



Policy Development

From

Nature Protection

to

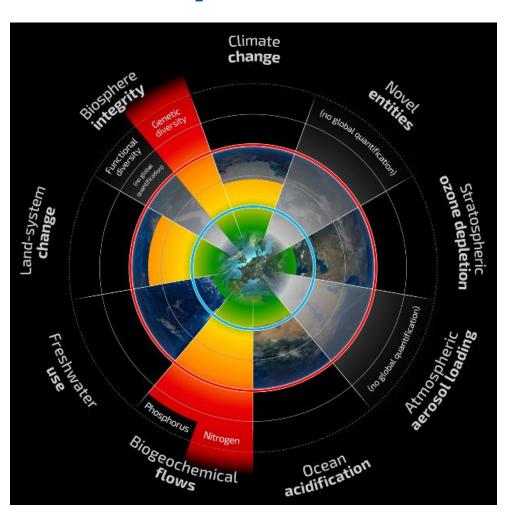
Protection of the Environment

to

Sustainable Development



Planetary Boundaries- a safe operating space for humanity



4 out of 9 crossed:

- climate change
- loss of biosphere integrity
- land-system change
- altered biogeochemical cycles

- Beyond zone of uncertainty (high risk)
- In zone of uncertainty (increasing risk)
- Below boundary (safe)
- Boundary not yet quantified



Potential of resource efficiency

- **✓** Protecting resources
- ✓ Tackling climate change
- **✓ Reducing our environmental footprint**

...while...

- ✓ cutting the use of natural resources up to 28%
- ✓ cutting GHG emissions by around 74%
- ✓increasing economic activity by 1%



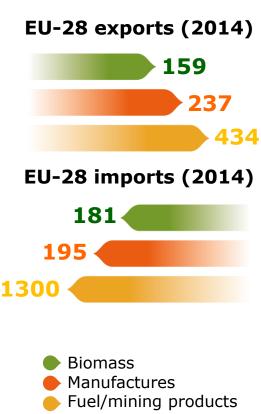
What are the limitations of a Linear Economy?

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



EU imports more materials and natural resources than it exports (ROW)









Therefore from a Linear Economy...





To a Circular Economy





European Commission

























THE GLOBAL GOALS For Sustainable Development















TRANSITION TOWARDS A CIRCULAR ECONOMY

Maintaining value

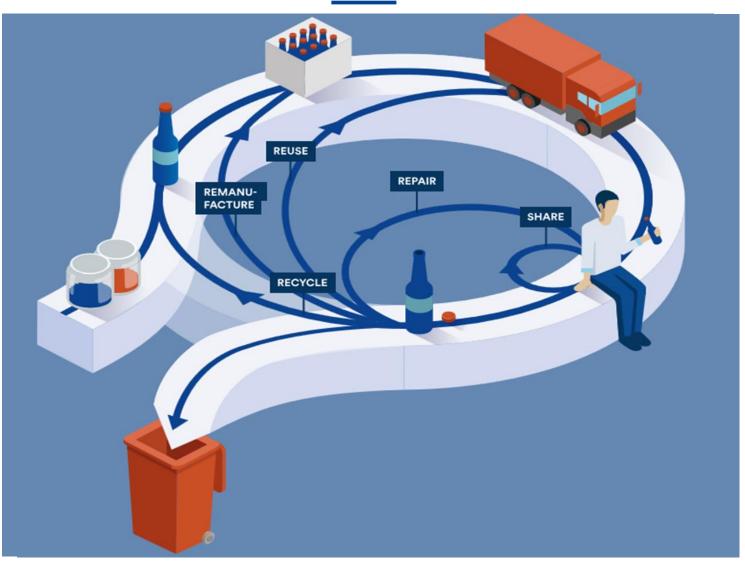
Reducing waste

Bringing economic, social and environmental gains

Boosting competitiveness

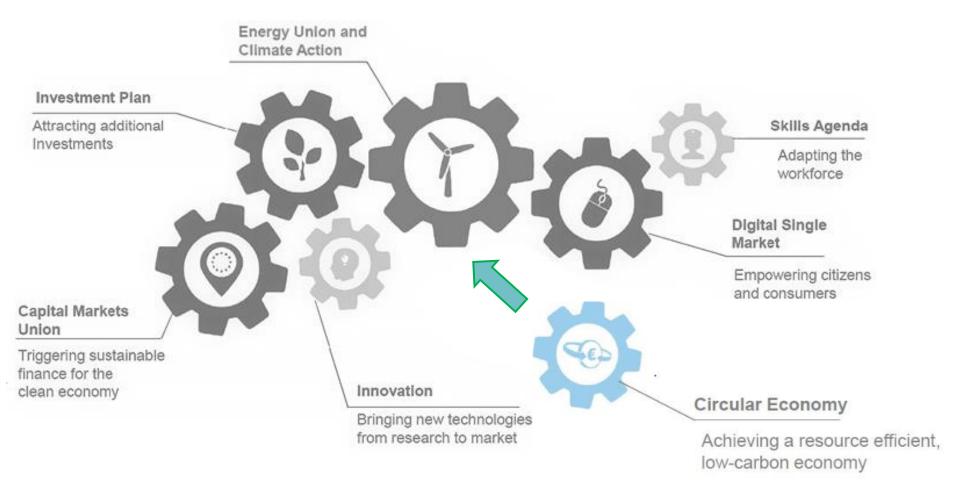
Our vision





Modernising Europe's Economy





The CEAP in a nutshell





Circular Economy Action Plan





| Actions | Timetable |
|---|----------------------------------|
| Production | |
| Emphasis on circular economy aspects in future product requirements under the Eco-design directive. | 2016 onwards |
| Eco-design work plan 2015-2017 and request to European standardisation organisations to develop standards on material efficiency for setting future Eco-design requirements on durability, reparability and recyclability of products. | December 2015 |
| Proposal for an implementing regulation on televisions and displays | End 2015 or beginning 2016 |
| Examine options and actions for a more otherent policy framework of the different strands of work of EU product policy in their contribution to the circular economy | 2018 |
| Include guidance on circular economy into Best Available Techniques reference documents (BREFs) for several industrial sectors | 2016 onwards |
| Guidance and promotion of best practices in the mining waste management plans | 2018 |
| Establishing an open, pam-European network of technological infrastructures for SMEs to integrate advanced manufacturing technologies into their production processes | 2016 |
| Examine how to improve the efficiency and uptake of the EU Eco- Management and Audit Scheme (EMAS) and the pilot programme on environmental technology verification (ETV) | 2017 |
| Develop an improved knowledge base and support to SMEs for the substitution of hazardous substances of very high concern | 2018 |

| Consumption | |
|---|-----------------|
| Better enforcement of existing guarantees on langible products, accompanied by a reflection on improvements (upcoming Commission proposal for online sales of goods, and Fitness Check of consumer legislation) | 2015-2017 |
| Action on felse green claims, including updated guidance on unfair commercial practices | 2016 |
| Analysis of the possibility to propose horizontal requirements on repair information provision in the context of Eco-design | 2018 |
| REFIT of Ecolabel, to be followed by actions to enhance its effectiveness | 2016 |
| Assessment of the possibility of an independent testing programme on planned obsolescence | 2018 |
| Subject to evaluation of the current ongoing plots, explore the possible uses of the Product Environmental Footprint to measure and communicate environmental information | 2016 onwards |
| Action on Green Public Procurement: enhanced integration of circular economy requirements, support to higher uptake including through training schemes, reinforcing its use in Commission procurement and El funds | 2016 onwards |

| Waste management | |
|--|-----------------|
| Revised legislative proposal on weste | Dec 2015 |
| Improved cooperation with Member States for better implementation of EU waste legislation, and combat likit shipment of end of life vehicles | 2015 onwards |
| Stepping up enforcement of revised Waste Shipment regulation | 2016 onwards |
| Promotion of industry-led voluntary certification of treatment facilities for key waste/recyclate streams | 2018 onwards |
| Initiative on waste to energy in the fremework of the Energy Union | 2016 |
| Identification and desemination of good practices in waste collection systems | 2016 onwards |

| Market for secondary raw materials | |
|---|-----------------|
| Development of quality standards for secondary rew meterials (in particular for plastics) | 2016 onwards |
| Proposal for a revised fertilisers regulation | Early 2016 |
| Proposed legislation setting minimum requirements for reused water for inigation and groundwater recharge | 2017 |
| Promotion of safe and oost-effective under reuse, including guidance on the integration of wider reuse in water planning and management, inclusion of best practices in relevant BRETs, and support to innovation (through the European Incusion Partnership and Horson 2000) and investments | 2016-2017 |

| Analysis and policy options to address the interface between chemicals, products and waste legislation, including how to reduce the presence and improve the tracking of chemicals of concern in products | 2017 |
|---|-----------------|
| Measures to facilitate waste shipment across the EU, including electronic data exchange (and possibly other measures) | 2016 onwards |
| Further development of the BU raw materials information system | 2016 onwards |

| Sectorial action | |
|--|-----------------|
| Plastics | |
| Strategy on plastics in the circular economy | 2017 |
| Specific action to reduce marine litter implementing the 2030 Sustainable Development Goals | 2015 onwards |

| Food waste | |
|---|------|
| Development of a common methodology and indicators to measure food waste | 2016 |
| Stakeholders platform to exemine how to achieve SDGs goals on food waste, share best practice and evaluate progress | 2016 |
| Clarify relevant EU legislation related to waste, food and feed in order to facilitate food donation and utilisation of former foodstuffs for animal feed | 2016 |
| Explore options for more effective use and understanding of date marking on food | 2017 |

| Critical raw materials | |
|---|-----------------|
| Report on critical raw materials and the circular economy | 2017 |
| Improve exchange of information between manufacturers and recyclers on electronic products | 2016 onwards |
| European standards for material-efficient recycling of electronic waste, waste betteries and other relevant complex end-of-life products | 2016 onwards |
| Sharing of best practice for the recovery of critical rew materials from mining wester and landfills | 2017 |

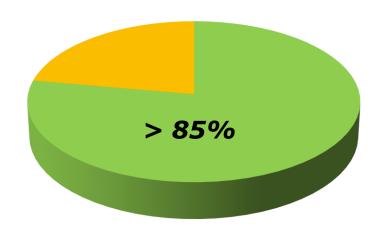
| Construction and demolition | |
|--|-----------------|
| Pre-demolition assessment guidelines for the construction sector | 2017 |
| Voluntary industry-wide recycling protocol for construction and demoltion waste | 2016 |
| Core indicators for the assessment of the lifecycle environmental performance of a building, and incentives for their use | 2017 onwards |

| Biomass and bio-based materials | |
|---|-----------|
| Guidance and dissemination of best practice on the cescading use of biomess and support to innovation in this domain through Horizon 2020 | 2018-2019 |
| Ensuring coherence and synergies with the circular economy when examining the sustainability of bioenergy under the Energy Union | 2016 |
| Assessment of the contribution of the 2012 Bio-economy Strategy to the circular economy and possible review | 2016 |

| Innovation and investments | |
|---|-----------------|
| Initiative "Industry 2020 and the circular economy" under Horizon 2020 | October 2015 |
| Pilot project for "innovation deals" to address possible regulatory obstacles for innovators | 2016 |
| Targeted outreach to encourage applications for funding under EFSI, and support the development of projects and investment platforms relevant to the circular economy | 2016 onwards |
| Targeted outreach and communication activities to easist Member States and regions for the uptake of Cohesion Policy funds for the circular economy | 2016 onwards |
| Support to Member States and regions to strengthen innovation for the circular economy through smart specialisation | 2016 onwards |
| Assessment of the possibity of launching a platform together with the EIB and national banks to support the financing of the circular economy | 2016 |
| Engagement with stakeholders in the implementation of this action plan through existing fora in key sectors | 2016 onwards |
| Support to a range of stakeholders through actions on public-private partnerships, cooperation platforms, support to voluntary business approaches, and exchanges of best practices | 2015 onwards |
| Monitoring | |
| Development of a monitoring framework for the circular economy | 2017 |



54 actions covering the whole cycle



- Actions delivered
- Work started



4 key areas of Action



| Production | |
|--|----------------------------------|
| Emphasis on circular economy aspects in future product requirements under the Eco-design directive. | 2016 onwards |
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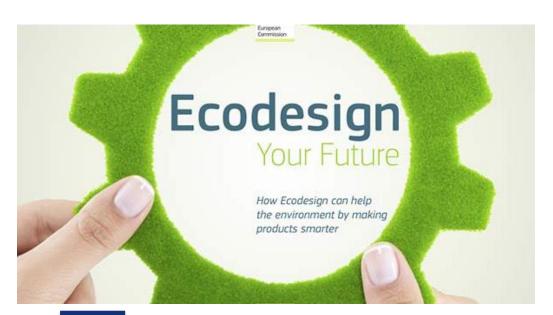
Eco-design Working Plan 2016-2019

Embed circularity in the design of new products and the materials they are made of

Deal with current and future materials which are not circular

Ecodesign Working Plan 2016-2019

- Durability
- Reparability
- Recyclability





BREFs & Circular Economy

- BAT Conclusions for:
 - o non-ferrous metals
 - Common Waste Water and waste Gas Treatment / Management Systems in the Chemical Sector
 - Intensive Rearing of Poultry and Pigs
 - Large Volume Organic Chemicals
 - Large Combustion Plants
- Implementing Decision establishing BAT Conclusions for Waste Treatment voted April 2018

Upcoming: key environmental issues to be addressed in other BREFs









4 key areas of Action



| Consumption | | | | |
|--|-----------------|--|--|--|
| Better enforcement of existing guarantees on tangible products, accompanied by a reflection on improvements (upcoming Commission proposal for online sales of goods, and Fitness Check of consumer legislation) | 2015-2017 | | | |
| Action on false green claims, including updated guidance on unfair commercial practices | 2016 | | | |
| Analysis of the possibility to propose horizontal requirements on repair information provision in the context of Eco-design | 2018 | | | |
| REFIT of Ecolabel, to be followed by actions to enhance its effectiveness | 2016 | | | |
| Assessment of the possibility of an independent testing programme on planned obsolescence | 2018 | | | |
| Subject to evaluation of the current ongoing pilots, explore the possible uses of the Product Environmental Footprint to measure and communicate environmental information | 2016 onwards | | | |
| Action on Green Public Procurement: enhanced integration of circular economy requirements, support to higher uptake including through training schemes, reinforcing its use in Commission procurement and EU funds | 2016 onwards | | | |



Empowering consumers to make thoughtful choices





Helping public authorities to choose sustainable products and services



Empowering consumers



Product Environmental Footprint

20+ pilots

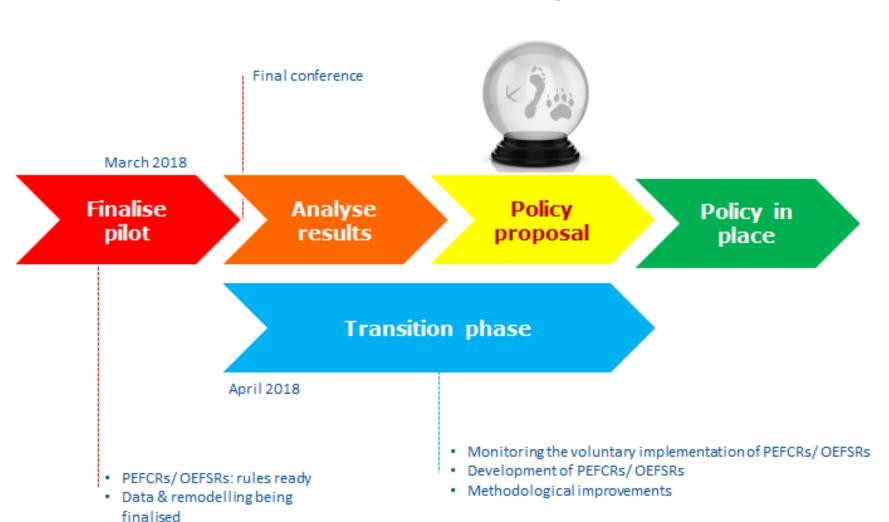
From 27 -> 23 final pilots

| \sim | Batteries and accumulators | * | Leather |
|---|-------------------------------------|--|-------------------|
| - | Decorative paints | 100 | Thermal insulatio |
| | Hot & cold water pipe systems | 1 | Beer |
| | Liquid household detergents | - | Coffee |
| \odot | IT equipment | | Fich |
| | Metal sheets | | FISH |
| | Non-leather shoes | | Dairy products |
| in | Photovoltaic electricity generation | 6 | Feed |
| | Stationary | The same of the sa | Meat |
| 6 | Intermediate paper products | | Pet food |
| T | T-shirts | | Olive oil |
| | Uninterrupted power supplies | 1 | Pasta |
| THE OWNER OF THE OWNER OWNER OF THE OWNER | Retailer sector | - | Wine |
| | Copper sector | | Packed water |

Final Conference organised on 23-25 April 2018



Status & next steps



Protecting consumers



New Deal for Consumers



Proposed 11 April 2018



Objective:

To ensure that all European consumers fully benefit from their rights under Union law



Complementing the EU Circular Economy Action Plan

Stronger enforcement and better opportunities for individual redress against unfair commercial practices



Deterring **misleading** environmental claims or planned obsolescence practices



4 key areas of Action





| Waste management | | | | |
|--|-----------------|--|--|--|
| Revised legislative proposal on waste | Dec 2015 | | | |
| Improved cooperation with Member States for better implementation of EU waste legislation, and combat illicit shipment of end of life vehicles | 2015 onwards | | | |
| Stepping up enforcement of revised Waste Shipment regulation | 2016 onwards | | | |
| Promotion of industry-led voluntary certification of treatment facilities for key waste/recyclate streams | 2018 onwards | | | |
| Initiative on waste to energy in the framework of the Energy Union | 2016 | | | |
| Identification and dissemination of good practices in waste collection systems | 2016 onwards | | | |







The new rules will make the EU a global leader in recycling:

- By 2030, at least 70 % of all packaging waste in each EU country should be recycled
- By 2035, all EU countries should recycle at least 65
 % and landfill less than 10 % of municipal waste



There are also **recycling targets** for specific packaging materials:

• Paper and cardboard: 85 %

• Ferrous metals: 80 %

Aluminium: 60 %

Glass: 75 %Plastic: 55 %Wood: 30 %



A comprehensive approach

- Forward-looking calculation rules
- Landfilling restrictions for separately collected and recyclable waste
- Measures on prevention & encouraging the reuse of packaging
- Minimum requirements for producer responsibility schemes: producers to bear the cost of waste management
- Continuously improving separate collection



4 key areas of Action



| Market for secondary raw materials | | | | |
|--|-----------------|--|--|--|
| Development of quality standards for secondary raw materials (in particular for plastics) | 2016 onwards | | | |
| Proposal for a revised fertilisers regulation | Early 2016 | | | |
| Proposed legislation setting minimum requirements for reused water for irrigation and groundwater recharge | 2017 | | | |
| Promotion of safe and cost-effective water reuse, including guidance on the integration of water reuse in water planning and management, inclusion of best practices in relevant BREFs, and support to innovation (through the European Innovation Partnership and Horizon 2020) and investments | 2016-2017 | | | |
| Analysis and policy options to address the interface between chemicals, products and waste legislation, including how to reduce the presence and improve the tracking of chemicals of concern in products | 2017 | | | |
| Measures to facilitate waste shipment across the EU, including electronic data exchange (and possibly other measures) | 2016 onwards | | | |
| Further development of the EU raw materials information system | 2016 onwards | | | |





- Removing existing barriers to the trade of SRM
- Improving waste management practices
- Guaranteeing high quality standards



- Quality standard for secondary raw materials (ie plastics)ongoing
- $\widehat{\parallel}_{\epsilon}$
- Revised fertilisers regulation- undergoing the legislative process
- **∭**€
- Proposal to set minimum quality requirements for reused water for irrigation- up-coming





Analysis interface between Chemicals, Products and Waste legislation

Obstacles



Insufficient information



Presence of substances of concern



Difficulties in application of waste classification rulesimpact on recycling



Uncertainties about how materials cease to be waste

Examples of proposed actions

Consider REACH restrictions

Take steps to develop a specific decision-making framework

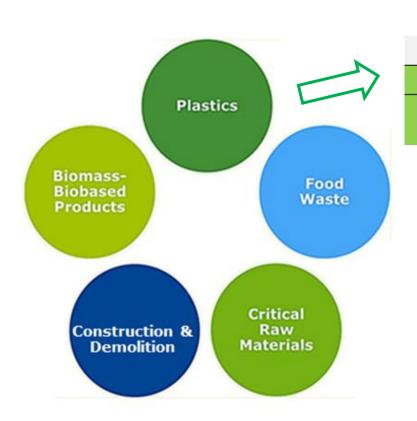
Publish **guidance on** waste classification

Study on Member States' implementationof end-of-waste provisions

Adopted January 2018

5 Key sectors





Plastics

Strategy on plastics in the circular economy

Specific action to reduce marine litter implementing the 2030 Sustainable Development Goals

Plastics Strategy



Improve
the economics
and quality
of plastics
recycling

All plastic packaging will be **reusable or recyclable** (by 2030)



Boost the market for recycled plastics



Actions on single-use plastics and microplastics



Drive investments and innovation towards circular solutions

Strategic Research Innovation Agenda for Plastics (2018)





Support to multilateral initiatives on plastics





EU-wise pledging campaign



Industry has a crucial role to play!



Objective: by 2025 **10 million tonnes** of recycled plastics find their way into new products



Submit **ambitious pledges** at GROW-ENV-RPLASTICS-PLEDGE@ec.europa.eu



Deadline for submissions is 30 June 2018



Action on single-use plastics and fishing gear





Different measures for **each item** taking into account:







28/05



Other key sectors





Development of a **common methodology and indicators** to measure food waste

Stakeholders platform to examine how to achieve SDGs goals on food waste, share best practice and evaluate progress

Clarify relevant EU legislation related to waste, food and feed in order to facilitate food donation and utilisation of former foodstuffs for animal feed

Explore options for more effective use and understanding of date marking on food



Report on critical raw materials and the circular economy

Improve **exchange of information** between manufacturers and recyclers on electronic products

European standards for material-efficient recycling of electronic waste, waste batteries and other relevant complex end-of-life products

Sharing of best practice for the recovery of critical raw materials from mining waste and landfills

Other key sectors





Pre-demolition assessment guidelines for the construction sector

Voluntary industry-wide recycling protocol for construction and demolition waste

Core indicators for the assessment of the lifecycle environmental performance of a building, and incentives for their use



Guidance and dissemination of best practice on the cascading use of biomass and support to innovation in this domain through Horizon 2020

Ensuring coherence and synergies with the circular economy when examining the sustainability of bioenergy under the Energy Union

Assessment of the contribution of the 2012 Bio-economy Strategy to the circular economy and possible review

Innovation and investments





| Innovation and investments | | | | |
|---|-----------------|--|--|--|
| Initiative "Industry 2020 and the circular economy" under Horizon 2020 | October 2015 | | | |
| Pilot project for "innovation deals" to address possible regulatory obstacles for innovators | 2016 | | | |
| Targeted outreach to encourage applications for funding under EFSI, and support the development of projects and investment platforms relevant to the circular economy | 2016 onwards | | | |
| Targeted outreach and communication activities to assist Member States and regions for the uptake of Cohesion Policy funds for the circular economy | 2016 onwards | | | |
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| Assessment of the possibility of launching a platform together with the EIB and national banks to support the financing of the circular economy | 2016 | | | |
| Engagement with stakeholders in the implementation of this action plan through existing fora in key sectors | 2016 onwards | | | |
| Support to a range of stakeholders through actions on public-private partnerships, cooperation platforms, support to voluntary business approaches, and exchanges of best practices | 2015 onwards | | | |





Financing the circular transition



- Horizon 2020 (2018-2020) Focus area
 "Connecting economic and environmental gains the Circular Economy": € 941 million
- European Structural and Investment Funds, implementing Cohesion Policy
- European Fund for Strategic Investments
 (EFSI), focusing more on investments to meet the
 Paris Agreement targets and help the transition to a
 circular and low carbon economy
- LIFE programme



Action Plan on "Financing sustainable growth"



- Reorient capital flows towards a more sustainable economy
- Mainstream sustainability in risk management
- Foster transparency and long-termism

Actions

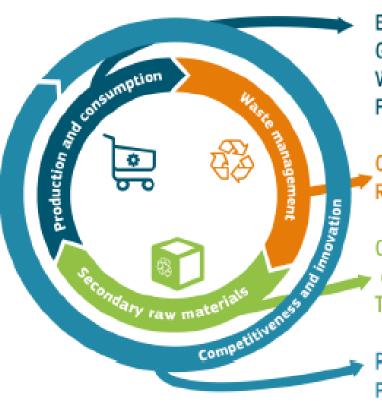
- Establish an EU classification system for sustainable activities
- Create standards and labels for green financial products
- Foster investment in sustainable projects
- Incorporate sustainability in providing investment advice
- Develop sustainability (lowcarbon) benchmarks

- Better integrate sustainability in ratings and market research
- Clarify institutional investors' and asset managers' duties
- Incorporate sustainability in prudential requirements
- Strengthen sustainability disclosure and accounting rulemaking
- Foster sustainable corporate governance and attenuate shorttermism in capital markets



Circular Economy Monitoring Framework

Measuring progress at EU and national level in the transition to a circular economy



EU self-sufficiency in raw materials Green public procurement Waste generation Food waste

Overall recycling rates
Recycling rates for specific waste streams

Contribution of recycled materials to raw materials demand
Trade in recyclable raw materials

Private investments, jobs and gross value added Patents



More to come in 2018 and beyond

- Options for a more coherent Product Policy Framework
- Follow up to the Product/Organisational Environmental Footprint (PEF/OEF)
- ETV: Staff Working Document with conclusions by end 2018



A long term commitment





Jyrki Katainen 🔮 @jyrkikatainen · 18 mag

I believe that #CircularEconomy is one of the biggest global megatrends. You can compare it e.g. to digitalisation & globalisation. The more we can create new business models and recycle raw materials, the more added value stays in Europe.



Retweeted 16 times



Frans Timmermans O @TimmermansEU - Jun 15

We need to mainstream the #CircularEconomy in everything we do - energy, internal market, infrastructure, #EFSI, structural funds...

→ Circular Economy 2.0



Stakeholders' engagement



#CEstakeholderEU

European Circular Economy Stakeholder Platform

A joint initiative by the European Commission and the European Economic and Social Committee



Home Good Practices

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Dialogue

Contribute!

News & Events

About

- Advancing the circular economy concept on the ground
- Strengthening cooperation among stakeholders' networks



Coordination Group:

representatives of networks of businesses, civil society and local, regional and national public authorities



<u>Submit</u> your own good practices, knowledge, strategies and voluntary commitments!

Link to website: http://circulareconomy.europa.eu/platform/

