AMULET project and RAiD identifier

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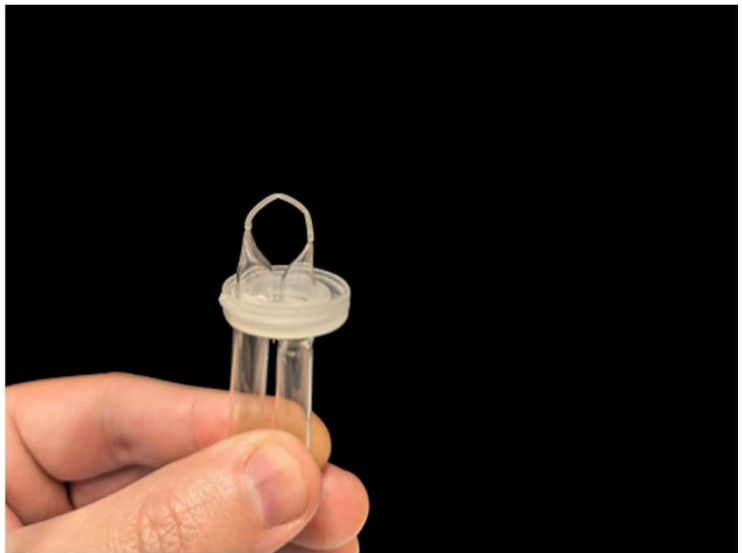
AMULET Project: About

OP JAK Excellent Research Call

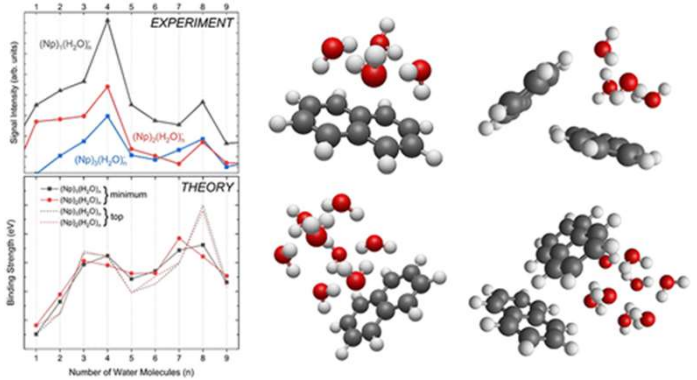
The AMULET project provides new materials and tools for the advancement of engineering of multiscale materials from subnanometer design to integration into functional architectures used in diverse applications, such as microelectronics, energetics, biomedical and environmental technologies and others. Socio-economic impact assessment is integral part of this project. By employing cross-disciplinary approach carried out by a world-class Czech teams and complemented by numerous international collaborations, the project contributes to EU competitiveness and excellence.



AMULET Project: About

Objectives of the project

- To develop new applications in medicine and bio/nanotechnology by studying the interaction of biomolecules with industrially relevant advanced materials
- Development and implementation of new sensing concepts and platforms using 2D materials
- Development and implementation of catalytic photo(electro)chemical and chemical heterogeneous processes in gas and liquid phase for the removal of toxic substances and conversion of selected raw materials into value-added products
- Development and implementation of hierarchical heterostructures and devices for flexible electronics, optoelectronics and mixed concepts for energy conversion and storage.



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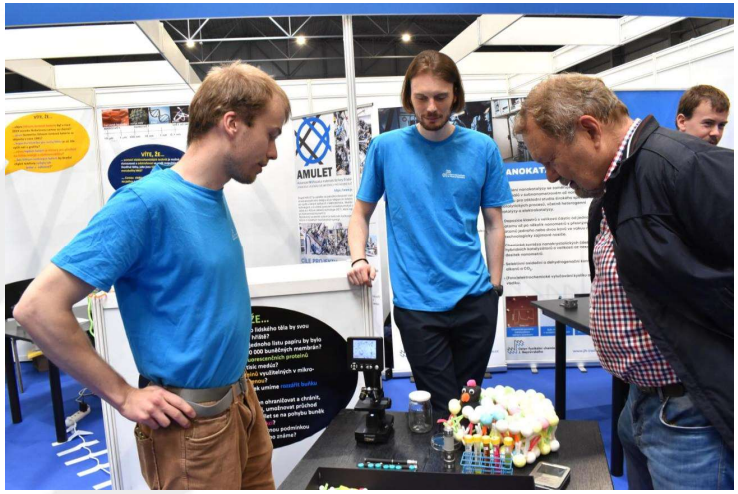
AMULET: Partners (> 20 laboratories, 145 scientists)

- Heyrovský Institute of the CAS
- University of Chemistry and Technology, Prague
- Charles University
- Institute of Organic Chemistry and Biochemistry of the CAS
- Institute of Physics of the CAS
- Nuclear Physics Institute of the CAS
- Institute of Photonics and Electronics of the CAS
- Faculty of Science of Jan Evangelista Purkyně University in Ústí nad Labem



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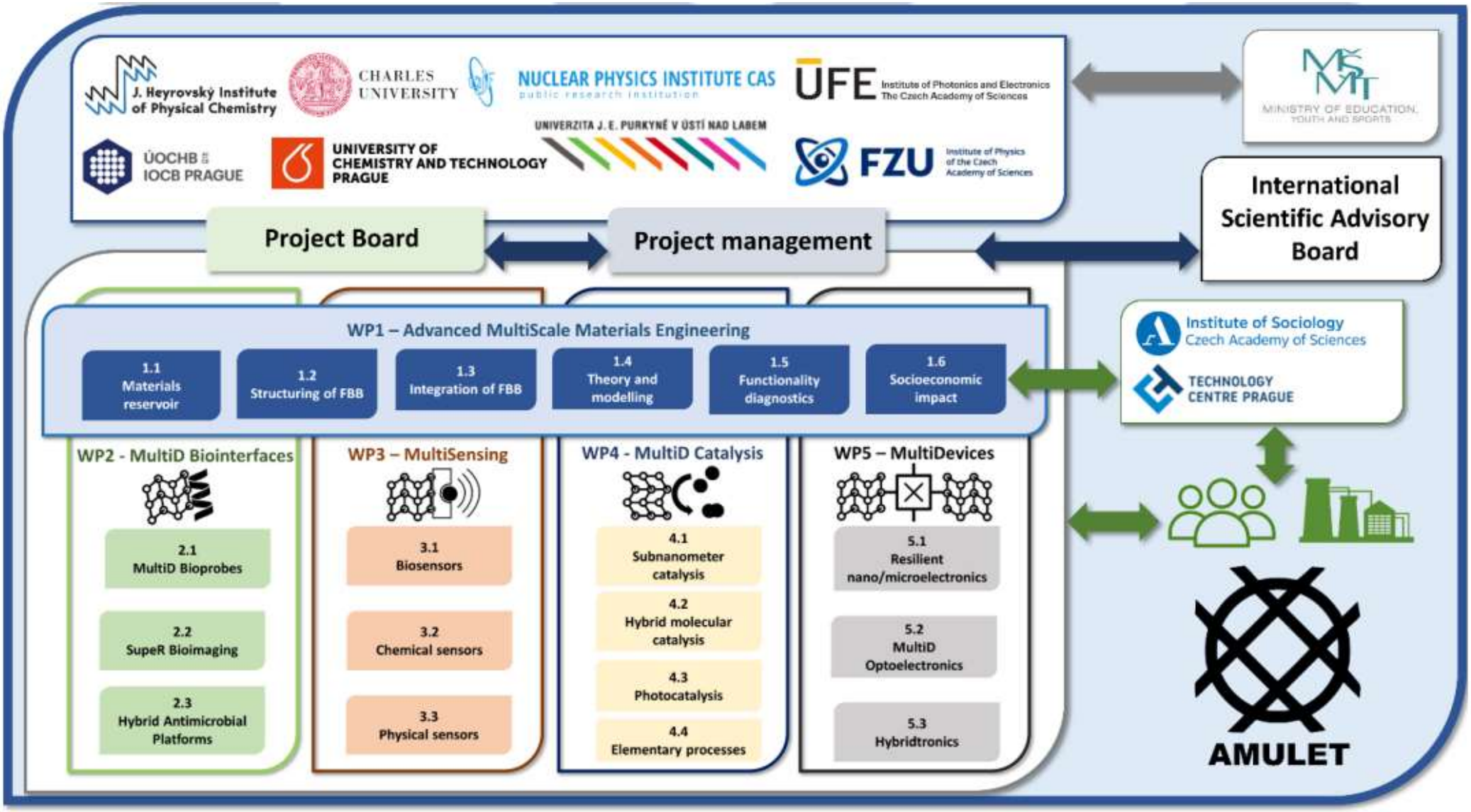
AMULET structure: Management, WPs and Tasks



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AMULET: results and outputs (Example: WP4)

Indicator 214 021 (Publications from supported projects)	23
Indicator 214 022 (Professional publications - letters, reviews, proceedings)	5
Indicator 214 026 (Number of publications published in the first quartile of the most influential journals in the field)	13
Indicator 214 027 (Professional publications (selected types of documents) in the first quartile of publications according to field-standardized citation rate)	13
Indicator 214 023 (Professional publications (selected types of documents) with foreign co-authorship created by supported entities)	8
Indicator 214 024 (Professional publications (selected types of documents) co-authored by research organisations and enterprises)	1
Indicator 214 031 (Other non-publication results)	
Indicator 214 001 (Patent applications filed)	1
Indicator 203 541 (Number of supported collaborations - R&D)	3

AMULET and RAiD

- Heyrovsky Institute started to use RAiD during its pilot phase for AMULET project.
- RAiD can help to keep comprehensive information about the project results and outputs.
- Challenge … everything is in the developmental stage.
- Challenge … manual upload of data
- Challenge … unclear governance

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Thank you for your attention.

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