



# SINERGY Project Presentation

Institute Mihajlo Pupin





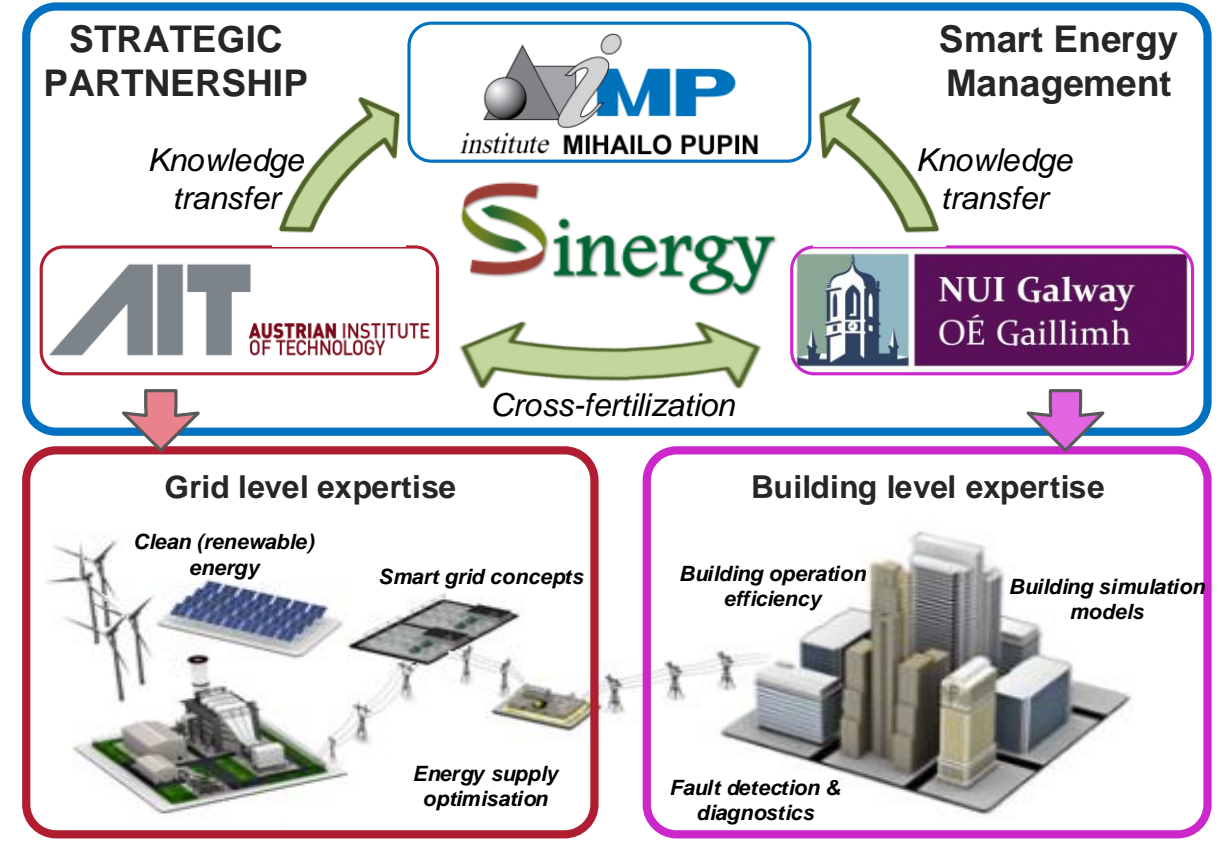
# The SINERGY Project

- › **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





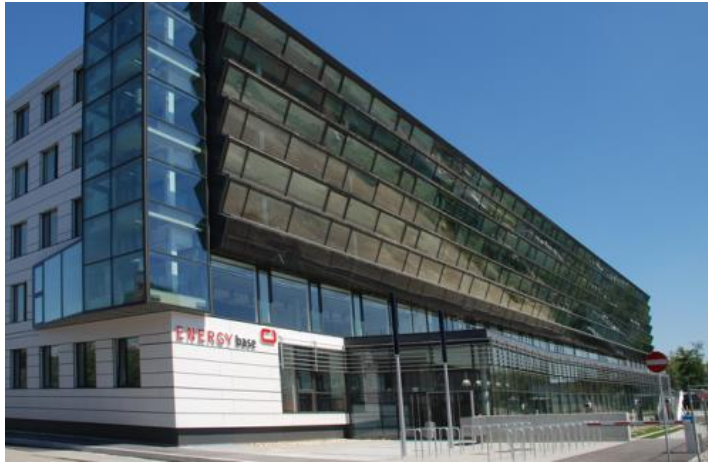
# Motivation & Vision

- › **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)

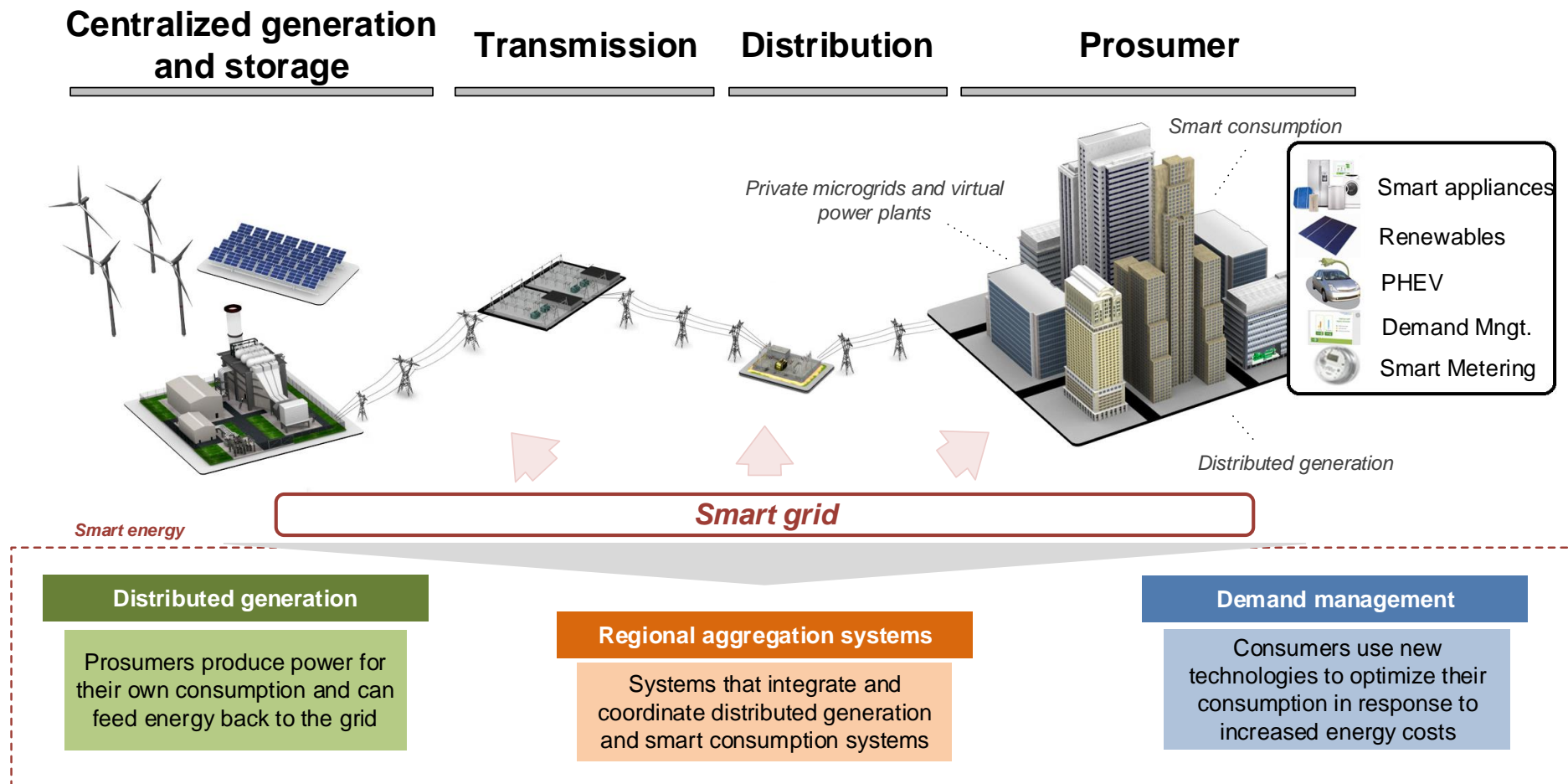


Institute Mihajlo Pupin  
(Belgrade)





# Project overall concept





# Objectives

- › **OB1: Strategic Partnership** - Establishment and development of productive and fruitful long-term 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 style="list-style-type: none"><li>› <b>2 strategic partners</b> acquired (AIT and NUIG) and gained access to their rich partnership network</li><li>› <b>A strategy for cooperation</b> and expertise exchange adopted (mid- &amp; long-term)</li><li>› At least <b>12 joint peer-reviewed publications</b> with strategic partners</li><li>› <b>6 joint HE project proposals</b> prepared during SINERGY</li></ul>
2	<ul style="list-style-type: none"><li>› <b>100% increased publication</b> rate in domain</li><li>› <b>100% increased number of EU FP projects</b> acquired (baseline: 1 in three years)</li><li>› <b>4 new PhD research topics</b> (in related domain) pursued by IMP's researchers</li><li>› At least <b>6 short-term stays</b> and <b>2 long-term placements</b> of IMP researchers (at AIT and NUIG)</li></ul>





# Verification means

OB3: Cross-fertilization and aggregation of competences

OB4: Organization of joint networking events

OBJ	Verification means & target metrics for OB1
3	<ul style="list-style-type: none"><li>› <b>100% increased number of high-impact industrial projects</b> (baseline: 4 in three years)</li><li>› Delivery of at least <b>6 innovative services/products</b></li><li>› At least <b>3 regional meetings</b> (with research institutions and industrial partners)</li></ul>
4	<ul style="list-style-type: none"><li>› Organization of <b>3 SINERGY workshops</b> and <b>1 international conference</b></li><li>› At least <b>6 expert group meetings</b> (with strategic partners)</li><li>› Organized <b>sessions in at least 3 external events</b> (conferences &amp; workshops)</li></ul>



# Verification means

OB5: Awareness raising and promotion of newly established Centre of Excellence

OB6: Continuous assessment of the key-objectives achievement

OBJ	Verification means & target metrics for OB1
5	<ul style="list-style-type: none"><li>› At least <b>1 press release every year, 2 TV appearances, min. 500 project brochures</b> distributed, at least 50 Web portal hits per day in average</li><li>› At least <b>3 regional meetings</b> (with research institutions and industrial partners)</li><li>› <b>A repository of relevant regional stakeholders</b> (via Web portal provided in English and all regional languages)</li></ul>
6	<ul style="list-style-type: none"><li>› Perform <b>self-assessment and quality control two times per year</b>, and at all the milestones</li></ul>

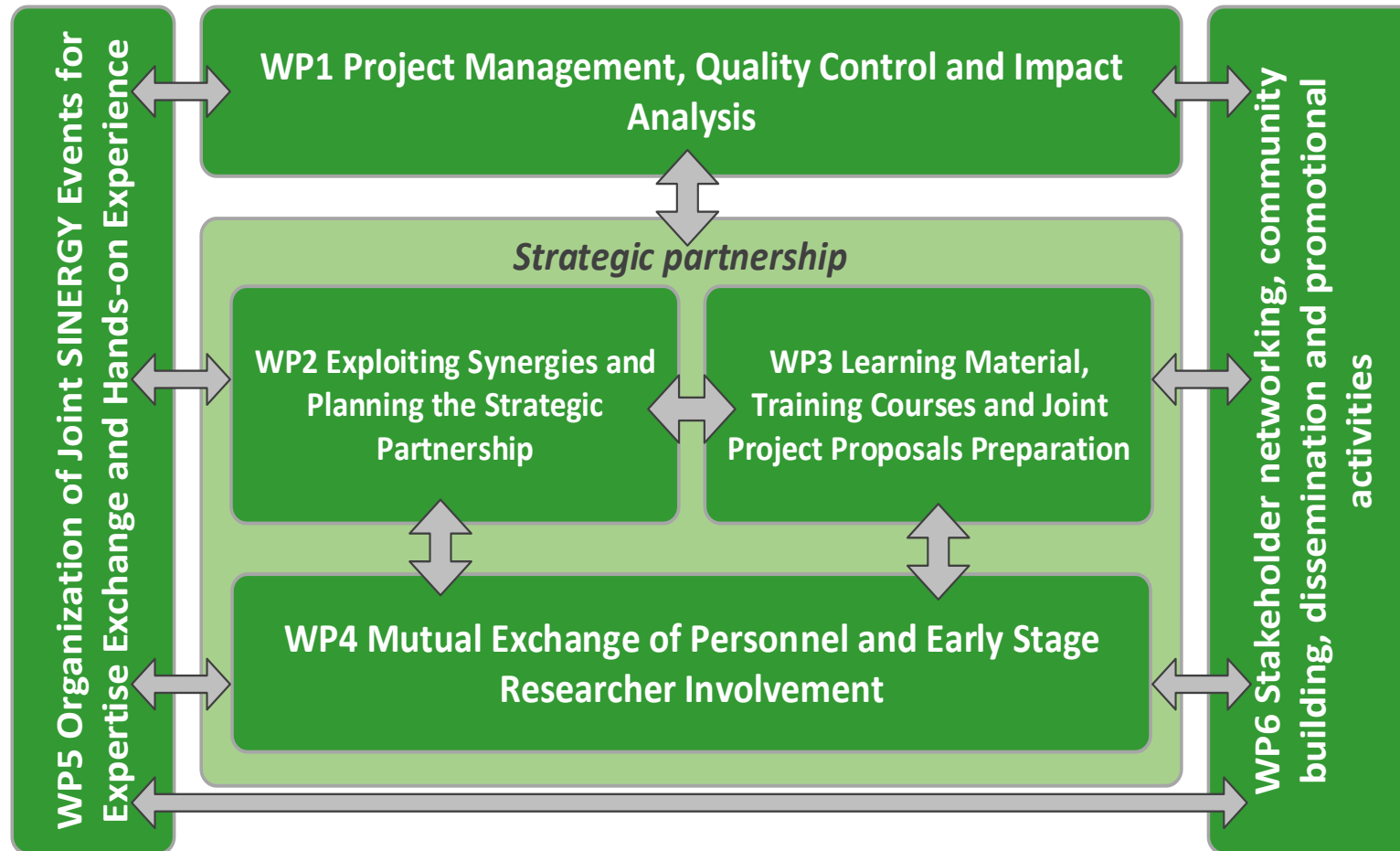


# Building upon LAMBDA (Pr. No: 809965)

- › 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