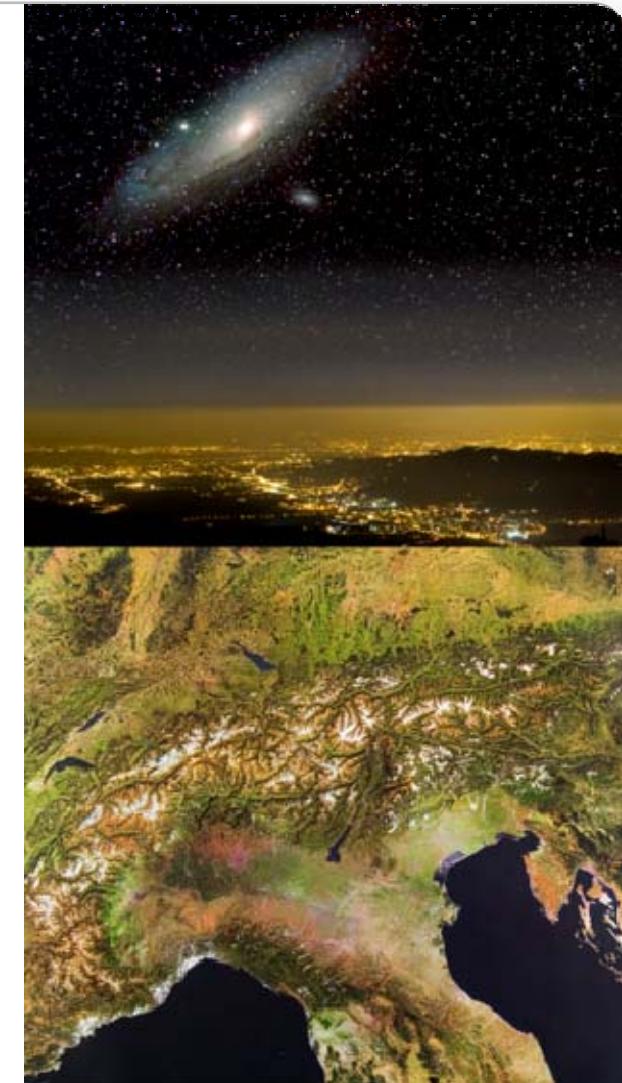


SMART CITIES: AUSTRIAN AND EUROPEAN APPROACHES IN R&D FUNDING

Johannes Bockstefl

*Deputy team leader Energy &
Sustainability, Thematic Programmes,
FFG*

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OVERVIEW

- The Austrian „Smart Cities Demo“ programme
- Accompanying R&D in Austria: „City of Tomorrow“ and predecessors
- Smart Cities in calls of the European Commission
- The Joint Programming Initiative (JPI) Urban Europe

SMART CITIES IN AUSTRIAN R&D POLICY: „SMART CITIES DEMO“ AS STARTING POINT



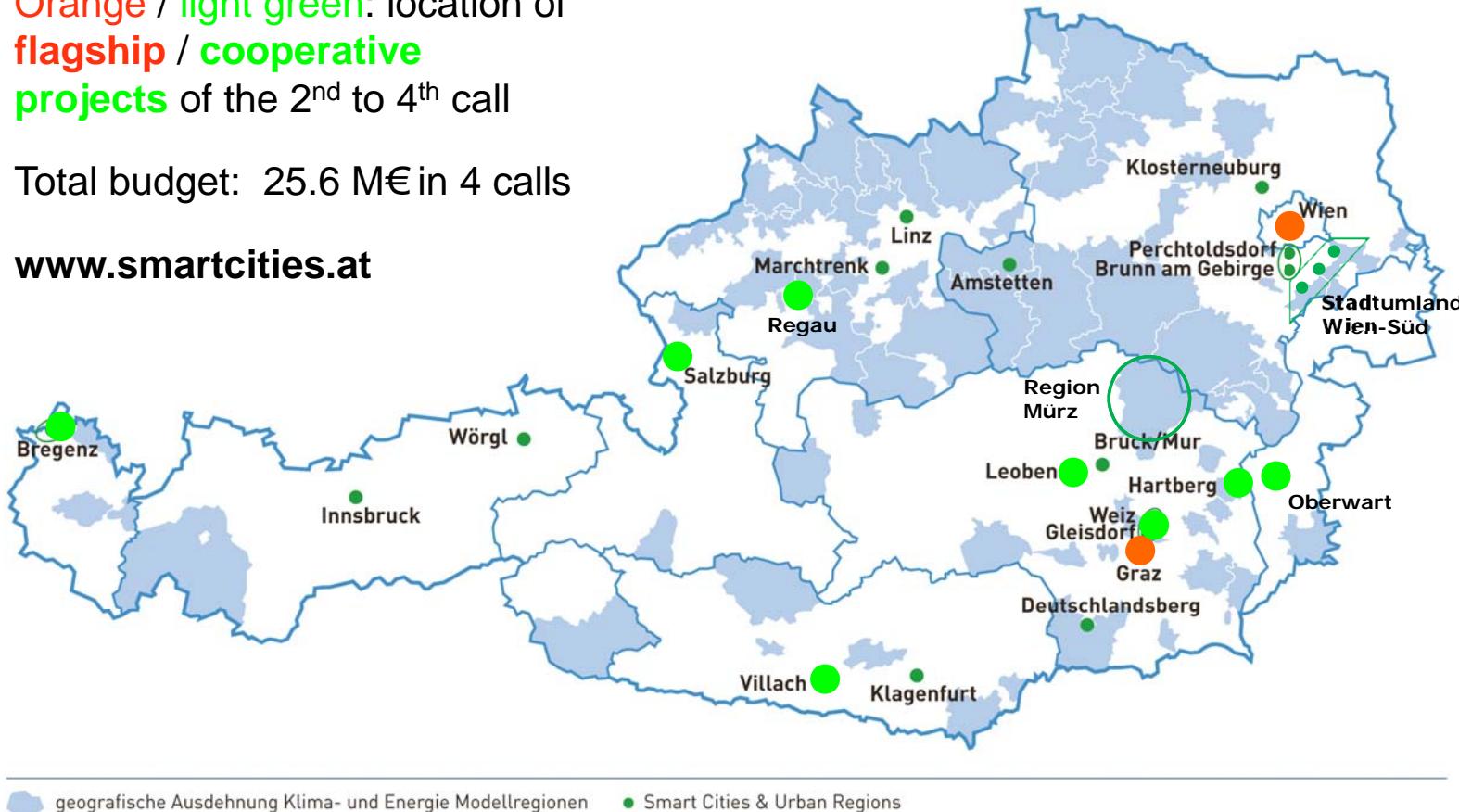
- **2010 start of the Smart Cities initiative** („Smart Cities Demo“) of the Austrian Climate and Energy Fund
- **Vision:** first implementation of a „smart city“ or „smart urban region“, i.e. a district or urban quarter, a residential area or an urban region which, with the use of intelligent, green technologies, will become a „zero emission city“ or „zero emission urban region“
- **Integrated and system-optimizing approach:** cross-system issues in the fields of buildings, energy grids, supply and disposal, mobility, communication and information
- **Demonstration or preparative initial projects**

SMART CITIES-PROJECTS OF THE FIRST FOUR CALLS (2010-2013)

Orange / light green: location of
flagship / cooperative
projects of the 2nd to 4th call

Total budget: 25.6 M€ in 4 calls

www.smartcities.at



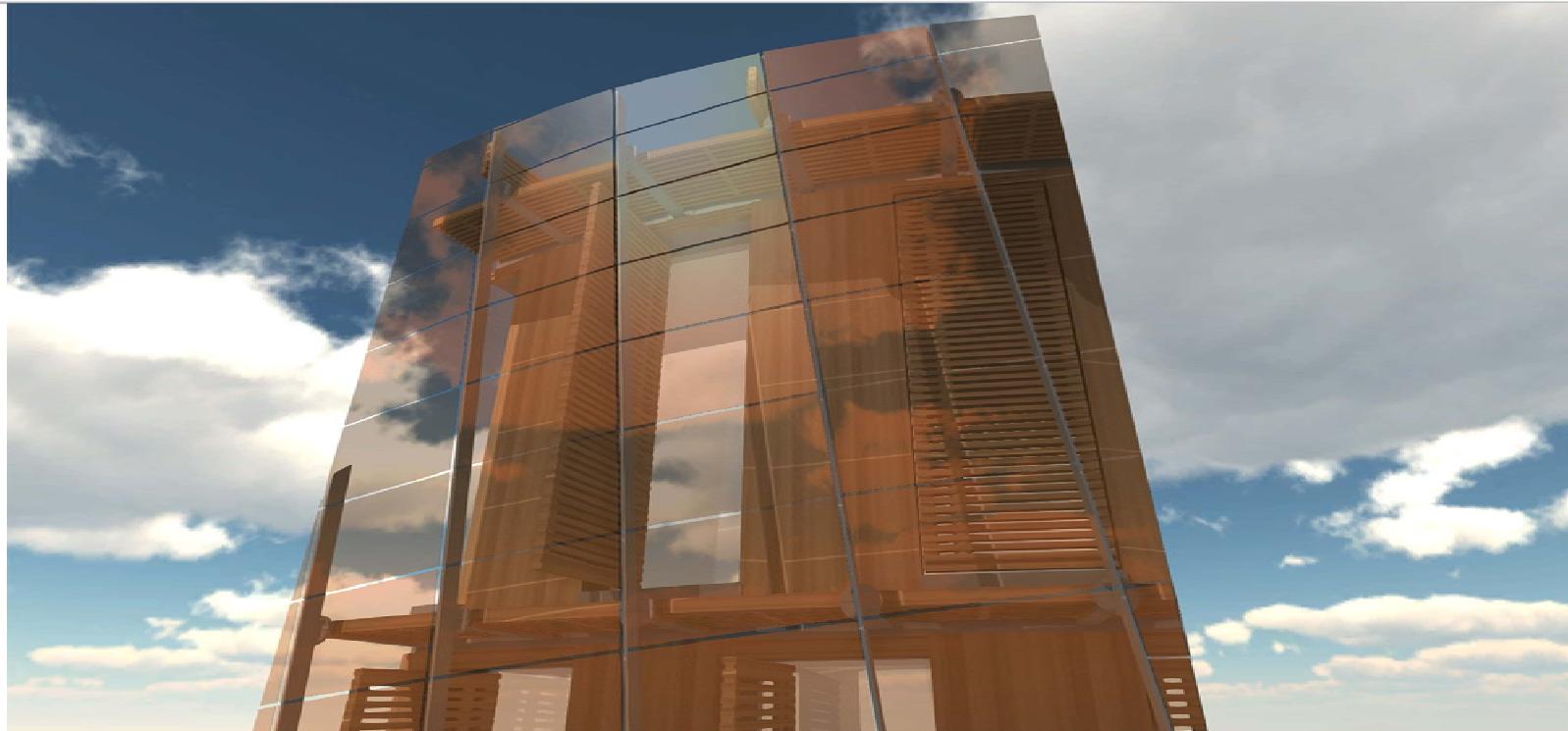
EXAMPLE I: SMART CITIES DEMO ASPERN / VIENNA



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New development of 240 ha: integration of renewable energy sources into energy networks – 200 flats, primary school, kindergarten and students' home as testbed: new concepts of user involvement and energy management

EXAMPLE II: SMART CITY PROJECT GRAZ-MITTE



New mixed-use urban quarter near the main railway station – integrated planning process and demonstration of new technology components like façade-integrated photovoltaic components etc.

EXAMPLE III: M-SWITCH BRUCK / STYRIA



© City of Bruck/Mur

Development of **innovative mobility solutions and new mobility services for employees of industrial companies** – improved information, booking and payment systems

ACCOMPANYING R&D: „CITY OF TOMORROW“ AND PREDECESSORS



- **1999-2013: Programme „Building of Tomorrow (Plus)“ („Haus der Zukunft [Plus]“):**
 > 400 projects, first flagship projects
- Since 2003 funding of R&D projects in the field of **Smart Grids**
- **Since 2013: New Austrian R&D programme „City of Tomorrow: Intelligent energy solutions for buildings and cities“ („Stadt der Zukunft“):**
 - System design and urban services
 - Built infrastructure
 - Technologies for urban energy systems24 projects funded within the 1st call

SMART CITIES IN CALLS OF THE EUROPEAN COMMISSION



- First call on „**Smart Cities and Communities**“ in **2012** within FP7
- Within Horizon 2020: **Call SCC-01-2015:**
„**Smart Cities and Communities solutions**“ integrating energy, transport, ICT sectors through lighthouse (large scale demonstration – first of the kind) projects”
Call budget: 108 M€

THE JOINT PROGRAMMING INITIATIVE (JPI) „URBAN EUROPE“



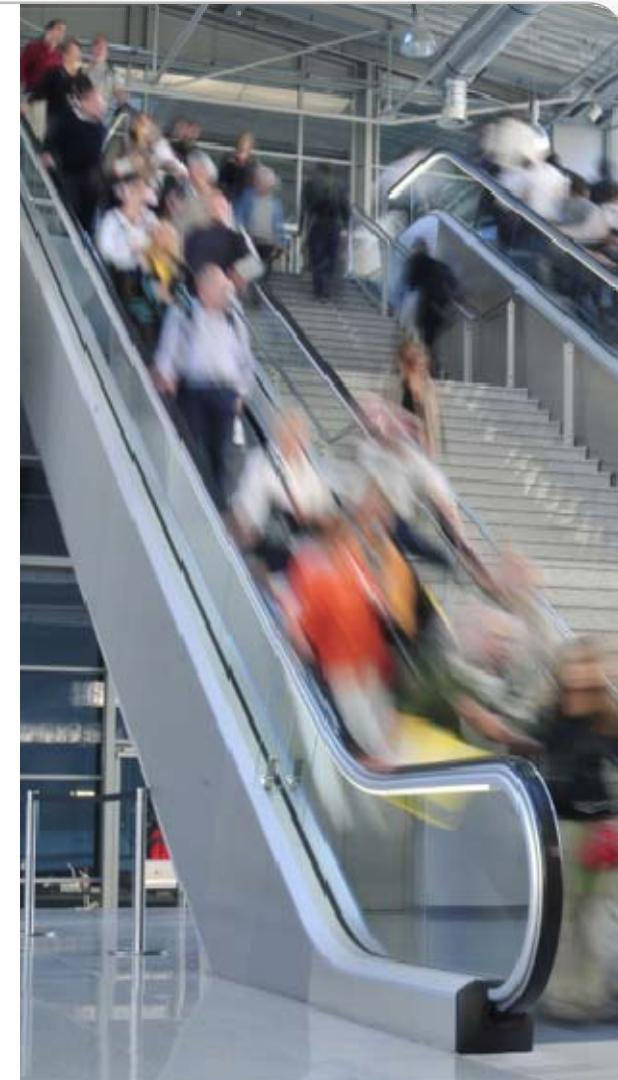
- **2 calls 2012 and 2013**
- **10 participating countries:** AT, BE, CY, DK, I, NE, NO, SE, TK, UK (+ FI in the 1st call)
- **20 projects**, funding of 18.2 M€
- **Topics:**
 - Urban diversity and social cohesion
 - Urban systems and networks
 - Governance of urban complexity
 - Urban vulnerability, adaptability, and resilience
- Planned next call within an **ERA-NET Cofund „Smart Cities and Communities“ (ENSCC)**

PROJECT EXAMPLES JPI URBAN EUROPE



- **Green Blue Cities** (1st call, AT/NL/SE): Management of urban peak rainwater, using a Living Lab approach
- **UrbanData2Decide** (2nd call, AT/DK/SE/UK): Modern decision support solution for city governments combining social media content and open data libraries and using data mining, sentiment analysis and visualization techniques

www.jpi-urbaneurope.eu





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