



THE EU RESEARCH & INNOVATION PROGRAMME **2021 - 2027**







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Institut Français de Lituanie, Ambassade de France, Vilnius, Lithuania October 20th 2021





















Outline

























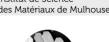
Introduction

- 1. Good Practices
- 2. Objectives
- 3. Strengths
- 4. Difficulties & Obstacles

Conclusion



IS2M1. Good practices - European Projects



















PHC Gilibert

Surface Color on demand: Chameleon Effect

BioColor Project



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S2M1. Good practices - European Projects



NanoTRAACES

M-ErA.net Ultrasensitive Sensors for the detection of Lithium Ion Batteries



Consortium

Academic Partners

Partner 1/

Coordinator: Institut de Science des Matériaux de Mulhouse-IS2M-CNRS,

France

Partner 2: Centre National d'Etudes Spatiales, CNES, Toulouse,

France

Partner 3: Kaunas University of Technology; Kaunas,

Lithuania

Partner 4: Luxembourg Institut of Science and Technology, LIST

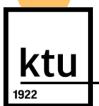
Luxembourg

Partner 5: Gwangju Institute of Science and Technology, GIST

South Korea

Industrial Partners:

SAFT Batteries, France; UNS Energy, Korea



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2nd STEP







IS2M1. Good practices – Common conferences

Advanced materials and technologies 1999-2021

















"... The international conference school "Advanced materials and technologies" to me means excellent talks, striking hospitality, wonderful location and side program as well as perfect networking opportunities for young and senior scientists..." (Prof. Franz Faupel, Kiel University, Germany)

1. Good practices – networking



Physics and Chemistry of Advanced Materials

















Carl von Ossietzky University of Oldenburg, Germany
PCAM is a research network Graz University of Technology, Austria Jagiellonian University Kraków, Poland Kaunas University of Technology, Lithuania Lomonosov Moscow State University, Russia Sorbonne University, France Technishe Universität Dresden, Germany The Autonomous University of Madrid, Spain University of Luxembourg, Luxembourg University of Milan, Italy University of Milano-Bicocca, Italy University of Southern Denmark, Denmark University of the Basque Country, Spain University of Trieste, Italy http://www.pcam-doctorate.eu/contact/

comprising a total of fifteen international partners focusing on various aspects of the physics and chemistry of advanced materials.



















1. Good Practices - Lessons learned















- 1) Finding a EU call corresponding to the objectives of the project
- 2) Defining the roles of each partner to ensure a good distribution of tasks in response to the objectives and expected results
- 3) Importance of the coordinator: "Guardian of the good practices"
- responsible for ensuring the success of the project:, from the set-up phase to implementation and justification
- for effective monitoring:
 - back-planning,
 - regular consortium meetings,
 - contact with the EU project officer to ensure optimal monitoring in conjunction with the European Commission reporting actions
- 4) Anticipation of potential problems or organization timing
- 5) Foresight





2. Objectives – Topics in Science?















Relation between Topics and Eu Economy and Environment

Ex: <u>Materials Science</u>

- 1. Sustainable topics these last years
- 2. High-tech products
 - Increasing efficiency
 - Integrating renewable energy and its storage for applications in buildings, transport and industry

Ex: Development and manufacturing of high-performance Reliable, safe, and low-cost batteries

- 3. Enhancing the durability of products & improving process efficiency with reduced energy and materials consumption, substituting hazardous or hardly recyclable materials
- 4. Developing products to maintain, repair, upgrade, remanufacture or recycle (eco-design)
- 5. Preventing by-products and avoiding waste



3. Strengths







- Networking



- Balance between Academia and industrial partners



Creating a direct transfer between research and development



Example: M-ErA.net Consortium

M-ERA.NET 2 from 2016 to 2022 with 43 partners from 29 countries



third phase as M-ERA.NET 3 until 2026 under the Horizon 2020 ERA-NET COFUND scheme with currently 50 public funding organisations from 36 countries



National and regional funding programmes from 25 EU member states and 5 associated countries and includes 6 non-European organisations



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4. Difficulties & Obstacles















Example of UMRs in France: not always understandable for foreign partners.

- 2) Difference between accounting and financial rules of organizations
- 3) For specific call such as M-ErA.net: Specific recommendations for **each Eu countries** each partner should contact their own funding agencies!!
- 4) Keeping the Gantt Chart schedules on time
- 4) Time difference between countries: Eu and Asia...?





Conclusion















Teams & organizations

2. Objectives

Projects and Eu Needs

3. Strengths

Networking

4. Difficulties & Obstacles

Schedule and specific EU country rules





Acknowledgements















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Kaunas Team



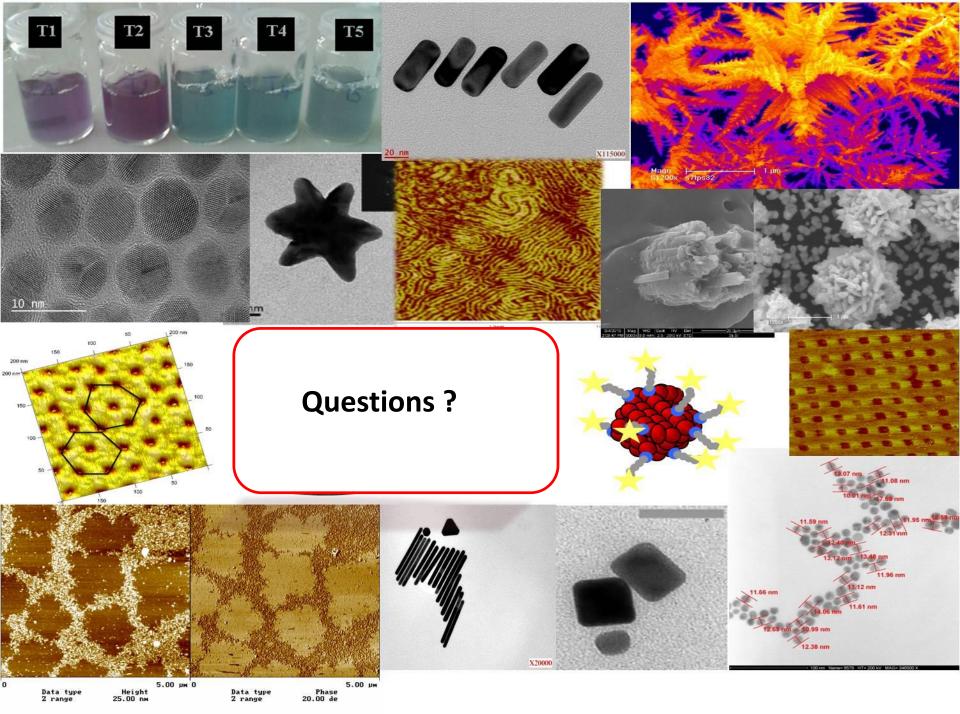












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