

ASPIN

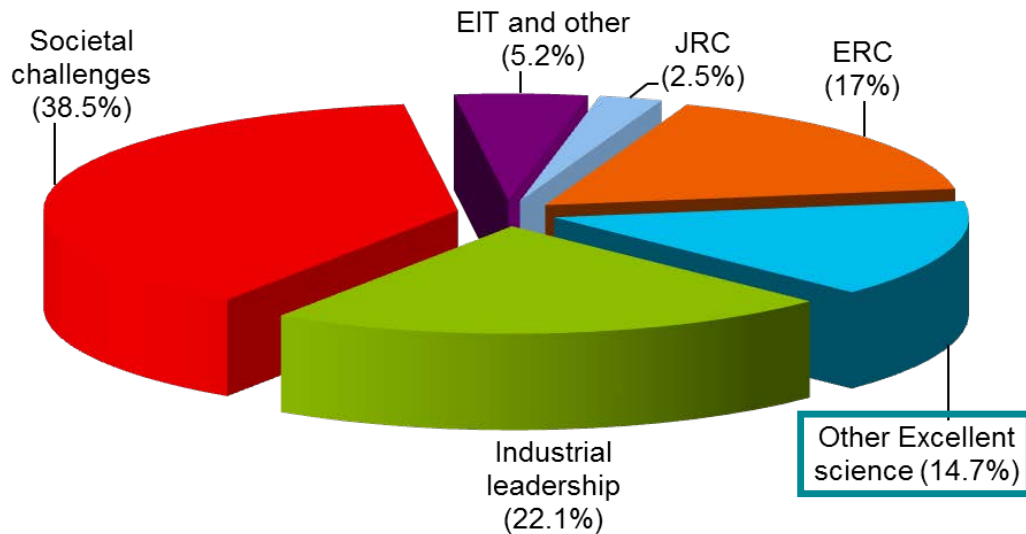
Horizon 2020 FET-Open Research and Innovation Actions
4 years, 4 MEUR, coordinator & 5 partners

Tomas Jungwirth

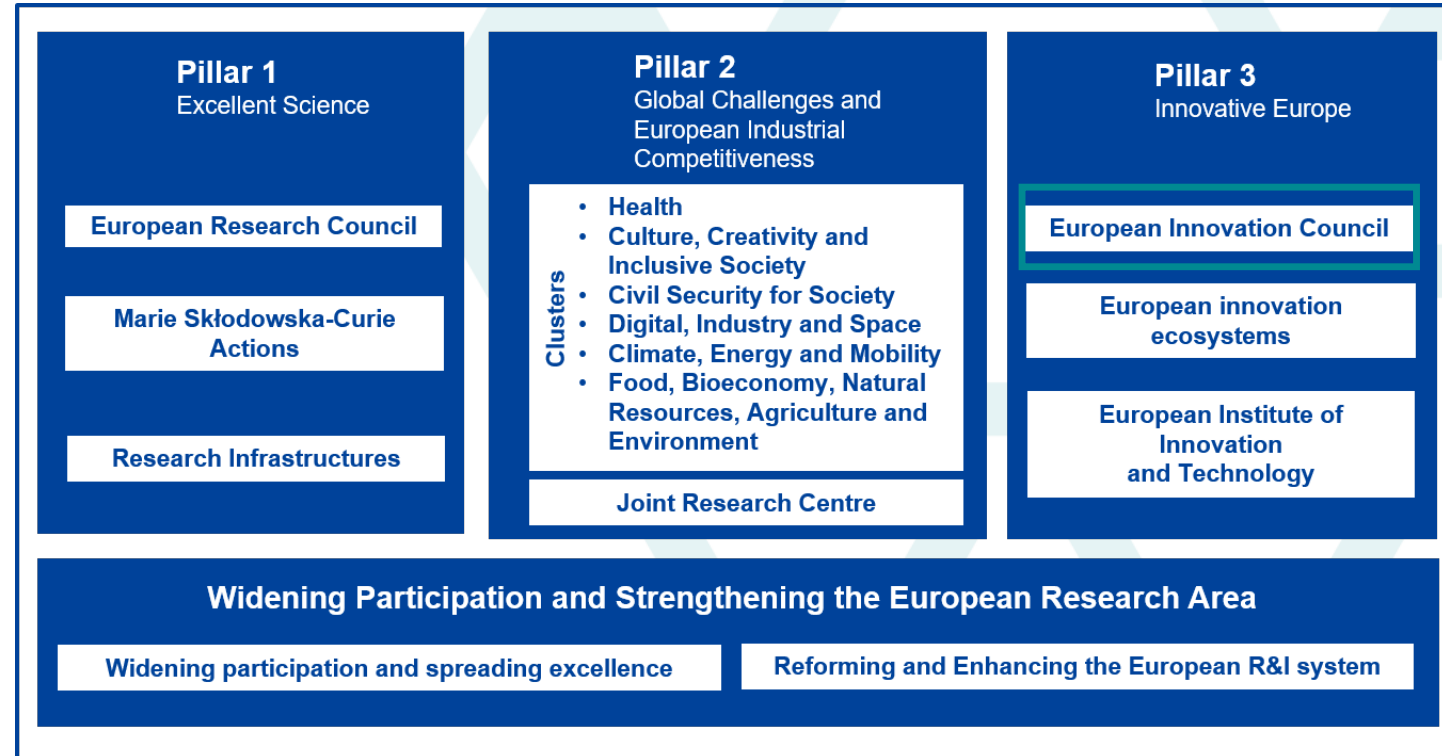
Grants Week, 12/10/2021

FET-Open in EU Framework Programmes

Horizon 2020



Horizon Europe



ERC Advanced & Synergy Grants, Member ERC Scientific Council

→ FET-Open because could not apply for ERC, but H2020 FET-Open success rate only in a few per cent range

Coordinator's interdisciplinary team in magneto-nano-electronics & optics



Dominik Kriegner

X-ray & electron microscopy



Kamil Olejnik

Nano-devices



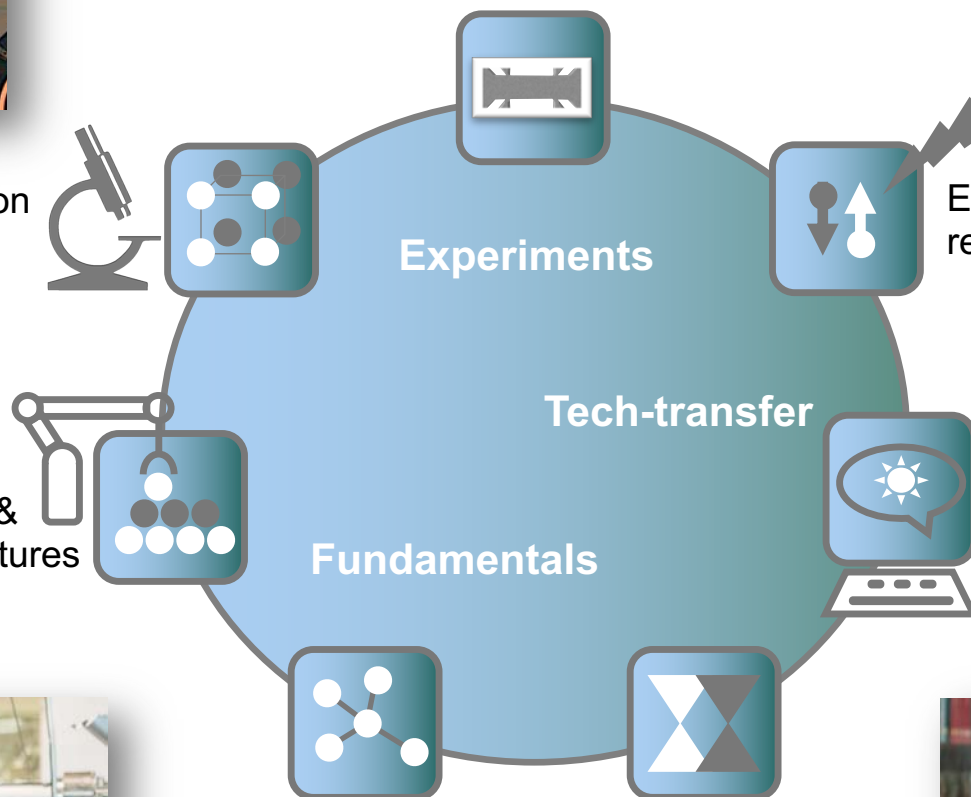
Helena Reichlova

Electrical & optical response



Vít Novák

Thin-films & nano-structures



Xavi Martí

IT, IoT & AI applications



Jakub Zelezny

Quantum material chemistry

Relativistic topological physics



Libor Smejkal



Division of Solid State Physics

Previous funding track-record of the coordinator

National



Excellence grants



MINISTRY OF EDUCATION,
YOUTH AND SPORTS

Large infrastructure grants

EU



Advanced grant, Synergy grant



Junior partner group grant




FP6, FP7, Horizon 2020

Private

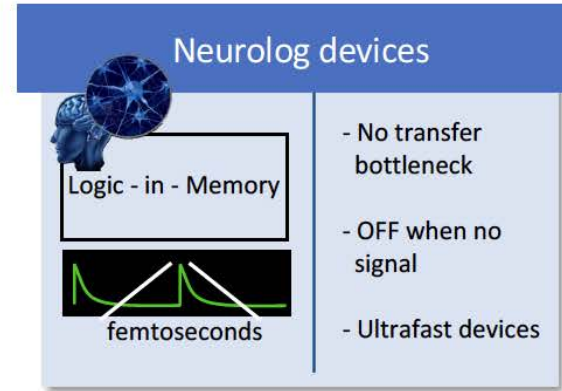
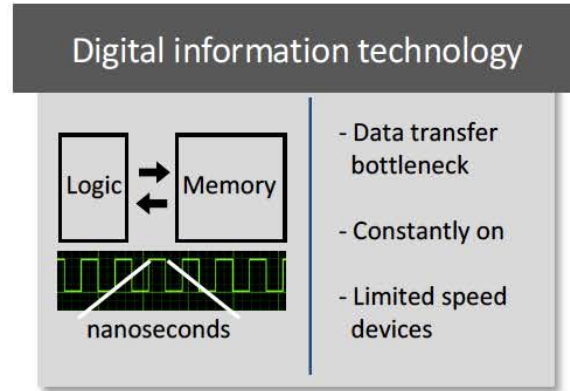
HITACHI EUROPE LIMITED

- Long-term (10+ years) collaboration agreement
- Direct financial support
- Joint IP protection (10 EU patents)

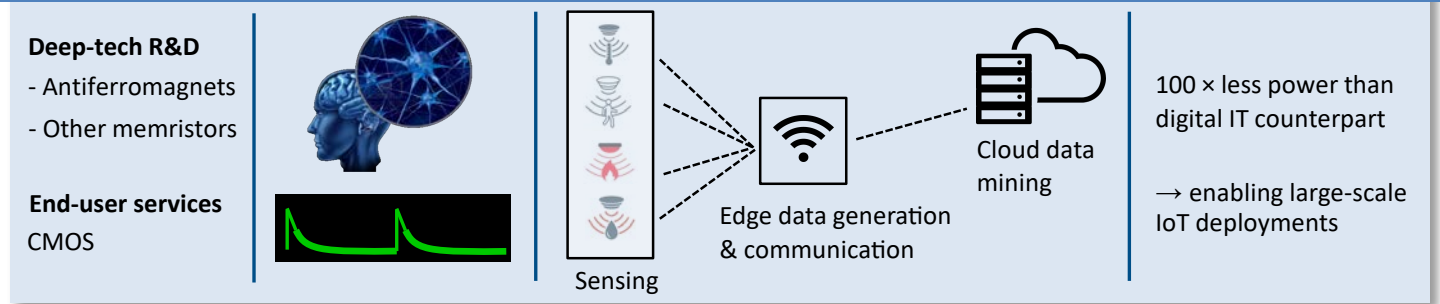
 Neuron Endowment Fund
Grant & Prize

ASPIN Project

From slow & digital to fast & neuromorphic IT devices based on new physical phenomena & materials & nano-devices



Neurolog IoT system platform for edge data generation & communication



Real-life pilots/business cases

- Green electricity
 - Water retention
 - Geo or man-caused earth-quake
-
- Traffic and lighting
- spin-off company

ASPIN Partners

Long-term joint senior appointments



UNIVERZITA KARLOVA



The University of
Nottingham

UNITED KINGDOM • CHINA • MALAYSIA



JOHANNES GUTENBERG
UNIVERSITÄT MAINZ



IGS research (SME)

Earlier joint research projects



FRITZ-HABER-INSTITUT
MAX-PLANCK-GESELLSCHAFT



MAX PLANCK INSTITUTE
of Microstructure Physics



MAX PLANCK INSTITUTE
FOR CHEMICAL PHYSICS OF SOLIDS



FZU

Institute of Physics
of the Czech
Academy of Sciences



Division of Solid
State Physics

Share of responsibilities

Coordinator:

- Wrote the project
- Drives research and tech-transfer activities towards project's objectives
- Prepares periodic technical reports

Partners:

- Contribute to project's research objectives, often with a critically important role
- Some partners strongly contribute to dissemination by, e.g., organizing workshops and conferences
- Prepare their financial reports and participate in review meetings
- Provide valuable administrative support (web-site, etc.)