



INNOVATE WITH EMIRI

Advanced Materials and Related Technologies Governance
From a Sector-based to a Problem-solving Oriented Programme

ROUND TABLE - ADVANCED MATERIALS AND NANOTECHNOLOGIES IN MOTION

EMIRI – Energy Materials Industrial Research Initiative – www.emiri.eu

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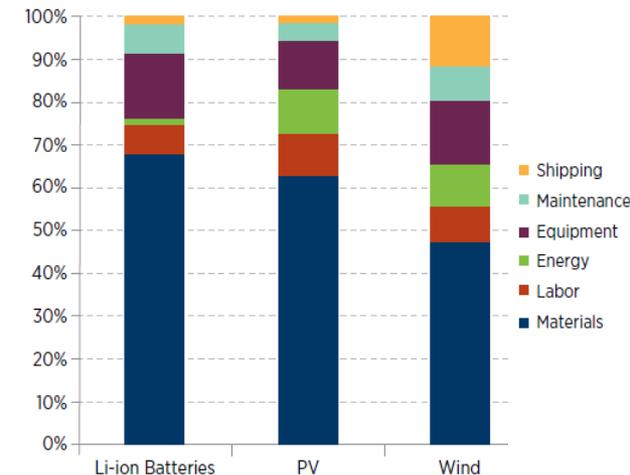
EMIRI works for the future of Advanced Materials for low carbon energy and clean mobility technologies in Europe

- EMIRI is an **industry-driven grouping** of over **50 organizations** (established in 2012)
 - With a **balance of industry players, research organizations, associations**
 - Across Europe & across **Energy and Mobility Technologies**,
- Aiming to be a key player in shaping & implementing a **EU policy for Advanced Materials**
- To promote a strong and vibrant EU-based sector of **Advanced Materials for low carbon energy & clean mobility Technologies & restore Industrial Leadership**
- Inspired by the **SET Plan & supporting Energy Union**
- Focusing on **innovating & bringing to market** Advanced Materials solutions to contribute to tackling Energy, Mobility & Economic challenges of EU



A strong EU-based advanced materials industry is key to reindustrialize EU in clean energy & clean mobility techs

- Advanced materials industry is central to tackling deindustrialization of EU in clean energy value chains while building the clean mobility value chains as well
- EU-based industry of advanced materials for clean energy techs represents more than 30 billion euro yearly revenues, 10 percent is reinvested in R&D and production capacities
- Our industry employs 500,000 people (direct & indirect) which is half of all European jobs in clean energy value chains and created about 40 - 50,000 jobs in the period 2013 – 2016 to serve European market as well as global markets
- Advanced materials represent more than 50% of cost structures of these techs and accelerated innovation in advanced materials is key to accelerate innovation in clean energy & clean mobility
- In near future, global trends will impact manufacturing cost structures of clean energy & clean mobility techs (bringing share of advanced materials in cost above 80% and squeezing out labor and energy costs) and enable manufacturing of clean energy & clean mobility techs in EU to serve EU market (“made in EU for EU”)



* Extracted from US DOE's CEMAC reports

Innovation support is needed more than ever to preserve European technology leadership & develop the manufacturing basis

**“realistic”
funding**

More resources need to be allocated to clean energy & clean mobility technologies (compared to support for fossil fuels and nuclear)

- Funding of R&I on advanced materials for clean energy & clean mobility technologies should show a step change in FP9

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**“effective”
funding**

Public authorities need to make better choices aligned with industry priorities

- R&I efforts addressing a same challenge (e.g. battery-enabled mobility) should be better coordinated with a more transparent and open governance (not fragmented across various EU Commission silos and work programmes)
- and industry should be more involved in the decision-making process

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**“efficient”
funding**

Development of better R&I tools & methodologies needs to be promoted

- Towards a “portfolio” approach rather than a long compilation of “projects”
- Clear KPIs to guide innovation
- Stage gating project management