

The benefits for the EU R&I Ecosystem

Dr. Barbara Tišler Head of the project office HORIZON 2020 EuroNanoForum 2019, Bucharest, 14 June 2019



10 Departments

330 Employees

66 PhD students



COMPUTER MODELING

HIGH PERFORMING MATERIALS

TRAINING

BIOTECHNOLOGY



MATERIALS RESEARCH



ENVIRONMENTAL PROTECTION



FOOD

RESOURCE EFFICIENCY

CHEMICAL ENGINEERING

ANALYTICAL CHEMISTRY





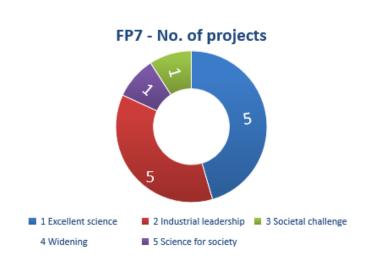








Big jump to Horizon 2020





Total: 12 projects

3 mio EUR

Total: 26 projects 15 mio EUR



Active involvement into EU R&I landscape

11 Horizon 2020: Energy related projects

Acronym	Title	Sheme
BATTERY 2030+	BATTERY 2030+ At the heart of a connected green society	H2020- FET- 2018
LiRichFCC	A new class of powerful materials for electrochemical energy storage: Lithium-rich oxyfluorides with cubic dense packing	H2020-FET-2015
OBELICS	Optimization of scalable rEaltime modeLs and functional testing for e-drive ConceptS	H2020-GV-2017
OBELICS	Optimization of scalable realtime models and functional testing for e-drive concepts	H2020-GV-2017
BIZEOLCAT	Bifunctional Zeolite based Catalysts and Innovative process for Sustainable Hydrocarbon Transformation	H2020-NMBP-2018
REAXPRO	Software Platform for Multiscale Modelling of Reactive Materials and Processes	H2020-NMBP-2018
HELIS	High energy lithium sulphur cells and batteries	H2020-NMBP-2014
CONVERGE	CarbON Valorisation in Energy-efficient Green fuels	H2020-SPIRE-2018
MefCO2	Synthesis of methanol from captured carbon dioxide using surplus electricity	H2020-SPIRE-2014
ADREM	Adaptable Reactors for Resource- and Energy-Efficient Methane Valorisation	H2020-SPIRE-2015
POLYNSPIRE	Demonstration of Innovative Technologies towards a more Efficient and Sustainable Plastic Recycling	H2020-SPIRE-2018
FRESME	From residual steel gasses to methanol	H2020 - LCE- 2016



Partners

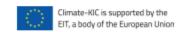
- EMIRI
- EIT Climate KIC
- SUSCHEM
- EERA Bioenergy
- S3 Advanced materials for batteries for electromobility and stationary energy storage
- SBRA- from 2014
- EARTO just started

















Added value from partnerships



Roadmaps

II) EMIRI Roadmap on Clean Energy and Clean Mobility

The roadmap chapter: it includes a theoretical introduction, an overview of technologies and their performance, market information, European SWOT, value chain players, and trends. It is addressed to a general audience.

- EMIRI Roadmap Photovoltaic.docx
- @ EMIRI Roadmap Hydrogen for Mobility shared.docx
- The calls (Annex I): this is the final version of the calls
 - EMIRI Roadmap Call Tables Hydrogen for Mobility shared.docx
 - EMIRI Roadmap Photovoltaic.docx
- III) EMIRI Roadmap on Building Energy Perormance EMIRI Roadmap Building Energy performance.docx

 Call Tables on Building Energy Perormance: EMIRI Roadmap Call Tables BEP (1).docx
- IV) EMIRI Roadmap on Wind EMIRI Roadmap Wind Energy Harvesting.docx
 Call Tables on Wind EMIRI Roadmap Call Tables Wind.docx
- V) EMIRI Roadmap on Hydrogen for stationary application @ EMIRI Roadmap Hydrogen for Stationary.docx Call Tables on Hydrogen for stationary applications @ EMIRI Roadmap Hydrogen for Stationary.docx



Desired KPIs from industry

Current state-of –the art

Networking

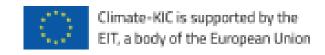




- NIC leading the national SUSCHEM platform
- Partnership events & Brokerage
- Networking
- SRIA Strategic Innovation and Research Agenda for sustainable chemistry
- Plastics strategic research and innovation agenda







- Co-creation of proposals
- Partnership search
- Overview of policy led KPIs





Networking Information providing Representation at meetings











Inputs

- Active involvement
- Vision of scientific development in the field
- Dedicated personnel and adequate resources



Strategy of our institute

- very precise
- sets targets and ambition



Additional renumeration rules in Horizon 2020



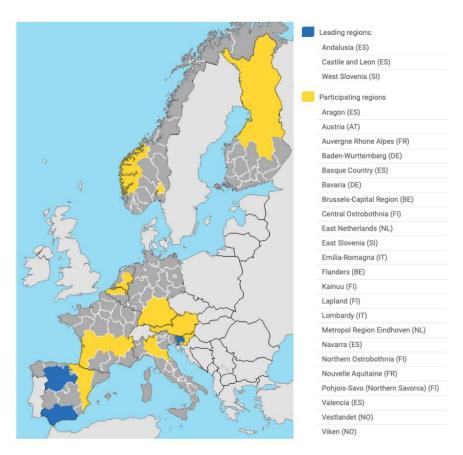
S3 Advanced materials for batteries for electro-mobility and stationary energy storage

Co-creation of pilots



S3 Advanced materials for batteries

- PILOT 1: Solid state lithium-ion batteries (Generation 4) (Lead Region: Bavaria)
- PILOT 2: Sustainable Raw Material, Extraction and Processing (Lead Region: Castilla y León)
- PILOT 3: Recycling of existing Lithium Ion Batteries (Lead Region: Bavaria)
- PILOT 4: Liquid based-batteries (stationary) (Lead Regions: Basque/ Valencia)
- PILOT 5: Network of research & testing centers (Lead Region: West Slovenia)
- PILOT 6: Improved lithium-ion batteries (Generation 3b) (Lead Region: Auvergne Rhône Alpes)



Interest in joining?
Contact us!

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