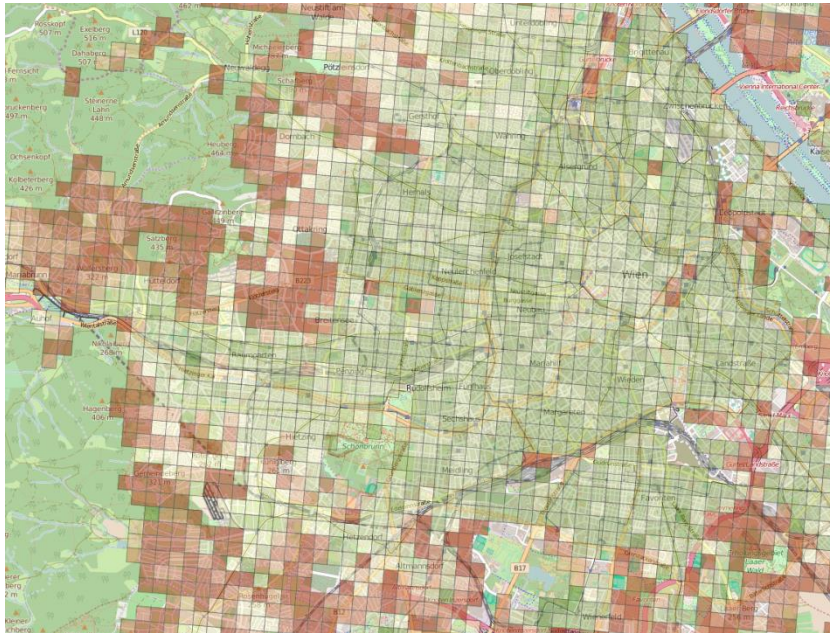# SET-Plan consultation
Initiative for Smart Cities and Communities
& the role of Universities

3rd UNI-SET Energy Clustering Event (ECE), Bucharest, 21st – 23rd of November 2016
by Hartmut Dumke, Vienna University of Technology

Report structure

- The SET-Plan document "Smart Cities and Communities" *before* and *after* the editing
- The socio-technical-spatial bridging: Some research examples
- Conclusions on the role of Universities + Discussion questions

Editors: KA 3 and 4 Smart Cities and Communities

- Hartmut Dumke, TU Wien (reporter), hartmut.dumke@tuwien.ac.at
- Amineh Ghorbani, TU Delft (group coordinator), A.Ghorbani@tudelft.nl
- Martijn Groenleer, Tilburg University (group coordinator), M.L.P.Groenleer@uvt.nl

Draft vs. final version

Topic/content	draft	final
Urban areas consume ~70% of energy	• De-carbonization of transport	• Successful bottom-up climate mitigation by „active energy communities"; • Enlarging the spatial (planning) level on the regional level, esp. for ren. Energy production; clearer and sharper diagnosis of the problems is needed.
QOL improvement	Accelerate market rollout of innovative solutions (energy, ICT, transport) by cross-sectoral actors' cooperation, focus on replicable benefits	• Energy transition = Integration of social innovation WITH technological progress; • precise understanding of added value from different perspectives is needed; • More social orientation instead of „only" technological criteria

Draft vs. final version

Topic/content	draft	final
Buildings	Reliable, cost-effective, all-inclusive refurbishment packages	Incorporation of the „social dimension" helps to built or reconstruct livable, multi-functional spatial patterns
Spatial scopes	Smart solution for Households, buildings, districts, cities	• „Energy governance" to identify appropriate system borders (technical-quantitative AND social-qualitative); • Term "Smart cities and regions" (and their communities);
Positive Energy Blocks	Goal: >100 till 2025	• More ambition also for converting existing structures (they cover >90% of all settlement areas); • Higher number of PEB's, plus spatial and social criteria where and when to locate them; • Survey also other „Community energy systems"

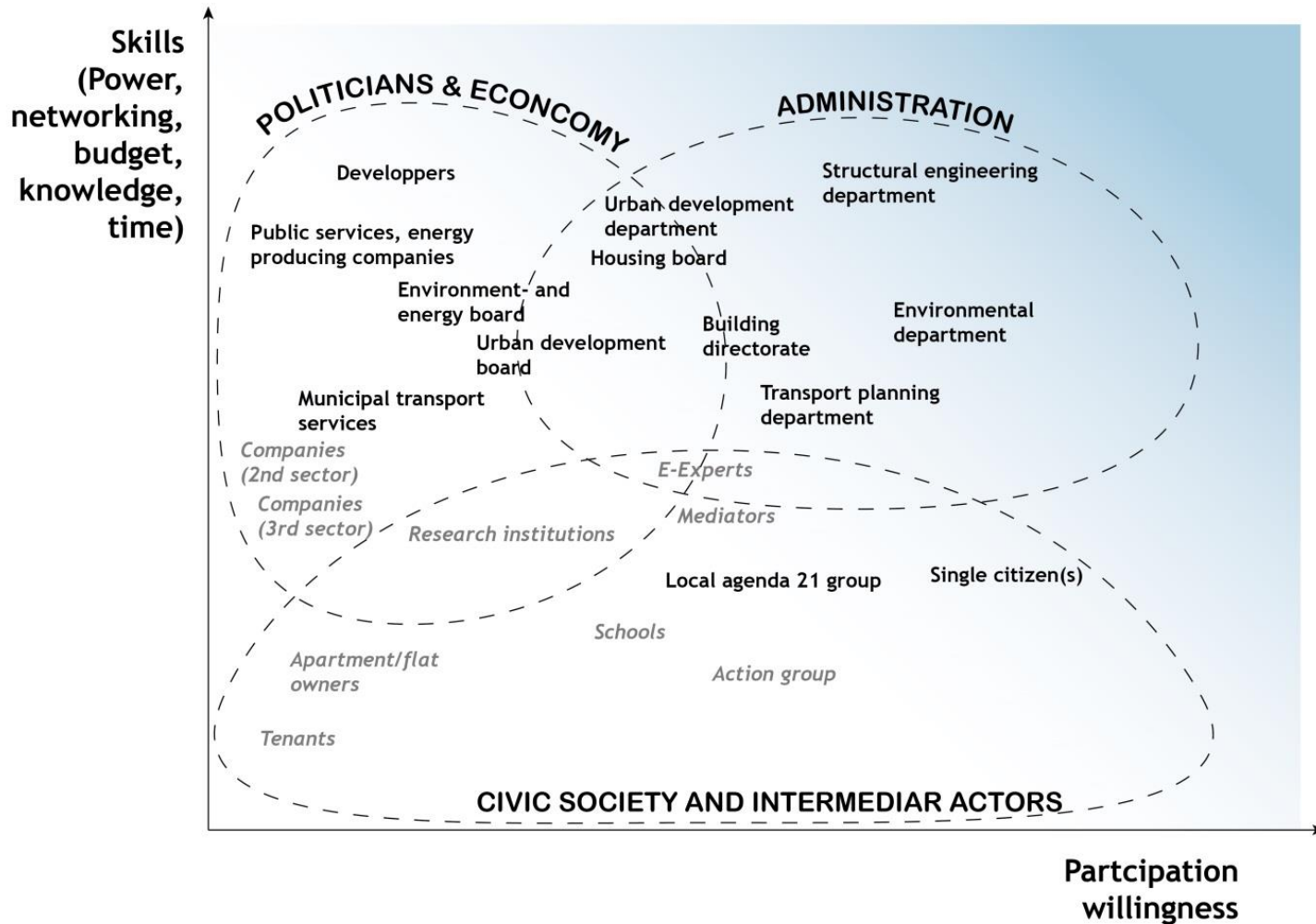# Visual 1: A "smart Region" and its agglomerational scale
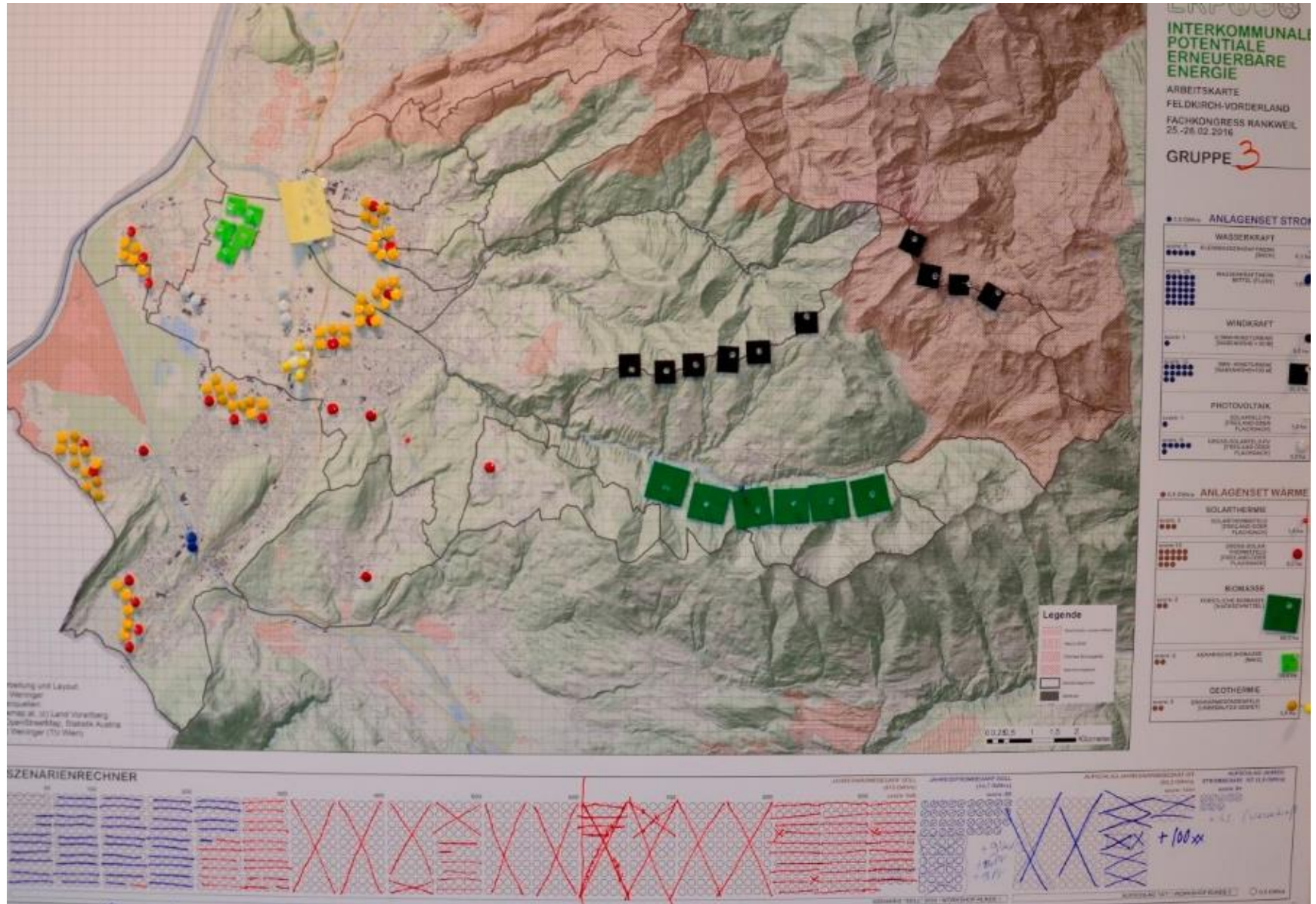
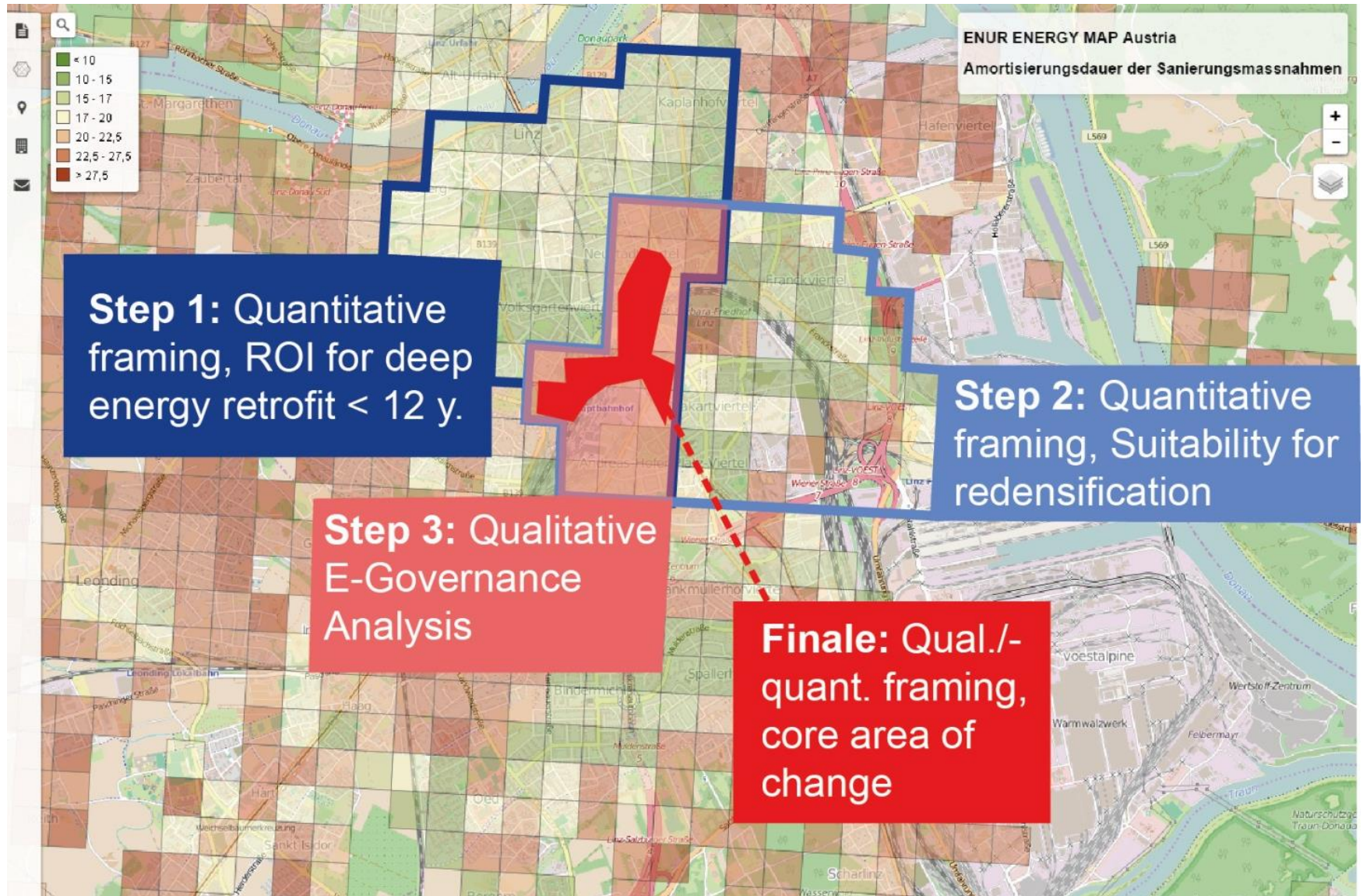# Visual 2: Who currently "does" (or not) the smart planning?

Status quo position of actors involved in E-Governance, between skills and willingness

Black letters: Active, frequent participation, position rather allocable
Grey letters: Rather passive, rare participation, position rather not allocable

Visual 3: Quantitative-qualitative "spatial sieving"?

Conclusions: The role of Universities!

- Try the socio-technical bridging for smart cities & regions, but …
- … also run "meta-discussions" on the theoretical/empirical level
- Go for fundamental research for *more frequent and faster* success replication of "smart development" …
- … especially by highlighting the role of citizens in enabling community action.
- Care for more intersection between *scopes of actors* and *scopes of policies*
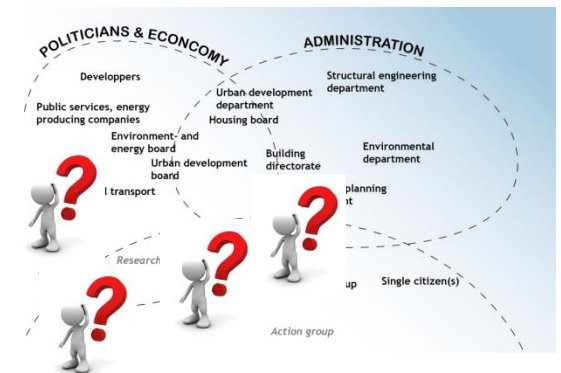
Key questions for the session:

- **What are the challenges and opportunities in the field for universities (do you agree with my points)?**
- **How should these challenges be addressed at European level?**

Thanks …. !

Hartmut Dumke
Centre of regional planning and regional development,
Department of spatial planning,
Vienna University of Technology

Operngasse 11, A-1040 Vienna, Austria
T   +43-1-58801-280705
@   hartmut.dumke@tuwien.ac.at
www   http://region.tuwien.ac.at

Sources, slides 5,6,7:
Project ENUR (http://enur.project.tuwien.ac.at/), 2016
ERP_hoch3 (http://info.tuwien.ac.at/erphoch3/), 2016

Vienna University of Technologie
Department of Spatial Planning
Regional Planning and Regional Development

raum region