SUSTAINABLE PLACES 2022

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Limerick · Trondheim · Alba Iulia · Písek · Sestao · Smolyan · Võru

Innovation Playgrounds

How cities can create the conditions for collaboration and clean energy innovation

Sustainable Places | 08.09.2022 | helena.fitzgerald@ul.ie and dirk.ahlers@ntnu.no

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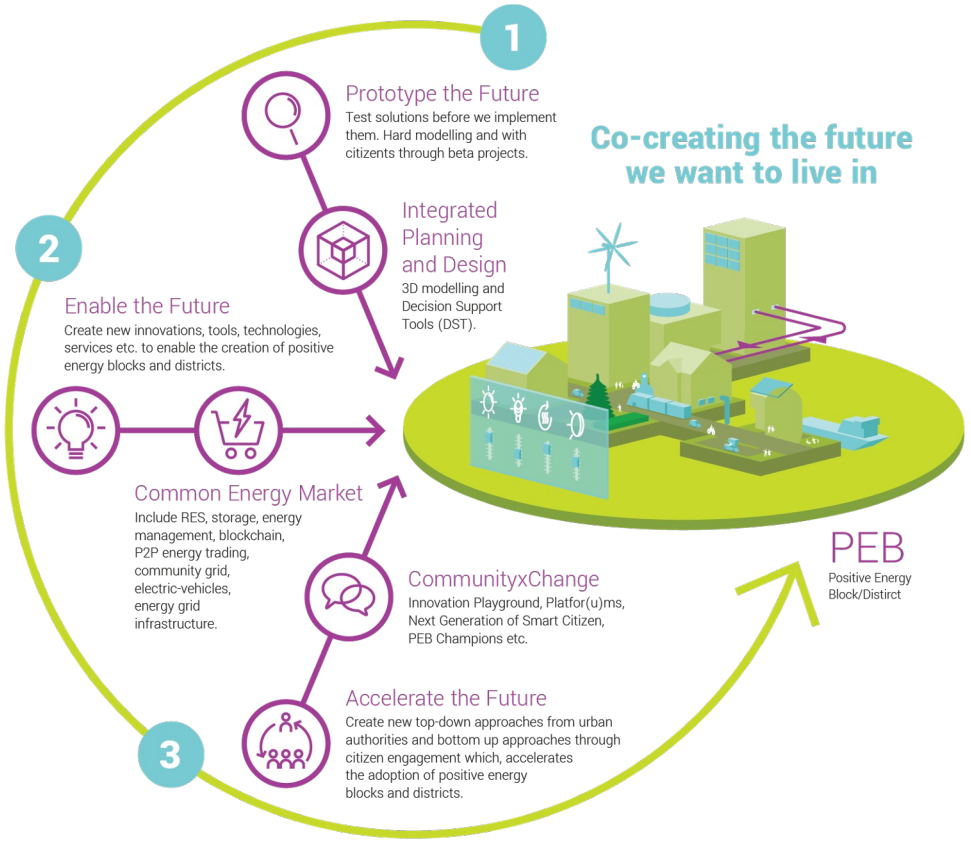
The +CityxChange Approach

- A localised energy transition through Positive Energy Blocks
- Links technical and community aspects
- Works with & across disciplines
- Works across strategic and operational levels
- Embeds open innovation and co-creation in the transition



Impacts at Multiple Levels

- Systemic/collective/individual behavior change
- Broad participation on direct and indirect energy issues
- Participation in co-creation and energy communities
- Innovation ecosystem – Innovation Playgrounds & Innovation Labs
- Bold City Vision – Changes in strategic city governance and transitions

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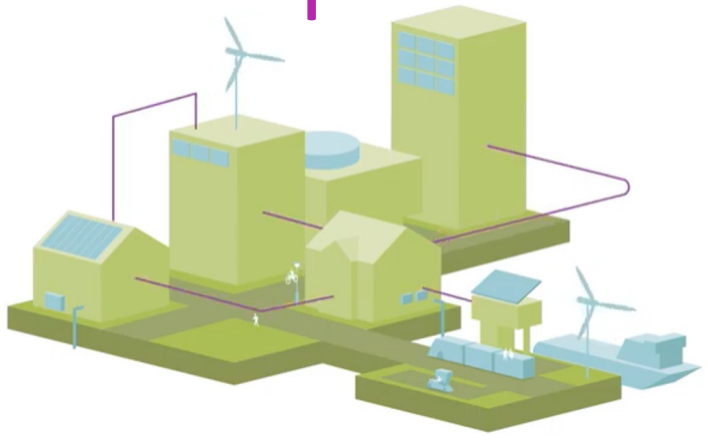

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Innovation Playground

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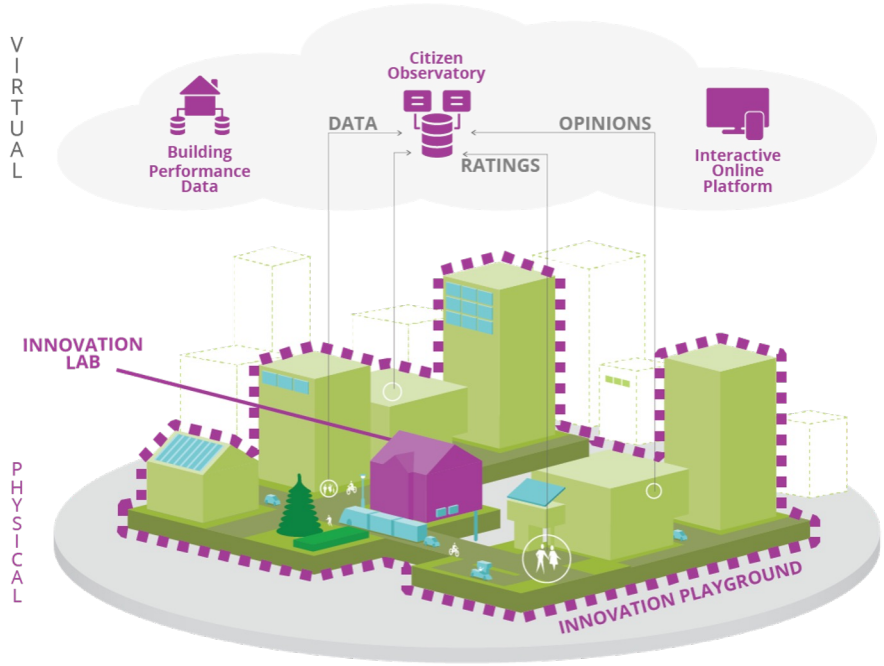
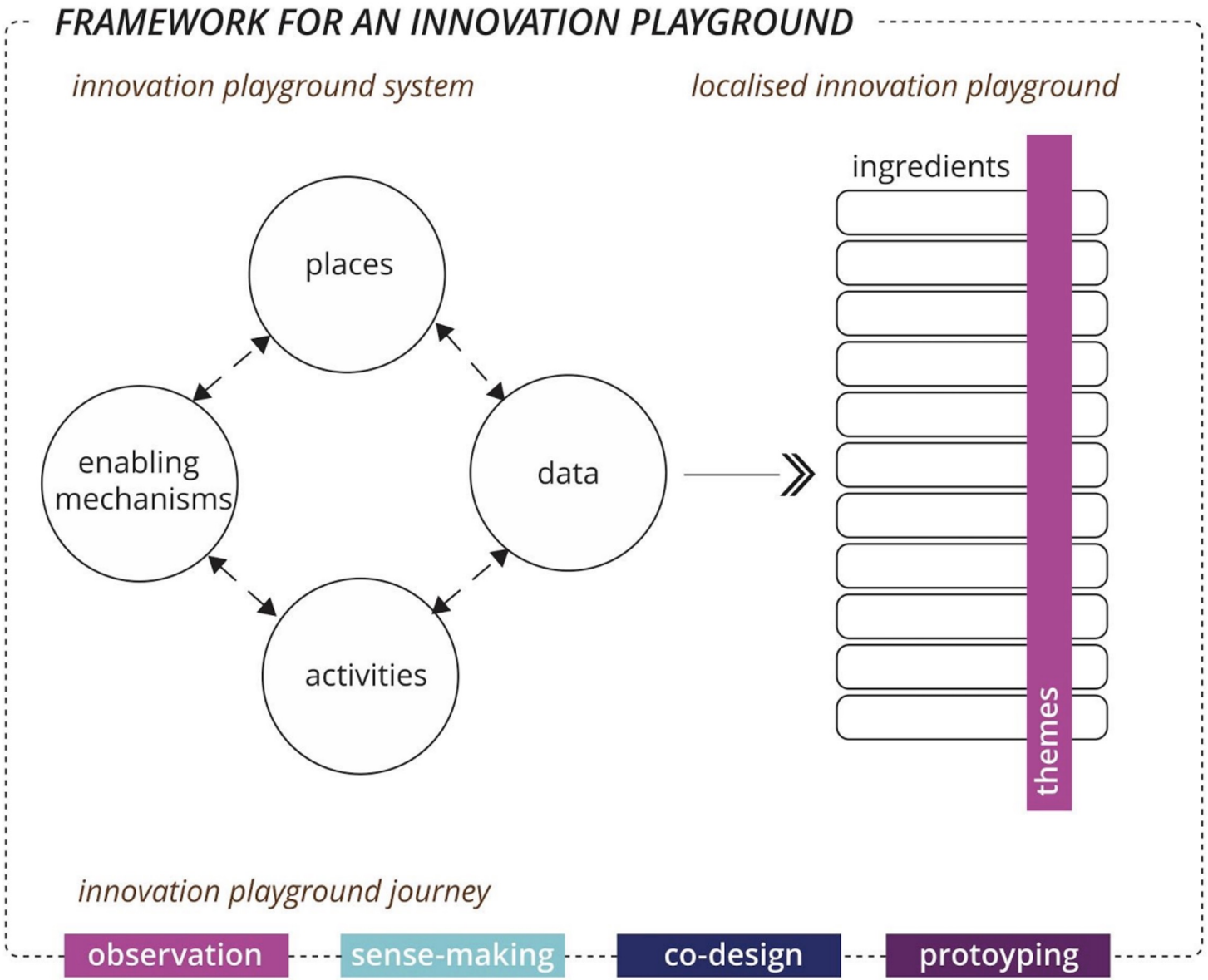
What is an Innovation Playground?

"An Innovation Playground… is a designated area of a city where different **physical** and **virtual** places and **activities** relating to innovation are brought together into a **coherent whole** to facilitate collaboration, empower citizens, and find new ways of addressing challenges that matter to people."



(D.3.3: Framework for Innovation Playgrounds, Mee & Crowe, 2020, p. 5)



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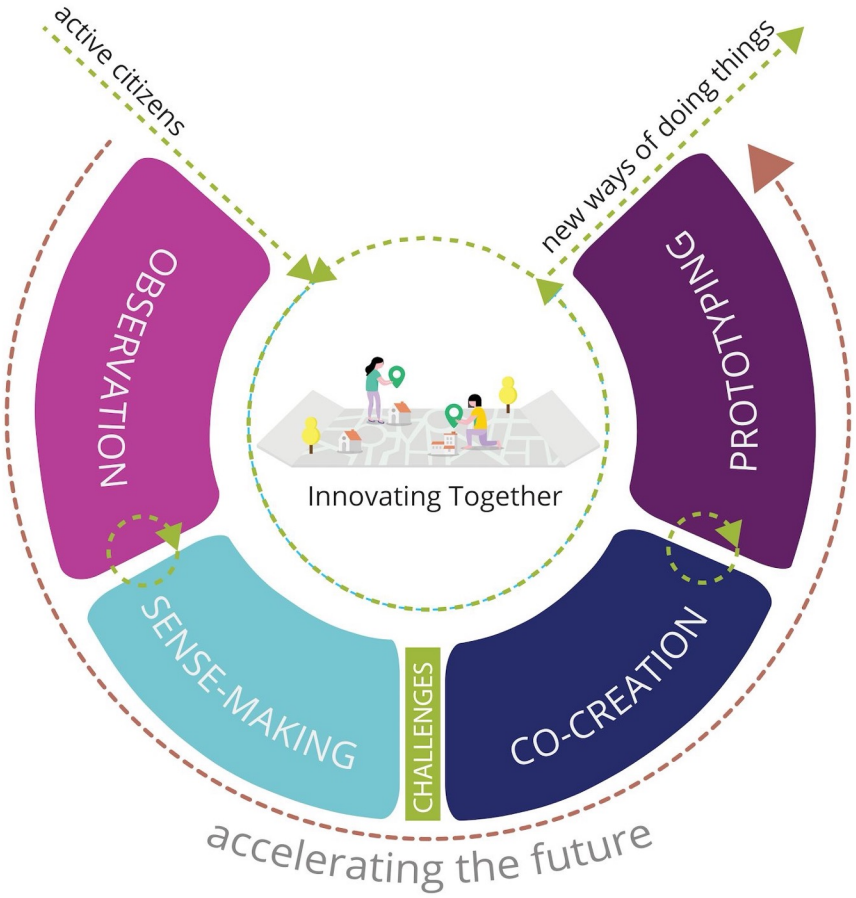
(D 3.3: Framework for Innovation Playgrounds, Mee & Crowe, 2020, p. 23.)

Innovation Playground Journeys



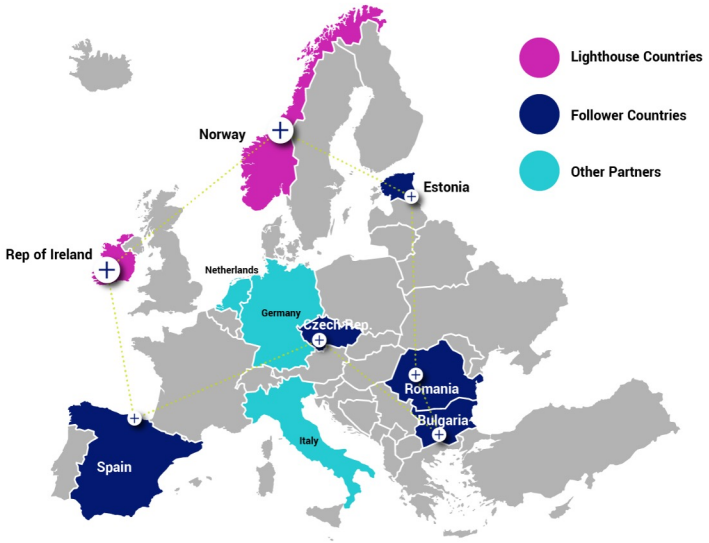
(D 3.3: Framework for Innovation Playgrounds, Mee & Crowe, 2020, p. 38)

CommunityxChange

Six concepts to enable top-down and bottom-up engagement:

- Bold City Vision
- Citizen Participation Playbook
- Innovation Playground
- Learning Framework - Next Generation Smart Citizen
- Positive Energy Champion Network
- DPEB Innovation Lab
  https://cityxchange.eu/knowledge-base/

Made with cities for cities



LHC Trondheim

LHC Limerick

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Creating an Innovation Playground

Making the intangible tangible.

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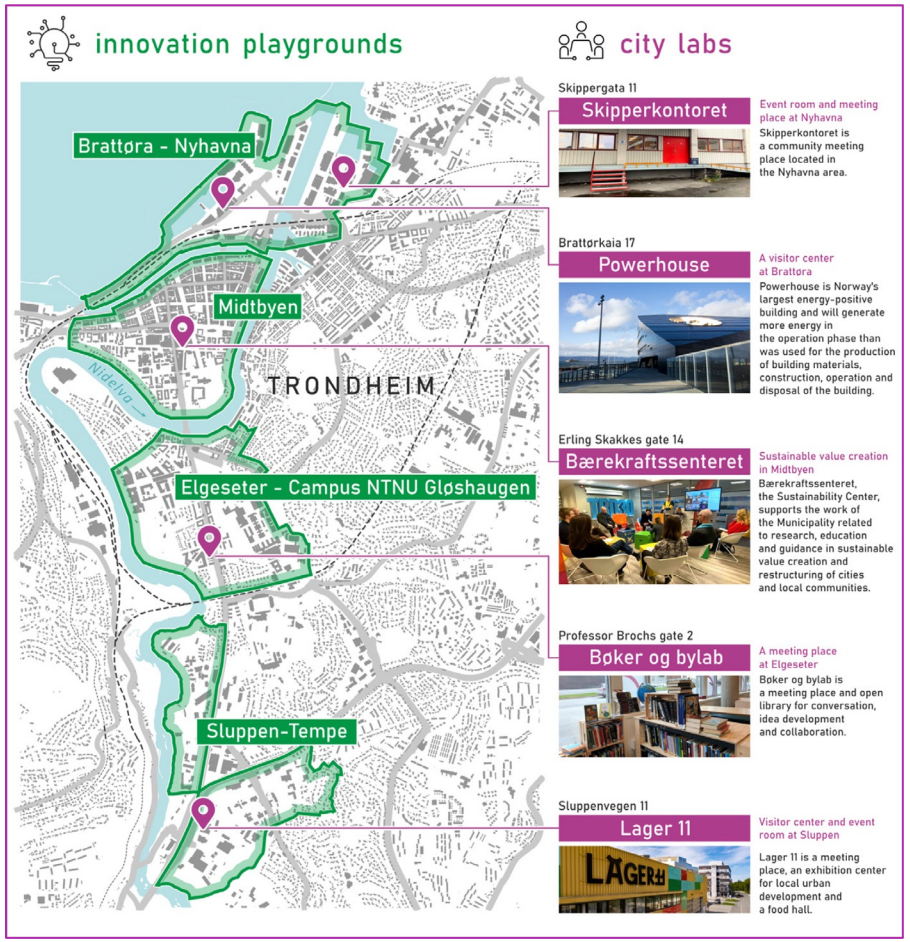
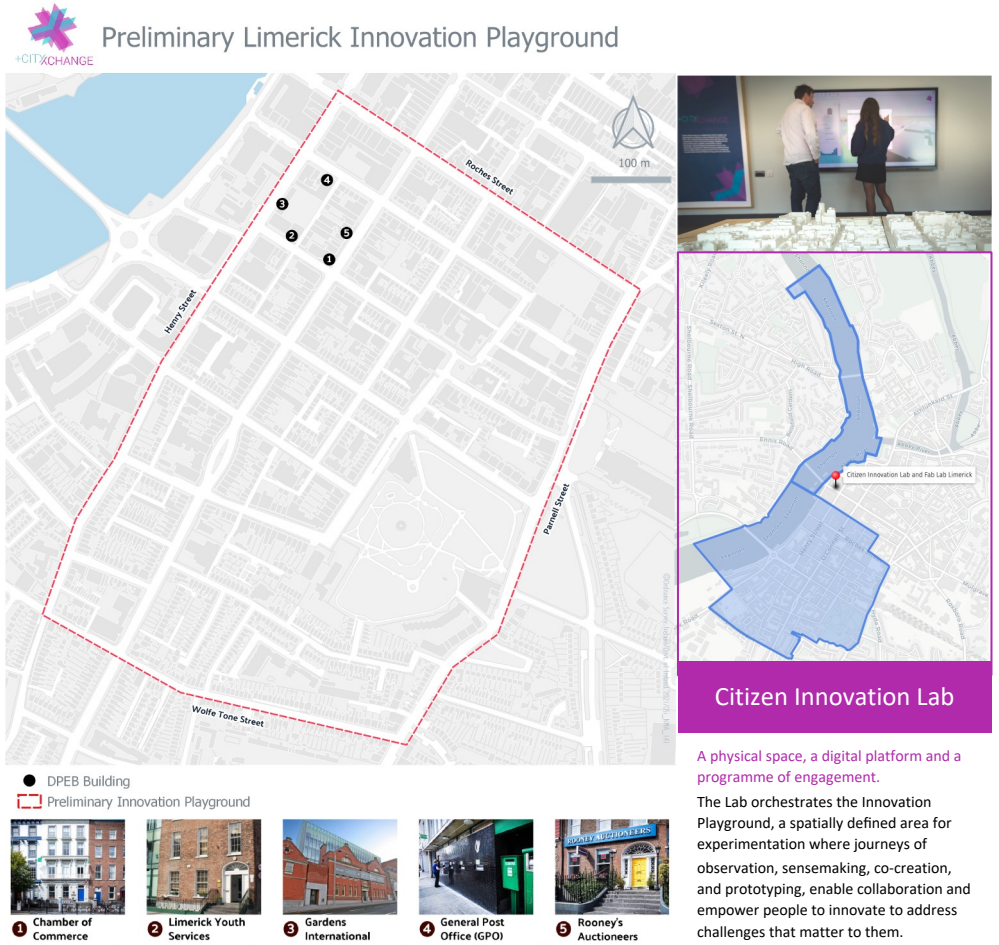
Innovation Playgrounds



Innovation Playgrounds and City Labs in LHC Trondheim

(Source: Tomasz Opach)



Preliminary Innovation Playground and Citizen Innovation Lab in LHC Limerick.

(Source: LCCC and UL)

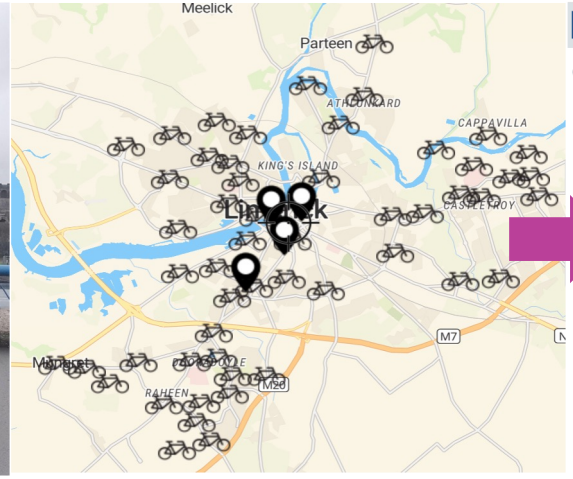
Orchestration

Positive Energy Champion Campaign Limerick

Bold City Vision
Participation Playbook
Innovation Playground
Learning Framework
Positive Energy Champion Network
DPEB Innovation Labx

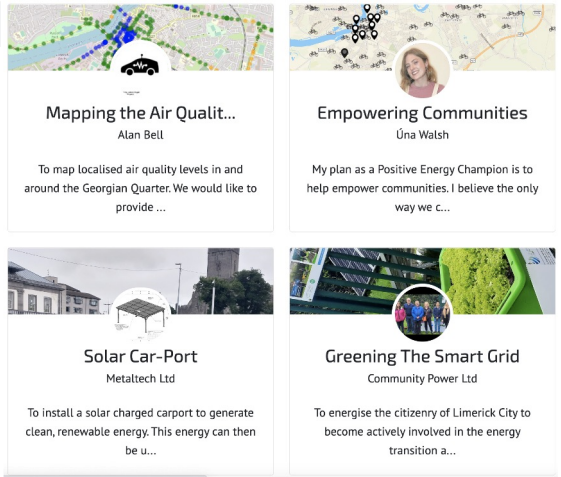
PED Stakeholders play the City Energy Game at City Engage Week. Open Innovation Call projects

Úna wants more choice for sustainable transport options in Limerick. She meets Limerick's Mayor.



Uses the Community Mapping Tool to crowdsource a map of a future bikeshare scheme

Data discussed at a transport SPC meeting and used to inform procurement by Limerick City and County Council



Úna shares her story on the Citizen Innovation Lab Repository

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No 1 Pery Square

Pery Square, Limerick

The team at No 1 Pery Square have become Positive Energy Champions to promote awareness of energy efficiency and to demonstrate the positive effects of reducing CO_2 emissions. They are focused on introducing sustainable practices throughout the business. The aim of the project is to assess and improve the energy use of the hotel.

Sim auxiliary energy *(kWh / m² per year)*	72.59 *
Sim cooling energy *(kWh / m² per year)*	0 *
Sim dhw energy *(kWh / m² per year)*	89.42 *
Sim equipment energy *(kWh / m² per year)*	3.8 *
Sim heating energy *(kWh / m² per year)*	57.36 *
Sim lighting energy *(kWh / m² per year)*	13.23 *
Sim total carbon *(CO_2 kg/m² per year)*	59.13 *
Sim total energy *(kWh / m² per year)*	236.4 *

Engaging with the City Energy Model/Digital Twin

See full user story

https://www.limerick.ie/cityxchange/positive-energy-champ

www.iesve.com

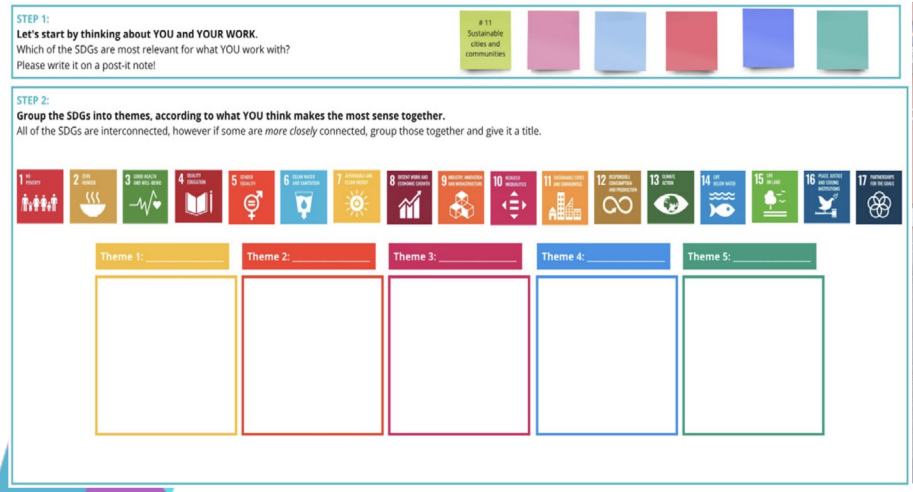
© OpenStreetMap

Orchestration

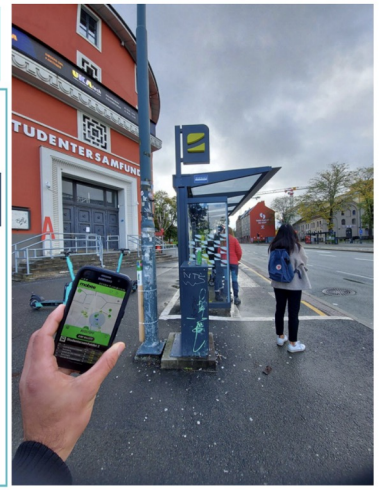
MASS Development Trondheim

Bold City Vision
Participation Playbook
Innovation Playground
Learning Framework
Positive Energy Champion Network
DPEB Innovation Lab

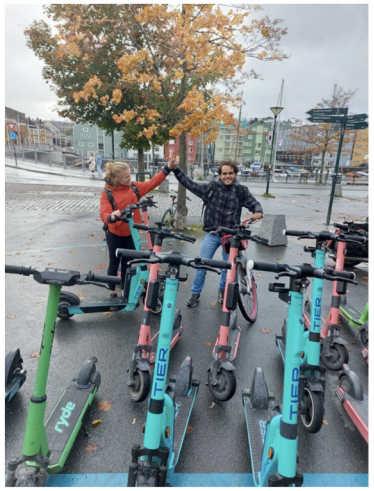
UN SDGs at an Elgeseter festival, and a co-creation event at the Sustainability Centre meeting space

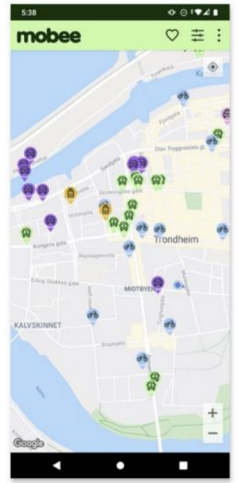


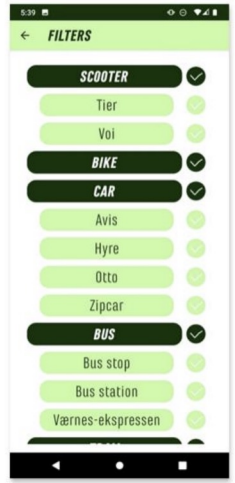
Bold City Vision for Mobility Workshop

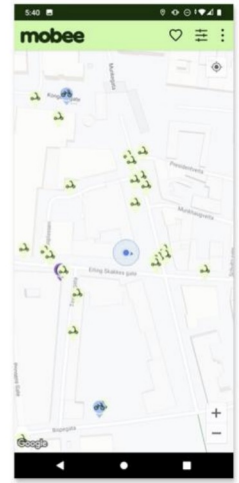


Mobee Scavenger Hunt









Mobee App User Interface

Mobee brand and mobility solution from D5.10 Trondheim Innovation Lab Solutions Catalogue https://cityxchange.eu/knowledge-base/

Q&A.

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