

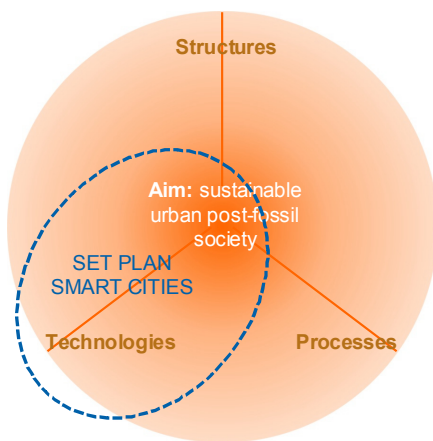
SmartCitiesNet

Recommendations for a consolidated Austrian research in the topic of “Smart Cities”

Project duration: Application: March 2010, Project duration: January 2010 to April 2012

Based on a clear definition of the term and focussing on energy relevant aspects the final project report provides an overview of current research topics related to “Smart Cities” as well as actors active in the field of Smart Cities. Furthermore, future research topics were defined and evaluated, and recommendations for political stakeholders elaborated.

Smart Cities research dimensions and the location of SET Plan activities



Structures

- Integrated spatial, urban, mobility and energy planning
- Assessment, modelling and planning tools

Technologies

- Building, energy, transportation and communication technologies
- Components developments and research on systems

Processes

- Stakeholder processes (politics, economy, decision-making), interfaces
- Process analysis and optimisation, development of business models
- Consideration of lifestyles and social changes, quality of life and user behaviour

We treated the following integrated research fields related to Smart Cities:

Strategic planning und fundamentals

1. Long-term smart city vision
2. Urban energy databases
3. Urban energy performance assessment
4. Strategic integrated spatial, urban, mobility and energy planning

Urban planning

5. Optimisation of urban morphology and neighbourhood planning
6. Mixed use planning and compact city concept
7. Micro-climate modelling of public and green urban spaces

Energy technologies

8. Building integrated renewable energy technologies
9. Technologies for industrial symbiosis
10. Intelligent energy distribution networks
11. Storage of heat and matter

Mobility and transport

12. Integrated multi-modal transport systems
13. Demand-driven mobility services
14. Alternative drive systems
15. Market introduction of alternative drive systems
16. Passenger awareness and mobility management

User and implementation

17. Socio-demographic changes and user behaviour
18. Integrated policy instruments and awareness measures

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