



# The bioeconomy in EU's new growth strategy “European Green Deal”

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# Important initiatives for the Bioeconomy

2015

- **Sustainable Development Goals**

2018

- Updated Bioeconomy Strategy

2019

- European Green Deal

2020

- Circular Economy Action Plan

2020

- Farm to Fork Strategy

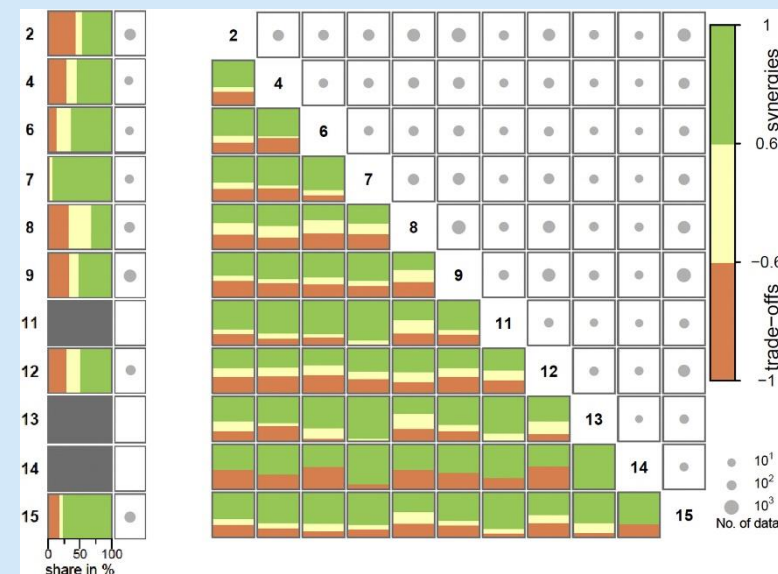
2020

- Biodiversity Strategy

## How food connects all the SDGs - Stockholm Resilience Centre



## Synergies between SDGs and Bioeconomy dominate over trade-offs



T. Ronzon, A.I. Sanjuán  
Friends or foes? A compatibility assessment of  
bioeconomy-related Sustainable Development Goals for  
European policy coherence  
J. Clean. Prod., 254 (2020), p. 119832.

# Updated Bioeconomy Strategy

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- Sustainable Development Goals

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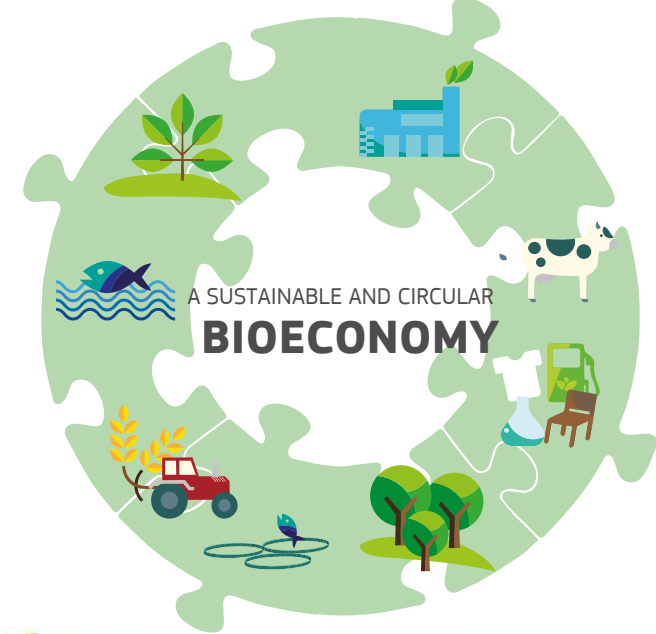
- Circular Economy Action Plan

2020

- Farm to Fork Strategy

2020

- Biodiversity Strategy



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## STRENGTHEN AND SCALE-UP THE BIO-BASED SECTORS, UNLOCK INVESTMENTS AND MARKETS



Mobilise stakeholders in **development and deployment of sustainable bio-based solutions**



Launch the **EUR 100 million Circular Bioeconomy Thematic Investment Platform**



Analyse enablers and bottlenecks for the deployment of **bio-based innovations**



Promote and develop **standards, labels and market uptake of bio-based products**



Facilitate the development of **new sustainable biorefineries**



Develop new **biodegradable products**, including bio-based plastic substitutes

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## DEPLOY LOCAL BIOECONOMIES RAPIDLY ACROSS EUROPE



**Launch a Strategic Deployment Agenda** for sustainable food and farming systems, forestry and bio-based products



**Launch pilot actions for the development of bioeconomies** in rural, coastal and urban areas



**Support regions and Member States** to develop Bioeconomy Strategies



**Promote education, training and skills** across the bioeconomy

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## UNDERSTAND THE ECOLOGICAL BOUNDARIES OF THE BIOECONOMY



**Enhance knowledge** on biodiversity and ecosystems



**Monitor progress** towards a sustainable bioeconomy



**Promote good practices** to operate the bioeconomy within safe ecological limits



**Enhance the benefits** of biodiversity in primary production

**biomonitor**

**Knowledge Centre for Bioeconomy**



# European Green Deal



EU Industrial  
strategy

EU Circular Economy  
Action Plan

EU Biodiversity  
Strategy for 2030

EU Farm to Fork  
Strategy

# EU Industrial Strategy

## Circular Economy Action Plan

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- **Circular Economy Action Plan**

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- Farm to Fork Strategy

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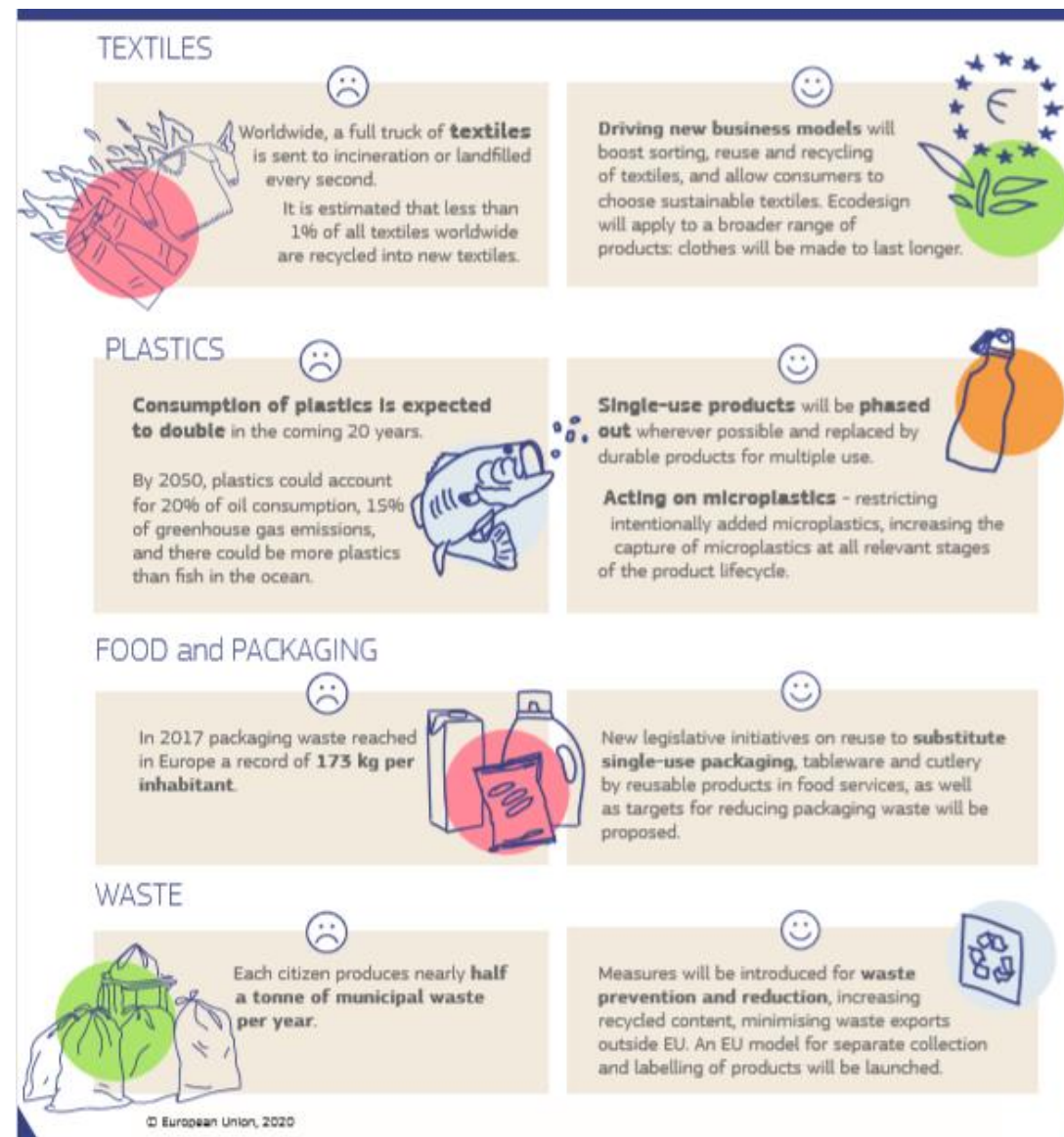
- Biodiversity Strategy

*“The next era of industry will be one where the physical, digital and biological worlds are coming together.” (EU Industrial Strategy)*

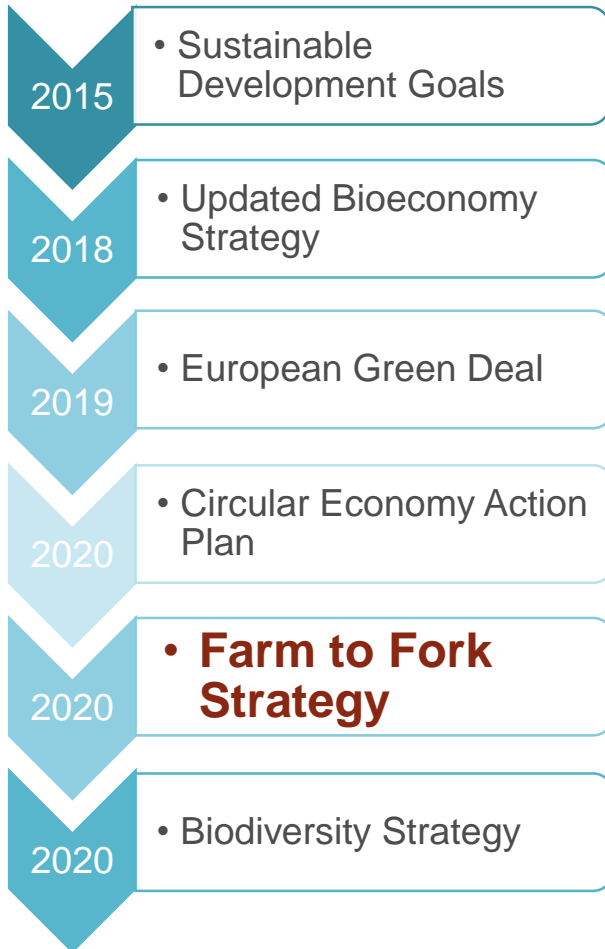
### Circular Economy Action Plan

The European Green Deal

*“The Commission will aim at ensuring the sustainability of renewable bio-based materials, including through actions following the Bioeconomy Strategy and Action Plan.”*



# Farm to Fork Strategy



## 2030 Targets for sustainable food production

### PESTICIDES



Reduce the overall use and risk of chemical and hazardous pesticides

### NUTRIENT LOSSES



Reduce nutrient losses by 50% whilst retaining soil fertility, resulting in 20% less fertilisers

### ANTIMICROBIALS



Reduce sales of antimicrobials for farmed animals and aquaculture

### ORGANIC FARMING



Increase the percentage of organically farmed land in the EU

#EUFarm2Fork

#EUGreenDeal



# Farm to Fork Strategy

## Making the transition happen: informed choices and efficiency gains

- The creation of a healthy food environment which makes the healthy and sustainable choice the easy choice.



It is estimated that in the EU in 2017 over **950,000** deaths were attributable to unhealthy diets (one out of five).



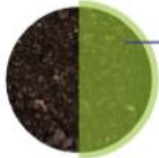
A healthy and plant based diet reduces the risk of life threatening diseases and the environmental impact of our food system.

- Food labelling to empower consumers to choose healthy and sustainable diets



The Commission will propose mandatory harmonised front-of-pack nutrition labelling and develop a **sustainable food labelling framework** that covers the nutritional, climate, environmental and social aspects of food products.

- Stepping up the fight against food waste



**Halving per capita food waste** at retail and consumer levels by 2030.

The Commission will propose legally binding **targets** to reduce food waste across the EU by 2023.

- Research and innovation

**EUR 10 billion under Horizon Europe to be invested in R&I related to food, bioeconomy, natural resources, agriculture, fisheries, aquaculture and environment. Knowledge transfer will be essential.** The CAP's Farm advisory services and Farm sustainability data network will be instrumental in assisting farmers in the transition.

- Promoting the Global transition

Making European food famous for its sustainability can add a competitive advantage and open new business opportunities for European farmers.

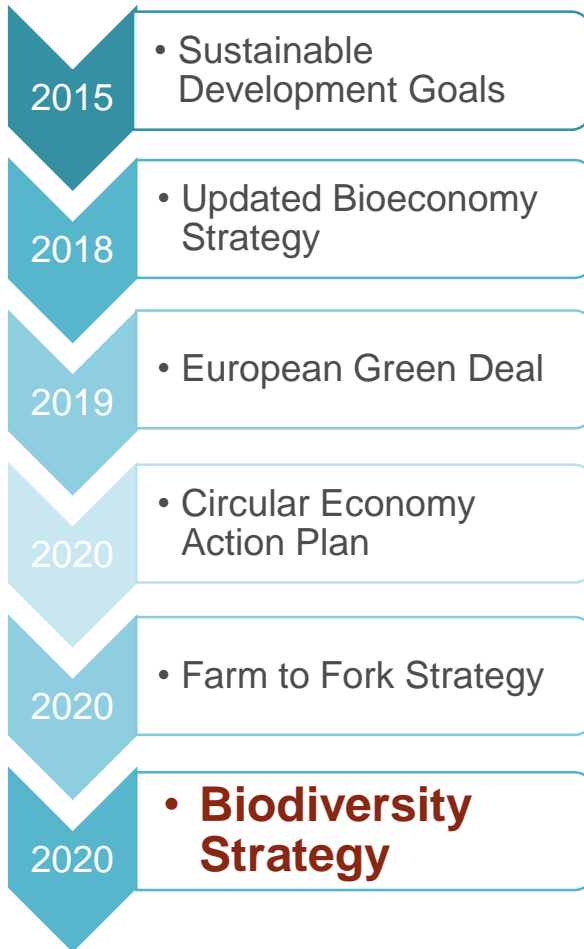
The EU will collaborate with third countries and international actors to support a global move towards sustainable food systems. **A sustainability food labelling framework will facilitate**



“The **circular bio-based economy** is still a largely **untapped potential for farmers** and their cooperatives. For example, **advanced bio-refineries** that produce bio-fertilisers, protein feed, bioenergy, and bio-chemicals offer opportunities for the transition to a climate-neutral European economy and the creation of **new jobs in primary production.**”

“The deployment of a **circular and sustainable EU Bioeconomy provides business opportunities**, for instance linked to making **use of food waste.**”

# Biodiversity Strategy



The screenshot shows the top of the European Commission's Environment website. It features the European Commission logo and the word 'ENVIRONMENT' in large blue letters. Below this is a blue navigation bar with the text 'European Commission > Environment > Nature and biodiversity'. Underneath is a green navigation bar with links: Home, About us, Policies, Funding, Legal compliance, and News & outreach. On the left is a dark blue sidebar with a list of topics: Nature and biodiversity, Biodiversity Strategy, Nature and biodiversity law, Species protection, Natura 2000, Green infrastructure, and Knowledge and data. The main content area has the title 'EU Biodiversity Strategy for 2030' in green. The text below explains that the European Commission has adopted a new strategy and action plan to protect nature and reverse ecosystem degradation by 2030. It mentions the goal of putting Europe's biodiversity on a path to recovery and the focus on protecting wildlife and fighting illegal trade in the post-COVID context. It also states that the strategy is a core part of the European Green Deal.

## EU Biodiversity Strategy for 2030

The European Commission has adopted the new [EU Biodiversity Strategy for 2030 and an associated Action Plan \(annex\)](#) - a comprehensive, ambitious, long-term plan for protecting nature and reversing the degradation of ecosystems.

It aims to put Europe's biodiversity on a path to recovery by 2030 with benefits for people, the climate and the planet. It is also the proposal for the EU contribution to the upcoming international negotiations on the global post-2020 biodiversity framework.

In the post-COVID context, the Biodiversity Strategy aims to build our societies' resilience to future threats such as climate **change** impacts, forest fires, food insecurity or disease outbreaks, including by **protecting** wildlife and **fighting** illegal wildlife trade.

A core part of the [European Green Deal](#), the Biodiversity Strategy will also support a green recovery following the pandemic.

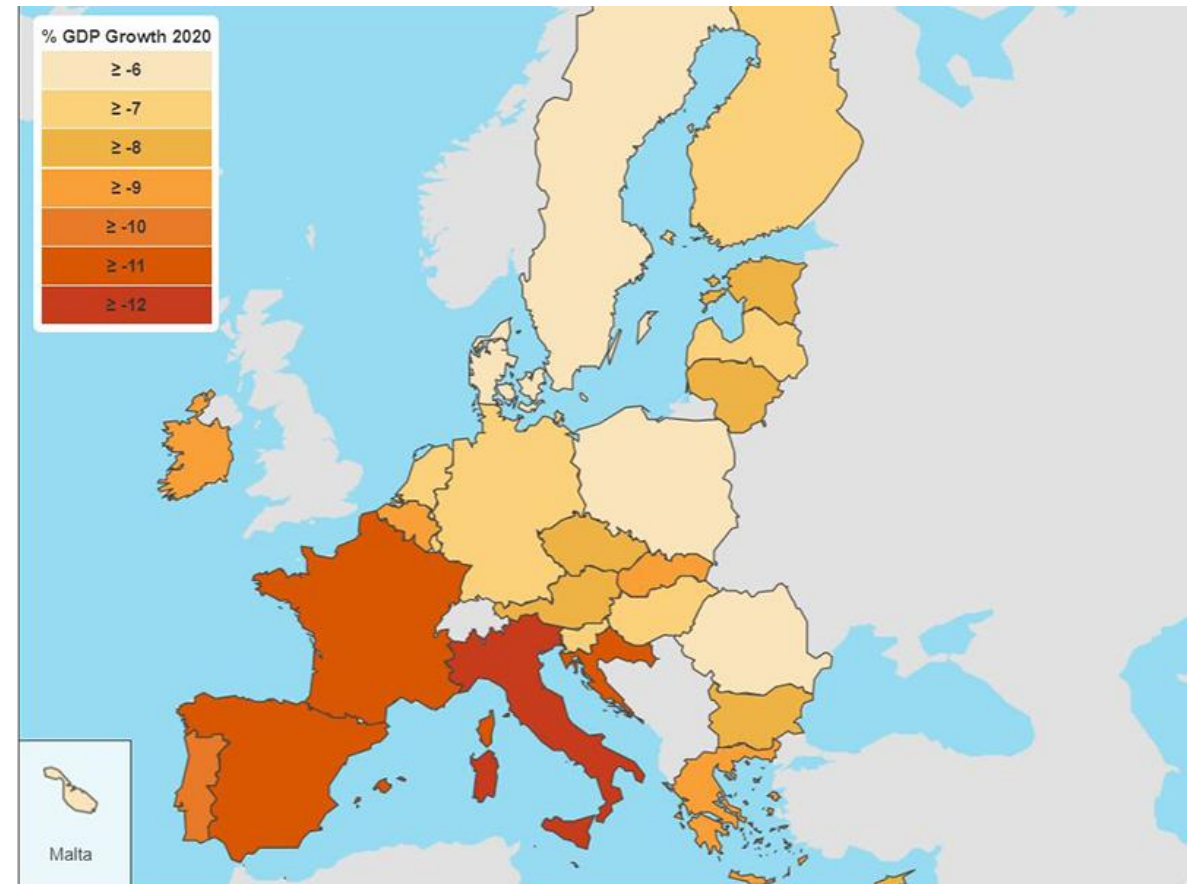
## Selection of some items in the Biodiversity action plan

- Integrate **biodiversity** considerations in all levels; measure environmental **footprint** of products and organisations
- Review of the data on **biofuels** with high indirect land-use change risk and setting up of a trajectory for their gradual phase out by 2030
- Assess the impact of **trade agreements** on biodiversity
- Assessment of the **EU and global biomass supply and demand** and related sustainability

# Then came COVID-19...



EC (ECFIN) summer forecast, GDP growth 2020



# The crisis and the policy response

SURE / ESM Pandemic Crisis Support / EIB Guarantee Fund for Workers and Businesses	€540 billion
Next Generation EU	<b>Temporary reinforcement</b> €750 billion
Multiannual Financial Framework	€1 100 billion

*Agreement reached on the  
proposed €750 billion recovery fund  
and the EU's seven-year budget at  
a summit on 17-18 July*

# EC recovery plan

EUR billion, 2018 prices

	MFF 2021-2027 (May 2020)	Of which under Next Generation EU
<b>TOTAL MFF</b>	<b>1.850,0</b>	<b>750,0</b>
<b>1. Single Market, Innovation and Digital</b>	<b>210,5</b>	<b>69,8</b>
Horizon Europe	94,4	13,5
InvestEU fund, of which under the Union Recovery plan	31,6	30,3
Investing in the EU economic recovery	15,3	15,3
Strategic Investment Facility (new window)	15,0	15,0
EU Solvency Instrument under EFSI	26,0	26,00
<b>2. Cohesion and Values</b>	<b>984,5</b>	<b>610,0</b>
Cohesion Policy	373,2	50,0
Recovery and Resilience Facility (incl. Technical Support)	560,8	560,0
Of which LOANS	250,0	250,0
Of which GRANTS	310,0	310,0
<b>3. Natural Resources and Environment</b>	<b>402,0</b>	<b>45,0</b>
Common Agricultural Policy	348,3	15,0
Of which Pillar II (Rural Development)	90,0	15,0
Just Transition Fund	40,0	30,0
<b>4. Migration and Border Management</b>	<b>31,1</b>	
<b>5. Resilience, Security and Defence</b>	<b>29,1</b>	<b>9,7</b>
Union Civil Protection Mechanism (rescEU)	3,1	2,0
Health programme	9,4	7,7
<b>6. Neighbourhood and the World</b>	<b>118,2</b>	<b>15,5</b>
Neighbourhood, Development and International Cooperation	86,0	10,5
Humanitarian Aid	14,8	5,0
<b>7. European Public Administration</b>	<b>74,6</b>	

A **€15 billion** reinforcement for the **European Agricultural Fund for Rural Development** to support rural areas in making the structural changes necessary in line with the European Green Deal and achieving the ambitious targets in line with the new biodiversity and Farm to Fork strategies.

# Example:

## The macro-region BioEast position paper



“emerging opportunities linked to the **local processing and biorefining of available biomass**, including **organic waste streams** in the context of circular and sustainable economies benefiting the entire European society.”




# Invest in a green, digital, social and more resilient EU

## *Opportunities for and from the bioeconomy*

### Investment in sustainable bio-based solutions

- Two out of many success stories (here EU-funded):

☐  **Burning bio-oil to heat homes more sustainably**  
An EU-funded project has perfected the production of bio-oil and altered boilers to heat homes - recycling farm and forestry waste whilst cutting greenhouse gas emissions.

☐  **Cybergenetics brings noisy cells under control**  
EU-funded researchers are employing the principles of control engineering to regulate the biochemical machinery inside cells, bringing the day ever closer when bacteria will be used to manufacture biological molecules on demand.

- Investors' decisions to fund bio-based R&D and pilot projects can also shape future markets



- European Partnership on 'Circular bio-based Europe: sustainable innovation for new local value from waste and biomass'

### Some more considerations

- Inaction more costly than financing the recovery and transition.
- "Creative destruction"? But more than one dilemma.
- Trade-offs/synergies: impact of low oil price, carbon tax, biomass (sustainable), etc.
- Consumer awareness and action plays a key role (consume less but more sustainable products).
- Global perspective: incl. sustainable trade.
- Policy coherence and SDGs as a guiding principle for the Green Deal and Bioeconomy – also in times of COVID-19.

# Thank you!

## Any questions?

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