

MATERIALS 2030 INITIATIVE

Building on the Materials 2030 Manifesto

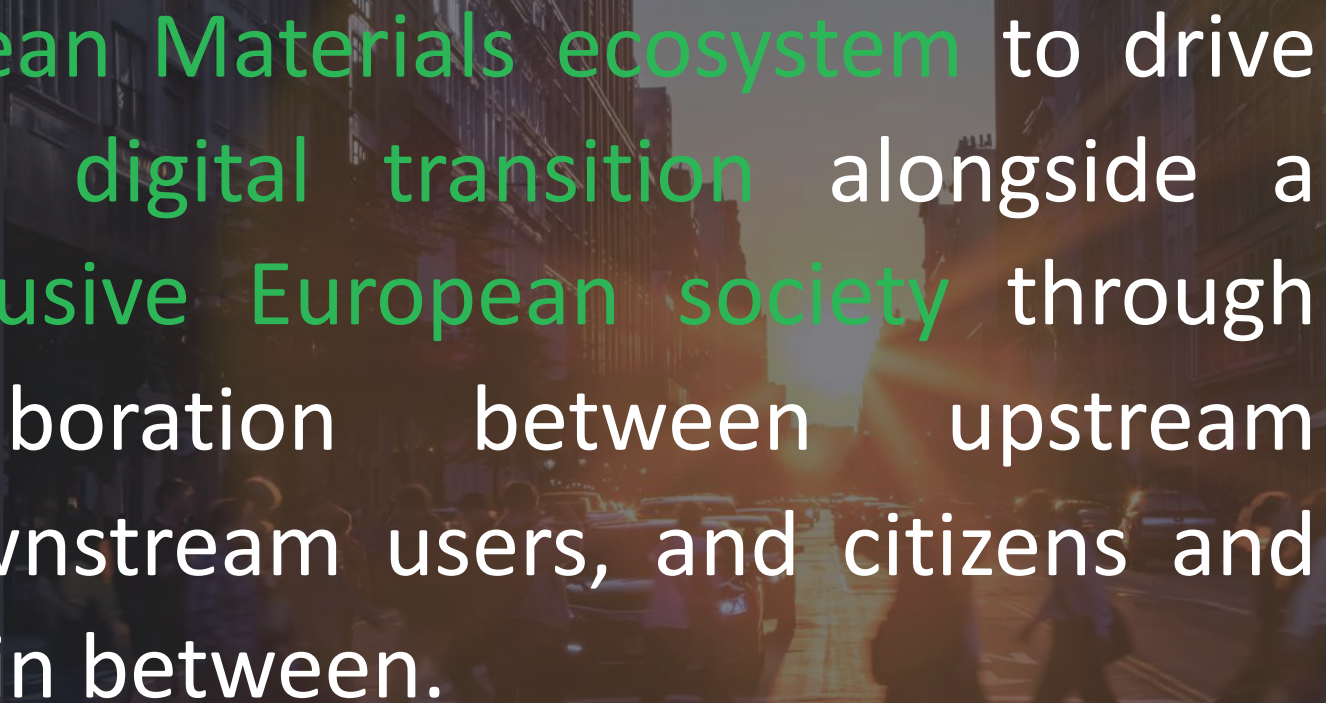
Presented by
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Grenoble, June 29th 2022

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



Circularity of mat



Zero pollution & non-harmful



The Materials 2030 Initiative – How?



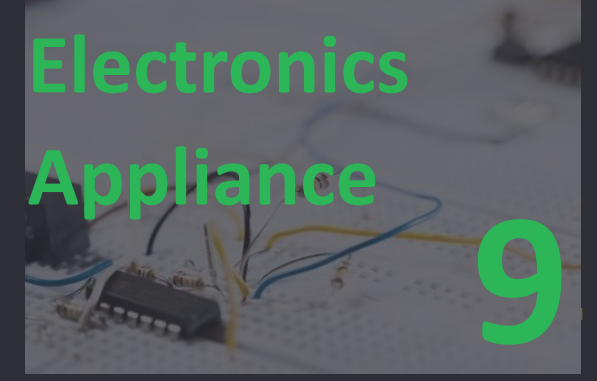
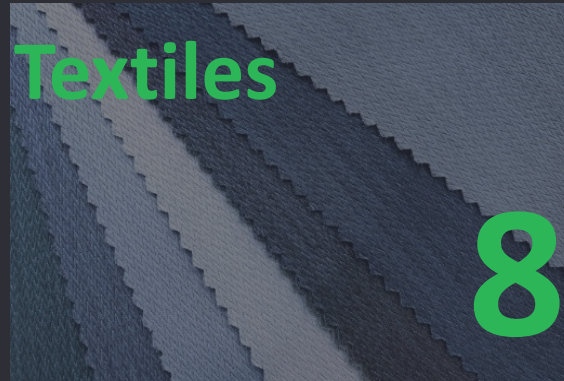
Driving cross-sectoral industrial innovation by supporting new applications across all industry sectors

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

- 1 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
- 6 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

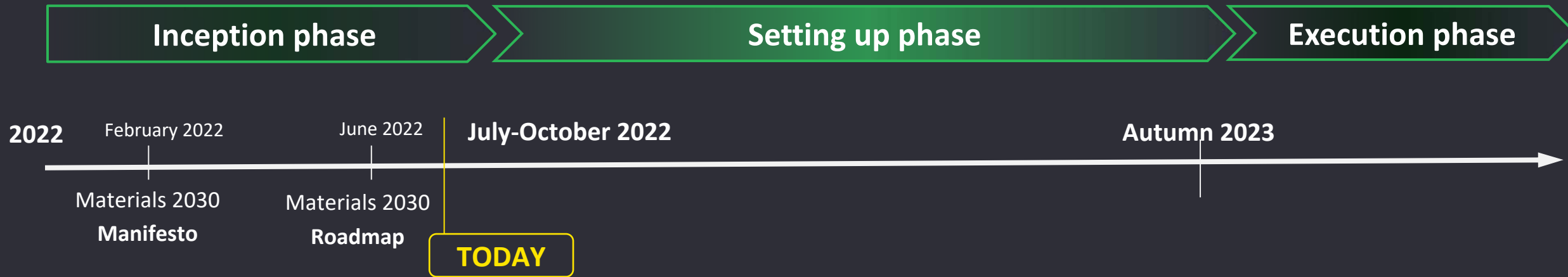
Materials priority areas

- 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

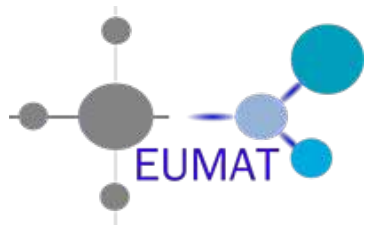


- Reached out to the European Commission
- Members signing
- Start establishing strategy
- Presentation INDTECH

- Setting up an interim coordination group
- Identifying best implementation instrument(s) 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.



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

Alessandro CREMONESI, Executive VP and Chief Innovation Officer STMicroelectronics N.V.

Nicole GROBERT, Professor, Associate Head of Department (Research), Department of Materials, University of Oxford, Chair of the Group of Chief Scientific Advisors

Peter GUMBSCH, Chairman of the Fraunhofer Group Materials, Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.

Laurence PIKETTY, Deputy CEO, Commissariat à l'énergie atomique et aux énergies alternatives (CEA)

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Isabelle VÉRILHAC, President, The Bureau of European Design Associations (BEDA) and their respective member organisations



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