#### **SINERGY** Project Presentation

#### Institute Mihajlo Pupin





# The SINERGY Project

> Project lifetime: Jan. 2021 – Dec. 2023

#### > Partners

- > IMP Institute Mihajlo Pupin, Serbia (Coordinator)
- AIT Austrian Institute of Technology GMBH
- > NUIG National University of Ireland Galway

#### > Long-term mission

- > Position the Institute Mihajlo Pupin (IMP) as one of the leading institutions in smart energy management in Southeast Europe, capable of driving the region towards meeting the 21st century challenges in the Energy sector
- Unlock IMP's research potential in domain of smart energy management and integrate into European Research Area (ERA)



# Motivation & Vision

- Strategic partnership and transfer of multidisciplinary "know-how" from leading EU research institutions
- Building research potential through the collaboration with the AIT and NUIG in domain of advanced smart grids and building operation efficiency, covering both energy supply and demand side







### Motivation & Vision

- Strengthen IMP's human resources, engage young researchers and enhance the networking channels with eminent researchers from abroad
- > Establish knowledge and technology transfer platform with necessary infrastructure and equipment:
  - > Two project pilot settings located in Vienna (Austria) and Galway (Ireland), and
  - > Testbed pilot in Belgrade (Serbia)





#### Knowledge & technology transfer platform

EnergyBase, TechBase (Vienna)



Alice Perry Engineering Building (Galway)



Institute Mihajlo Pupin (Belgrade)





# Project overall concept







- > OB1: Strategic Partnership Establishment and development of productive and fruitful longterm cooperation that continues after project completion.
- OB2: Reinforcement of scientific and technology excellence of the linked institutions in domain of Smart energy management.
- OB3: Cross-fertilization and aggregation of competences and experience related to the smart grid technologies and energy efficient building operation.
- > OB4: Organization of joint networking events for capacity building and spreading excellence throughout the widening country and the West Balkan/Southeast Europe region.
- OB5: Awareness raising and promotion of newly established Centre of Excellence serving as a regional "point of reference" for Smart energy management.
- OB6: Continuous assessment of the key-objectives achievement to ensure high quality of project results and defined cooperation strategy is followed.



# Verification means

OB1: Strategic Partnership OB2: Reinforcement of scientific and technology excellence

OBJ	Verification means & target metrics for OB1
1	<ul> <li>&gt; 2 strategic partners acquired (AIT and NUIG) and gained access to their rich partnership network</li> <li>&gt; A strategy for cooperation and expertise exchange adopted (mid- &amp; long-term)</li> <li>&gt; At least 12 joint peer-reviewed publications with strategic partners</li> <li>&gt; 6 joint HE project proposals prepared during SINERGY</li> </ul>
2	<ul> <li>&gt; 100% increased publication rate in domain</li> <li>&gt; 100% increased number of EU FP projects acquired (baseline: 1 in three years)</li> <li>&gt; 4 new PhD research topics (in related domain) pursued by IMP's researchers</li> <li>&gt; At least 6 short-term stays and 2 long-term placements of IMP researchers (at AIT and NUIG)</li> </ul>



# Verification means

OB<sub>3</sub>: Cross-fertilization and aggregation of competences OB<sub>4</sub>: Organization of joint networking events

OBJ	Verification means & target metrics for OB1
3	<ul> <li>100% increased number of high-impact industrial projects (baseline: 4 in three years)</li> <li>Delivery of at least 6 innovative services/products</li> <li>At least 3 regional meetings (with research institutions and industrial partners)</li> </ul>
4	<ul> <li>Organization of 3 SINERGY workshops and 1 international conference</li> <li>At least 6 expert group meetings (with strategic partners)</li> <li>Organized sessions in at least 3 external events (conferences &amp; workshops)</li> </ul>



# Verification means

OB<sub>5</sub>: Awareness raising and promotion of newly established Centre of Excellence OB<sub>6</sub>: Continuous assessment of the key-objectives achievement

OBJ	Verification means & target metrics for OB1
5	<ul> <li>At least 1 press release every year, 2 TV appearances, min. 500 project brochures distributed, at least 50 Web portal hits per day in average</li> <li>At least 3 regional meetings (with research institutions and industrial partners)</li> <li>A repository of relevant regional stakeholders (via Web portal provided in English and all regional languages)</li> </ul>
6	<ul> <li>Perform self-assessment and quality control two times per year, and at all the milestones</li> </ul>



#### Building upon LAMBDA (Pr. No: 809965)

- > LAMBDA aims to define the scientific strategy for stepping up and stimulating the scientific excellence and innovation capacity, while increasing the research capacities and unlocking the research potential of IMP in domain of Open Data and Big Data technologies.
  - Having in mind an increased availability of energy data and smart metering, the Big Data analytics are taking the crucial role in delivery of customer-tailored energy services.
- With a clear focus on application aspects of Open Data and Big Data technologies in different domains, while one of them being the energy sector, LAMBDA provides a foundation, in terms of both the scientific and networking results, for SINERGY to build upon.



### Work Plan (Pert chart)









https://project-sinergy.org/

#### Thank You for Your Attention !

Institute Mihajlo Pupin

