



The Smartpolis Project



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The 4th Hungarian Future Internet Conference and Smart City Exhibition
08-09/11/2017, Budapest, Hungary



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- **EU- H2020 WIDESPREAD Teaming call**
 - Two phase proposal
 - The only participant in the Second phase 2018 from Hungary
 - Establish a regional center of excellence for smart cities
- **Typical teaming project**
 - Works as joint venture with a long term horizon of cooperation
 - Involves two core parties
 - Institutions of research and innovation excellence
 - **Fraunhofer Fokus**
 - **the urban institute**
 - Participant organisations from a lower performing Member State
 - **Budapest University of Technology and Economics (BME)**
 - **Hungarian Intellectual Property Office (HIPO)**

- **Fraunhofer Fokus & the urban institute UI**
 - support the Eastern partners with their know-how, expertise in launching & operating R&D institutions, centers of excellences,
 - provide their best practices, benchmarks,
 - share partner relationships
- **Hungarian Intellectual Property Office HIPO (consortium leader) & Budapest University of Technology and Economics BME**
 - establish a center of excellence
 - accumulate & further improve the knowledge



- **Overall goal:**

- Establish the Budapest Centre of Excellence for Smart Cities**

- TO

- strengthen the research and innovation capabilities of BME
- become an incubator of smart city concepts and solutions in the region

- BY

- knowledge transfer from the Western partners
- available knowledge at the Eastern partners

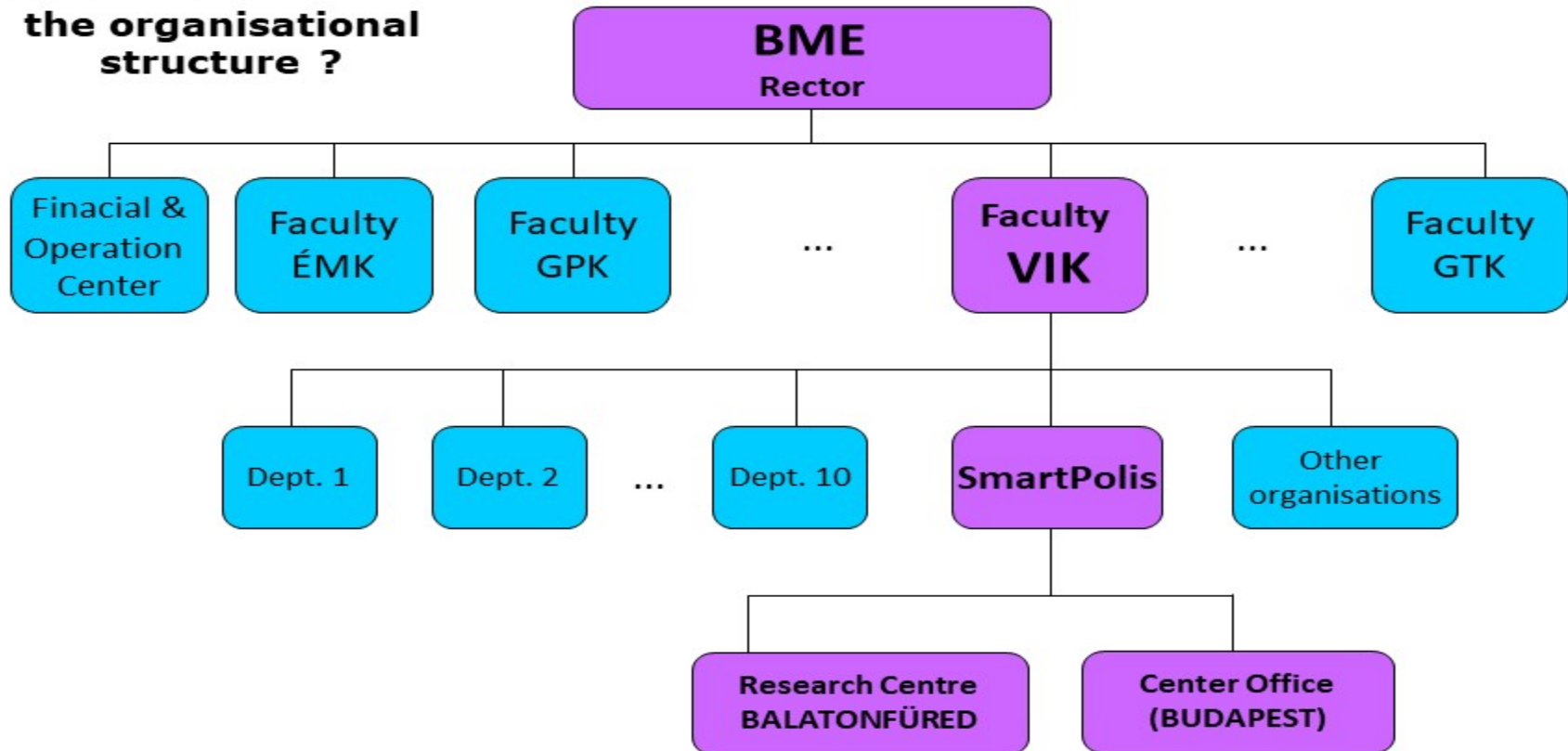
- **Create a CEE regional network**
 - 2-3 partners in Hungary and
 - 1-1 partners in the countries of the CEE region.
- **Manage the knowledge transfer from the western consortium partners**
- **Establish industrial cooperations**
- **Focus on European Innovation Partnership (EIP)**
- **Increase CEE region scientific capabilities**
- **Accelerate Smart City activities**
- **Deliver advisory & implementation services**
- **Provide education & training**
- **Achieve high level of international visibility**

SmartPolis Knowledge Centre (SmartPolis BME)

- Set up in 2017
- **Main tasks**
 - preparation of the second phase proposal and the successful submission by November 2018
 - setting up of the national the regional smart city network
 - coordination of the Smart City research and development activities at faculty and university level
 - stimulation of the Smart City (smart solutions) research and development activities
 - supporting education and training activities of BME related to smart city topics
- SmartPolis BME operates as a R&D service centre.

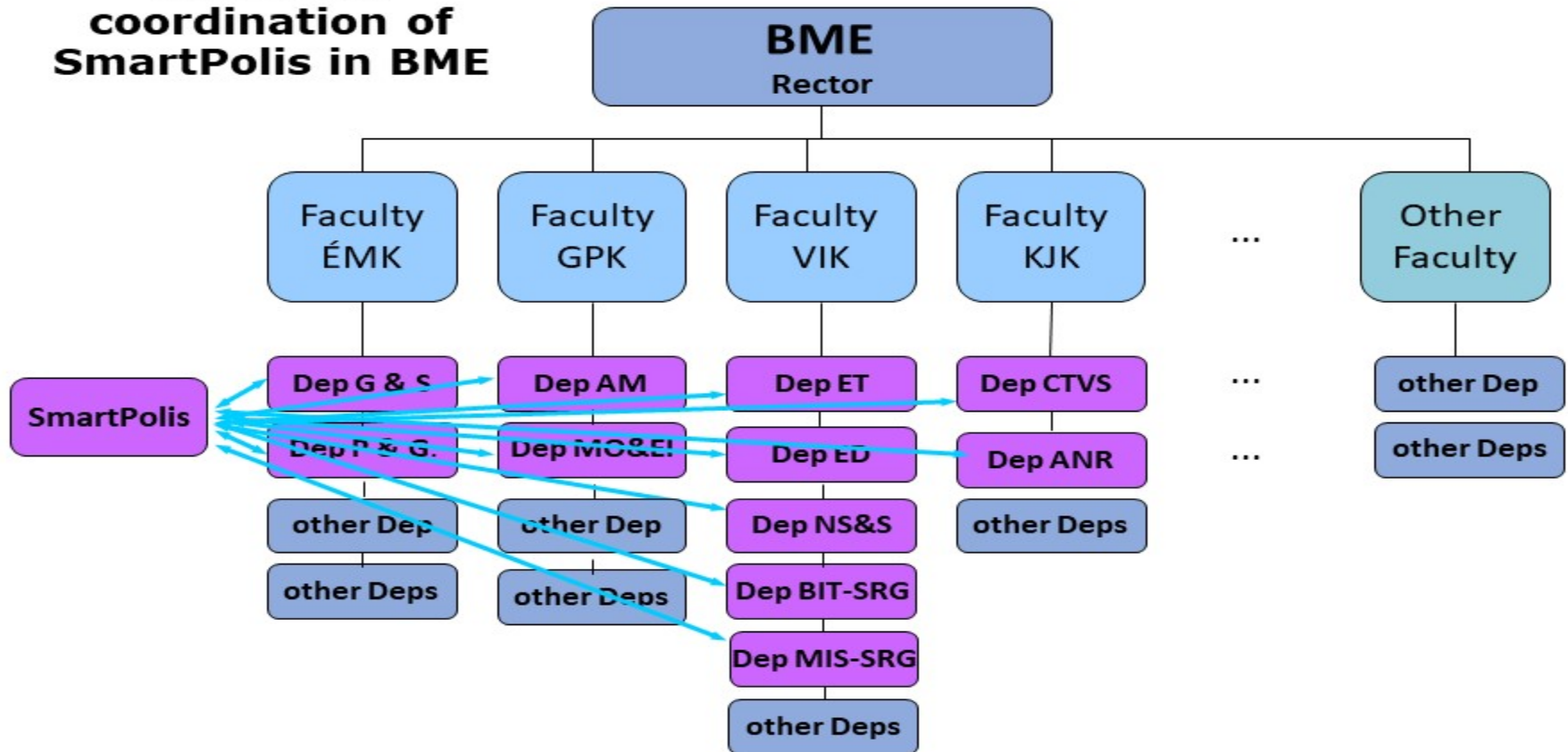
SmartPolis BME

Where is it situated in the organisational structure ?



SmartPolis BME

Horizontal coordination of SmartPolis in BME



Smart City Forum for Central & Eastern European (CEE) Countries

- Established in 2016 at BME
- Members
 - More than 20 organizations from 8 countries
- Main goal
 - Help closing the gap between the developed and the CEE regions
- Main activities
 - Introduce the results and the challenges of the region to the EIP
 - Help the transfer of the best practices
 - Collect and provide information on the state of the art smart city solutions of the region
 - Help to find partners for the H2020 calls
 - Give information on the technical innovations and their market
 - Provide information about conferences, seminars, workshops etc.

• Participating in different research projects

- **RECAR** - Research Center for Autonomous Road Vehicles project (from 2017)
 - research program for autonomous road vehicles – included Hungarian test track
 - led by Dep. of Automobiles and Vehicle Manufacturing of the Faculty of Transportation and Vehicle Engineering of BME
 - our role: leading the Smart City Working Sub-Group.
- **FedKom** - On-board device and communication system project (from 2016)
 - development of eCall on-board device and communication system that can be retrofitted to motor vehicles
 - the aim of the European eCALL system is to reduce the number of accidents with fatalities and serious injuries.

- **Establish Smart City Forum (in 2014)**
 - Members
 - municipalities and their associations , companies and universities
 - Main activities
 - forum for the dialogue between municipalities and companies
 - promote successful biddings and project implementations
 - discuss on Smart City concepts, plans and practises
- **Education and training activities**
 - Cooperation with National University of Public Services (NKE) Budapest
- **Elaboration of the strategies for small cities**
- **Industrial cooperation with multinational companies**
- **Consultancy**

4. Current activities

- Initiatives -

„V4 Countries Smart City Forum”

- Similar to **6-Nations (FR,SP,NL,AU,GE,UK) Smart Cities Forum**

Potential V4 projects (?proposed during the Hungarian Presidency)

- **Smart City Index**

- Self evaluation possibilities for the cities
- Identify the key development areas and Smart City projects
- Analysis of the effect of smart city projects
 - Made by EY – Czech Republic; Operated by SmartPolis BME,

- **Small Smart City Modell – for small cities**

- The model is the EIP Small Giant project
 - We elaborated a strategy and imp. process for the city Kiskőrös
 - The objective is to work out it as a pilot project
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Thank you for your attention!

Information: <http://smartpolis.eit.bme.hu>