Green Deal and Industrial Strategy: 
What does it mean for process industries?

Digitalisation for Sustainability - 
CoPro conference 3 April 2020

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CoPro: Objectives*

* extracted from the CoPro website: [https://www.spire2030.eu/copro](https://www.spire2030.eu/copro)

**CoPro Technologies**

- Plant-wide coordination and demand-side response
- Coordination in industrial parks by market-based algorithms
- Reactive planning and scheduling technology, including scheduling of maintenance
- Detection of anomalies by real-time data analytics
- Combination of data-based and rigorous modelling
- Integration and deployment platform to connect advanced solutions to the IT and OT infrastructure of the plants
The European Green Deal

- Mobilising research and fostering innovation
- A zero pollution ambition for a toxic-free environment
- Preserving and restoring ecosystems and biodiversity
- From ‘Farm to Fork’: a fair, healthy and environmentally friendly food system
- Accelerating the shift to sustainable and smart mobility

Transforming the EU’s economy for a sustainable future

- Increasing the EU’s Climate ambition for 2030 and 2050
- Supplying clean, affordable and secure energy
- Mobilising industry for a clean and circular economy
- Building and renovating in an energy and resource efficient way

Financing the transition

Leave no one behind (Just Transition)

The EU as a global leader

A European Climate Pact
The Sustainable Europe Investment Plan – 9 Jan

Mobilising at least €1 trillion of investments over the course of 10 years, thanks to the combined:

- capital from EU and national budgets;
- public and private investments;
- additional measures to facilitate and boost green public and private investment;
- attractive investment conditions;
- technical assistance to help investors in selecting sustainable projects.

25% of all European Union funding for climate measures

30% of InvestEU to projects that fight climate change

Stimulating green investments with support from the EIB Group

### EU Budget

- €503 billion for Climate and Environment
- €100 billion for Climate and Environment
- €25 billion for Emissions Trading System (ETS) Funds

### InvestEU

- European Investment Bank Group
- National Promotional Banks and International Financial Institutions

### Just Transition Mechanism

- €100 billion
- €145 billion over 10 years
- National co-financing structural funds €114 billion

### Private & Public Investments

- InvestEU towards climate and environment targets
- Mobilised investment of €279 billion

*The numbers shown here are net of any overlaps between climate, environmental and Just Transition Mechanism objectives.*
Industrial Strategy (10 March)

• **Twin transition for industries:** green and digital transformation hand in hand

• **New approach:** building **industrial alliances**
  
  • Clean Hydrogen Alliance yes, Low Carbon Industry Alliance? Industry Clouds/Platforms?
  
  • Link to partnerships under Horizon Europe

• **Purpose of such industrial alliances:**
  
  • Key technologies
  
  • Investment opportunities/state aid/IPCEI
Circular Economic Action Plan 2.0 – 11 March

• Make sustainable products the norm in the EU:
  • « circular by design » beyond eco-design affecting also materials (steel, chemicals, cement)
  • measures on electronics/ICT, textiles, plastic, food, packaging,

• Case for strong synergies between European Regional Funding and Horizon Europe

Horizon 2020 – the last year

• Work programme 2020
  • No appetite for extending call deadlines
  • Ongoing projects (extension?)

• Green Deal call of 1 billion EUR?
  • Announced in Sustainable Investment Plan
  • Finalisation in July – covering also process industries (catalysis)
Horizon Europe: Preliminary structure

### Pillar 1: Excellent Science
- European Research Council
- Marie Skłodowska-Curie Actions
- Research Infrastructures

### Pillar 2: Global Challenges and European Industrial Competitiveness
- Clusters:
  - Health
  - Culture, Creativity and Inclusive Society
  - Civil Security for Society
  - Digital, Industry and Space
  - Climate, Energy and Mobility
  - Food, Bioeconomy, Natural Resources, Agriculture and Environment
- Joint Research Centre

### Pillar 3: Innovative Europe
- European Innovation Council
- European innovation ecosystems
- European Institute of Innovation and Technology

### Widening Participation and Strengthening the European Research Area
- Widening participation and spreading excellence
- Reforming and Enhancing the European R&I system
Budget – Multiannual Financial Framework (MFF?)

Agreed: 3.3% «widening»; pillar II: < 10% Missions & < 50% partnerships; > 70% EIC for SME; Admin < 5%

Council: no figure, 10bn bio-economy

EP: € 120 bn
Horizon Europe – first work programme 2021/2022 – when – how - what?

• Strategic Plan as basis for first work programme (June adoption)
• First WP not adopted before first quarter 2021
• New Partnerships with industries
• Work to implement cluster 4 starts
  • First ideas: climate neutral value chains, circularity of resources (waste, CO2), integration of renewables/electrification, circularity hubs??
• Reaching out to stakeholders, including Research and Innovation Days in 22 – 24 Sep and INdTech (German Presidency) 26 to 28 October
Conclusions

• Green Deal continues to be « game changer » for industries (twin transformation – green and digital)

• Public investments: programme logic or more integrated thinking?

• Industry Strategy : Industrial Alliances – driver for industry for investments? Links between Alliances and future partnerships under Horizon Europe?

• Horizon Europe requires major input from industry (roadmaps of future partnerships but also newcomers)

• Work Programme Discussions 2021/2022 to start soon