



Italian National Agency for New Technologies,
Energy and Sustainable Economic Development



RawMaterials
Connecting matters



EIT RawMaterials is supported by the EIT,
a body of the European Union

CIRCuiT – CIRcular Cities Transition needs

Introduction to the project

EIT House , CIRCuiT Stakeholder workshop

October 10 th 2019

Roberta De Carolis, Carolina Innella, Grazia Barberio

Support for coordination of activities on Circular Economy Section, ENEA Department for Sustainability



1101 0110 1100
0101 0010 1101
0001 0110 1110
1101 0010 1101
1111 1010 0000



Background

By 2050 2/3 of the world population will be living in cities



75% of natural resources are consumed in cities



Background

50% of global waste is produced in cities



80% of global greenhouse gases are emitted by cities



Background

In cities are concentrated Innovation, Education, Finance, Culture ...



Background

Cities play a leading role in politics and economy and so they can design the way to develop circular economy.

The circular economy can help cities to become more liveable and resilient, and to meet the sustainable development goals and climate targets.



Background

How can circular economy principles be applied in our cities?

What are the needs and the gaps for a transition towards circular cities?

How to overcome the identified needs and gaps?



CIRCulT- Objectives

Identification of **GAPS** and **NEEDS of cities** (considering technological, social, regulatory, educational, fiscal, institutional, governance factors, as well as decision making procedures and city metabolism) on the basis of background references together with the numerous projects carried out or ongoing on the topic by the project partners and from feedbacks received from stakeholders in the project consortium network, in particular:

INSTITUTION, with particular focus on local administration Research (Universities, RTOs)

INDUSTRIES (SMEs, Large industries, cluster, ...)

CIVIL SOCIETY (consumer associations, environmental organizations, ...)

Establishing a **set of priority issues** to be tested and implemented at city level through analysing examples of factors (successful or non-successful) included in existing or past cities transition processes, on the basis of previous project results and stakeholder feedbacks.

CIRCulT– Consortium and Duration

The project consortium is composed by three partners:

ENEA – Southern CLC- Project Coordinator

VITO – Western CLC

Tecnalia – Southern CLC

Duration: 2019-07-01 --- 2019-12-31



CIRCuiT– Challenges

CIRCuiT will consider the factors affecting resource efficiency/circular cities regarding six main challenges:

1. Resource efficient cities, including new business models as reuse and repairing



2. Energy infrastructure, its materials and recycling



CIRCuiT– Challenges

3. Water management infrastructure, its materials and processing



4. Housing and infrastructure construction and their materials



CIRCuiT– Challenges

5. Transport, (e) mobility, logistics and their embodied materials



6. Industry and Urban planning



CIRCult- Topics



CIRCuiT - Methodology

Collect and Analyse

- the existing data, documents and project results, pointing out the relevant themes for transition towards circular cities.

Feedback

- feedback, on the basis of the analysis step, from stakeholders, Stakeholders are those ones collaborating in other projects/initiatives with the project consortium. Moreover, feedbacks from stakeholders will be collected from at least one dedicated workshop.

Ranking

- the collected factors that enable (or hamper) the implementation (transition) to circular practices in cities.

CIRCuiT – Methodology

Collect and Analyse



First data set



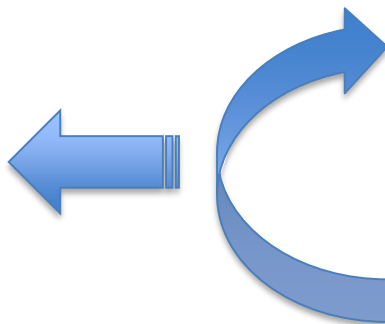
Feedback



Ranking



...transition to
circular cities



***Thank you for
your attention!***

Roberta De Carolis
roberta.decarolis@enea.it



1101 0110 1100
0101 0010 1101
0001 0110 1110
1101 0010 1101
1111 1010 0000

