



KEMIJSKI INŠTITUT



# National Institute of Chemistry

## Ljubljana, Slovenia



**National Institute of Chemistry**

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**4 universities**  
**16 public research institutes**  
**6,980 researchers**  
**17 ERC grants**  
**HPC Vega as part of EuroHPC**





KEMIJSKI INŠTITUT

With excellent research...

Biotechnology

Life sciences research

Analytical chemistry

Nanotechnology

Food chemistry



Energetics

Theoretical and structural chemistry

Chemical engineering

Materials research

erc

areas of research



...we create new knowledge and help solving societal challenges.



\* EURAMET,  
Climate KIC,  
Interreg, NATO,  
EDA, Mizutani  
foundation, ICGEB

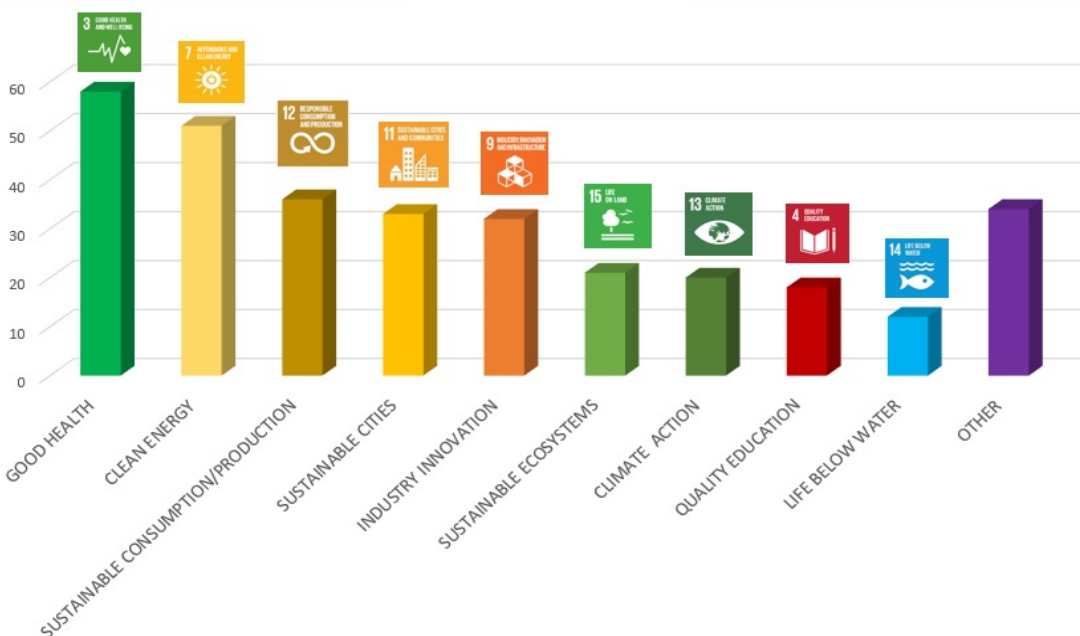


Climate-KIC



REPUBLIC OF SLOVENIA  
GOV.SI

Ministry of Education, Science  
and Sport



**le**  
član skupine Sandoz

**HONDA**

**Janssen**

**NOVARTIS**

**SANDOZ** A Novartis Division

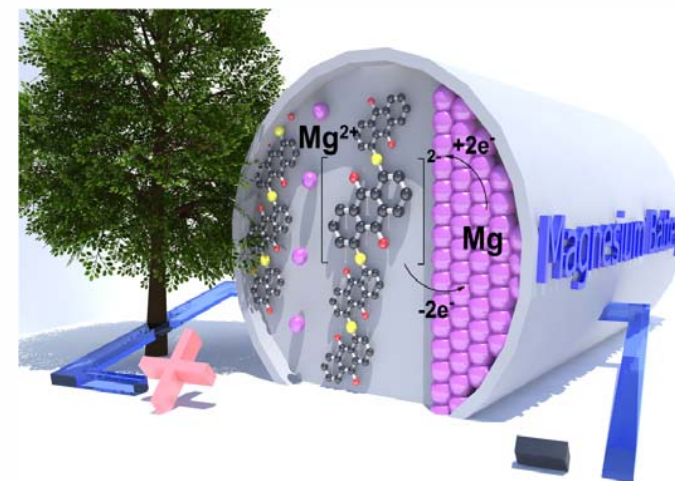
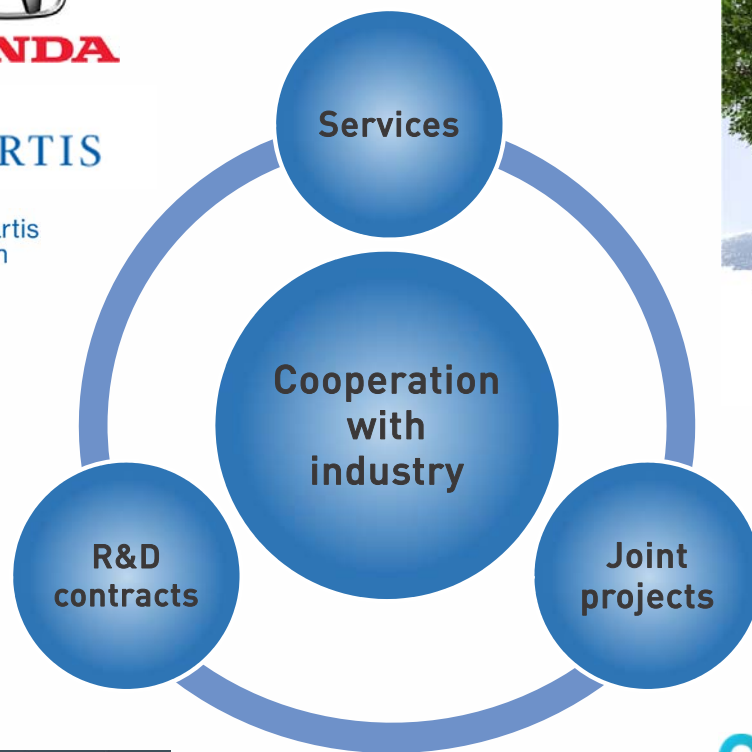
**Oxford NANOPORE** Technologies

**AQUAFIL** Global

**SALUTAS**

**KRKA**

**GLOBAL BIOENERGIES**



2013-, Development of Mg batteries





**123 STABLE and StableCat**  
ERC Starting and Proof-of-Concept Grants (Prof. dr. Nejc Hodnik)

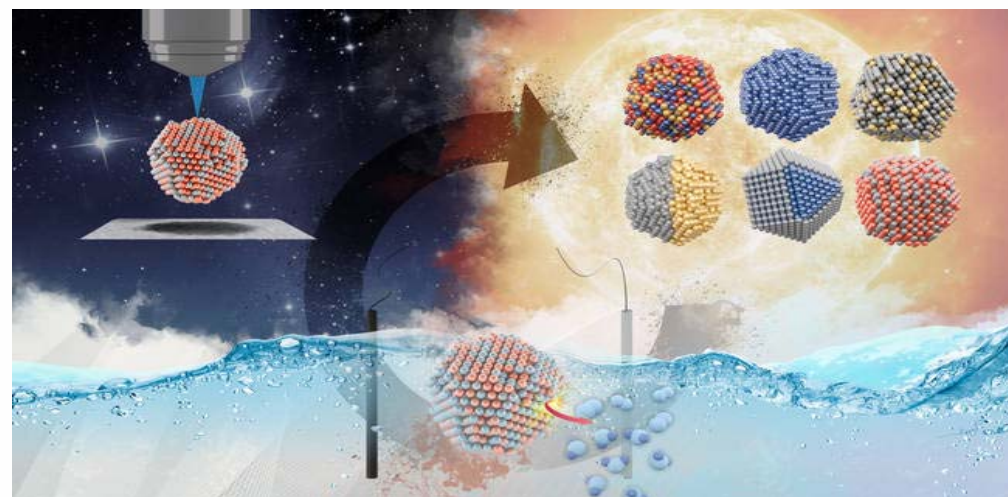
*Towards Nanostructured Electrocatalysts with Superior Stability (123STABLE)* will explore how the **atomic structure of electrocatalyst nanoparticles** changes when operating in low-temperature fuel cells and electrolyzers.

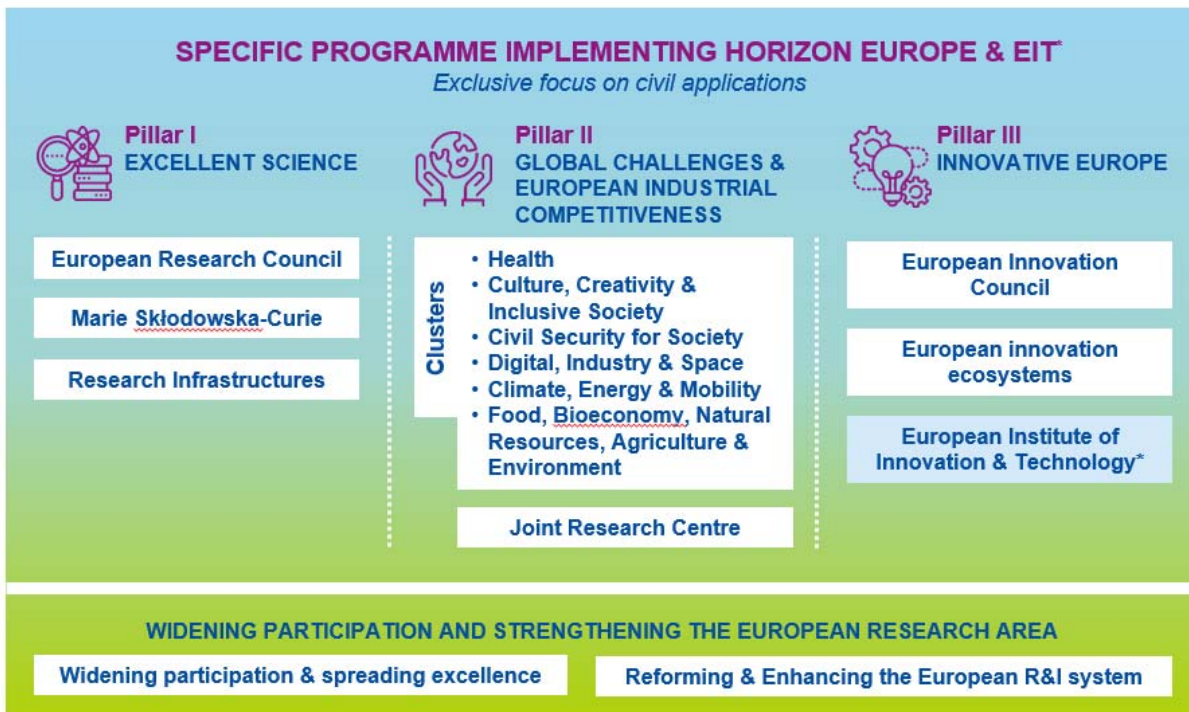
*Assessing the Technical and Business Feasibility of Highly-active and Stable Intermetallic Pt-alloy Catalysts for Application in PEMFCs (StableCat).* Towards the **commercialisation of new method of producing catalysts for hydrogen fuel cells.**

**Better and more advanced catalysts in the hydrogen economy**

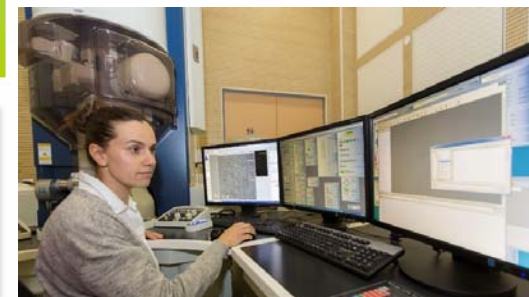


**RECATALYST**





Widening  
Research infrastructures  
Pilots, demonstrations, technology infrastructures





Contribution to roadmaps development



Faster development





## HEALTH

### PILLAR II- CLUSTER HEALTH

- Molecular medicine
- Research on innovative pesticides and nutrients
- Protein research
- NMR facility
- Analytical chemistry
- Computer based prediction tools for medicines



European  
Research  
Council



## ZERO-CARBON

### PILLAR II- CLUSTER CLIMATE, ENERGY & MOBILITY & RESILIENCE

- Hydrogen technology
- Advanced electrochemical techniques and electrocatalyst stability
- Biorefinery
- Multiscale modeling of materials and processes
- Chemical engineering
- Polymer chemistry including recycling



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