



EASME

Executive Agency for Small and Medium-sized Enterprises

EU Action Plan for a circular economy H2020 Examples

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Head of H2020 Eco-innovation Sector

4th ICSSWM Limassol, Cyprus, June 23rd 2016

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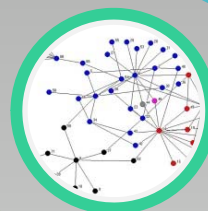


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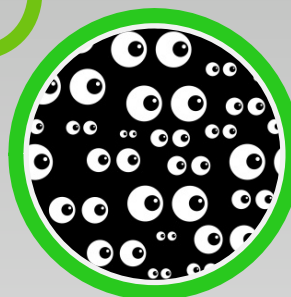
- **EASME**
- Policy Drivers – Waste Legislative proposals
- Policy Implementation – H2020
- Examples of Waste Innovation Actions



Policy feedback



Networking



Monitoring



Evaluations



GAP



EASME

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The EASME manages programmes on behalf of the European Commission, turning EU policies into action.

Fast Track to Innovation (FTI)

COSME the EU programme for the Competitiveness of SMEs

Horizon 2020 Innovation in SMEs actions

€ 7 M+

Horizon 2020 SME Instrument

@H2020SME

Horizon 2020 Energy Efficiency

@H2020EE

EU Sustainable Energy Week (EUSEW)

@euenergyweek

CIP Eco-innovation

LIFE the EU Programme for the Environment and Climate Action

@LIFE_Programme

Horizon 2020 Climate action, resource efficiency and raw materials

@EU_ecoinno

€ 2.7 bn*

Sustainable Industry Low Carbon II (SILC II)

The European Maritime and Fisheries Fund (EMFF)

Intelligent Energy Europe (IEE)

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<http://ec.europa.eu/easme>



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- **Policy Drivers – Waste Legislative Proposals**
- Policy Implementation
- Examples
- Forward Looking

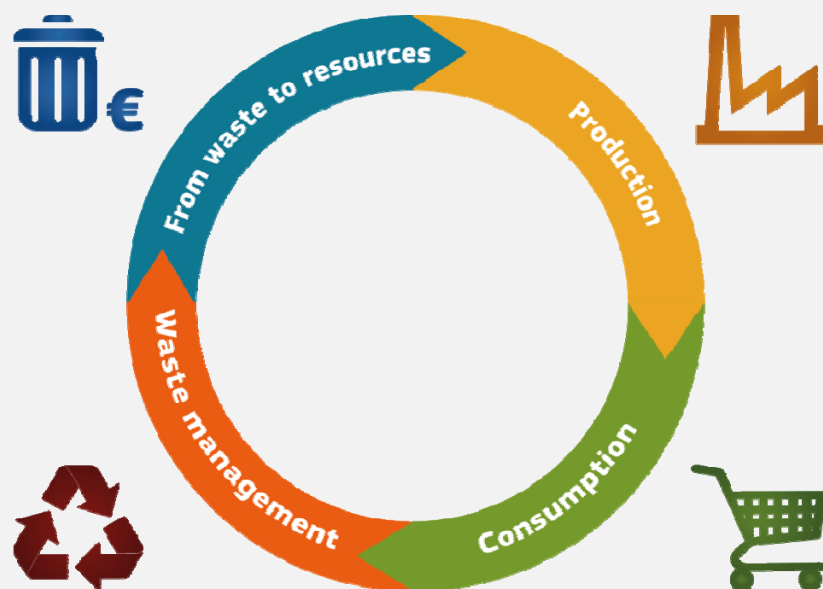


From a Linear Economy...



- **lost value** of materials and products
- **scarcity** of resources and **unstable supply** of raw materials
- **volatile** prices of resources
- **waste** generation
- **environmental degradation & climate change**

...to a Circular Economy to



- maintain the **value** of products, materials and resources in the economy for as long as possible
- alleviate security of **supply** risks to European Industries
- boost the **economy** by up to +7% GDP
- Increase **competitiveness**, creating new business **opportunities**, and introducing **innovative** products and services
- create **jobs** in the EU
- reduce **waste** generation, **GHG emissions** and other environmental impacts

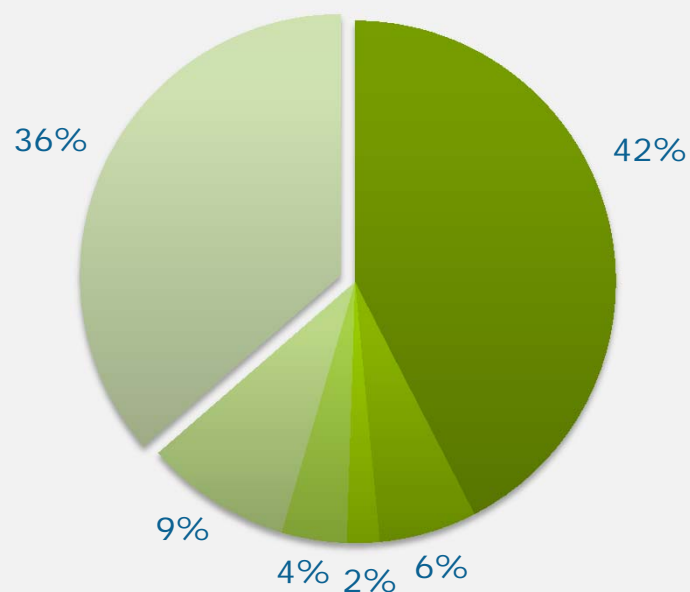
Concrete actions – some examples

- Review of EU waste legislation (align actors' interests in the value chain)
- **Promote eco-design** to include reparability, durability, recyclability
- Independent test program on **planned obsolescence**
- Spread best practices on waste management and resource efficiency in industry and local authorities
- Further promote **Green Public Procurement**
- Develop quality standards for **secondary raw materials**
- Review of EU **fertilisers legislation** incl. to promote organic fertilisers
- Strategy on links between **chemicals, products and waste legislation**
- Minimum requirements for the **reuse of wastewater**
- Make use of available **EU funding**

Priority sectors



Why is action needed?



- Deposit onto or into land
- Land treatment and release into water bodies
- Incineration/disposal
- Incineration/energy recovery
- Backfilling
- Recycling

- low levels of recycling
- high levels of landfilling
- incineration of recyclable waste
- loss of valuable materials
- negative impacts on land, water and climate
- no long-term targets

Other key provisions

- MS to put in place **economic instruments** to promote waste hierarchy + **general requirements for EPR**
- **By-products and end-of-waste status** (conditions unchanged; more active role for MS to apply them)
- Possible **exemption from registration requirement** for companies collecting/transporting non-hazardous waste
- Reinforced **waste prevention measures** (e.g. on food waste + industrial, mining and construction, setting waste prevention targets at national level, etc.)
- MS to ensure **separate collection of bio-waste**
- MS to promote **sorting systems for C&D waste**
- Simplification of **reporting** and ensuring **better data**
- MS to set **electronic registries** on hazardous waste data

Conclusion & Potential gains

- Resource efficiency – Industries spend 40 % costs on raw materials, to be compared to a share of 20 % for labour costs.
- Resource productivity increase 30% by 2030.
- Boost EU GDP by up to 3.9 % by creating new markets and new products and creating value for business.
- Net savings of €600 billion, or 8 % of annual turnover for businesses in the EU,
- Reduction of greenhouse gas emissions by 2-4 %/year
- Eco-industries and eco-innovation employment increase. Green technologies as competitive advantage.



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Innovation & Investment

Innovation

- Horizon 2020 initiative launched on '**Industry 2020 in the Circular Economy**' (EUR 650 million)
- LIFE

Regional Policy

- European Structural and Investment Funds

Investment

- **EFSI**
- new platform for financing Circular Economy with European Investment Bank and national promotional banks

Overcoming barriers

- pilot 'innovation deals' to address potential regulatory obstacles for innovators



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RESYNTEX

**A new circular economy concept:
from textile waste
towards chemical and
textile industries
feedstock**

Coordinator: SOEX Group
GmbH, Germany

EC contribution: 9,1 Meuro

www.resyntex.eu

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BAMB

Buildings as Material Banks: Integrating Materials Passports with Reversible Building Design to Optimise Circular Industrial Value Chains

Coordinator: IBGE, BE

EC contribution: 8,9 Meur

www.bamb2020.eu/



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CABRIS

Implementation of a
Circular economy
Based on Recycled,
reused and recovered
Indium, Silicon and
Silver materials for
photovoltaic and
other applications

Coordinator: CEA, FR

EC contribution: 7,8
Meuro

www.spire2030.eu/cabriss/

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DECISIVE **A DECentralized** **management Scheme** **for Innovative** **Valorization of urban** **biowaste**

Coordinator: IRSTEA,
FR

EC contribution: 7,6
Meur



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Source: <http://www.r-urban-wick.net/>



URBANREC

New approaches for
the valorisation of
URBAN bulky waste
into high added value
RECYCled products

Coordinator:
AIMPLAS, Spain

EC contribution: 8,4
Meur





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WASTE4THINK

Moving towards Life
Cycle Thinking by
integrating Advanced
Waste Management
Systems

Coordinator:
Fundación Deusto,
Spain

EC contribution: 8,8
Meur



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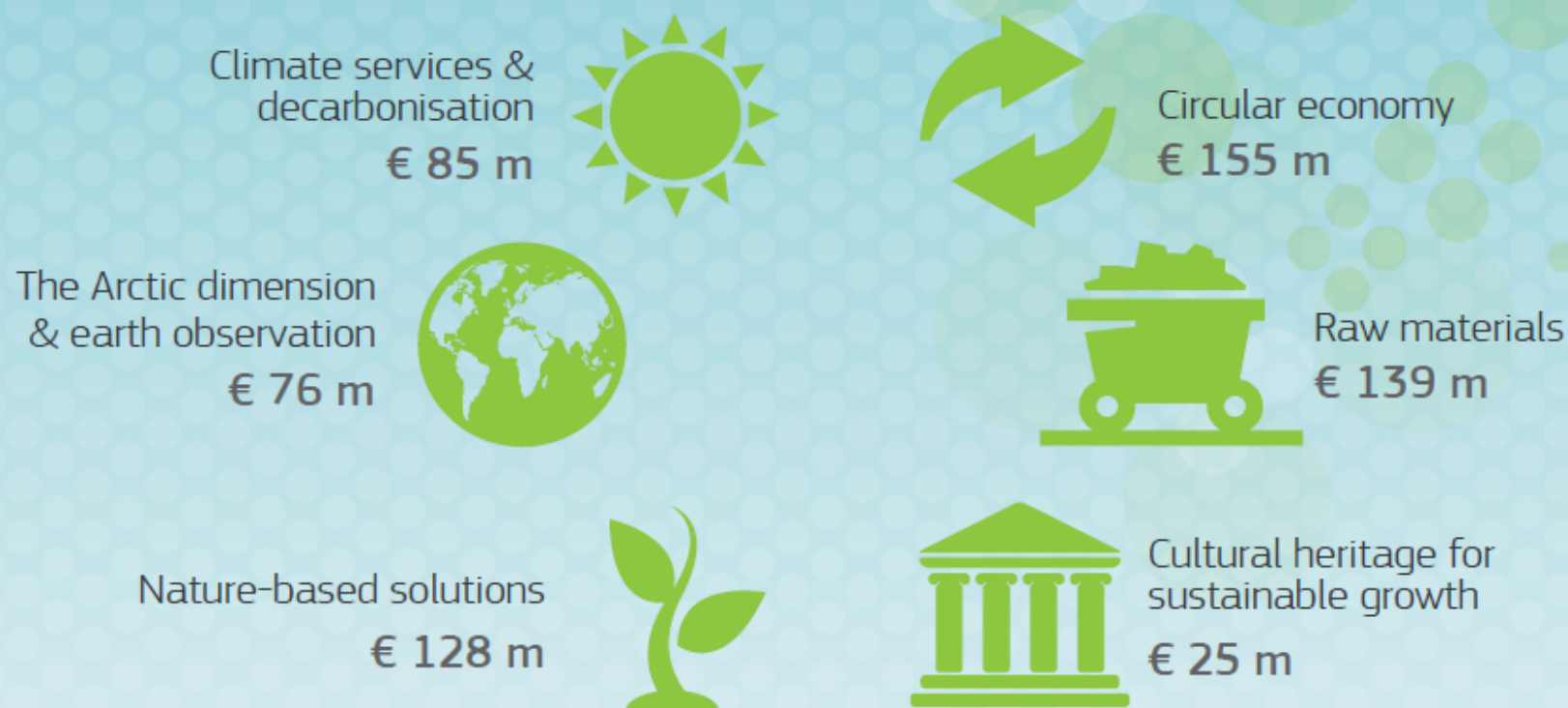
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FUNDING PRIORITIES FOR 2016 AND 2017



Figures include contributions to the following focus areas: Industry 2020 in the Circular Economy; Smart and Sustainable Cities; and Blue Growth call.

More info on Horizon 2020:
ec.europa.eu/programmes/horizon2020

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THANK YOU FOR YOUR ATTENTION

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