

Working for a circular bioeconomy at
local and regional level

Innovations proposed by the DECISIVE project



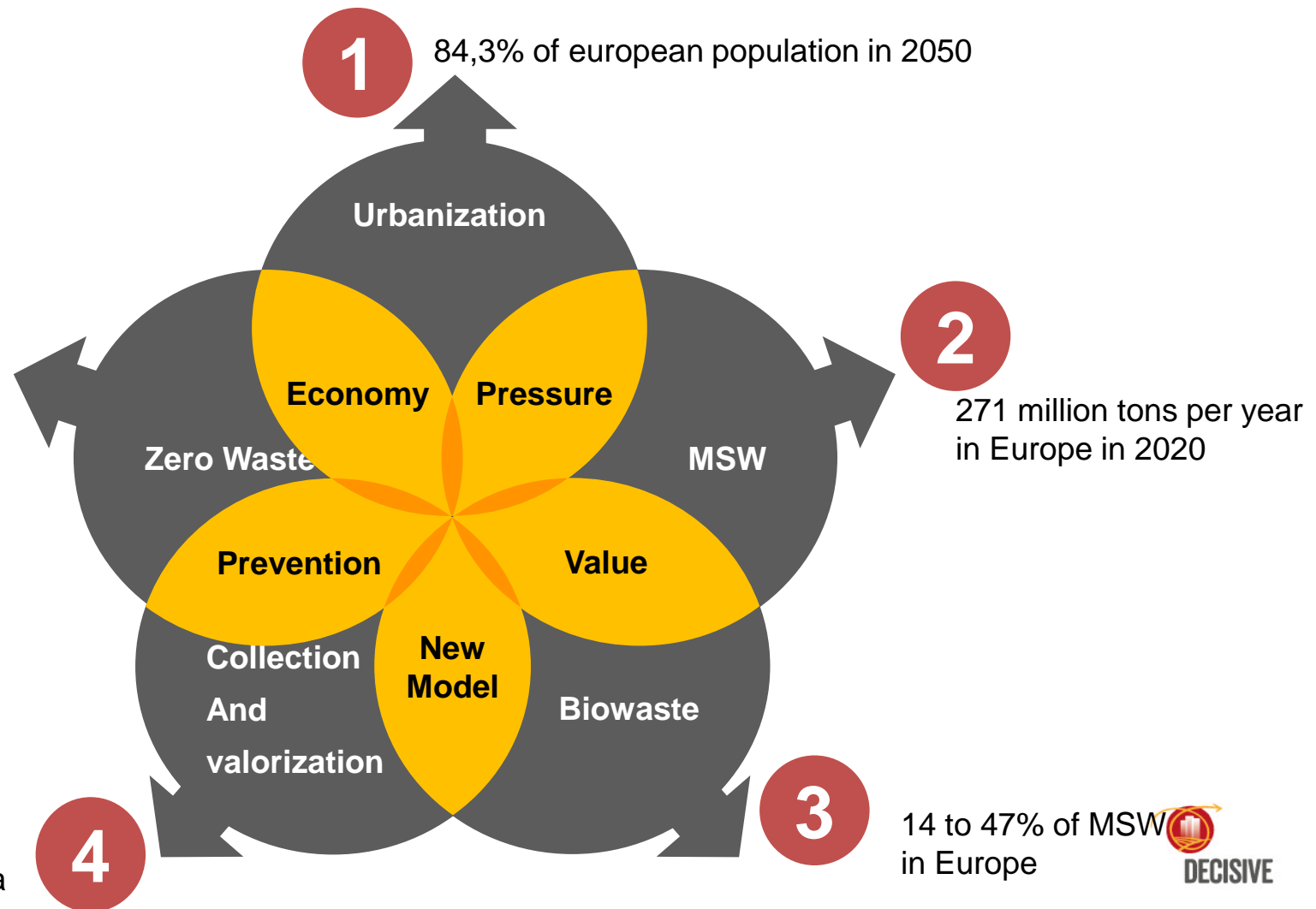
DECISIVE

**A DECENTRALISED MANAGEMENT SCHEME FOR
INNOVATIVE VALORISATION OF URBAN BIOWASTE**



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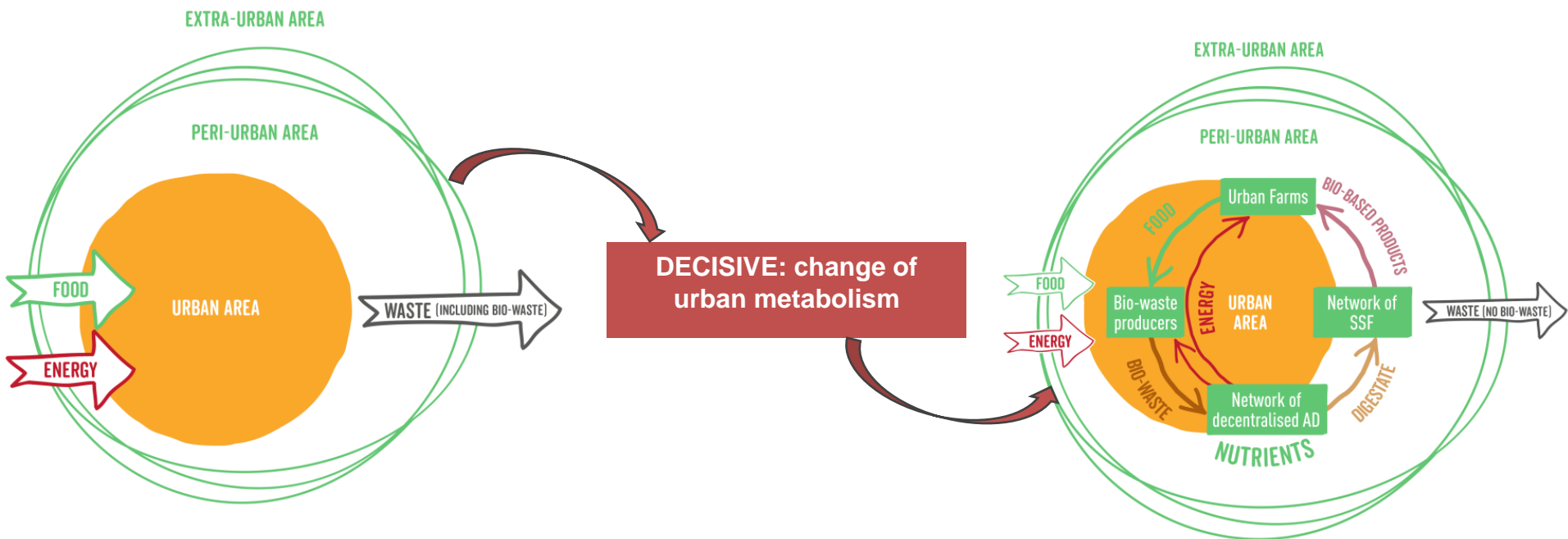
What is DECISIVE about?



What is DECISIVE about?

A new paradigm of urban organic waste management :

- promotion of decentralized treatment points networks
- short circuits and circular economy in the urban space



What impact on a local/regional level?

Renewable
energy

Local valorization
of heat and
electricity

Circular
economy

Concept of a
resilient city using
organic waste to
develop urban
farming and
circular economy

Urban
planning

Eco-quarter
Urban
rehabilitation

Waste
Prevention

Increase of citizen
awareness

How do we do this?

Multi-stakeholders

Research organisations ; public service ; association and foundation working with cities ; waste operator ; process sellers ; urban farm ; expert committee (public authorities, citizens, politicians)

Concept and tools Consolidation work

- Biowaste decentralised management system: concept and impact indicators
- Decentralised AD and SSF processes
- Integrated decision support tool for planning system implementation

Innovation Demonstration work

Demonstration implementation

Eco-innovation assessment

Waste prevention

Social, ecological and economic impacts

Business outlooks

Communication and Dissemination

Multi-disciplinarity

Geographical analysis ; material flow analysis ; network analysis ; environmental and sustainability assessment ; economic and social assessment ; bioengineering ; waste characterization

Sept. 16

Sept. 18

Sept. 20



DECISIVE: partnership



Proposed innovation in DECISIVE?

Organisational innovation:

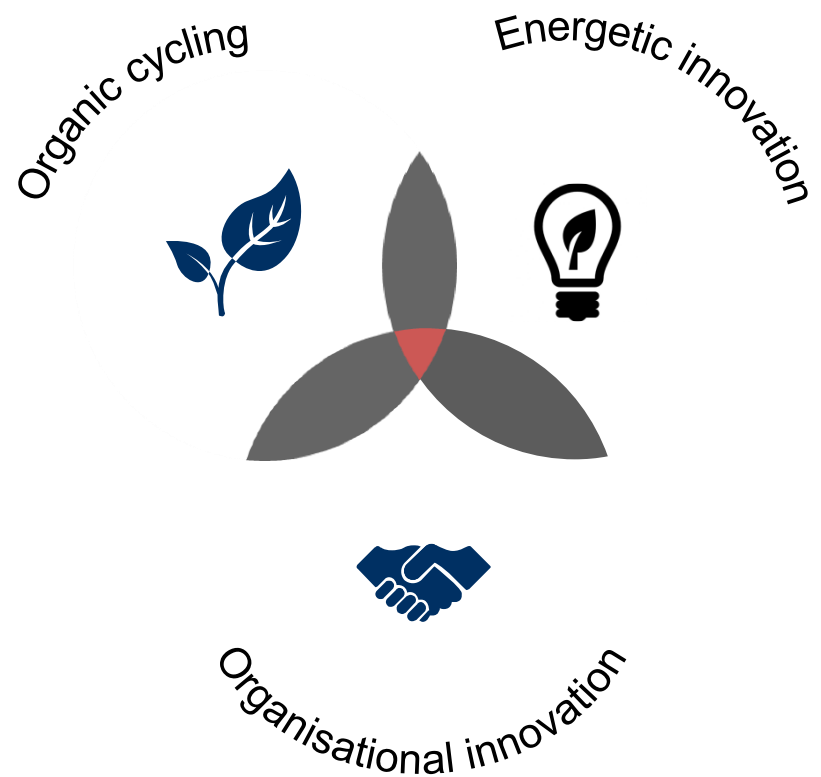
- A method to plan efficient (enough simple and accurate) decentralised management scheme for urban organic solid waste based on urban metabolism study

Technological innovations:

- Micro-AD and biogas local valorisation
- SSF

Policy and economic innovation

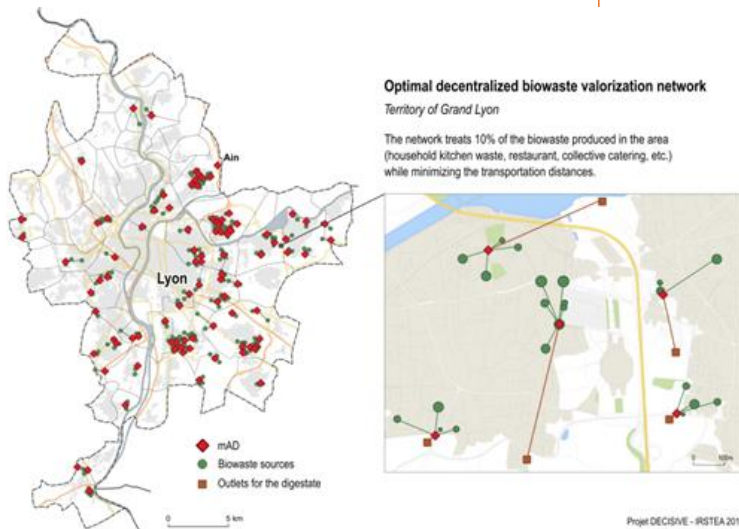
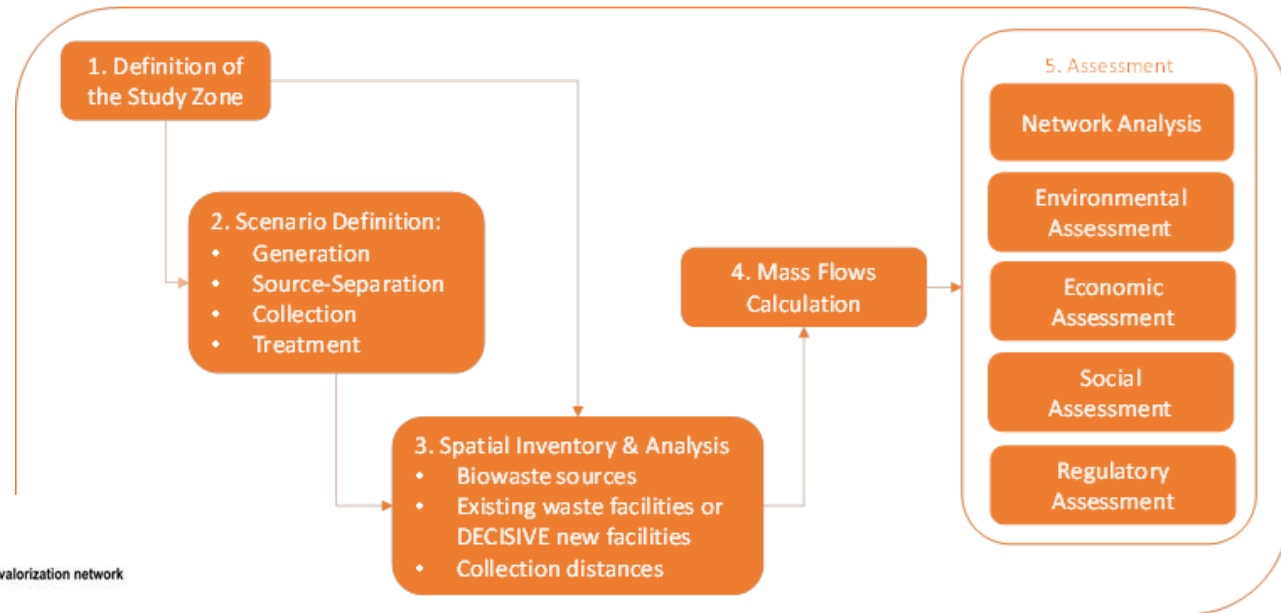
- Guidelines/advices for environmental Policy
- Urban farm concept
- New waste business



Project progress: DST for decentralised management planning

WORKING FLOW

- Decision support tool
 - Current situation
 - Scenario proposals
 - Assessment



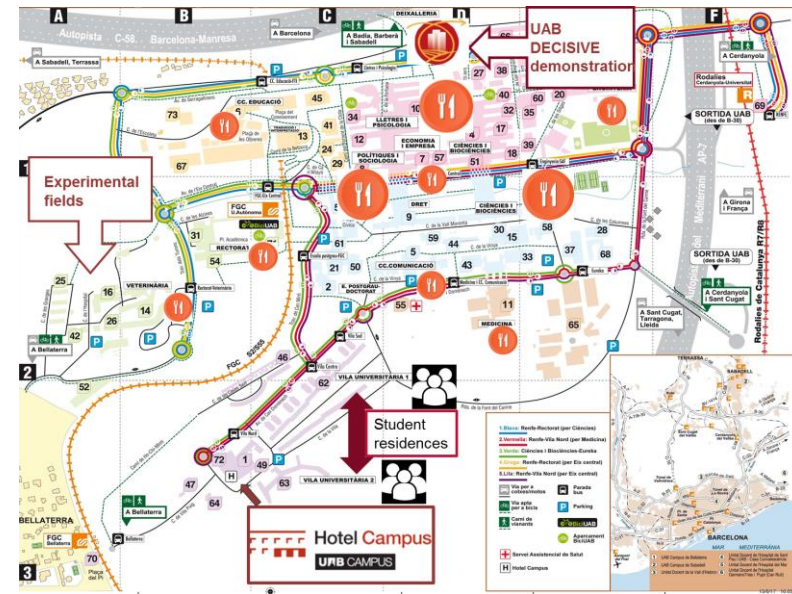
- Spatial optimization of decentralised networks
 - Inventories of sources, locations, valorization points, surrounding farming
 - Optimization on distance, regulatory obligations, etc.

Project progress: Demonstrations in preparation

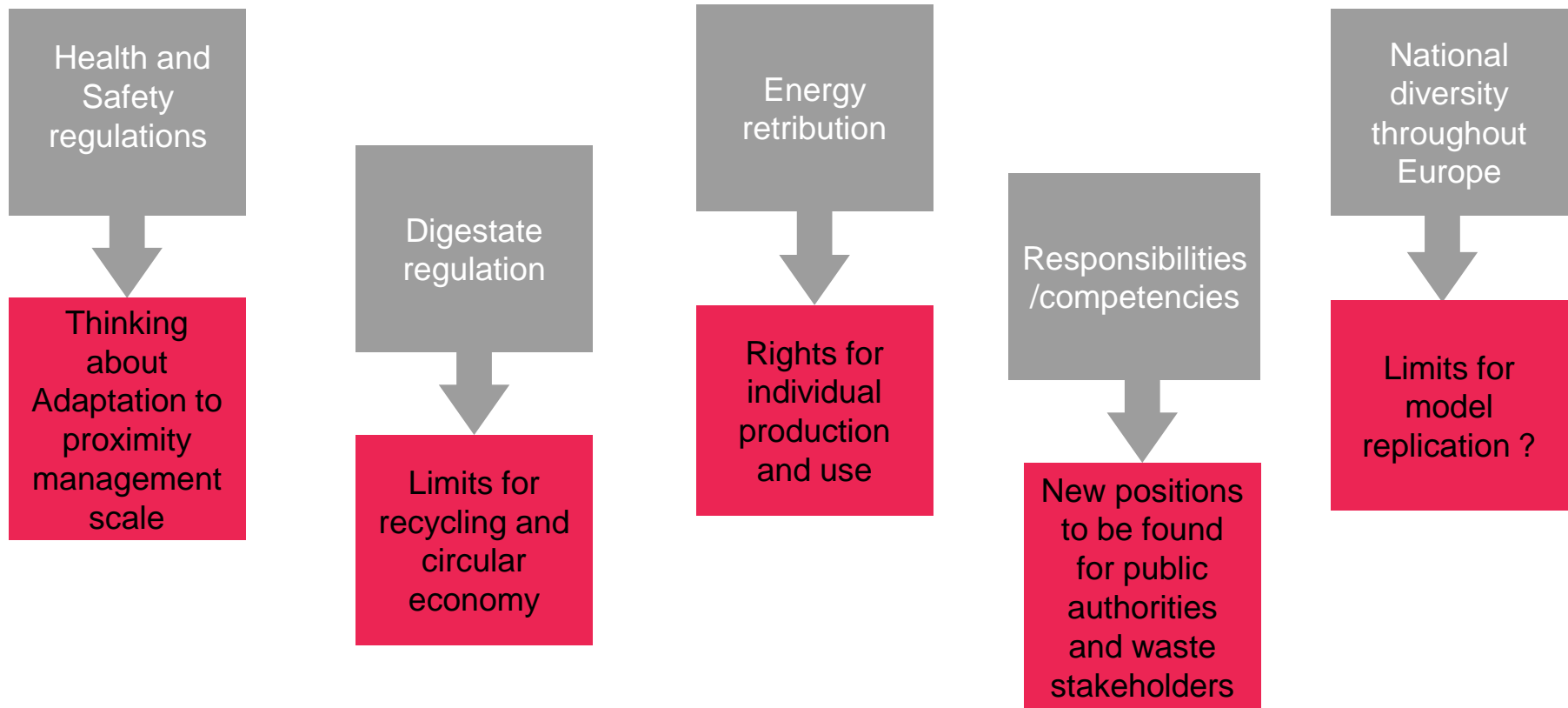
- France, Lyon
 - Urban Farms Refarmers - horticol school
 - Restaurant and school canteens => 50 t/y
 - Valorization on the farm



- Spain, Barcelona
 - UAB Campus
 - Campus restaurants; Residencies => 100-200 t/y
 - Valorization on the campus



Current limits for advancing the innovations



To overcome limits: synergy with over projects ; proposals for policy makers

Contact

www.decisive2020.eu

✉ info@decisive2020.eu

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