



Vitalise Europe's Urban Circular Bioeconomy: The HOOP project

19th October 2022, SCALIBUR Final Conference

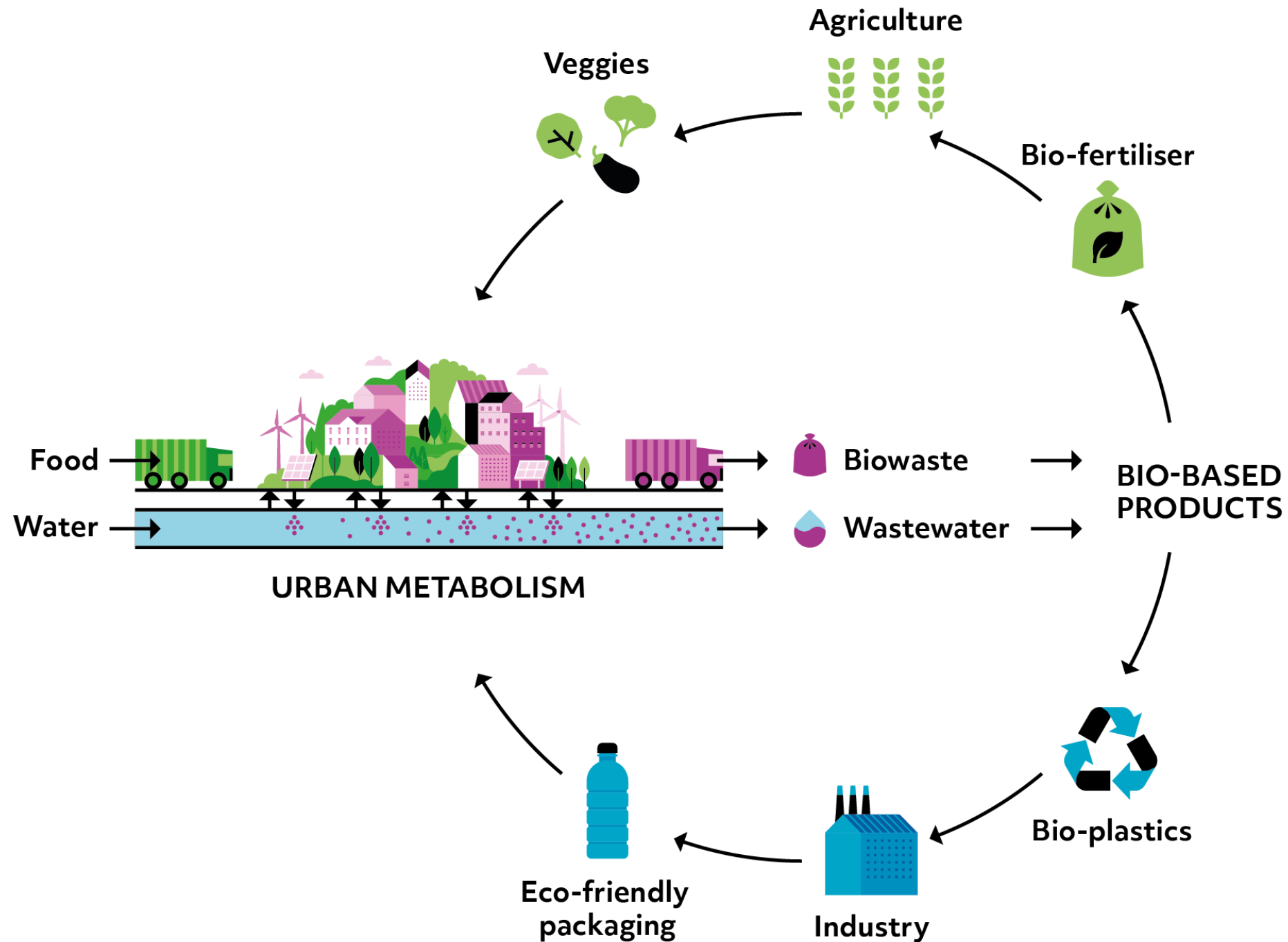
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Miguel Ángel Suárez Valdés, PhD. HOOP Project Manager



The HOOP project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N°101000836

Urban Circular Bioeconomy



Yes, we know UCBE well. There are many projects, initiatives and technologies about it.

UCBE is necessary. UCBE is an opportunity. UCBE is the future. It's good. It's great...

BUT

Very few cities & regions have developed circular bio-based economy strategies or projects for the production of innovative bio-based products.

Why?

Urban Circular Bioeconomy: the challenges

Quantity and quality of separate collection of biowaste

Social acceptance and awareness

Engagement of local and regional stakeholders

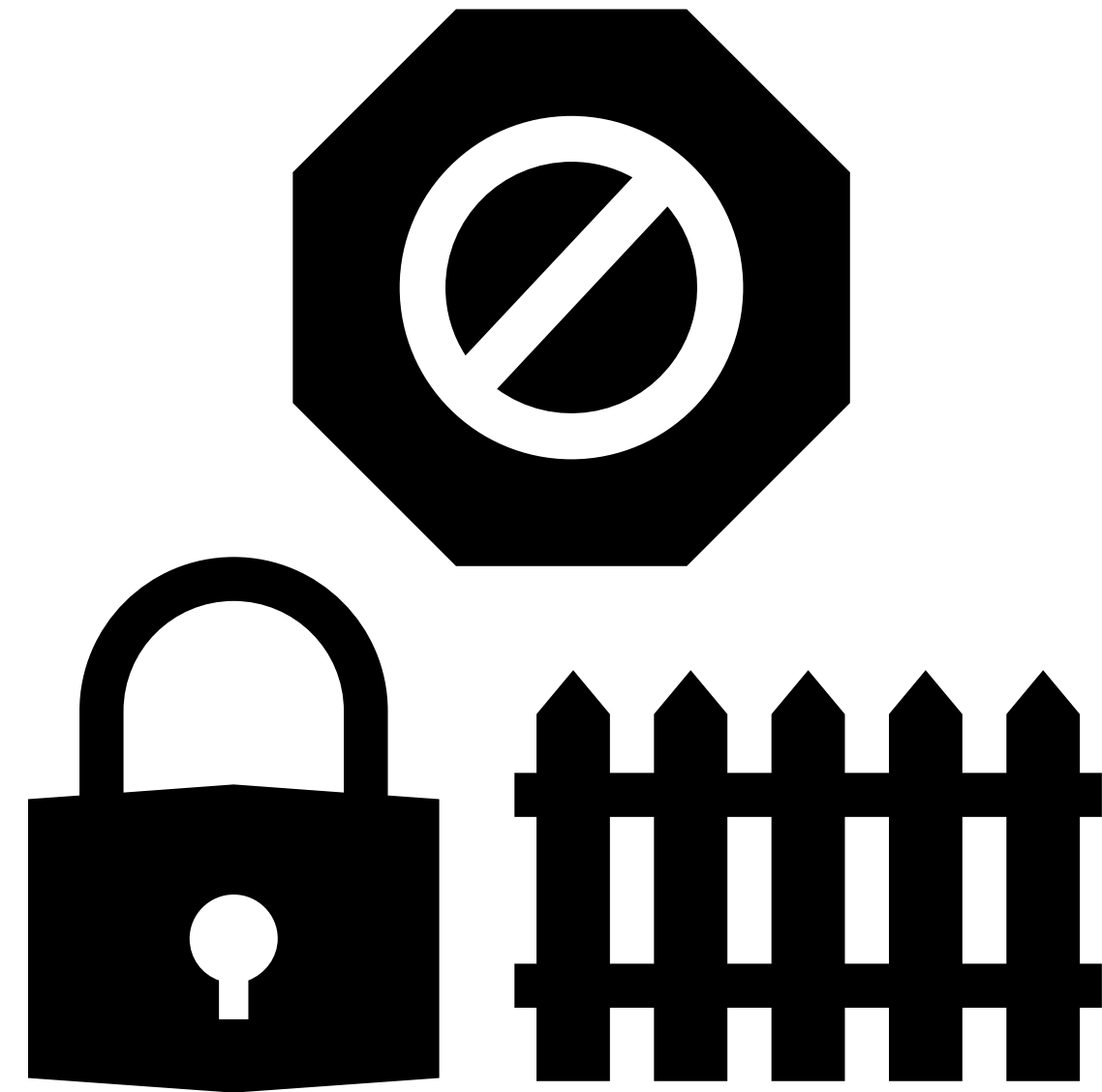
Market value of bioproducts

Scale-up of bio-based technologies

Business models

Regulatory status of bioproducts

Safety and functionality of bioproducts



How to unlock investments in urban circular bioeconomy and deploy local bioeconomy?



The HOOP Solution



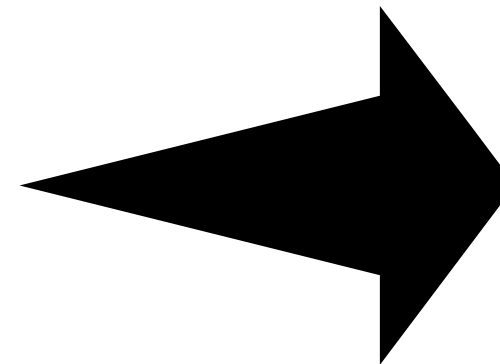
23partners
10countries

€9M

Budget

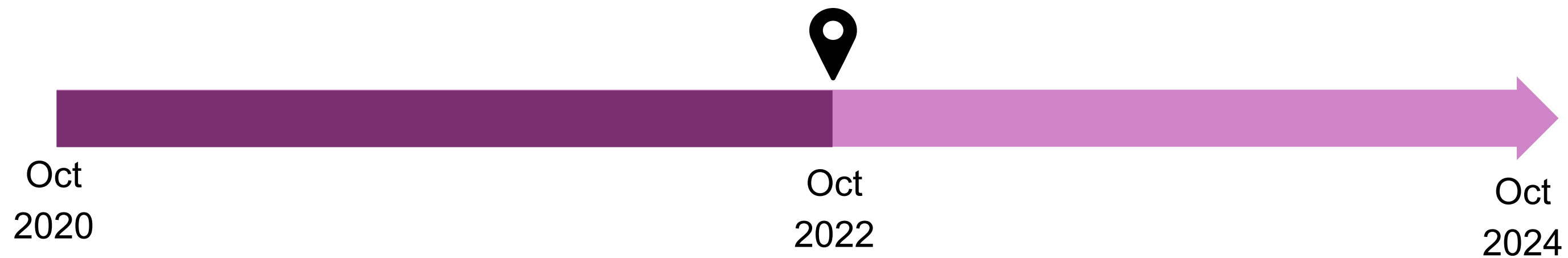
€5.8M PDA management

€8M EC Contribution



€51.7M

Investment
Induced



8 HOOP Regional Partners

Lighthouse Cities and Regions



+ HOOP Network of
Cities and Regions



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15 HOOP Technical Partners

Technological, Business Models
and Environmental Assessment



Financial Engineering
and Public Procurement



Networking, Communication, Social
Science, Stakeholder Involvement



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Technological, Business Models
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Financial Engineering
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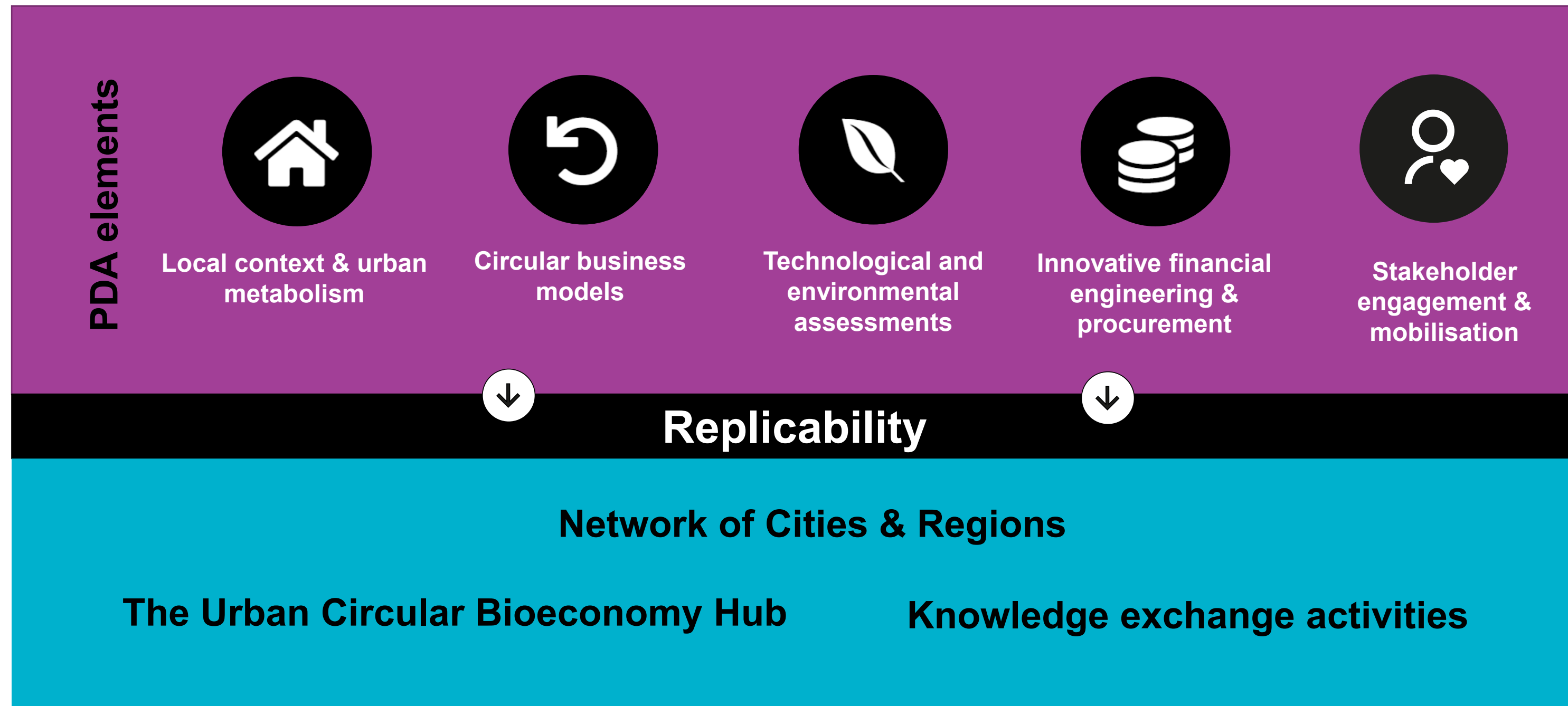
Networking, Communication, Social
Science, Stakeholder Involvement



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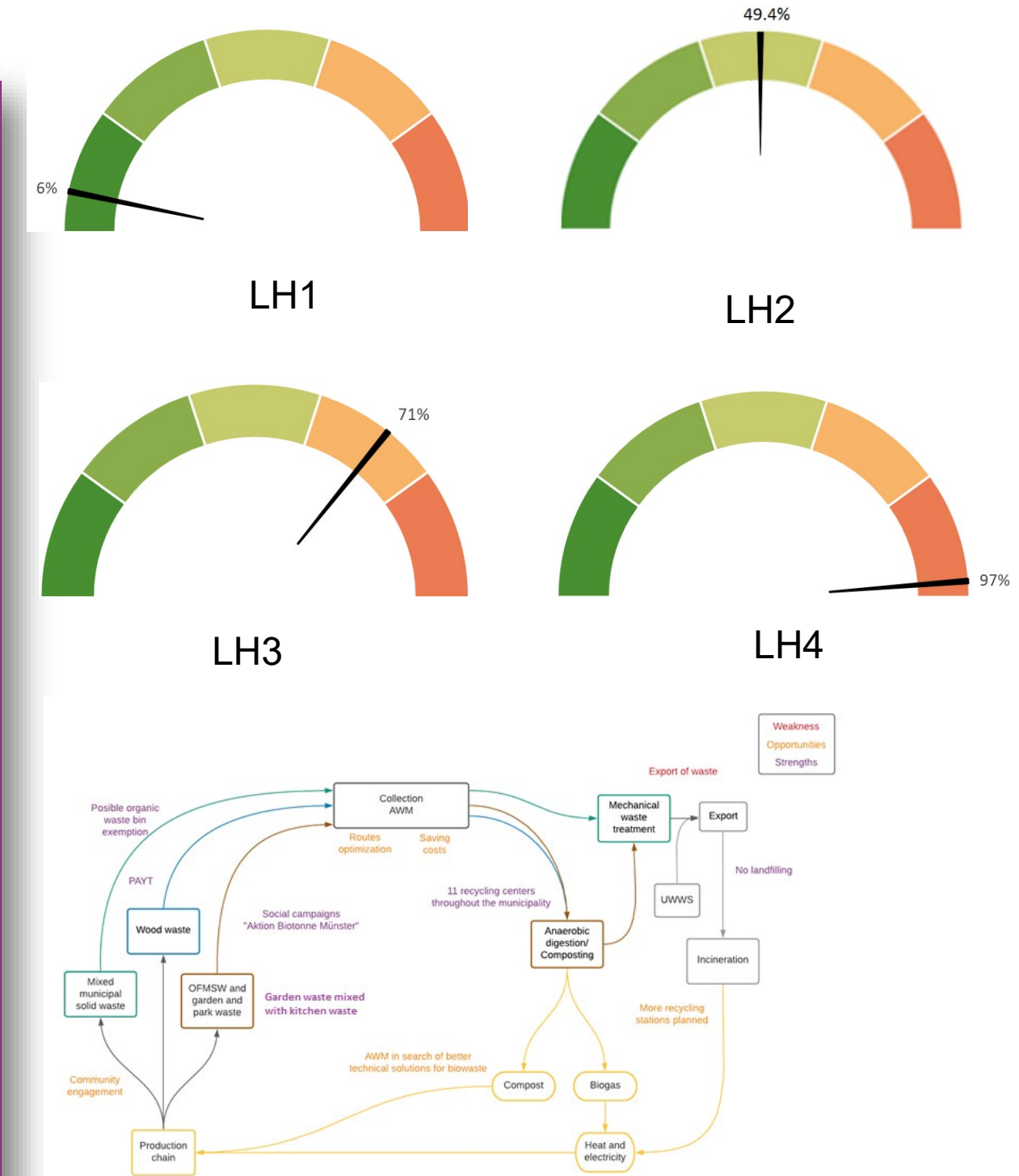
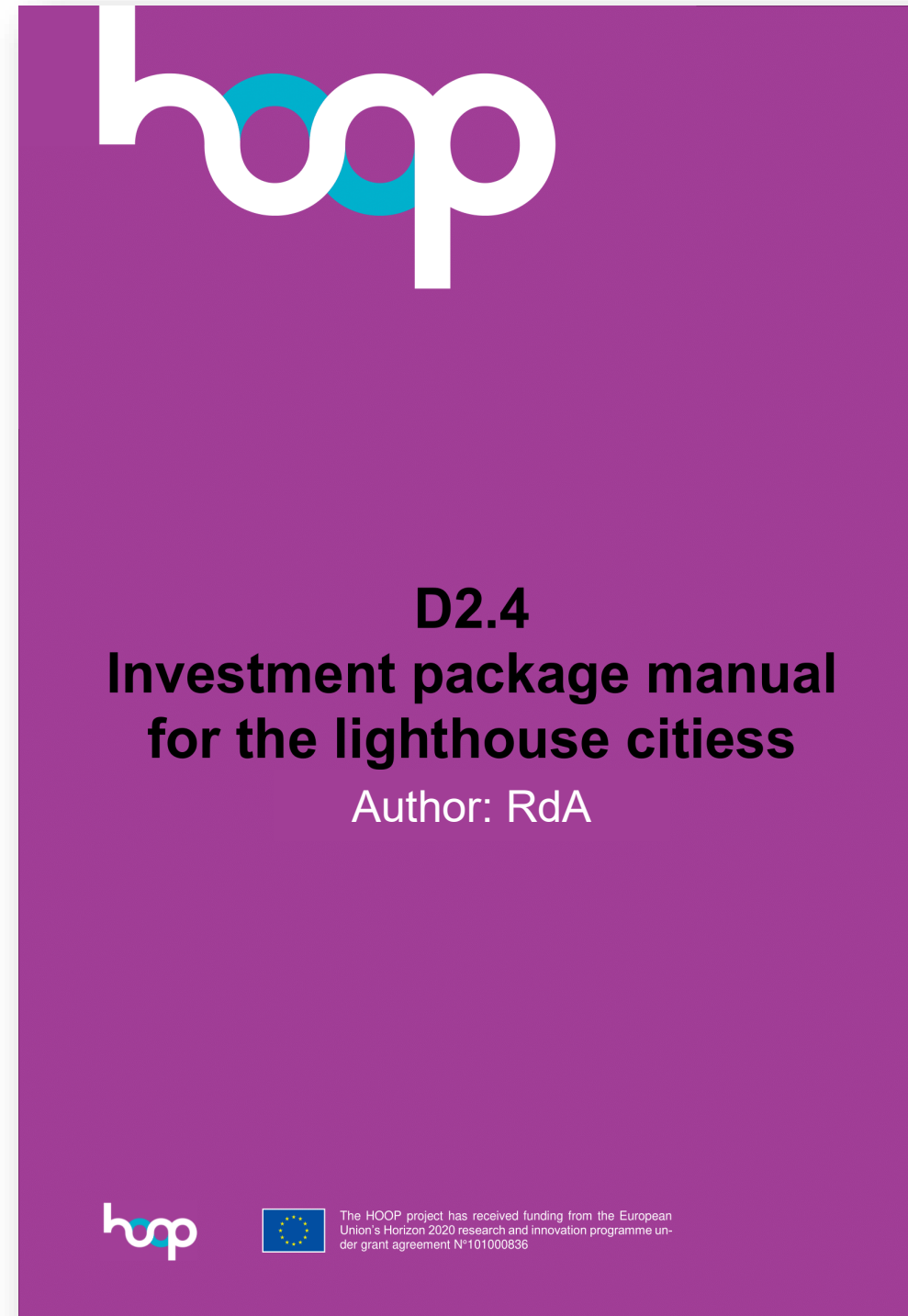
Project Concept: Project Development Assistance

Technical, economic, financial and legal expertise to develop concrete investments.



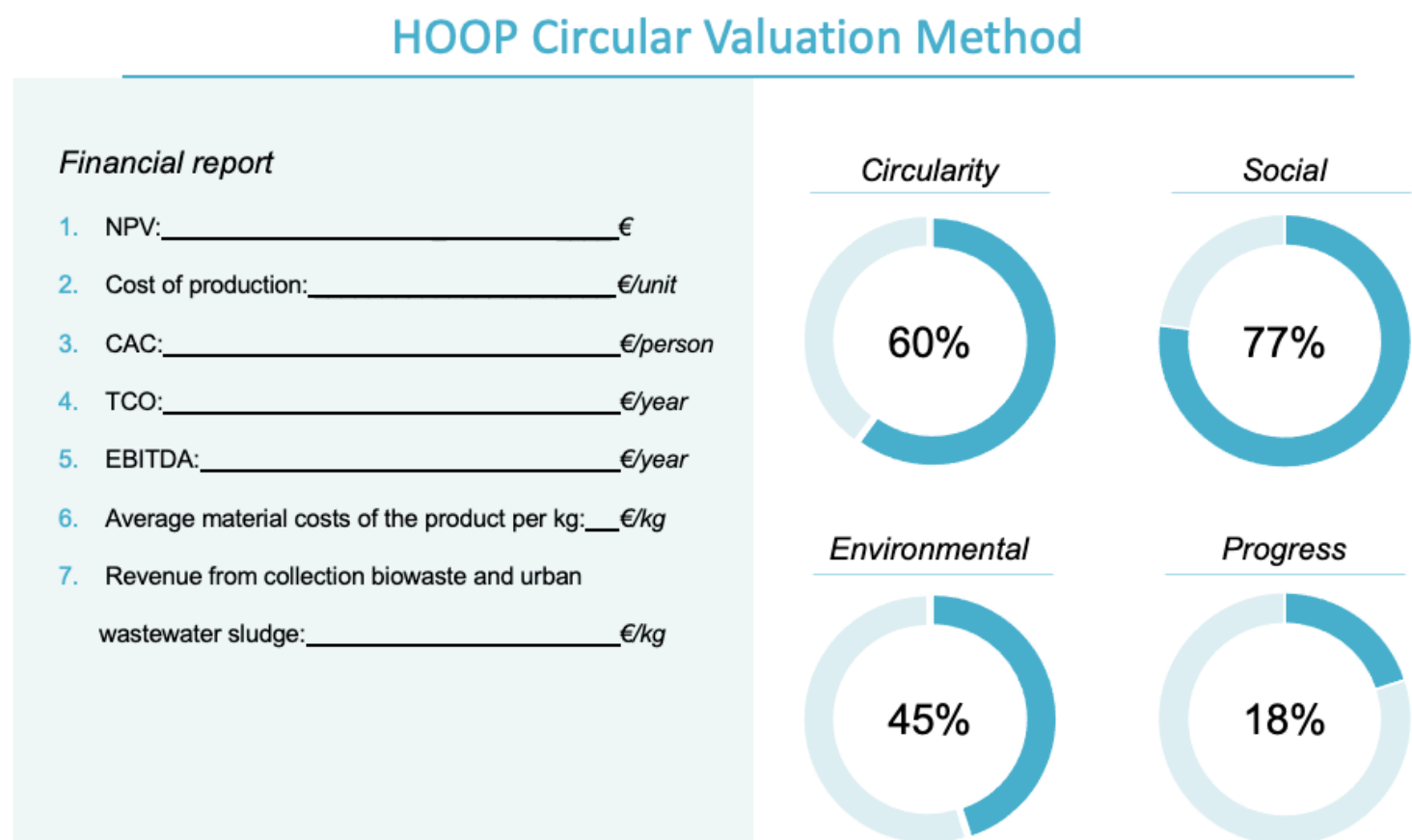
HOOP PDA: Knowing our Lighthouses

- 1. Analysis of urban metabolism**
- 2. Baseline studies**
- 3. Investment package manual (public version available!)**
- 4. Tailored Lighthouse Business Models**
- 5. Identification of BAT**



HOOP PDA: Tools for Lighthouses

- 1. Circular Valuation Method
- 2. State-of-the-art of technologies
- 3. HOOP Bio-Circularity Label



More tools coming soon!



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CL 1-4



CL 5-6



CL 7-8



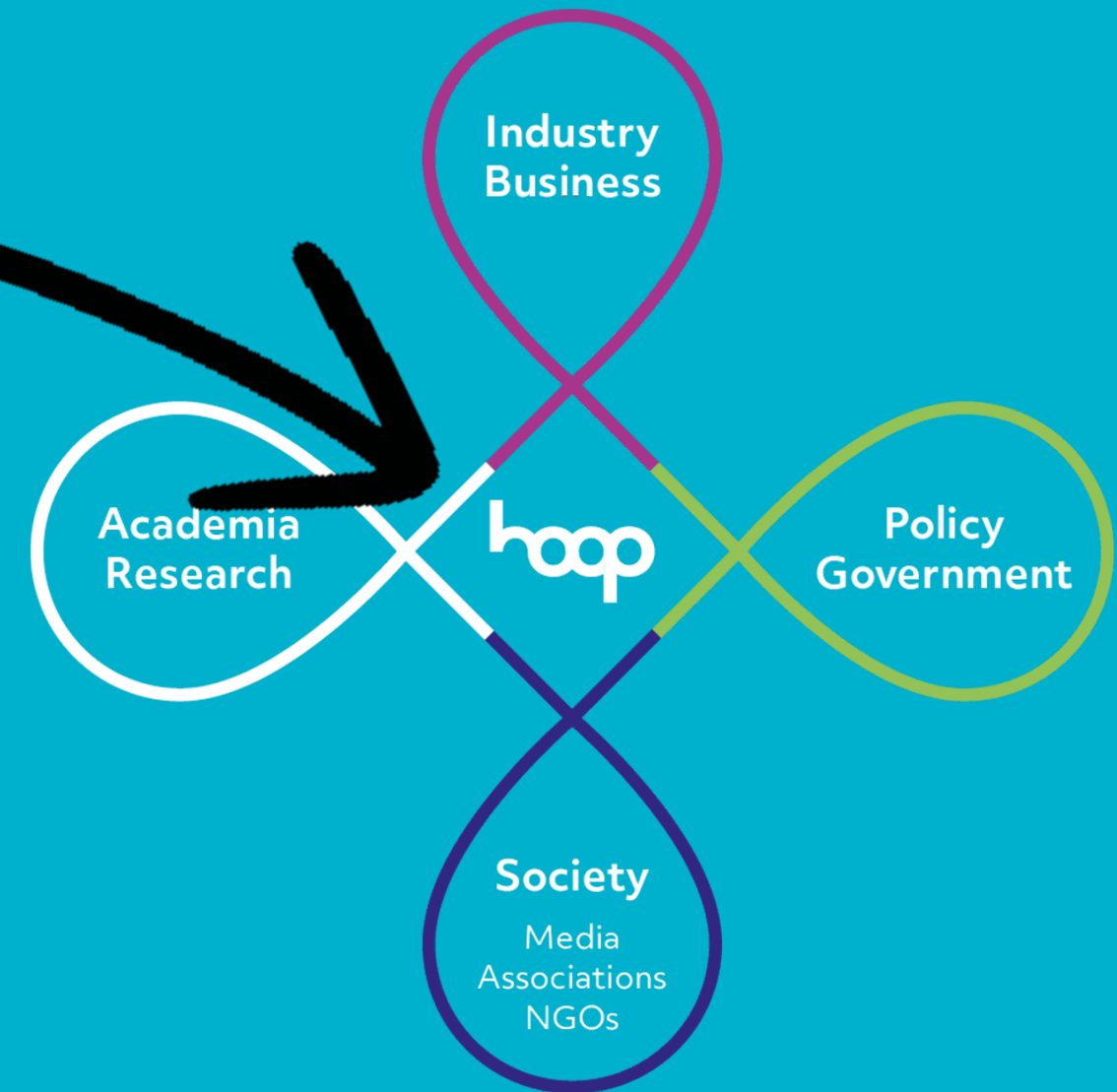
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HOOP PDA: Stakeholder engagement & mobilisation

Biowaste Clubs



The quadruple helix




HOOP PDA: How HOOP builds on SCALIBUR?

- **Concept of upscaling biowaste valorisation**
- **Biowaste Clubs**
- **State-of-the-art technologies in HOOP Portfolio**
 - **Production of biopolymers**
 - **Production of biopesticides and biostimulants**
 - **Enzymatic hydrolysis**
 - **Bioelectrochemical systems**
 - **Black soldier fly larvae (together with VALUEWASTE and WaysTUP!)**
- **Development of methodologies**




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HOOP Replicability: Urban Circular Bioeconomy Hub



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HOOP Urban Circular Bioeconomy Hub

Boosting the implementation of Circular BioEconomy projects

The HOOP Network of Cities and Regions is a forum to exchange lessons learned and ideas for the implementation of bioeconomy projects.

Join the Network of Cities and Regions



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The Virtual Academy provides resources related to the implementation of Urban Circular Bioeconomy solutions. This includes handbooks, manuals, factsheets and videos on technologies and financial engineering for circular bio-economy projects.

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Evaluate and improve

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D4.1 Novel Circular Business Models applied in the value chain of bio-waste valorisation

Author: DRAXIS ENVIRONMENTAL S.A.

Circular business models, Circular strategies

HOOP project_Novel Circular Business Models applied in the value chain of bio-waste valorisation

This report focuses on the identification of Circular Business Models for bio-waste valorisation.

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Investment Package Manual for European Cities and Regions

VOLUME III

National and Regional investment package on

Circular business models, Financing, Investment, OFMSW, Wastewater

HOOP project_Investment Package Manual for European Cities and Regions (Volume III)

The Volume III of the Investment Package Manual presents a selection and inventory of funding and financing schemes, programmes, instruments and tools for investment projects on circular bioeconomy and bioenergy at National and Regional levels.

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Investment Package Manual for European Cities and Regions

VOLUME II

European investment package on circular bioeconomy for European Cities and Regions


Financing, Incentives, Legislation, Procurement

HOOP project_Investment Package Manual for European Cities and Regions (Volume II)

The Volume II of the Investment Package Manual guides the reader through the selection and inventory of funding and financing schemes, programmes, instruments and tools for investment projects on circular bioeconomy and bioenergy at European level.


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Virtual Academy




MEMBER

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MEMBER

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MEMBER

CL 7-8



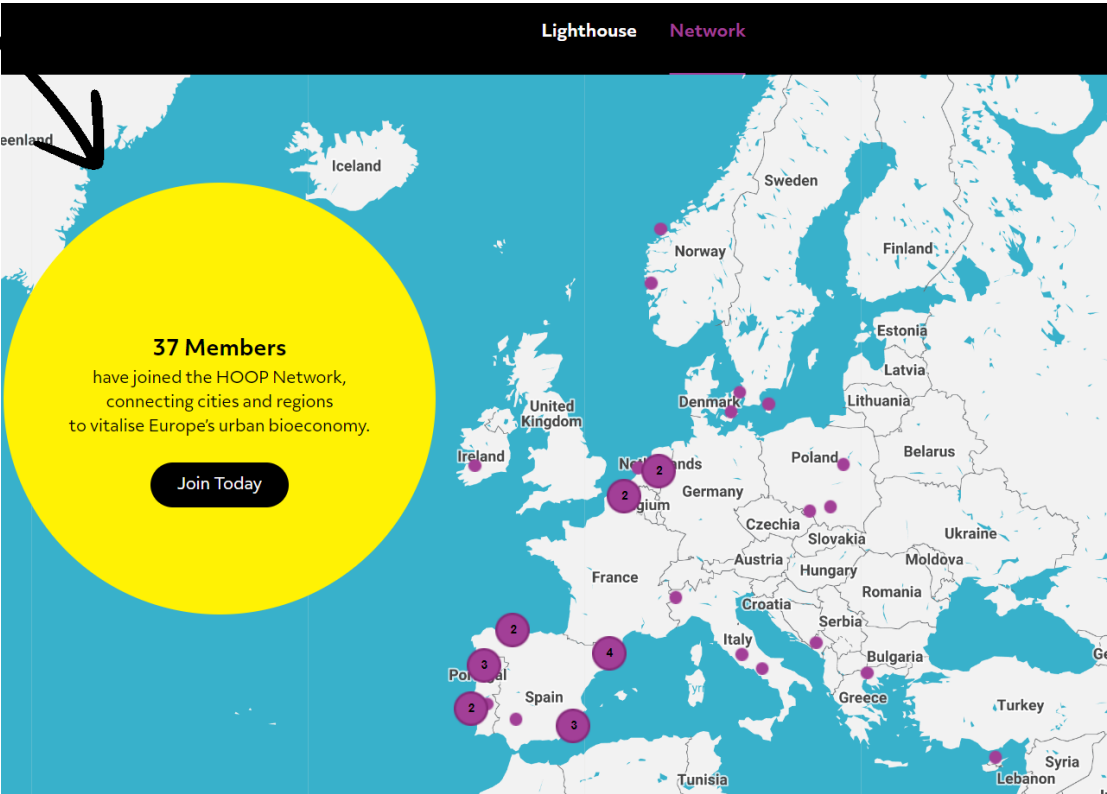
MEMBER

CL 9

HOOP Bio-Circularity Label

The HOOP project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N°101000836

LighthouseNetwork



37 Members

have joined the HOOP Network, connecting cities and regions to vitalise Europe's urban bioeconomy.

Join Today

HOOP Network of Cities and Regions

14

HOOP Replicability: The HOOP Network

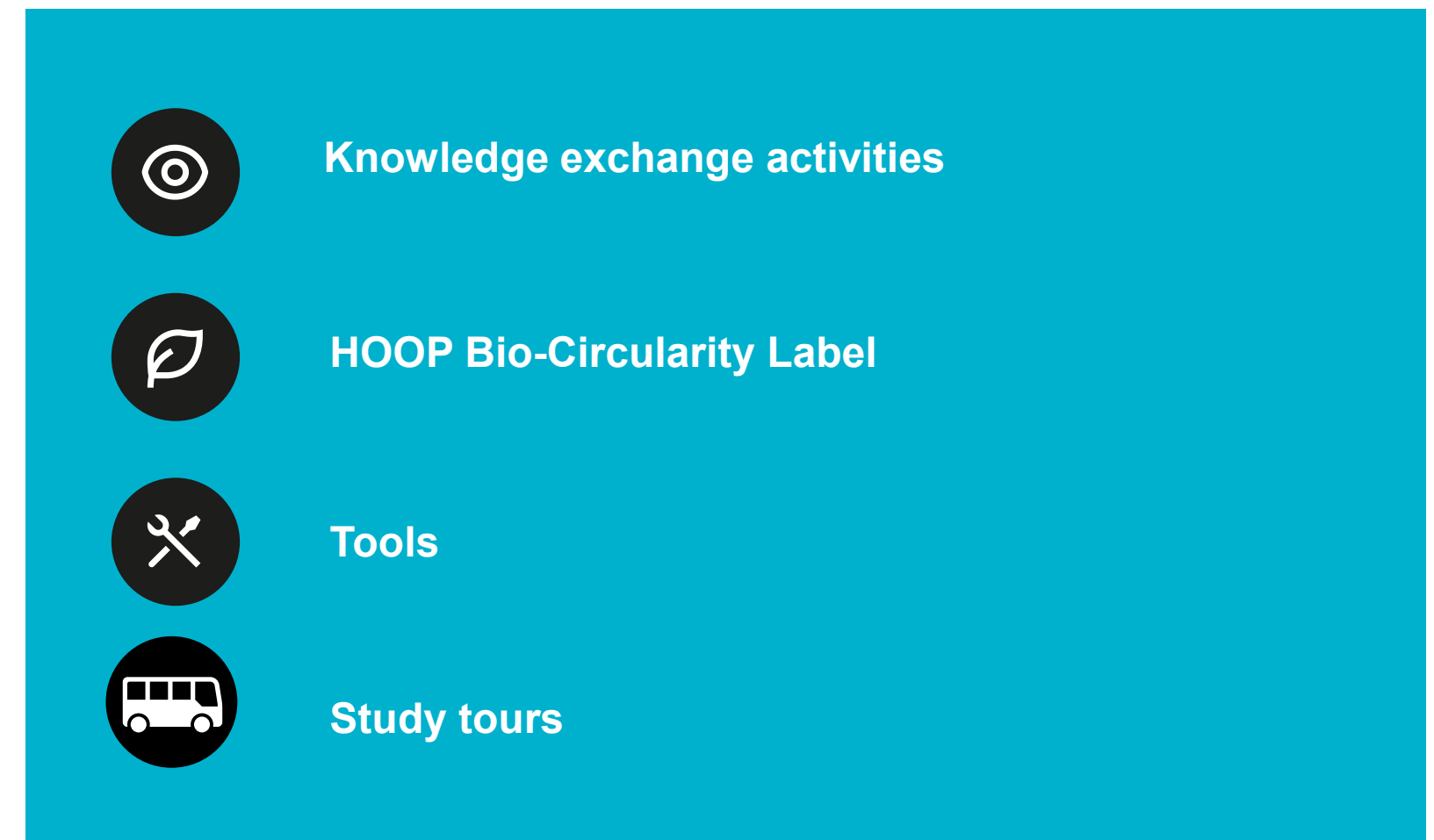
The [HOOP Network of Cities and Regions](https://hooproject.eu/network/#join-us) facilitates exchange of knowledge and mutual learning among cities and regions willing to recover valuable resources from urban biowaste and wastewater. Visit our [network page](https://hooproject.eu/network/#join-us) for more information and to register your city/region!



20



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37 members now

15

Other HOOP strategic groups

1. Local HOOP Committees

- PDA Management

2. HOOP Circular Investors Board

- The advice from investors

3. Legal advisory board

- The advice of expert lawyers in public procurement

4. Innovation Committee



I Circular Investors Day

4th October 2022 Porto

HOOP in other initiatives

- HOOP is one of the projects part of the [Circular Cities and Regions Initiative](#) (CCRI)
- HOOP is one of the projects part of ROOTS policy initiative



Circular Policies for changing the biowaste system

LIVE



TUESDAY 27 SEPTEMBER 2022 - 09:30 - 17:00

Circular Cities and Regions Initiative

Supporting Europe's circular economy at local and regional level



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THANKS FOR YOUR ATTENTION

Miguel Ángel Suárez Valdés
miguelangel.suarez@cetenma.es



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