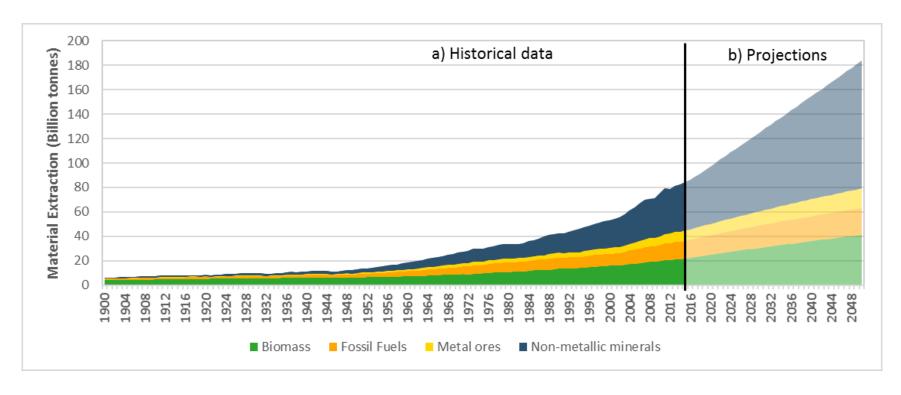


### **World Materials Forum**

The Future of Materials: Closing the Loop Smarter, Less and Longer Use

Daniel Calleja Crespo
Director General for Environment
Nancy, France
28 June 2018

## Megatrends and Resource Challenges



Population growth:

Rising consumption levels:

Urbanisation:

9.5 bn by 2050

50 % increase metal

extraction

2011-2013 China consumed more

cement than US in 20th century

50% cities needed, not

yet built



# We are going beyond the planetary boundaries



• If we do not change the way we produce and consume, one planet will not be enough





#### **Paris Agreement: decarbonisation**

### **UN Sustainability Agenda: Responsible Consumption and Production**















**Economy** 

































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 guidence 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, pan-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 piot programme on environmental technology verification (ETV)	2017
Develop an improved knowledge base and support to SMEs for the substitution of hezardous substances of very high concern	2018

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 outent 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 EU 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 ilict 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

Market for secondary raw materials	
Development of quality standards for secondary rew materials (in particular for plastics)	2016 onwards
Proposal for a revised fertilisers regulation	Early 2016
Proposed legislation setting minimum requirements for reused water for impation 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

Sectorial action	
Plastics	
Strategy on plastics in the circular economy	2017
Specific action to reduce marine ltter 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 examine how to achieve SDGs goals on food waste, share best practice and evaluate progress	2018
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 batteries and other relevant complex end-of-life products	2016 onwards
Sharing of best practice for the recovery of critical raw materials from mining waste, 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 Stretegy 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 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
Monitoring	
Development of a monitoring framework for the circular economy	2017

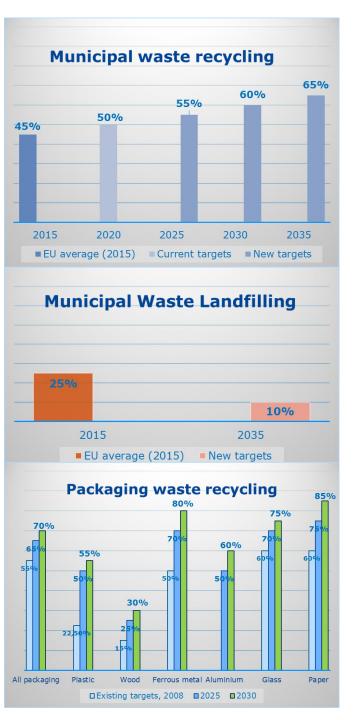
# The Circular Economy Action Plan 2015

- **Sustainable Production**
- Sustainable Consumption
- Waste Management
- **Secondary Raw Materials**
- Green Public Procurement
- Sectors:
  - Plastics
  - Food
  - Construction
  - Biomass
  - Critical Raw Materials
- Financing

# 85% actions delivered







# The New Waste Legislation

- The EU leading region in the world in turning waste into resources
- 65% recycling and 10% landfilling of municipal waste by 2035
- 70% recycling of packaging waste by 2030
- Phasing out landfilling of all recoverable waste
- Waste Prevention
- Extended Producer Responsibility
- Economic instruments
- Future-oriented agenda



Economics & quality of plastics recycling



Investment & innovation in the circularity of plastics European Strategy for Plastics in the Circular Economy

Plastic waste & littering

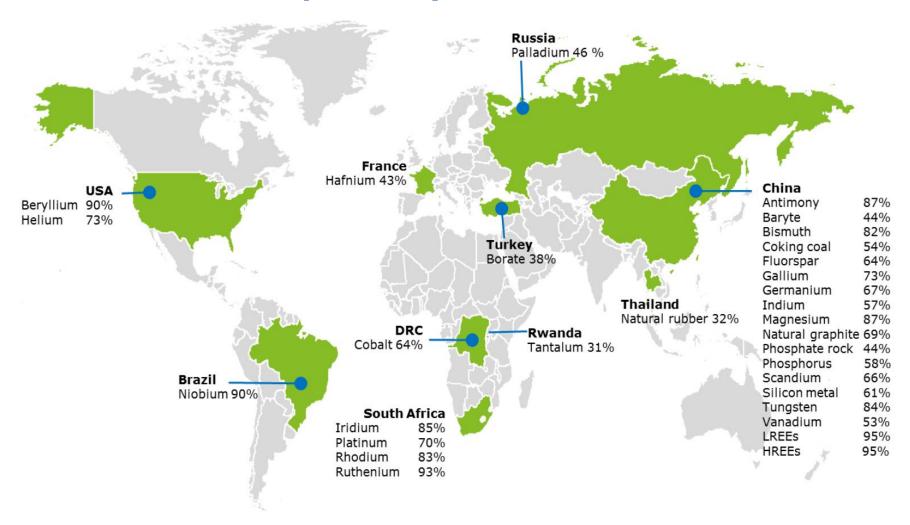
**Global** action

By 2030 all plastic packaging should be reusable or recyclable





#### Increased dependency on critical raw materials



Contribution of primary global suppliers of critical raw materials, average from 2010-2014 Report on Critical Raw Materials and the Circular Economy, SWD (2018) 36 final





Information about substances of concern in products and waste



Classifications of substances, mixtures and waste.

The Interface:
Chemicals,
Products
and
Waste

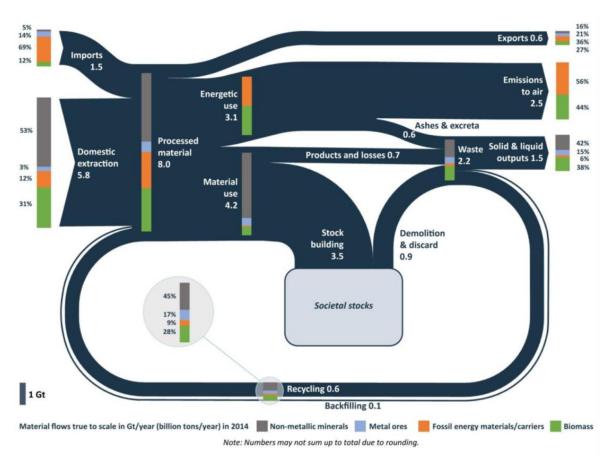
Dealing with substances of concern in recycled materials & articles

Application of End of Waste criteria





## Only a minor part of the materials used flow back into the economy



Material flows in the economy (EU-28, 2014)
Communication on a monitoring framework for the circular economy,
COM(2018) 29 final





### https://circulareconomy.europa.eu/platform/

#### #CEstakeholderEU

#### **European Circular Economy Stakeholder Platform**

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



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Strategies

Knowledge

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Welcome to the European Circular Economy Stakeholder Platform. Your Platform to exchange and interact, and make circular economy happen faster to the benefit of all.

What you see here today is just the beginning. Check here to learn more about the whole scope of this project and what are the plans to make this website a true 'virtual meeting place' for CE stakeholders across Europe.

Conference 2018 for the definitive programmes, wrap up videos, pictures, recordings, speeches and presentations, click here

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#### Latest news and events

Circular Cities

26 Sep 2018



Cities can be key players in rolling out circular models, reducing the use of resources and raw materials.

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Conference Workshop

#### #CEstakeholderEU



Ladeja Godina Košir

Well done

@circleeconomy @friedlh

and the team!

Encouraging step for all

#circulareconomy

changemakers.

@CircularChange

@CircularHotspot

#CEstakeholderEU

twitter.com/GuidoBraam/

vesterday













« It is through science that we prove ... But through intuition that we discover »

C'est avec la logique que nous prouvons et avec l'intuition que nous trouvons.

Henri Poincaré (1854—1912)



