

### The Vision of the Materials 2030 Manifesto

Backbone and source of prosperity of a sustainable society

A strong European Materials ecosystem to drive the green and digital transition alongside a sustainable inclusive European society through systemic collaboration between upstream developers, downstream users, and citizens and all stakeholders in between.

### Big challenges ahead

A great opportunity for Europe, if united.





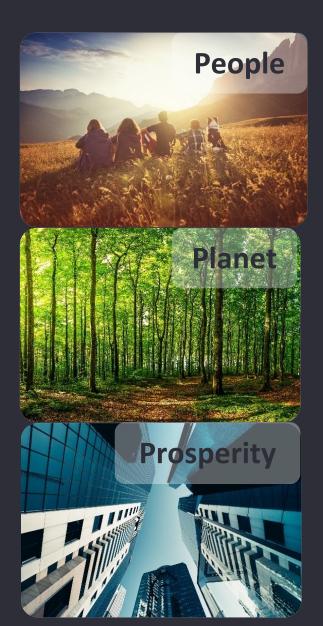


Climate neutral by 2050

Reduce environmental pollution

Prevent resource scarcity

## The materials 2030 initiative – Why?



## **Overarching goals**

- Safeguarding Europe's technology leadership
- > Reducing the environmental footprint
- > Securing Europe's strategic autonomy

Climate contribution





Zero pollution & non-harmful



### The Materials 2030 Initiative – How?



Driving cross-sectoral industrial innovation by supporting new applications across all industry sectors

Paving the way for the engagement of all advanced materials stakeholders

Fostering the collaboration based on common grounds between stakeholders – *The "Materials Commons "* – to create more sustainable products through material-based technology

Addressing all value chains and innovation markets for planet, people, and prosperity

### Innovation Markets - Materials for sustainability...

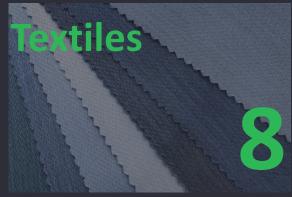


















### Some expected benefits

Combination of digital technologies revolutionises research & development methodologies

- Accelerating advanced materials development for Europe's innovation markets
- 2 Low resource utilisation, energy-efficiency and decarbonisation of materials processing
- 3 Industry-ready processes and technologies for establishing circular value chains in Europe
- 4 Alternative advanced materials processing solutions
- 5 Increased product customisation, warranty, and labelling
  - Support product traceability and lifecycle management

Materials development, production and processing creates new opportunities

### **Building blocks of the Materials 2030 Initiative**

# Inclusive Governance - a new form of cooperation

# Materials Digitalization

- New research and development methodologies
- Merging computational and experimental material science with data science

# Materials scaling up

 Common manufacturing technologies & conditions for the production and processing of advanced materials

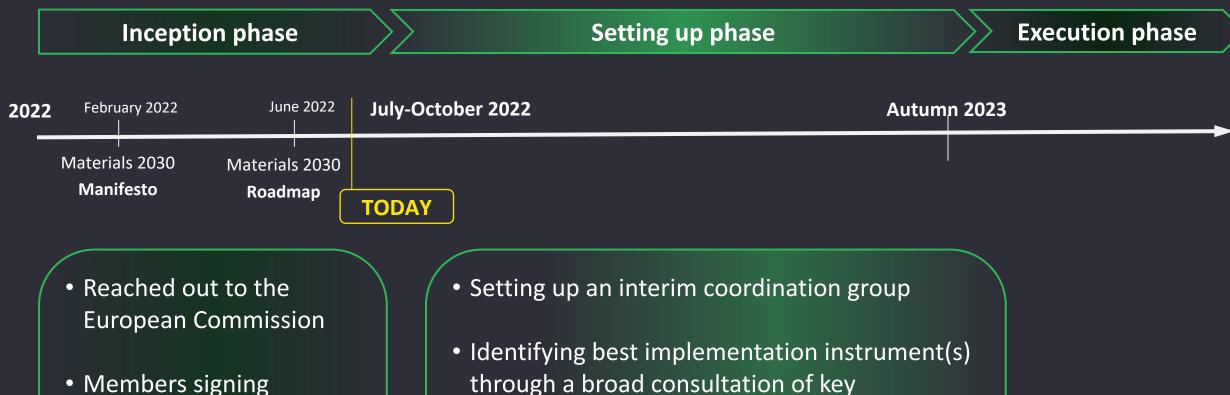
# Materials priority areas

• The basis for the development of a novel European strategic materials agenda

#### Connecting "Blue Sky" research with market demands

**Evidence-based policy recommendations** 

### Next steps & timeline

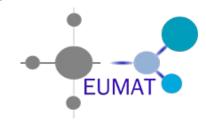


- Start establishing strategy
- Presentation INDTECH

- through a broad consultation of key stakeholders, including MS
- Further stakeholder engagement
- Setting up instrument(s)



Gathering 60 organisations developing innovative advanced materials solutions for clean and sustainable energy and mobility.



EU Materials Platform for academia, industry and other stakeholders. Processing R&D priorities.

## suschem

Sustainable Chemistry Technology platform: Industry-Academia-Policy makers collaboration driven.



European Manufacturing Industry Platform. More than 100 stakeholders from industry, academia and RTOs.

#### The signatories of the Manifesto

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