

# CIRCULAR ECONOMY - A GLOBAL CHALLENGE FOR CONSTRUCTION INDUSTRY.

2<sup>ND</sup> ECCA CONFERENCE

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MIĘDZYNARODOWA KONFERENCJA  
„BUDOWNICTWO WOBEC  
GLOBALNYCH WYZWAŃ GOSPODARKI  
O OBIEGU ZAMKNIĘTYM”

5 grudnia 2017 r., Kołobrzeg



## European aspect of circular economy. The example of Lodzkie Region.

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of the European Union

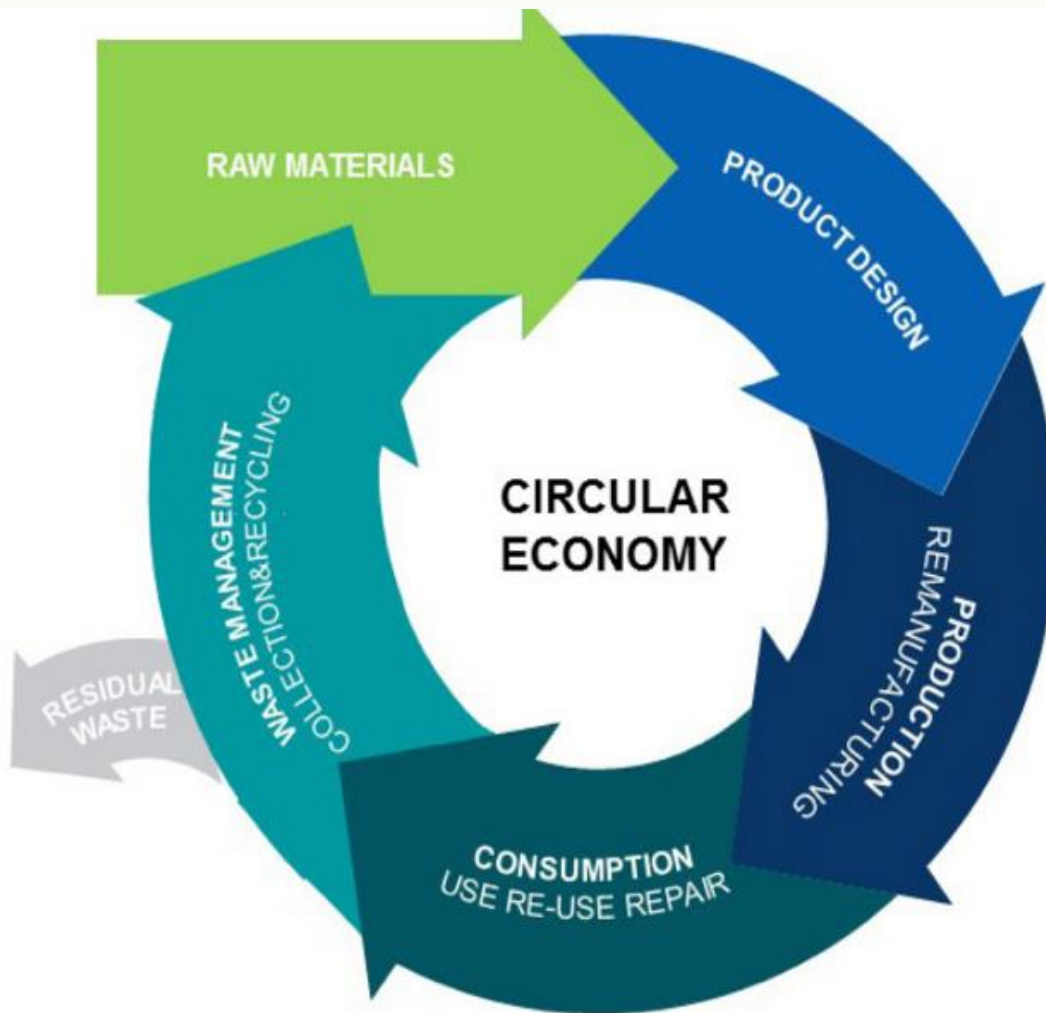


# Challenges

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- ▶ What to do to be in the vanguard of European Economy change?
- ▶ What is the potential and context of Regional Economy?
- ▶ How to use knowlegde and share experience?





Source: Graphic based on 'COM(2015) 614 final'

## Circular Economy – how it works

„The Potential for Substituting  
Manpower for Energy” 1976

„Jobs for Tomorrow: The Potential for  
Substituting Manpower for Energy”  
1981

Ellen McArthur Foundation

McKinsey „Towards the Circular  
Economy” 2010

„Manifesto for a Resource Efficient  
Europe” EC 2012

**European Commission - Circular  
Economy Package, EC 2015**

# Lodzkie state of play

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- ▶ Smart Specilization Strategy - Advanced building materials
- ▶ Regional Operation Program co-financed by ERDF and ESF
- ▶ Regional Assembly adopted a resolution on bioregion in 2015.
- ▶ “Action Plan for Development of Bioeconomy in Łódzkie Region”



# Building and construction industry

– examples form Lodzkie Region

- ▶ **BEYOND THE FUTURE COMPANY WITH LIMITED LIABILITY**
- ▶ BTF will provide ready-made solutions, based on the passive construction model, zero-energy social housing for based on acquired transport containers.





# Building and construction industry

– examples form Lodzkie Region

- ▶ **THE PIETRUCHA GROUP**
- ▶ is a producer of PolGrid geogrids used to stabilize and increase the load-bearing capacity of the substrate and the separation of materials with various grain sizes of demolition material for curing.
- ▶ geogrids allow you to reduce material consumption and, as a result, reduce costs and reduce investment time.



## CIRCULAR ECONOMY AND THE NEW ENTREPRENEURIAL AND SOCIAL REVOLUTION

READ MORE

### Envisaged initiatives in Łódzkie Region - Łódzkie as Circular Economy Avangarde

Circular Economy  
and the new  
entrepreneurial and  
social revolution,  
European Regions  
for Green  
Entrepreneurship

10 October 2017

<http://ewrc2017.lodzkie.pl/>

V European  
Bioeconomy Congress

20 – 21 November 2017



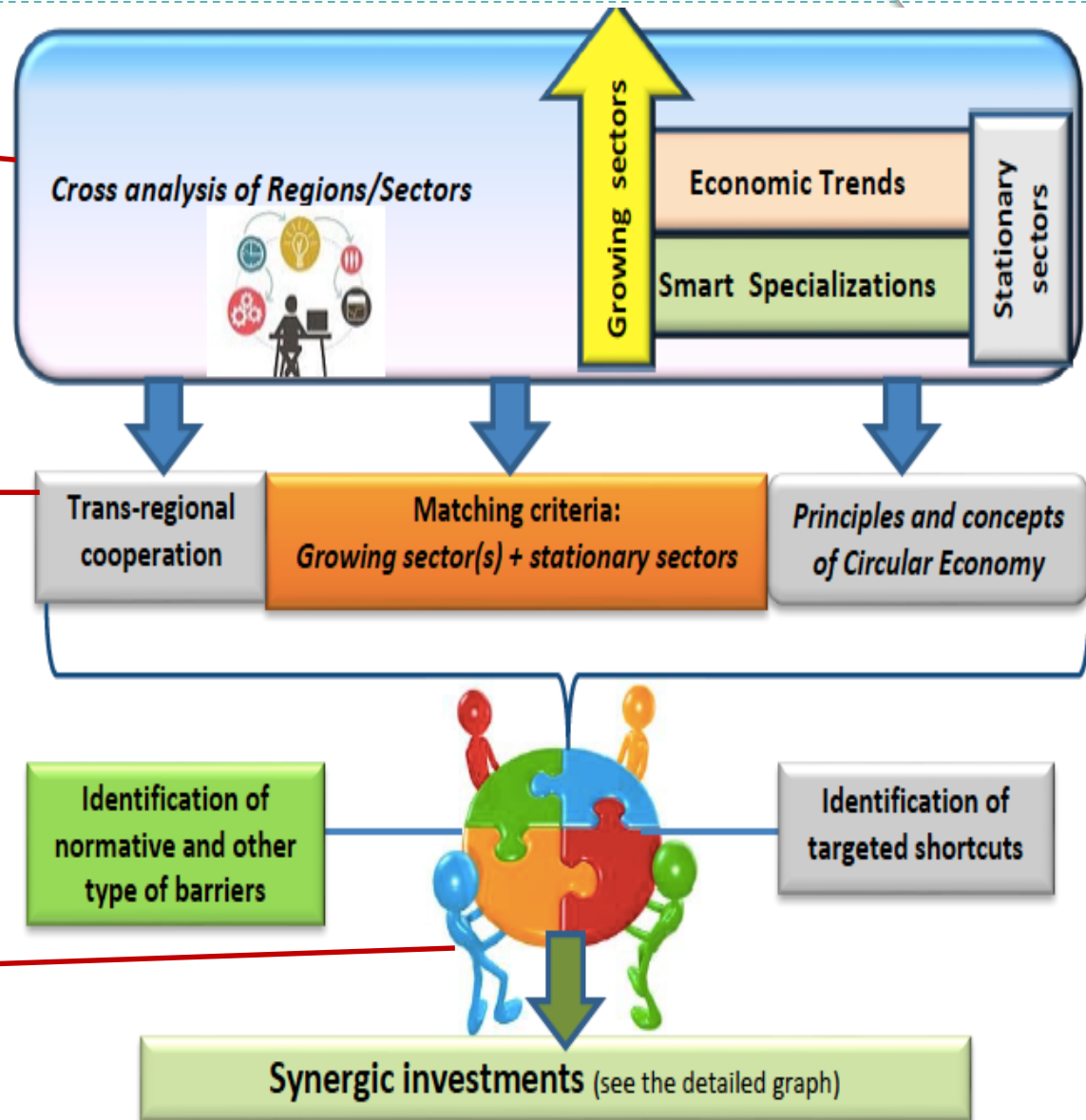
# SCREEN methods and logic

Tool for the local  
analysis already  
provided

Tool for the cross-  
regional analysis  
in progress

4 International  
workshops open to  
stakeholders  
(one already held in  
Milano)

Policy Lab





# Synergic Circular Economy across European Regions

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The action will develop an **EU reference framework** for:

- ▶ **Sustaining** the regional stakeholders involved in circular economy activities in line with the Smart Specialisation of each region;
- ▶ **Connecting** the above mentioned actors in a trans regional operational framework; and
- ▶ **Maximizing** the H2020 impact by **supporting "circular" entrepreneurial initiatives based on the exploitation of H2020 projects' results.**

## Impacts

- ▶ SCREEN will develop a **common agreed approach to support a transition to a circular economy and to enhance existing smart specialisation strategies of the involved regions.**
- ▶ The project will also develop some **policy support advisory services to enable regions to invest EU funds in trans-national value chain that will be identified and ranked by adopting common criteria.**



# What do we want to know more?

Horizon 2020 Work Programme 2018-2020

- ▶ introduce environmental standards for secondary raw materials in order to facilitate their identification and increase the potential of their use on the market,
  - ▶ **CE-SC5-01-2018: Methods to remove hazardous substances and contaminants from secondary raw materials; impact:** *reduced risk of retaining hazardous substances in recycled materials*
- ▶ *social behavioural, economic, environmental performance and geospatial indicators to monitor and assess the urban and peri-urban circularity and regenerative capacity;*
  - ▶ **CE-SC5-03-2018: Demonstrating systemic urban development for circular and regenerative cities**
- ▶ *improving significantly the health, safety and environmental performance throughout the whole life cycle considered*
  - ▶ **CE-SC5-07-2018-2019-2020: Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes**
- ▶ activities for the secondary use of water, including a legislative proposal on minimum requirements for the secondary use of waste water,
  - ▶ **CE-SC5-04-2019: Building a water-smart economy and society**



Thank you for your attention

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Dziękuję za uwagę

