researchers of different consortia within the Sustainable Living Lab programme exchanged their approaches and best practices regarding use cases in their research.

## WHAT

Besides monitoring innovations in real environments, use cases have an important role in making innovation more tangible and showcasing the possibilities. Experimenting shows the limitations as well as opportunities for stakeholders in the use case environment. Use cases can improve the application and showcase the benefits. This can motivate further implementation. It triggers the imagination of stakeholders involved to imagine other applications and increase the impact and reach of the innovation.

## Strategies for upscaling

**WHERE** in other locations, e.g. different cities

**WHO** with other stakeholders

**WHAT** other application areas (sector, hub, corridor)

**HOW** other/ additional (technological) solutions



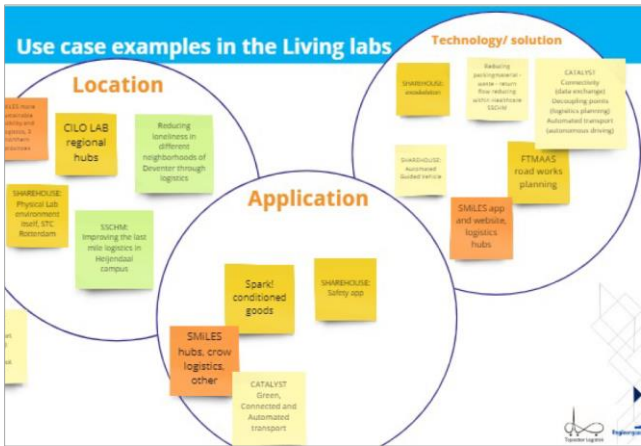
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**HOW**

**Examples of use cases in the living labs**

- Sharehouse: a physical lab environment at STC Rotterdam to experiment with different warehouse technologies.
- SSCMH: reducing loneliness in neighbourhoods in Deventer through logistics
- Spark!: monitoring SLA agreements with blockchain application in the conditioned goods supply chain.
- CATALYST: automated transport (autonomous driving and required driver skills)
- CILOLAB: decoupling points in regional hubs
- FTMAAS: traffic-sensitive dynamic slot planning



Use case examples - Miro board breakout session Living Lab Xchange

**RESULT**

**Biggest challenges in implementation and upscaling**

- WHERE** Where to start testing, what is the best environment as a test location or as a showcase?
- WHO** Getting all the supply chain partners on board to make changes
- WHO** Convincing different stakeholders with different interests to participate
- WHO** Difficult to involve SMEs because of lack of time or capacity



Challenges - Miro board breakout session Living Lab Xchange

- WHAT** Developing a system or platform for wide use of shared logistics concepts by the general public
- WHAT** Funding to bridge the gap in development from proof of concept to viable product and technical readiness for broad valorisation
- WHAT** Standardisation and interoperability to develop further TRL levels
- HOW** making the step from theoretical analysis (simulation) to applications in practice (business case, collaboration, regulation)

**TAKE AWAYS**

- Main take aways of the participants to share:
- Try to balance and integrate short term value with the long term value for the stakeholders: the living lab is a first step to reach their end goal
  - Have a good business case
  - Involve other stakeholders including government for upscaling
  - Share experiences of the living labs
  - Engage companies with short term interventions for commitment

**Conclusion**

Sharing experiences with other living labs or learning from different approaches can strengthen the valorisation of the innovation developed. Connecting different use cases offers opportunities. The living labs could benefit from actively communicating about use cases and results – both individually and collaboratively -, contributing to engaging new partners to expand the ecosystems for further research and development and implementation.

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