

# European Circular Economy Stakeholder Platform



#CEStakeholderEU

2019 Circular Economy Stakeholder  
Conference: Success Stories and  
New Challenges

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Dr. Elena-Simina Lakatos





romania2019.eu



European  
Circular Economy  
Stakeholder Platform

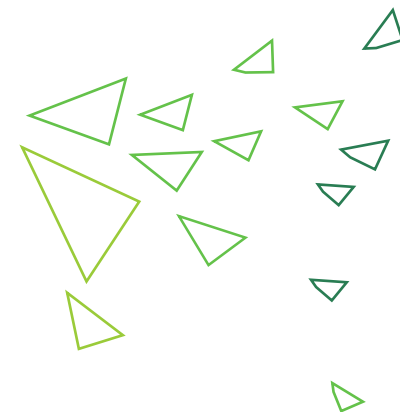


European Economic and Social Committee

#CEStakeholderEU

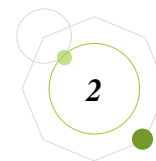
MINISTERUL MEDIULUI

IRCEM



# ROADMAP FOR DEVELOPING A STRATEGY ON THE CIRCULAR ECONOMY IN ROMANIA 2030

Dr. Elena-Simina Lakatos



# About IRCEM



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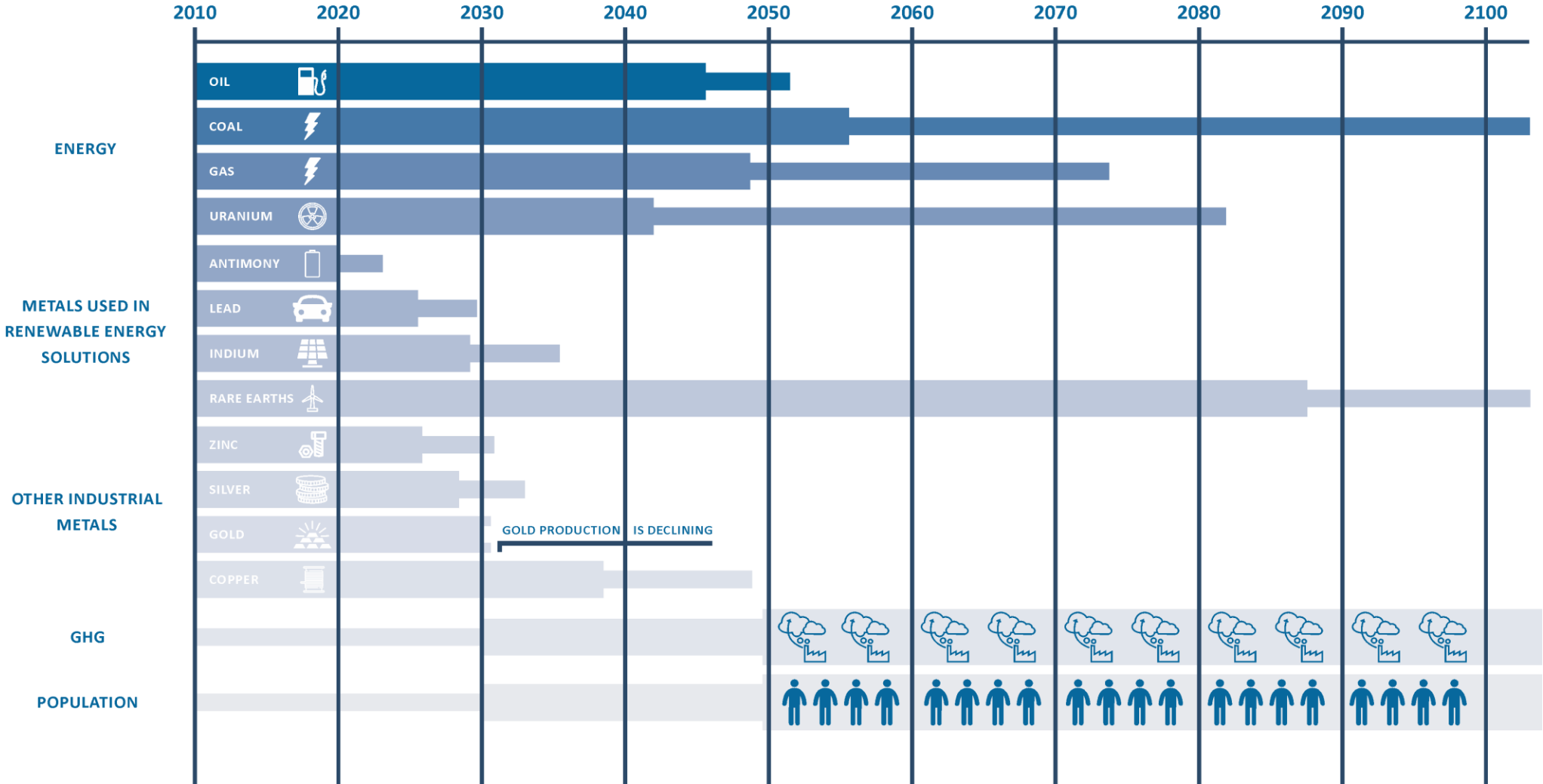
# Global situation

YEARS REMAINING IF PRODUCTION CONTINUES TO GROW AT CURRENT RATES



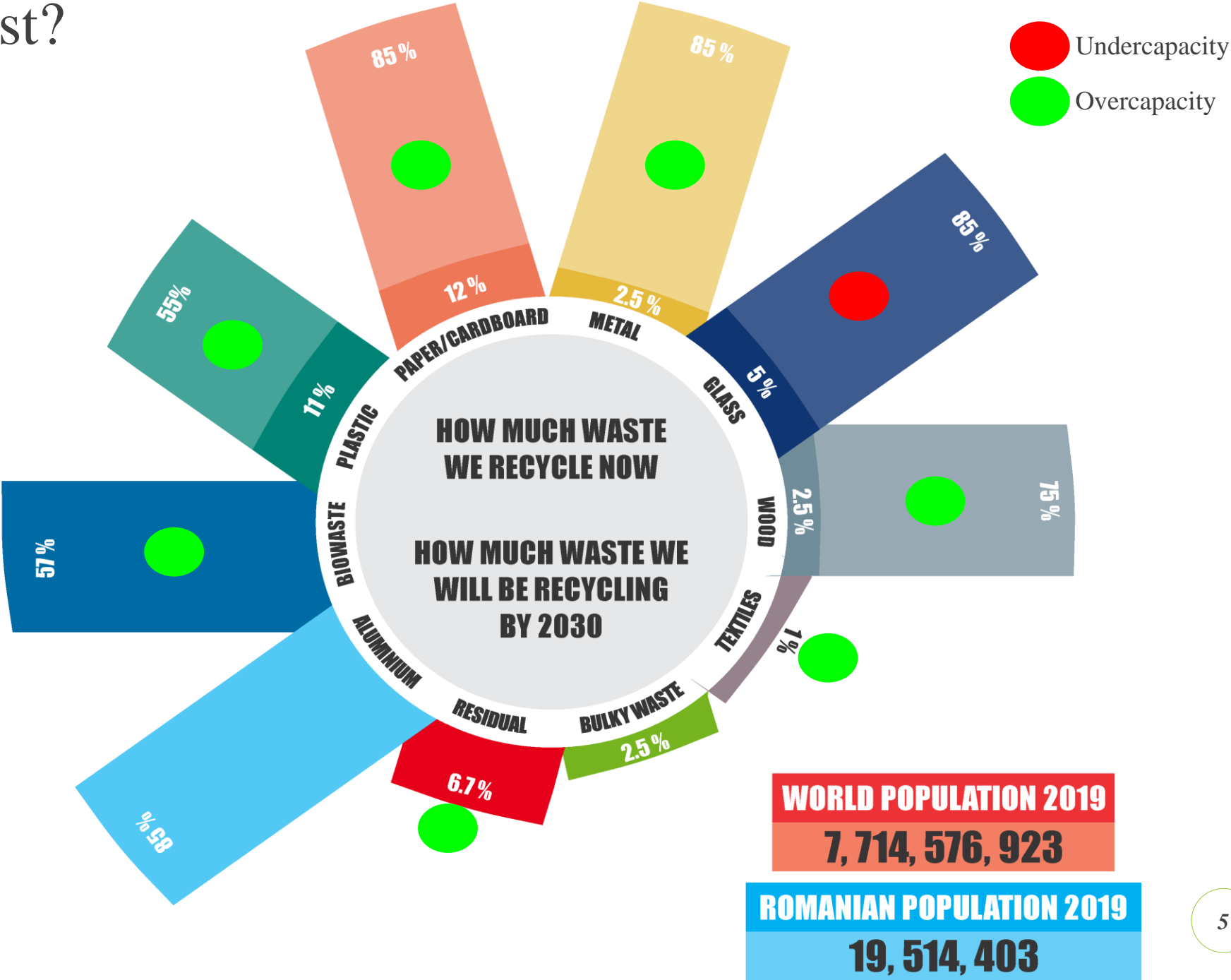
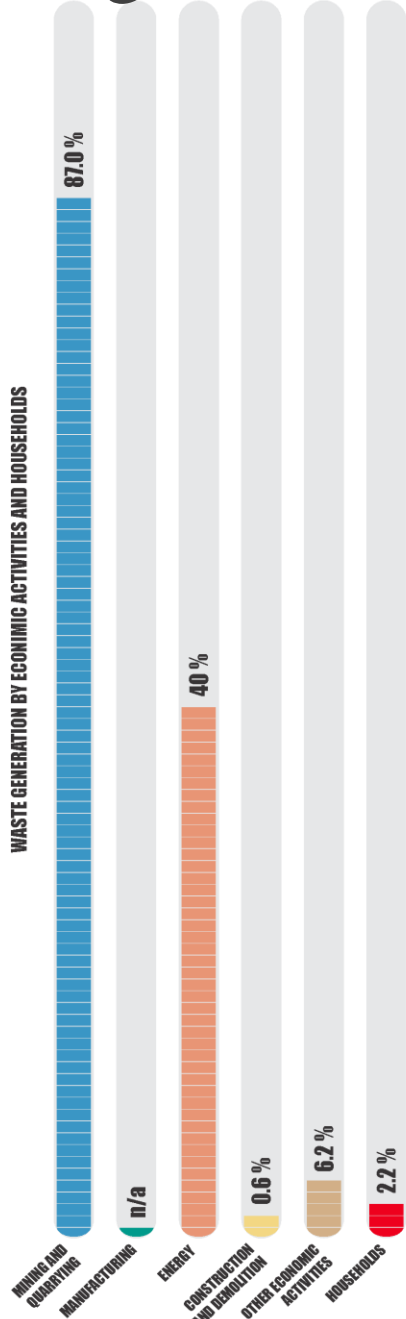
YEARS REMAINING IF PRODUCTION REMAINS STATIC

CALCULATIONS BASED ON KNOWN RESERVES:



Source:1, 2

# How long will be last?



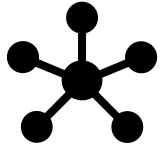
Source: 3, 4, 5

**Legislation:** pay-as-you-throw (PAYT) and a deposit-system for beverages



**Social entrepreneurship:** the development of new products from reused or recycled materials, repair centres

**Public local municipalities:** pursuing zero waste certification and affiliation to the “Zero Waste Cities” European initiative (6 cities/communities)



**NGO:** slow fashion projects, guerrilla campaigns, dedicated events, campaigns against landfills and against Waste-to-Energy technologies, campaigns for food waste reduction including food banks, product/resource sharing platforms, circular certification systems for products, buildings, cities.

# Circular economy initiatives - growing trend



# Departure point – current challenges

**Seminal thinkers/ frameworks**

Industrial Symbiosis  
e.g. Lowe and Evans (1995)\*

Cradle-to-Cradle™  
Braungart and McDonough (2002)\*\*

Performance Economy  
Stahel (e.g. 2006)\*\*

Blue Economy  
Pauli (2010)

**Think tanks**

Ellen MacArthur Foundation (2013)

Green Alliance (2014)

The New Economics Foundation (1994)\*

**Legislative & advisory**

Department of the Environment (1995)

British Standard Institute (2016)

Environmental Protection Agency (1993)

European Commission (2014)

**Academia**

Allwood et al. (2011)

Bocken et al. (2015)

	More degradable	More persistent
More biocompatible	Group one • Cellulose • Carbohydrates • Carboxylates (soaps) • Bioplastics	Group two • Iron • Silicon • Aluminium • Copper • Polyethylene
More toxic	Group three • Acids and bases • Alcohols and Thioles • Aliphatic Amines • Aromatic Amines • Ethylene/propylene • Ethanol/ Methanol • Phenols • Aromatic Hydrocarbons	Group four • Halogenated Aliphatics • Hydrocarbons • Lead • Mercury • Cadmium • Halogenated Aromatic Hydrocarbons (PCBs, DDT) • Dioxins and Furans

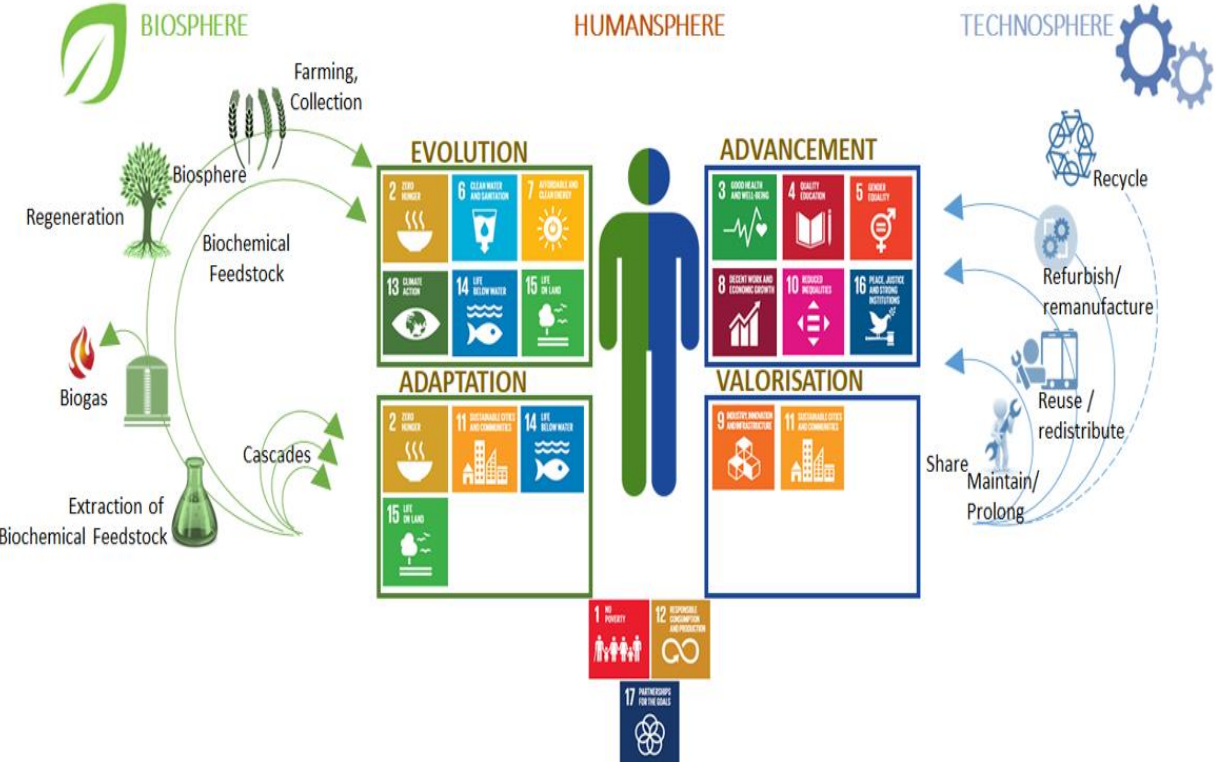
Geiser (2001)

**Business**

Ricoh (1994)

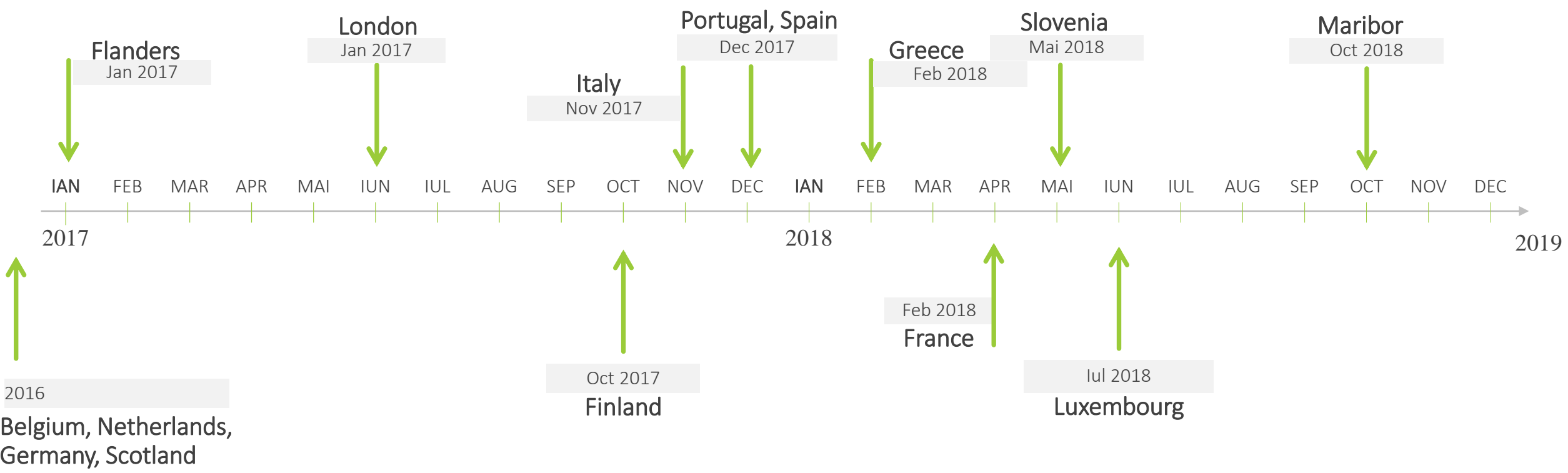
Waste Management (2015)

Novelis (2014)\*\*



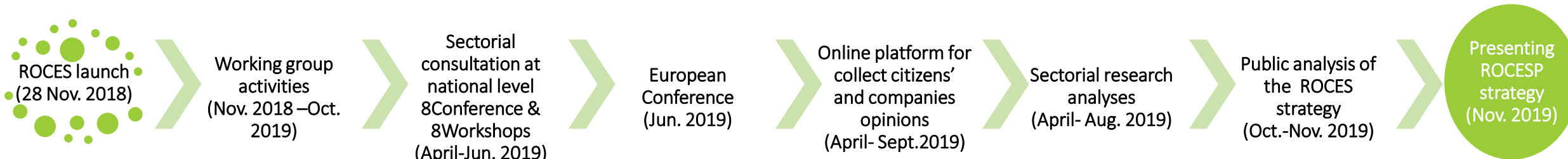
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# A chronology of European systemic circular economy strategies





# Green Economy Partnership for Zero Waste in Romania by 2030



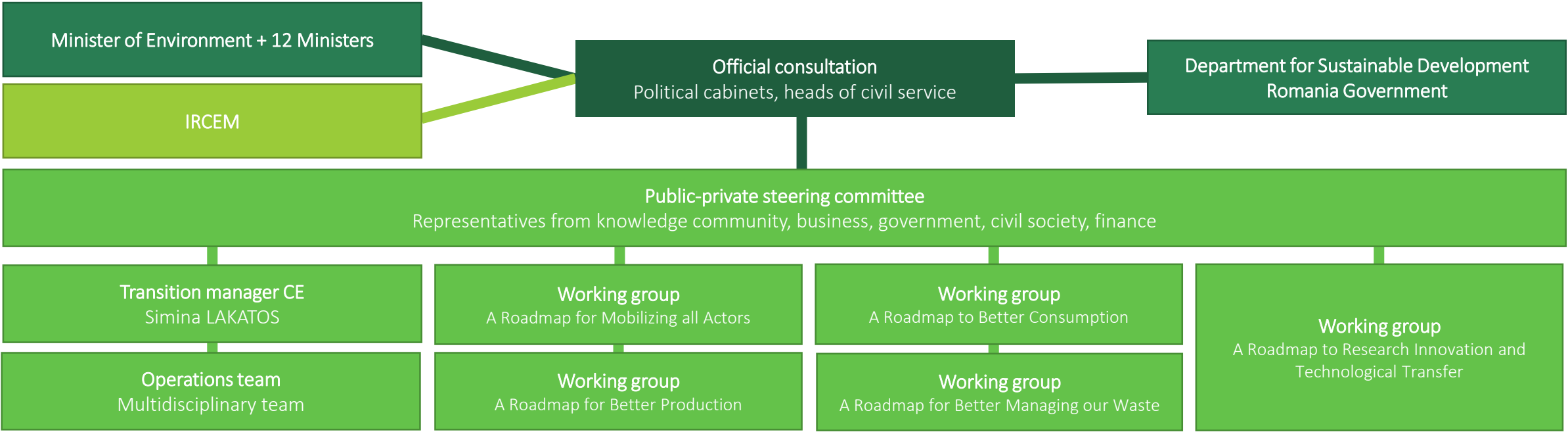
MINISTERUL MEDIULUI

1. Ministry of Regional Development and Public Administration
2. Ministry of Agriculture and Rural Development
3. Ministry of National Education
4. Ministry of Economy
5. Ministry of Energy
6. Ministry of Transport

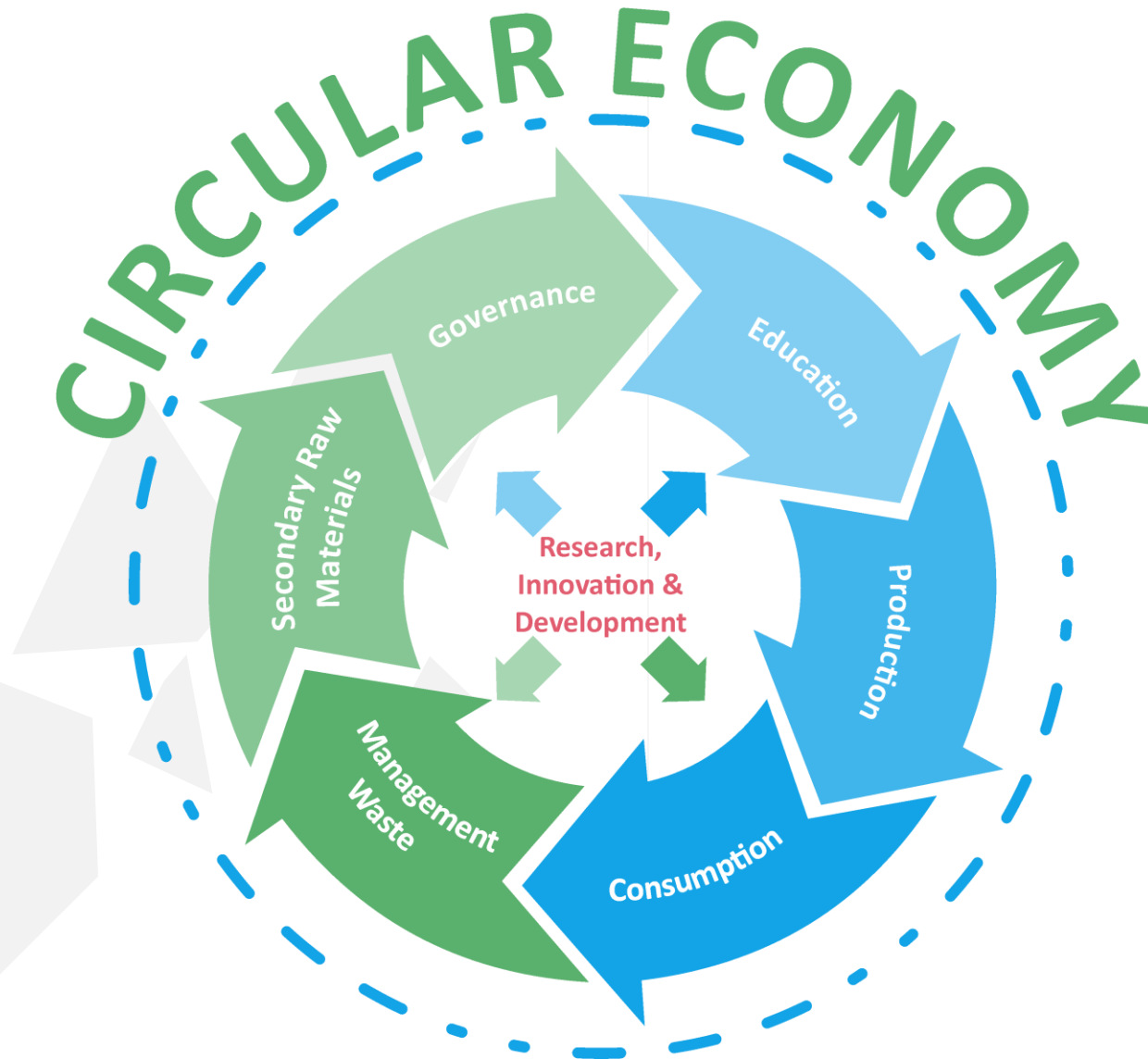
7. Ministry of European Funds
8. Ministry of Business Environment, Commerce and Entrepreneurship
9. Ministry for Health
10. Ministry of Waters and Forests
11. Ministry of Research and Innovation
12. Ministry of Tourism

*Dr. Elena-Simina Lakatos*

# How it works!



# The foundations for the ROCES roadmap

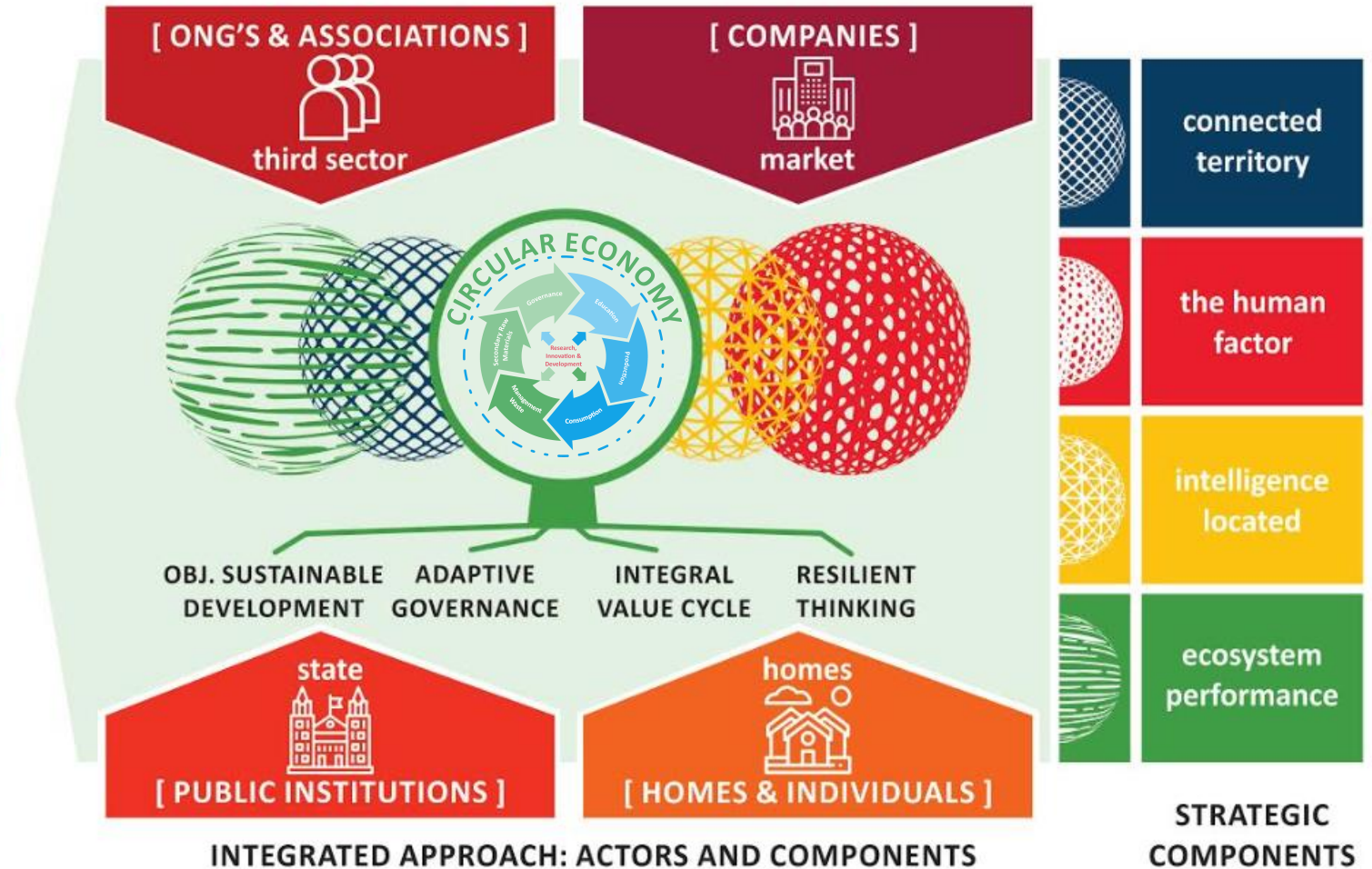


# TRANSITION

2030

## INTEGRATED AND ADAPTIVE MODEL

2018



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# ROCES 2030 STRATEGY



## VISION

Romania to become circular economy leader in Central and South-Eastern Europe by 2030.



## MISION

We aim for Romania to be placed at the **forefront of design** for a more circular economy, combining **ambitious research and thinking** with practicalities.

We want to see a shift so that more **Romanian products** are **designed** with their whole life-cycle in mind: **lengthening product lifetime**, **increase readiness for disassembly and repairs**, **keeping recycling as a last resort**.

We want an increasing number of **companies to redesign their business models** by finding profitable ways to keep hold of valuable products and components: increasing revenues through options like: **Refuse, Rethink, Reduce, Reuse, Repair, Refurbish, Remanufacture, Repurpose, Recycle, Recover and Regenerate**.

This will make a substantial contribution by helping **Romania to join a green economy**, **lowering and controlling GHG emissions for a sustainable future**.

We strongly believe this will also shift the contribution of **local SMEs and cooperating initiatives with MNCs** (multinationals), thus **generating a bigger service market offer** and therefore **relying much more on local innovation** which is a **great way to engage youth generations to work with experienced local workforce**.

*Dr. Elena-Simina Lakatos*



# Objectives

**01**

Generate a model of sustainable development based on the green and circular economy, from understanding specifics of regional environmental potential and using targeted ESG principles for a smart transition, focusing mainly at the agricultural, agro-industrial, services, industrial and construction sectors for mapping out regional specifics.

**02**

Promote a social transformation offering good awareness training to mass population, lifelong learning for labour and workforce and enabling citizen empowerment; starting with the development of new competencies, so that cultural resilience is leveraged to support better reactions to future challenges in the wake of transforming mentalities and changing attitudes (e.g. public perception).

**03**

International recognition for Romania as best practice in research and innovation in circular economy.

**04**

Romania to be the enabler for green and circular economy change through: citizens, social and economic organizations and public administration.

**05**

Design and develop an inclusive process of citizen participation for strategic decision making towards the green and circular economy, which empowers the region by giving its citizens the casting role and putting municipalities and their territories as a stage for playing different scenarios.

# Actions

(1) Establishing the framework and facilitating the creation of circularity regulation instruments;

(2) Stimulate practices based on circular economy principles

(3) Stimulating the implementation of circularity policies at local government level

(4) Development of communication plans and marketing programs for different participants in the circular economy sector at national and international level



# Monitoring indicators until 2030

Reduce greenhouse gas emissions: avoid the emission of 8 million additional tonnes of CO<sub>2</sub> each year thanks to plastic recycling

Aim towards annual growth by 20% of the recycled plastic quantity from packaging waste by 2030.

A 75% reduction in the amount of non-hazardous waste landfilled by 2030, compared to 2010.

Create up to 50.000 additional jobs, including in new professions.

Reduce natural resource use related to Romanian consumption: 30% reduction in resource consumption in relation to GDP between 2010 and 2030.

5% better territorial use by reducing spaces of uncertainty thus addressing urbanization pressure – by better informed and involved citizens, using a new engaging technology and medium-term contingency budgeting



# Conclusions

Attitude for closing the loop!

*If you want to go fast, go alone.  
If you want to go far, go  
together.*

AFRICAN PROVERB


[References](#)




# THANK YOU !



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