



BEYOND EXPERIMENTATION

Europe 's leading role in mainstreaming circular practice

























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Europe 's leading role in mainstreaming circular practice



Systemic innovation: Drivers for a more Circular Economy in Belgium and Europe

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Systemic innovation: Drivers for a more Circular Economy in Belgium and Europe

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Before we begin, let's get to know each other!

⁽i) Start presenting to display the poll results on this slide.



Lionel Fourdrinier Moderator Program leader - CRM Group

Introduction



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Vincent Lepage

Director of the Economic Policy Department at the Public Service of Wallonia



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 Economic analyst (Brussels Economy and Employment)



WINNIE PONCELET

Policy Advisor (VLAIO)



JOLIEN ROEDOLF

 Projectleader Infinitex (Thomas More Hogeschool)



KARLA BASSELIER

• CEO (Fedustria)



CAROLINE VAN DE POPULIERE

 R&D Director (Unilin Panels)

Exemplarity law

The approach of the Brussels Capital Region



Sara Saqe

Economic analyst

Brussels Economy and Employment

Exemplarity: what does it consist of?

- Law adopted by the Brussels Capital Region (BCR) in July 2023
- Goal: Refocus public funding on SMEs that contribute to the economic transition
 - From March 2024 -> Increased aid: up to 45% more or an additional 100.000 euros in financial support for exemplary enterprises
 - As of 2030 -> limit access to financial support instruments exclusively to exemplary enterprises

Exemplarity: how to?

- Two dimensions: social and/or environmental
- Simple criteria for showcasing exemplarity, for example through labels or other evaluations
- Aligned with the EU Green Taxonomy and Corporate Sustainability Reporting Directive

Objectives and vision

- Part of the carbon neutrality vision of 2050 set by the BCR
- Recognize pivotal role of SMEs & understand their challenges
- Inclusivity & accessibility in the circular economy movement

Conclusion and takeaways

 Brussels innovative approach aligns with EU directives and places SMEs at the forefront of economic transition

 The re-orientation of the financial instruments paves the way to a sustainable and resilient future

Living Labs Circular Economy



Winnie Poncelet

Policy Advisor Circular Economy VLAIO

winnie ponceletavlaio be

How can we induce systemic change?

Our mission



Stimulate growth and innovation



Promote Entrepreneurship



Support Cluster work



Create stimulating environmental factors



Encourage internationalization of business activities

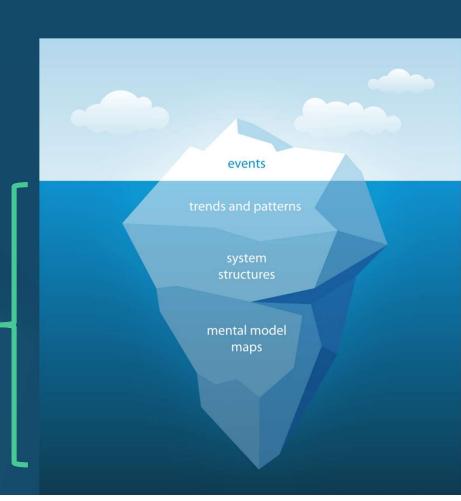
To get systems moving...

New funding instrument: living labs



- trust building
- behavior change
- nev sector star dards
- complex collaborations

•



Living Lab Architecture

Theory of Change: the desired change is central

Reflexive Monitoring: iterate, "learning out loud"

Example: Reuse in Style Lab

Desired change: to prolong the lifespan of garments in the use phase through higher quality, maintenance and repair



Example: Reuse in Style Lab

- Subchallenges:
 - Wide range of user definitions of quality and sustainability and the relationship between them
 - Willingness to wear older clothing determines garment lifespan
 - A longer lifespan → more traces of usage → negative cultural perception
 - Users experience barriers concerning maintenance and repair

Unique features

Flexibility in execution

Wide array of possible partners

Wide array of possible activities

Broad interpretation of innovation

As justified by the ToC

(illusion of) risk minimization

(illusion of) risk minimization Risk management

In practice?

Lessons learned

Living Lab INFINITEX



Jolien Roedolf
Projectleader Infinitex
Thomas More Hogeschool

Living Lab INFINITEX

Aims to extend the lifetime of clothing by scaling up circular businessmodels (repair, resale & rental) in the apparel sector in Flanders

17 partners
7 fashion entrepreneurs
2 social economy partners
3 tech start-ups
1 research organization
1 fashion sector federation

> 11 experiments



Jolien Roedolf
Researcher Thomas More
Hogeschool

Context: challenges Belgian fashion entrepreneurs

Operational and financial challenges

Additional logistical processes

Short term profitability

Search for the right partner

Strategy & knowledge

Choosing strategic focus/FOMO

Theoretical knowledge & expertise

Evidence based approach

Internal support CBM

Marketacceptance

Determine and attract targetgroup

Garantueeing transparency and credibility

Linear market limitations

Linear boundaries of the current system and businessmodel

Limited marketpower in decentralized valuechain

How we (try to) work on system innovation

Operational and financial challenges

Strategy & knowledge

Marketacceptance

Linear market limitations



Gathering practical insights
with experiments and
forming partnerships (where
relevant)



Knowledge sharing inside and outside the consortium (webinars, check-ins, tools,...)



Integrating practice of behaviour change and intervention design



Use date to provide relevant policy recommendations

Eco-design for Sustainable Products Regulation (ESPR) view from Fedustria



Karla Basselier CEO - Fedustria

01

CIRULAR ECONOMY IN THE TEXTILE, WOOD AND FURNITURE INDUSTRY

Circular economy in the textile, wood and furniture industry

- Circular economy high on the agenda of our industry through push and pull effect
- Mainly facilitated via legislation (EU)
- Eco-design important to circularity
- Our industries are innovative and taking the lead Innovation is a key factor





ls developed following the Cradle to Cradle® design framework. While assuring the cook is designed to be reused, recovered and recycled, a vision for a sustainable future

Belgian textile, woodworking, and furniture companies are already at the forefront of innovation



FKL SOFAR



r. 02_Sustain

Onderhoud je SOFAR

Welke SOFAR je ook kiest, al onze hoezen zijn makkelijk afneembaar en wasbaar. Bovendien krijg je via een QR-code die esthetisch verwerkt zit in elk model toegang tot je eigen digitaal gebruikersplatform met onderhoudstips en vlekkengids.



Nr. 03_Adapt

Pas je SOFAR aan

Zowel je levensstijl als interleurwensen veranderen door de jaren heen. SOFAR is eindeloos aanpasbaar en groeit met je mee. Zo kan je jouw sofa op elk moment een nieuwe look-and-feel geven door te spelen met nieuwe hoezen of te kiezen voor een andere opstelling.

Geef te

onderdelen zijn levensd worden in e toch een m op je SOFAI zodat we o met die ma



02

ECO-DESIGN FOR SUSTAINABLE PRODUCTS REGULATION (ESPR) FOR OUR SECTORS

Eco-design for Sustainable Products Regulation (ESPR)

- ESPR in line with Green deal and other European provisions on sustainability
- Textiles, furniture and mattresses are priority flows
- Eco-design is an important lever
- ESPR could be a real opportunity to develop better products, access new markets and facilitate the circular economy, but it is also a **challenge**

Ecodesign for sustainable products regulation (ESPR) – Points of attention (

- Need for accompanying measures and flexibility for SMEs
- Harmonization
- Incentives for innovation but neutrality on materials, technologies and business models
- Freedom and trust to companies how to embark the transition
- Shared responsibility
- Need for clear definitions (eg. 'recycling')

Ecodesign for sustainable products regulation (ESPR) - Points of attention (2)

- When developing delegated acts, consider the high degree of diversity
- Measures applying to one aspect should not negatively impact other areas
- Industry to be consulted throughout the development and decisionmaking process

Circular economy: from ecodesign to systemic innovation

Many ways of moving the circular economy forward

Need for a strategic orientation and inclusion in the company's strategy

CASE





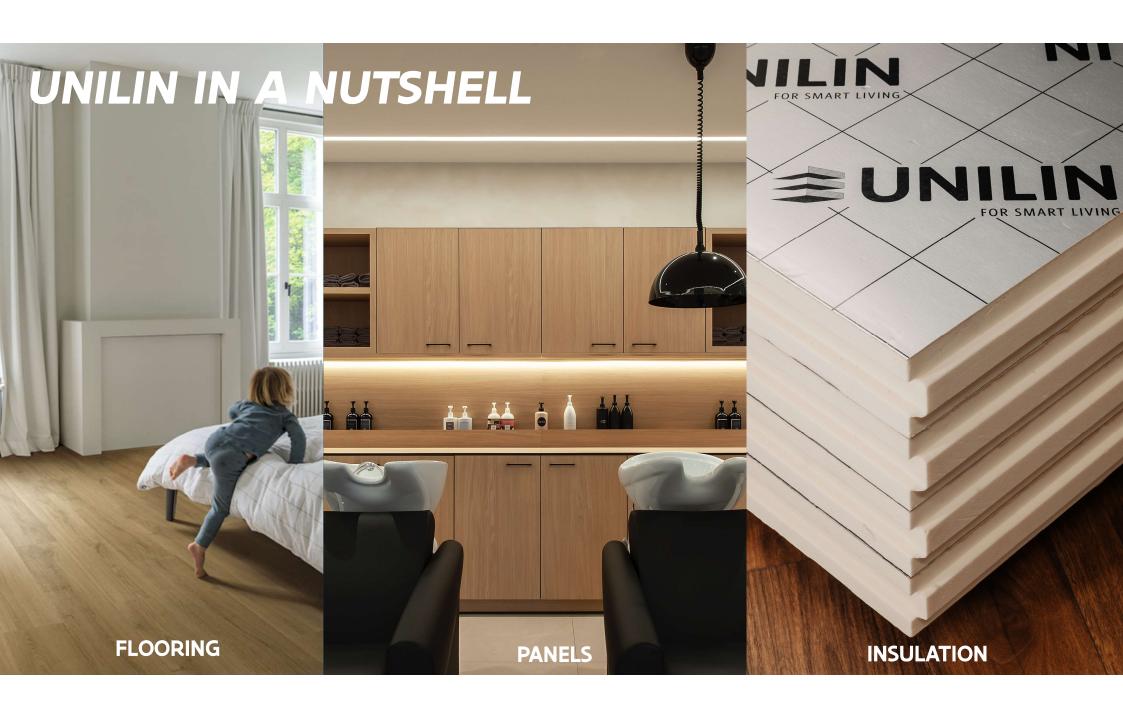
SYSTEMIC INNOVATION

Unilin as changemaker in the circular economy



Caroline Van De Populiere

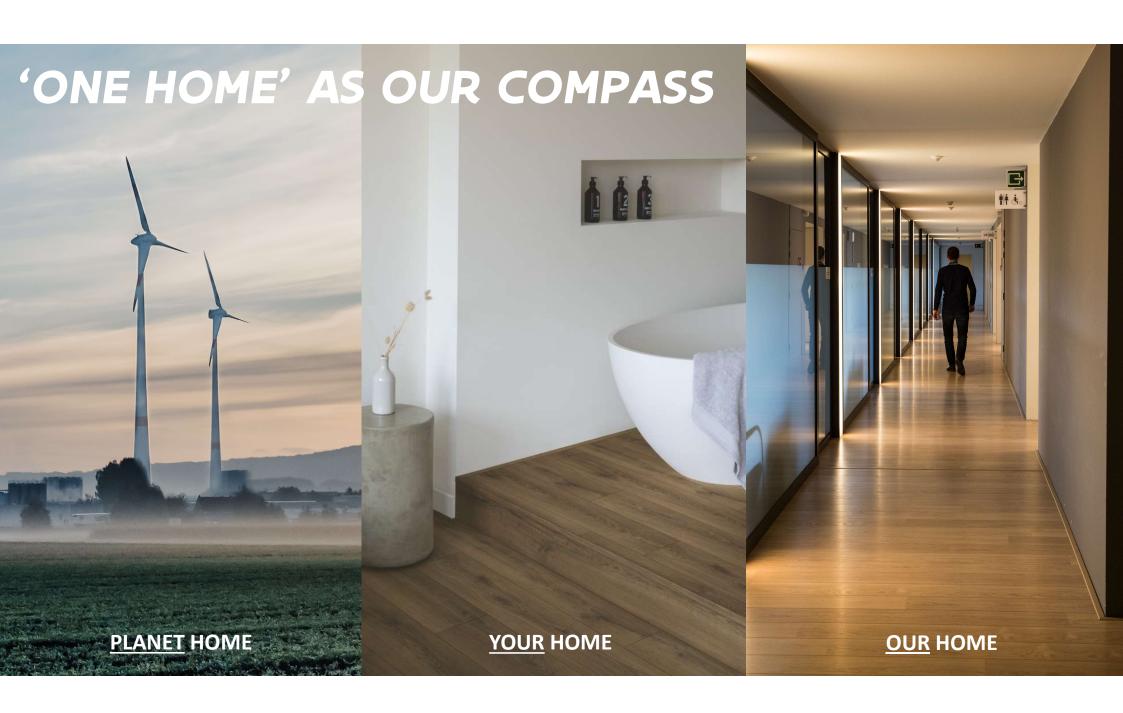
R&D Director - Unilin Panels























AND WE DON'T STOP HERE...

- Limit global warming by 1,5 °C by 2030 (compared to 2020) as validated by the Science Based Targets initiative
 - -42% CO₂ eq. from our operations (scope 1 & 2)
 - -12,3% CO₂ eq. from our raw material sourcing and EOL products (scope 3)
- More renewable and recycled content in our products and packaging
- Improve the recyclability of our products and packaging
- Zero insulation waste to landfill



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Audience Q&A Session

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PHILIPPE LARRUEPolicy Analyst(OECD)



VINCENT LEPAGE

 Director of the Economic Policy Department (Public Service of Wallonia)



MAGDALENA CYMERYS

Policy officer
 (European Commission)



LUCIE BLONDEL

Policy officer(European Commission) Mission-oriented innovation policies: opportunities for circular economy



Philippe Larrue

Policy Analyst – OECD

Science, Technology and Innovation Directorate

Content

- 1. What are mission-oriented innovation policies?
- 2. What is systemic about mission-oriented innovation policies?
- 3. What are the different types of mission-oriented policies?
- 4. How are mission-oriented policies mobilised for achieving circular economies?

What are mission-oriented innovation policies?

A co-ordinated package of initiatives tailored specifically to mobilise science, technology and innovation in order to address a societal challenge

- aimed towards ambitious and concrete goals...
- ... to be met in a defined time-frame
- spans several stages of the innovation cycle from research to demonstration and market launch
- crosses various siloes (disciplines, sectors, policy areas, etc.)
- uses various instruments (supply-side and demand-side; top-down and bottom-up)

What are mission-oriented innovation policies?

MOIPs integrate the whole policy cycle around a shared challenge

Political choices



Strategic orientation

A strategic agenda collectively developed to address a complex societal challenge



Policy coordination

A dedicated structure of governance to coordinate actions around the mission



Policy implementation

A tailor-made policy mix to realise the mission

Societal transformation

Orientation (toward shared goals)

Learning (from implementation)

What is systemic about MOIPs?

- Missions are a platform for collective action to address systemic issues
- The systemic dimension is essential in all three pillars of MOIPs
 - Strategic orientation (strategic agenda)
 - Policy coordination (crossgovernment and cross sectoral governance)
 - Policy implementation (policy mix and portfolio)

Mission strategic agenda: Mission Collectively developed objectives (objectives and targets) and forward-looking vision of the different pathways to address a selected challenge (in the form of a theory of change, intervention logic, roadmap, etc.) Mission structure of governance Set of advisory and coordination bodies and mechanisms that Governance bodies and allow the setting of goals, mechanisms alignment of plans and operational implementation of instruments and management of activities Mission policy mix: tailor-made mix of policy instruments upon (for

instance):

Knowledge and

innovation

Policy

implementation

Policy

Strategic

orientation

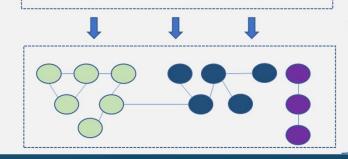
Mission portfolio :

and activities

Set of projects and activities (related to R&D, skills, regulations, market acceptance) managed in a systemic way to achieve the missions through one or several pathways

(supply-push and demand-pull)

mobilised to support relevant projects



Demonstration Skills

and market

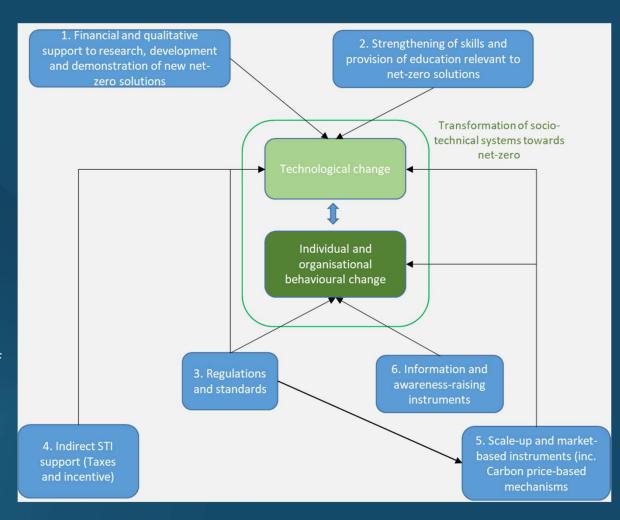
/ solution

Scale-up and

deployment

What is systemic about MOIPs?

- Building a system of innovation around a challenge
 - 1. Starting from a shared understanding of a challenge to be addressed (theory of change)
 - 2. Progressively convene all the public and private actors that are necessary to solve the issue (building upon a first 'coalition of the willing')
 - 3. Coordinate and align plans of the different actors
 - 4. Implement, learn and adapt



What are the different types of Mission-oriented innovation policies?

Type		Design and possible limitations	Selected cases
<u> </u>	Overarching mission-oriented strategic frameworks	Large policy framework aiming to achieve ambitious, high level, national or transnational missions to address systemic challenges **Loose coordination and integration**	 Horizon Europe's missions [EU] Mission-driven Top Sectors policy [NL] Acceleration Strategies [DE]
જ	Challenge-based programmes and schemes	Targeted agency schemes, aims to bring concrete solutions to a challenge • Narrow and technological focus	 Pilot-E [NO] The Future Innovator Prizes [IE] DARPA/ARPA agency programmes [US]
\$	Ecosystem-based mission programmes	Initiatives delegating to ecosystems the development and implementation of strategic agendas to address societal challenges **Description* **Bottom up and not very transformative*	 Strategic Innovation Programmes [SE] Wallonia's Smart Specialisation Strategy [BE]

How are mission-oriented policies mobilised for achieving circular **economies?**Challenge Driven Innovation Initiative

(Sweden)

- The 'Business model innovation for closed-loop furniture flows' aims to introduce a circular economy to furniture, especially office furniture.
- The 'Innovation Platform for Textile Sorting' aims to develop and scale usage of near-infrared red technology to sort textiles to promote high quality recycled products suitable for fiber-to-fiber recycling

Smart Specialisation Strategy of Wallonia (Belgium)

The 'Circular Materials' Strategic Innovation Area brings together innovative activities related to the "circularization" of materials, with a view to reducing resource consumption, increasing regional autonomy and developing new market opportunities

How are mission-oriented policies mobilised for achieving circular economies?

High Tech Strategy 2025 (Germany)

One of the 12 missions was 'Create sustainable circular economies' which aims to work with industry, science and consumers to achieve a decoupling of economic growth from resource consumption, a significant reduction in greenhouse gases, waste and environmental pollution, and less dependence on imported raw material

Target: 30 per cent increase in overall raw material productivity by 2030 compared to 2010, which amounts to 1.5 per cent per annum

Mission-driven top sectors (The Netherlands)

- 'Carbon-neutral industry with reuse of raw materials and products by 2050'
 - Targets: By 2030: 50% fewer primary feedstocks will be used; greenhouse gas emissions from production processes and the waste sector will have been reduced to approximately 36Mt of CO2 equivalent
- 'A sustainable and completely circular economy by 2050, with resource use halved by 2030'

How are mission-oriented policies mobilised for achieving circular economies? INNOmissions (Denmark)

'Mission 4: Circular economy with a focus on plastics and textiles' aims to develop new technologies and manufacturing methods that can ensure plastic waste reduction.

Target: To remove 80pct. of plastic waste from incineration in 2030, which will lead to a reduction of CO₂e from waste incineration of approx. 0.15 million t. CO₂e in 2030

KARPA (Japan)

 'Plasma-based CO2 free waste organic material as a basic raw material' aims to convert waste into a new type of resource that can be marketised and reproduced as a high value-added product

Moonshot Moonshot Research and Development Program (Japan)

Moonshot goal 4: Realization of sustainable resource circulation to recover the global environment by 2050

Science Foundation Ireland's Innovative Prizes (Ireland)

 'Plastics Challenge' aims to develop innovative solutions that enable the sustainable use of plastics in a circular economy.

Take aways

- Mission-oriented innovation policies aims to foster systemic change through collective action to address societal challenges
- Different types of Mission-oriented innovation policies are experimented in different context, including to support circular economies
- These initiatives could help broader the perspective on circular economies away from the support to narrow techno-fixing and firmcentered solutions

Wallonia systemic and innovation approach

Circularity at the crossroad of public innovation strategies

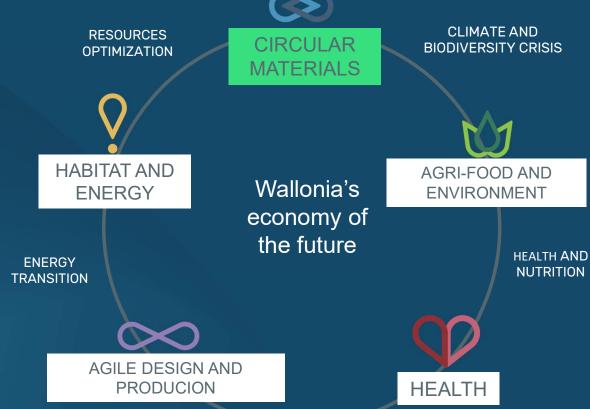


Vincent Lepage
Director of the Economic Policy
Department at the Public Service
of Wallonia

Smart Specialisation Strategy | S3 Wallonia

75 % of the annual walloon budget for research and innovation concentrated on the priority sectors defined in the Walloon S3

2021-2027: **2,7** billion € planned investment



INCLUSIVE SOCIETY



Roadmap 2021-2027

Innovative Ecosystems

Ambitions

In 2030, Wallonia is one of the European and Mondial leader in terms of materials circularity

In 2030, Wallonia is inter-connected to close European region in order to concentrate circular materials

Strategic areas

Circular Business models

Circular distribution, consumption and logistics

Circular production

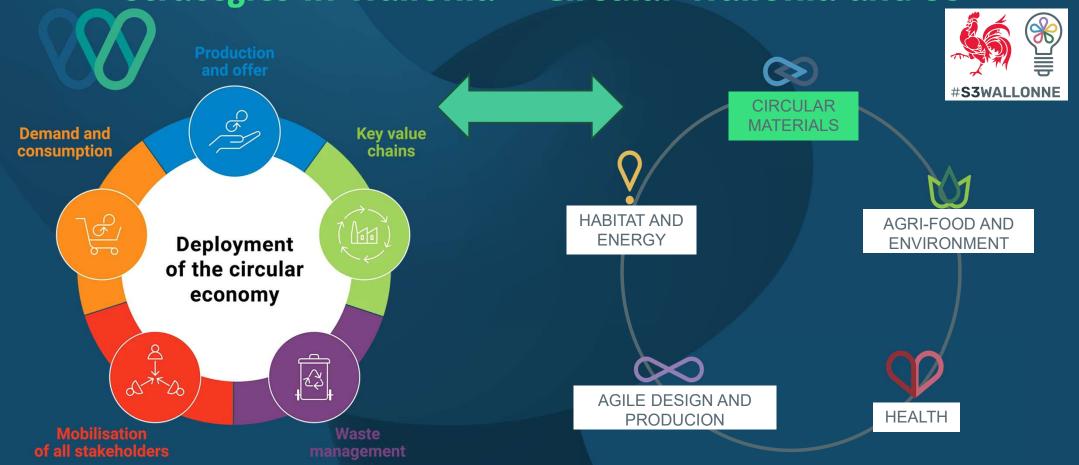
Win4C

Become Europe's "Circular Valley"

Valbowal

Resilient and diversified Walloon forest

Strategic priority on circularity troughout two main strategies in Wallonia – Circular Wallonia and S3



Synergies in practice





Governance

- Shared policy design
- Common coordination of initiatives and actors
- Shared monitoring
- Ecosystems
 visualisation and
 valorisation

In concrete

- University chairs >> Skills
- WIN4C >> Value chains polymer, construction and metallurgy
- Support to circular design for SME's (plastics, metallurgy and battery)
- Common funding schemes
 - Support to innovation projects + PoC
 - Support to industrial investment

Europe

- European CircularEconomy InnovationValley
- Interreg VI Innovation in Circularity
- Support actors for European projects
 - Europe path for batteries

Smart Specialisation Strategy | S3 Wallonia







Circular Wallonia

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INTRODUCTION TO TWO EU FLAGSHIP INITIATIVES

1) Regional Innovation Valleys

2) Circular Cities & Regions Initiative



LUCIE BLONDEI

MAGDALENA CYMERYS

Policy officers, European Commission, DG Research & **Innovation**

ABOUT THE EUROPEAN FRAMEWORK



EU Circular Economy & Innovation Policy Framework



Is a set of policy initiatives with the overarching aim of making the European Union climate neutral by 2050

ightarrow 1 block of the Deal on 'boosting the efficient use of resources by moving to a clean, circular economy'

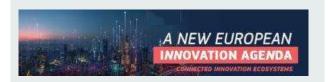
Circular Economy Action Plan

For a cleaner and more competitive Europe

Circular Economy Action Plan
(March 2020)

Includes 35 (legislative & non-legislative)
actions to transition from a linear to a
circular economy

→ 1 chapter on 'making circularity work for people, regions and cities'



New European

Innovation Agenda

Aims to position Europe as a leading player on the global innovation scene (5 flagships and 25 actions)

→ 1 flagship on 'accelerating and strengthening innovation in European Innovation Ecosystems and addressing the innovation divide'

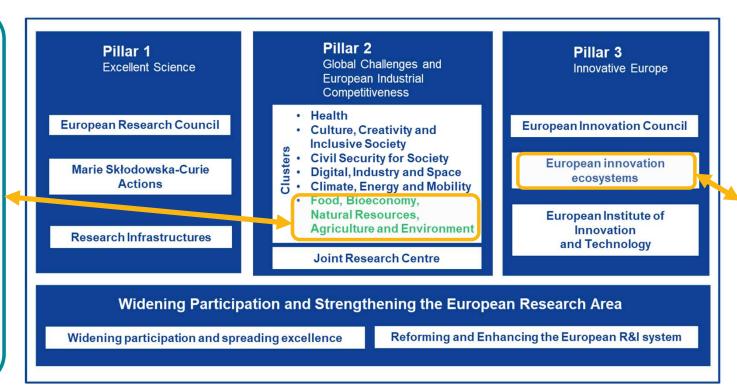
Circular Cities & Regions
Initiative

Regional Innovation Valleys

Funding opportunities for Territorial Systemic Innovation under Horizon Europe (and beyond)

Circular Cities and Regions Initiative

Dedicated calls under Horizon Europe, Pillar 2, cluster 6 (Food, bioeconomy, natural resources...)



Regional Innovation Valleys

Dedicated calls under the European Innovation Ecosystems (EIE) part of Horizon Europe as well as the Interregional Innovation Investments (I3) Instrument (ERDF).

Horizon Europe structure

Two EU initiatives supporting systemic innovation at territorial level

Circular Cities and Regions Initiative

Regional Innovation Valleys

- Aim to accelerate territorial innovation, exploring framework conditions for a profound transformation at region/city level
- Promote a systemic approach, supporting locally-tailored solutions across sectors and value chains
- Provide access to finance through dedicated calls (e.g. under Horizon Europe)
- Stimulate a new dynamic of cooperation between relevant (public/private) stakeholders

Focuses mostly on <u>societal innovation</u> in Cities and Regions

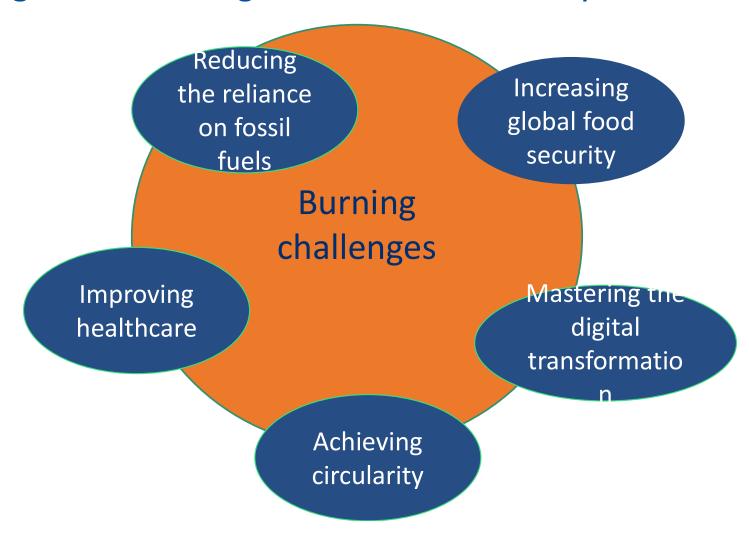
Brings a <u>cross-border, interregional</u> dimension. Also addresses more technological aspects.

ABOUT THE REGIONAL INNOVATION VALLEYS

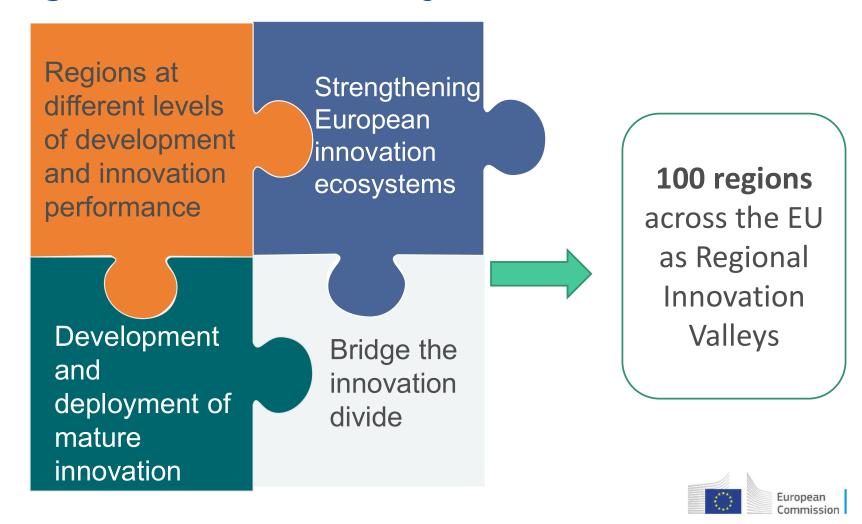


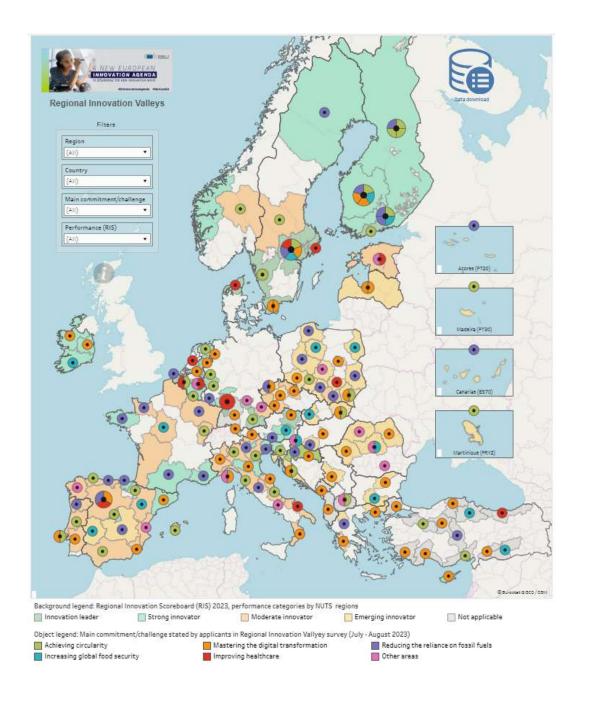
New European Innovation Agenda

Fostering connected regional innovation valleys across the EU



Regional Innovation Valleys framework





ABOUT THE CIRCULAR CITIES AND REGIONS INITIATIVE

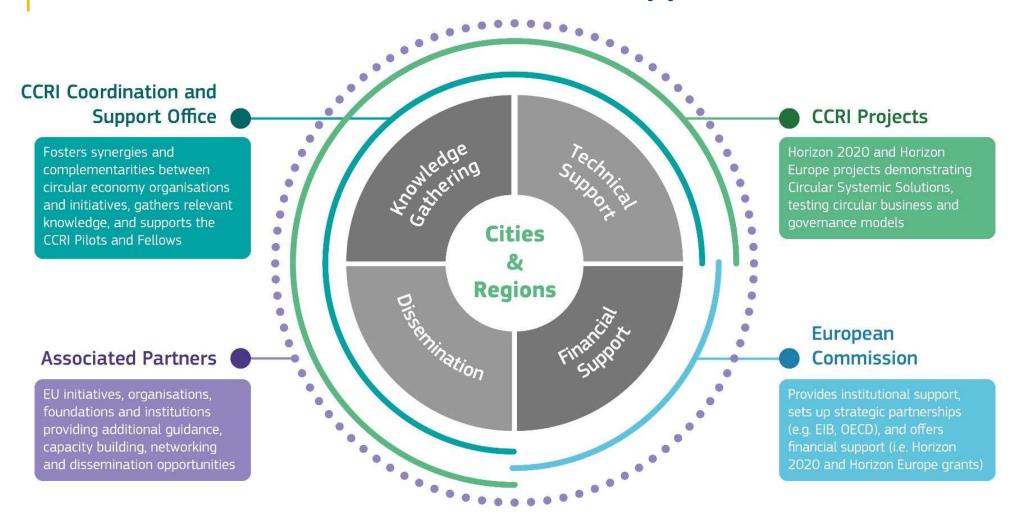


About the Circular Cities and Regions Initiative

- A 1st-of-its-kind collaboration and support scheme of the European Commission, launched by DG Research & Innovation
- Part of the EU Circular Economy Action Plan 2020, and contributing to the policy objectives of the EU Green Deal as well as the EU Bioeconomy Strategy
- Supported by the EU's R&I funding programme (Horizon 2020 and Horizon Europe): more than €250 million in 2020-2024
- Aims to support the implementation of circular systemic solutions in EU cities and regions, as well as the development of new circular business and governance models.



A multi-stakeholder collaboration & support scheme



What's in for EU cities and regions?







- Tailored (one-to-one) support
- Grouped (one-to-many) support (e.g. CCRI workshops, CCRI Thematic Working Groups)
- Informative/capacity-building events (e.g. CCRI Conference, CCRI webinars)
- Networking/matchmaking events
- Support tools and method
- Online website and related resource repository

...and more to come...

- Knowledge Hub
- Mentoring & Peer-to-Peer programmes
- **Communities of Practice**



EXAMPLES OF CCRI PILOT PROJECTS



REGION OF CASTILLA Y LEÓN (Spain)

Championing the transition from chemical to bio-based fertilisers

Establishing a regional nutrient's recovery hub for the bio-based valorisation of agricultural and forestry residues.

Expected outcomes:

- Innovative governance and business model in place, engaging various stakeholders (farmers, forestry sector, technological and industrial sectors, investors).
- Reduced dependency on critical raw materials imports (like phosphorous) thanks to the local bio-based fertilisers production (biomass recycling).
- Increased soil preservation and conservation (including a sustainable nutrient cycle).
- Reinforced local-based economy.



Expected outcomes:

- Revalorisation of abandoned land and buildings in an area with a very strong industrial history.
- 'Frugal use' of local resources & greater stimulation of the local economy
- Increased awareness and capacities on circular economy thanks to dedicated trainings for professionals and a circular hub for industries



For more information

#Euinmyregion #EUinnovates #HorizonEU #CCRIEurope

Regional Innovation Valleys

- New European Innovation Agenda roadmap (europa.eu)
- Interregional Innovation Investments (13) **Instrument**
- European Innovation Ecosystems (europa.eu)
- Regional Innovation Valleys Online Info Session
- Matchmaking Event for the territories interested to become Regional Innovation Valleys (RIVs)

Circular Cities and Regions Initiative



https://circular-cities-and-regions.eu/



helpdesk@circular-cities-and-regions.eu



@EUScienceInnov



EU Science & Innovation





Circular Cities and Regions Initiative (CCRI)

• Inforegio - S3 Community of Practice
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THANK YOU FOR YOUR ATTENTION



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Audience Q&A Session

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What was the most valuable takeaway for you from today's session?

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THANK YOU FOR YOUR ATTENTION!

