AMS

AMSTERDAM INSTITUTE FOR
ADVANCED METROPOLITAN SOLUTIONS

Engineering the future city.

AMS Institute is a young and ambitious scientific institute located in Amsterdam. In this institute science, education, government, business partners and social organizations are working tightly together to create solutions for the complex challenges a metropole like Amsterdam is facing. Now and in the future.

AMSTERDAM INSTITUTE FOR
ADVANCED METROPOLITAN SOLUTIONS

RESEARCH THEMES

Working on metropolitan challenges

Smart Urban Mobility

Ensuring an accessible and liveable city by developing smart and sustainable and seamless mobility solutions that can be integrated into the urban fabric.

Urban Energy

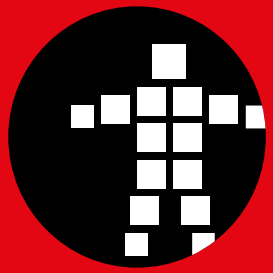
Accelerating the urban energy transition, by combining integrated innovations in energy systems with urban (re-)development.

Circularity in Urban Regions

Redesigning resource flows that drive urban activities, whilst establishing integral sustainable urban ecosystems, supported by a new, resilient economic model.

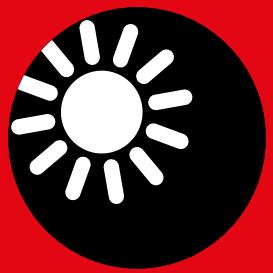
Metropolitan Food Systems

Designing inspiring scenarios to make food systems more sustainable and future-proof, by focusing on core elements such as: economic development, health, mobility and regional attractiveness.



Urban Data & Intelligence

Mobilize new analytical tools to better use urban (big) data and improve city life, while strengthening and safeguarding the democratic values of citizens and society.



Climate Resilient Cities

Building preparedness and resilience by reducing cities' weaknesses and the impact of climate change: environmental, health related and societal.

AMSTERDAM INSTITUTE FOR
ADVANCED METROPOLITAN SOLUTIONS

TACKLING METROPOLITAN PROBLEMS

Urgent, social, complex challenges can best be solved iteratively with stakeholders

Relevant

- Sustainable/social
- Urgent

Transdisciplinary

- Complex
- Iterative/Learning

Transformative

- With Co-creation
- In Real Life

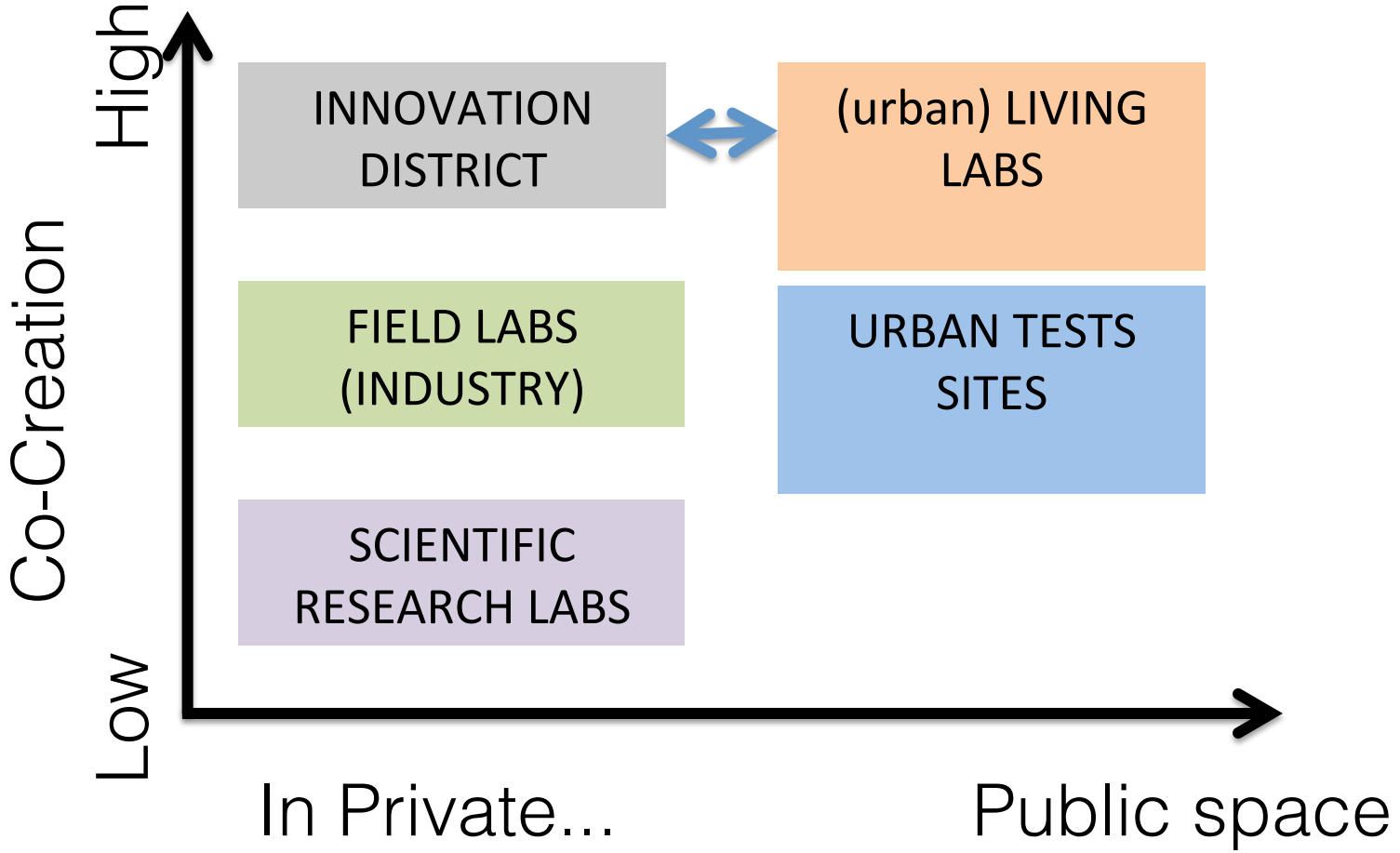
Inclusive

- With all Stakeholders (needs and capacities)

AMSTERDAM INSTITUTE FOR ADVANCED METROPOLITAN SOLUTIONS

WHAT IS A LIVING LAB?

A space in which real-life eperimentation takes place with a diverse participant group in co-creative modes



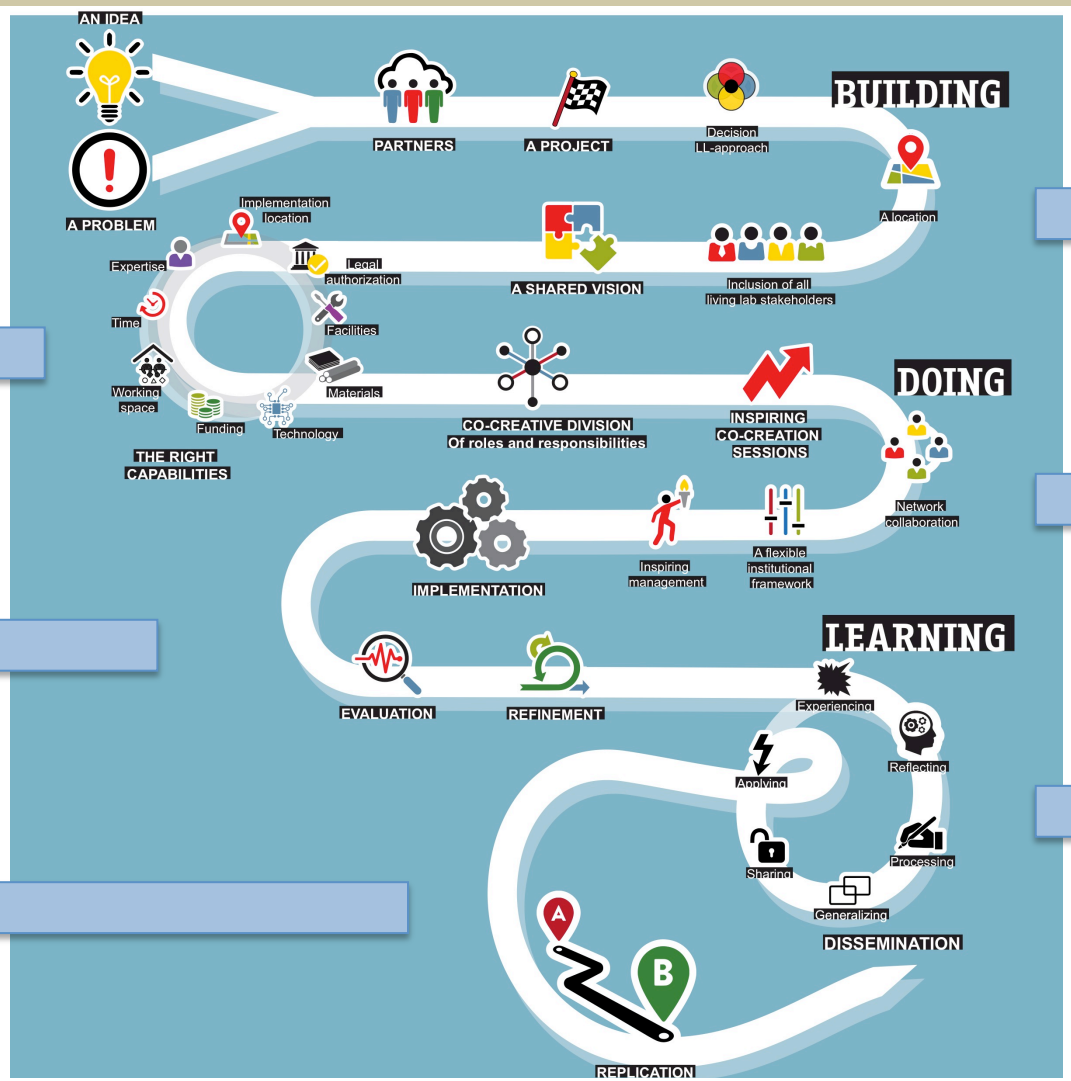
Based on: Maas, T., J. van den Broek & J. Deuten, Living labs in Nederland , Rathenau Instituut, 2017

AMSTERDAM INSTITUTE FOR ADVANCED METROPOLITAN SOLUTIONS

THE *AMS* URBAN LIVING LAB WAY OF WORKING

Connecting the world of projects (experiments) with the approach of co-creation, operationailising inclusiveness, changed attitude, and a learning/iteration approach

Product/ project Development



Project with resources

Product(s)/ Prototypes Delivered

Business / Marketing Plan

Inclusiveness & Canvas

Changed Attitudes/ Trustfull Team

Learning Report

AMSTERDAM INSTITUTE FOR ADVANCED METROPOLITAN SOLUTIONS

TOOLBOX UNDER DEVELOPMENT

For the various phases, a set tools is under development as well as criteria which to use when

Owner/Curator Phase	AMS	Partners
Design / Process / Vision	The Canvas Geographical mapping	Living Roadmaps (Amsterdam) The Adventure Wheel (MIT)
Stakeholder involvement (trust building)	The GAME	HHS Lego serious Play (HU) Go2Zero game (TUD)
Inclusion / Citizen involvement	Citizen Engagement	Citizen Sensing (WAAG)

AMSTERDAM INSTITUTE FOR
ADVANCED METROPOLITAN SOLUTIONS

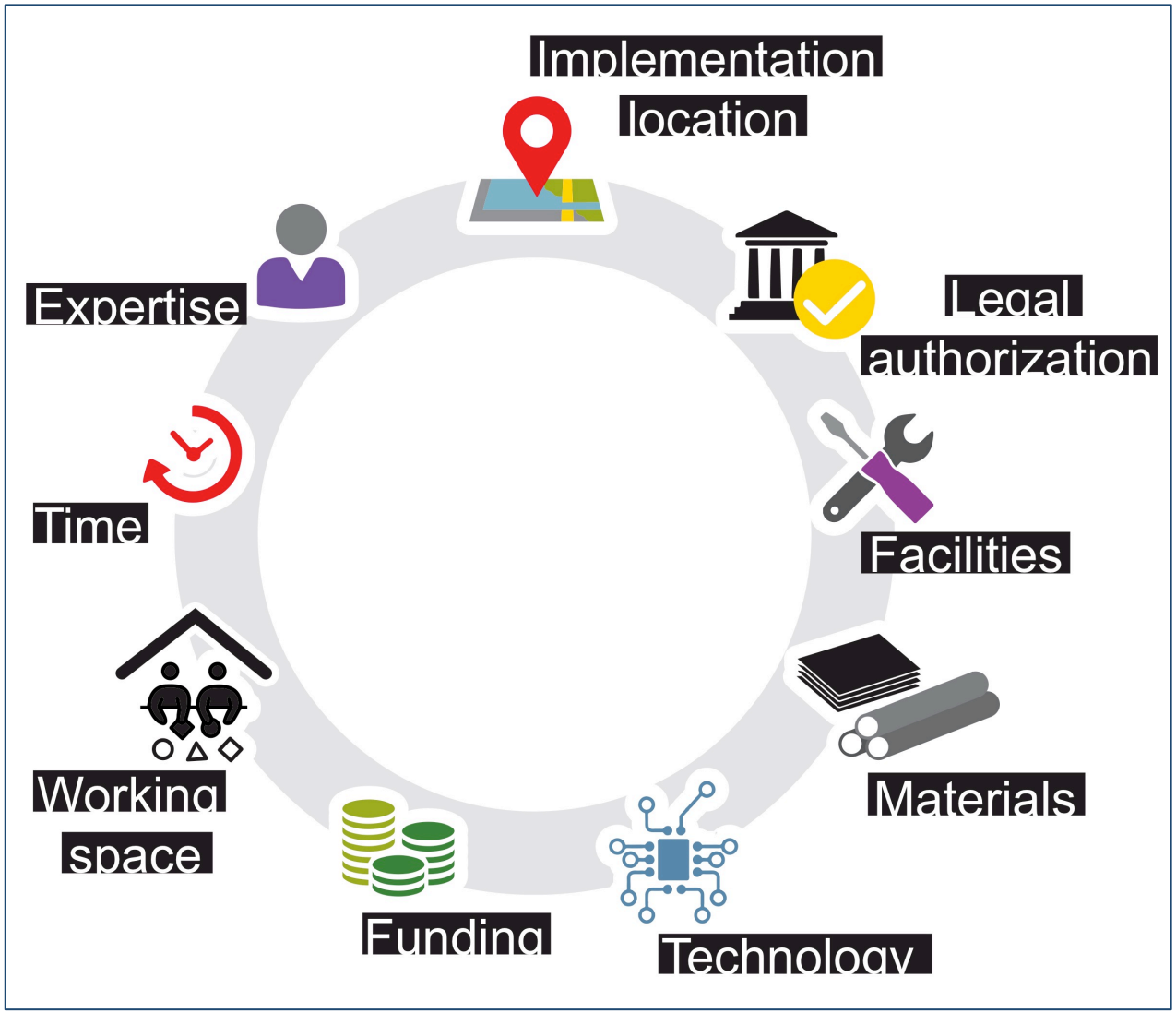
TOOLS: LIVING LAB CANVAS

The Canvas will guide labs in development (or in distress) to come to a shared vision; to beis used with key questions, in workshop format

<table>
<tr><td colspan="3">General</td></tr>
<tr><td>Identification and Ideation</td><td>Partners and Participants</td><td>Outcomes and shared Vision</td></tr>
<tr><td>Scope</td><td>Planning and Organisation</td><td>Impact & Replication</td></tr>
<tr><td colspan="2">Review and Evaluation</td><td>Internal learning</td></tr>
<tr><td colspan="3">Canvas Instructions</td></tr>
</table>

AMSTERDAM INSTITUTE FOR
ADVANCED METROPOLITAN SOLUTIONS

TOOLS: PRACTICAL CONDITIONS



AMSTERDAM INSTITUTE FOR ADVANCED METROPOLITAN SOLUTIONS

AMS URBAN LIVING LABS WAY OF WORKING

A rigorous method, being implemented in projects in > 10 European cities, building up experience and actionable knowledge for various applicaton contexts

PROJECT PORTFOLIO (NEW PROJECTS)	Apply LL Method	Apply & Develop LL Method	Other methods / deepening
AMS PROGRAMMES - **Circularity in urban regions** - **smart urban mobility** - **(urban) energy** - **metropolitan food systems** - **Climate resilient cities** - **urban data&intellingence**	SWITCH4BLUE (NL) … CIVIC (EU) … … …	PLACER (EU) SUMMALAB (NL) *SCC LIGHTHOUSE (EU)* LOOP FORWARD (NL) URANUS (EU) …	… … *SCC LIGHTHOUSE (EU)* … … SHARED (NL)
Andere inhoud: - **Eventing** - **Water** - **OTHER**	… NewWaterWays (NO)	ETROPOLIS (NL)	Pop-Up Playground LIVING LAB OFFICE
Platforms / Locations	Amsterdam ZuidOost	Marineterrein KREATIVKWARTIER Buiksloterham	Havenstad UN Sense

Note: all projects between 2 and 10 Meuro. Between brackets funding source.

CONTACT / LITERATURE

Leendert A. Verhoef
Leendert.verhoef@ams-institute.org

Amsterdam Institute for Advanced Metropolitan Solutions
Kattenburgerstraat 7, Building 027W,
1018 JA Amsterdam
The Netherlands
T: +31 (0)6 55 307 837

Living Lab way of working:

Steen, K.Y.G., Van Bueren, E.M., *Urban Living Labs: A Living Lab Way of Working*, AMS Research report, AMS Institute, June 2017