

EMIRI

ENERGY MATERIALS INDUSTRIAL RESEARCH INITIATIVE

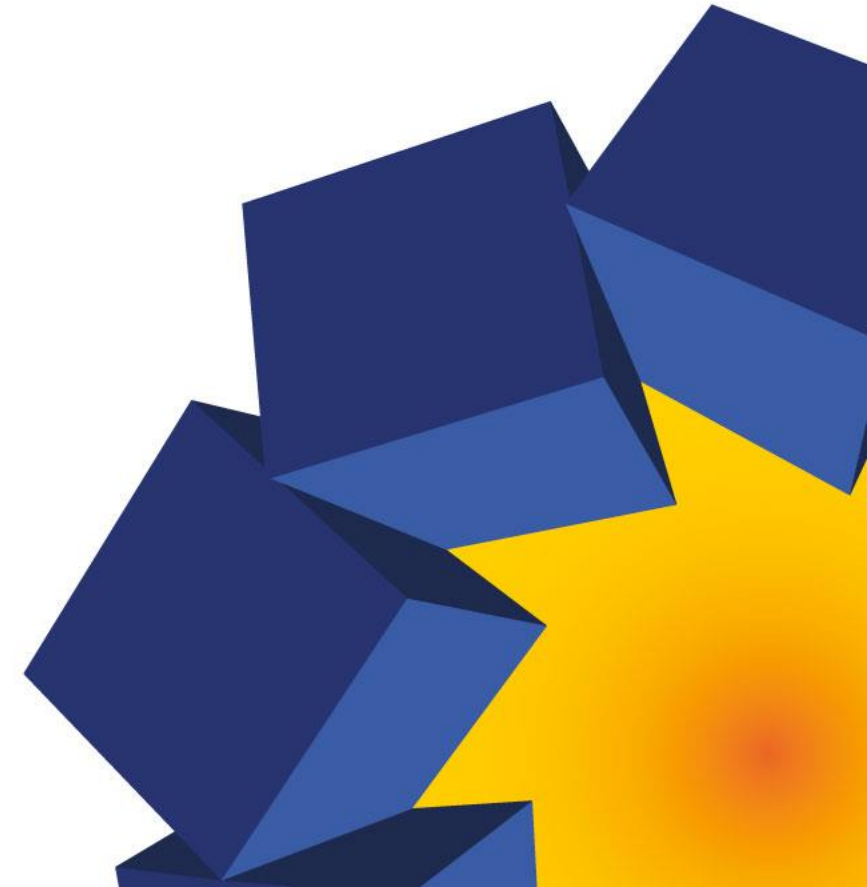
EMIRI TechTalk

**R&I needs on Advanced Materials
to unlock the hydrogen revolution**

Introducing EMIRI

November 5, 2021

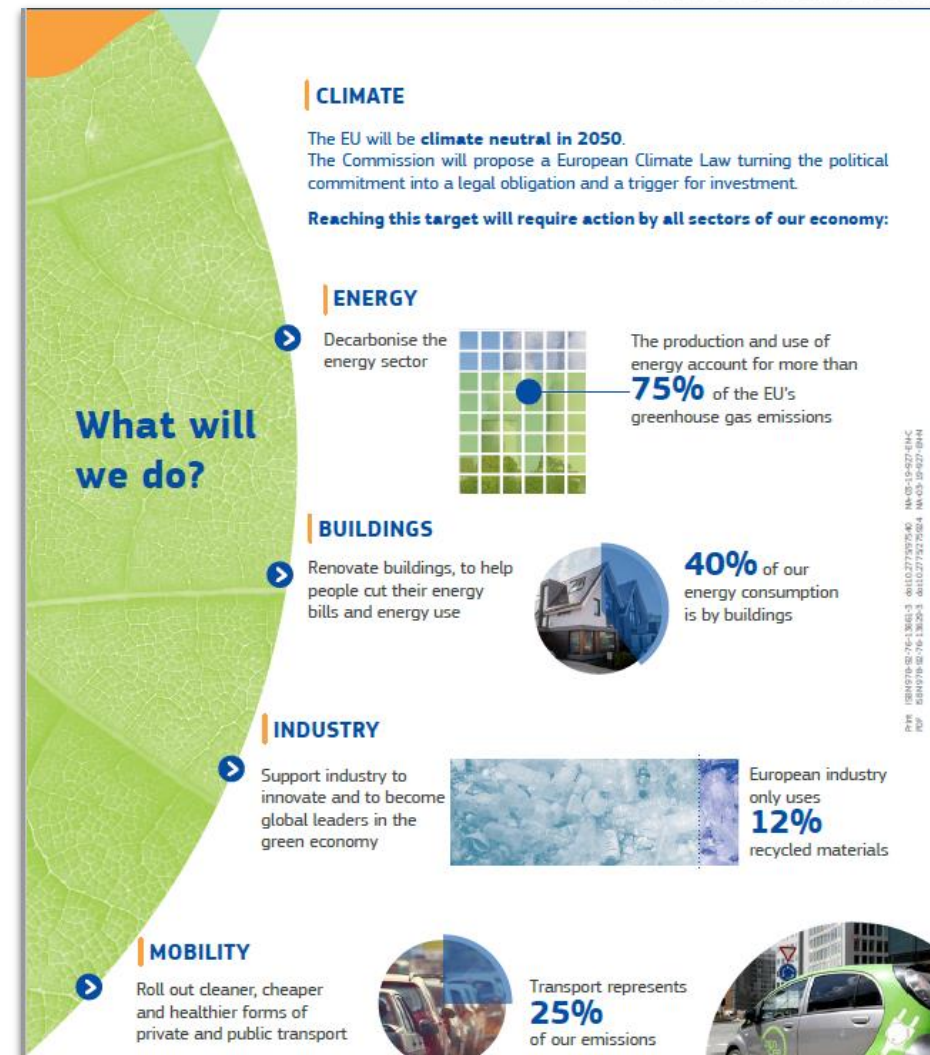
Philippe JACQUES








Reaching net-zero by 2050 - At the heart of the EU Green Deal



This ambition can only be achieved by decarbonizing ENERGY, BUILDINGS, INDUSTRY, MOBILITY, ...
Advanced Materials are a key enabling technology



What will we do?

- CLIMATE**
The EU will be **climate neutral in 2050**.
The Commission will propose a European Climate Law turning the political commitment into a legal obligation and a trigger for investment.
Reaching this target will require action by all sectors of our economy:
- ENERGY**
Decarbonise the energy sector

The production and use of energy account for more than **75%** of the EU's greenhouse gas emissions
- BUILDINGS**
Renovate buildings, to help people cut their energy bills and energy use

40% of our energy consumption is by buildings
- INDUSTRY**
Support industry to innovate and to become global leaders in the green economy

European industry only uses **12%** recycled materials
- MOBILITY**
Roll out cleaner, cheaper and healthier forms of private and public transport

Transport represents **25%** of our emissions


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- ✓ **EU Industrial Strategy**
strengthening Europe's competitiveness and sovereignty during the green and digital transition
- ✓ **Circular Economy Action Plan**
for a cleaner and more competitive Europe
- ✓ **EU chemicals strategy for sustainability**
towards a zero pollution ambition for a toxic-free environment
- ✓ **NextGenerationEU**
Recovery plan to emerge stronger from the pandemic, transform our economies, create opportunities and jobs, to make Europe greener, more digital and more resilient.

Advanced Materials are the backbone of innovation for clean and sustainable energy and mobility technologies



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Safer, healthier, smarter, more flexible, more inclusive and more affordable solutions

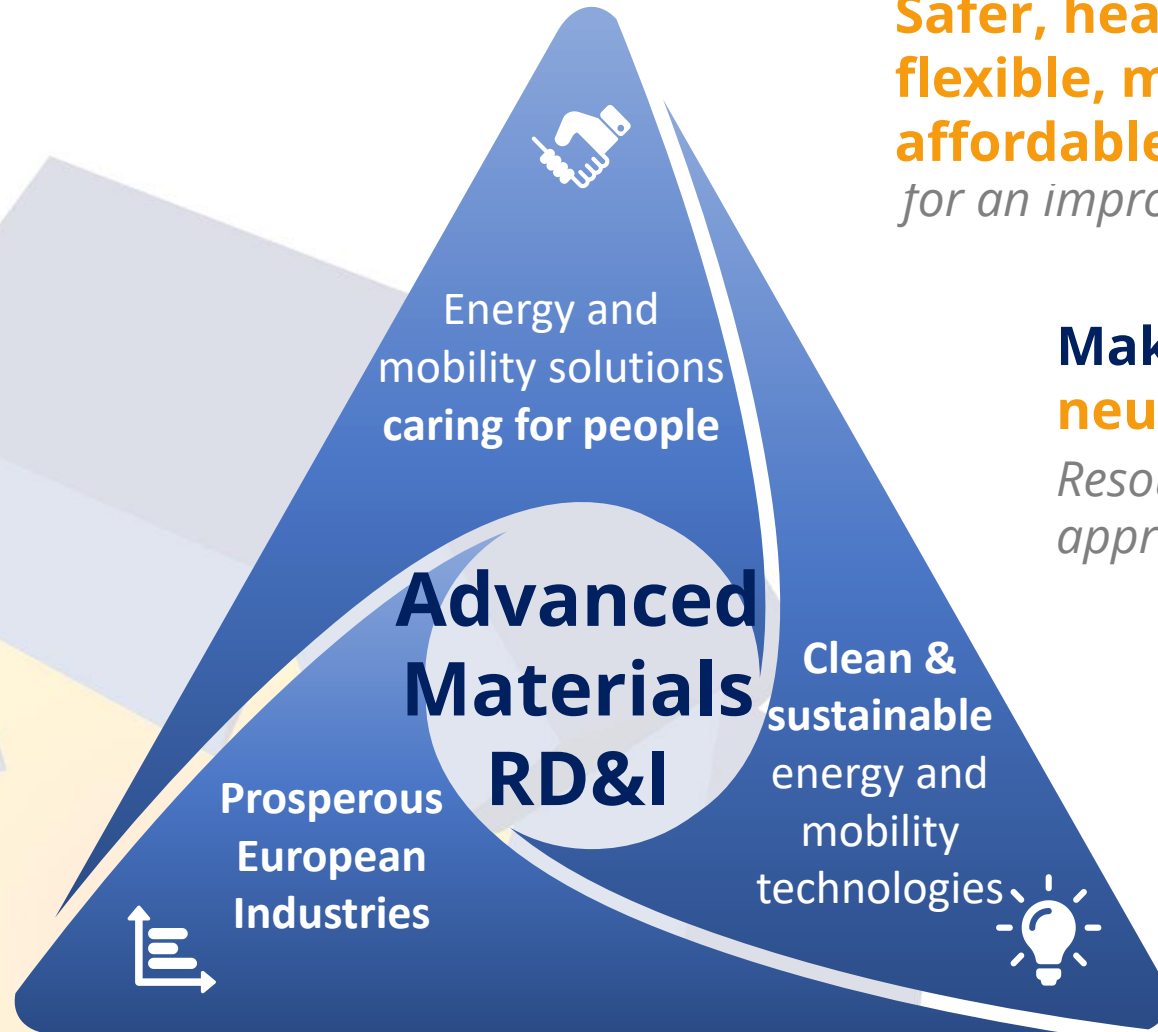
for an improved well-being to all citizens

Make energy and transport carbon-neutral and durable

Resource-efficient in a circular economy approach

Achieving at the same time strengthened global competitiveness and autonomy

European energy, transport and energy-intensive sectors



Boosted by the Digital transformation & Industry 4.0

EMIRI Technology roadmap

Focus on areas where Advanced Materials make the difference



Batteries



Hydrogen



Solar Energy Harvesting



Wind Energy Harvesting



Low Carbon Industries



Light weighting for mobility



Buildings



Digital and integration technologies
for clean energy and mobility

- Promote **Advanced Materials for clean and sustainable energy and mobility** in every relevant technology area
 - Propose **key R&I topics**
 - Highlight the key impact of **Advanced Materials** as a leading-edge opportunity for **the European industry**

- Reinforce **networking and connections**

EMIRI – Industry, Research and Associations working together for the future of Advanced Materials for a decarbonised economy in Europe



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