

Mission oriented Programs for Smart Cities and Regions







A fund of the Austrian Federal Government

- Established by the Climate and Energy Fund Act in 2007
- Supporting the government by
 - achieving the national climate and energy targets
 - developing and implementing national adaption strategies (climate change, energy transition)
 - reducing carbon emissions, increasing energy efficiency and boosting energy related innovation
- Has a focus on innovation and a long-term perspective

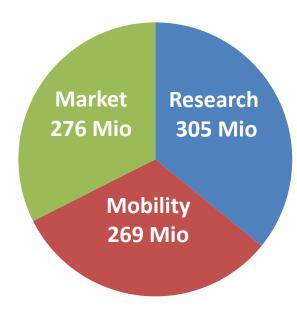




The Power of Facts – a Retrospective

2007-2012 | 57,370 projects | €725m funding | € 1.8bn investment | 5.8 €/tCO₂ red. potential

Balanced
Push-Pull-Mix
22 programs
R&D&D







The Smart City Topic ...

is part of a national action plan and relies on

- Smart Cities Demo Program
 - 4 Calls since Dec 2010
 - 4th Call started Sept 2013: € 8,5m demonstration
- City of the Future Program of BMVIT
 - 1st Call started Sept 2013
- Urban Europe activities
- Website, TP, JPI, events, etc.





Smart Cities RTD program strategy: considering national challenges...

- AT = small cities (5 > 100.000, 1 > 1,000.000)
- urbanisation, demography
- limited domestic energy resources (35%)
- different starting positions in matters of urban vision legal binding and budgetary boundaries
- system integration as value added
- (long-term) financing instruments





...and the national strategy in general

- Focus on national strengthes: scientific & industrial compentences
- Integration of all stakeholder
- Generation of lighthouse projects
- high visibility for urban issues
- large investments in close-to-market RDI





Smart Cities Demo Program in action since 2010

The program proposes a two-stage procedure:

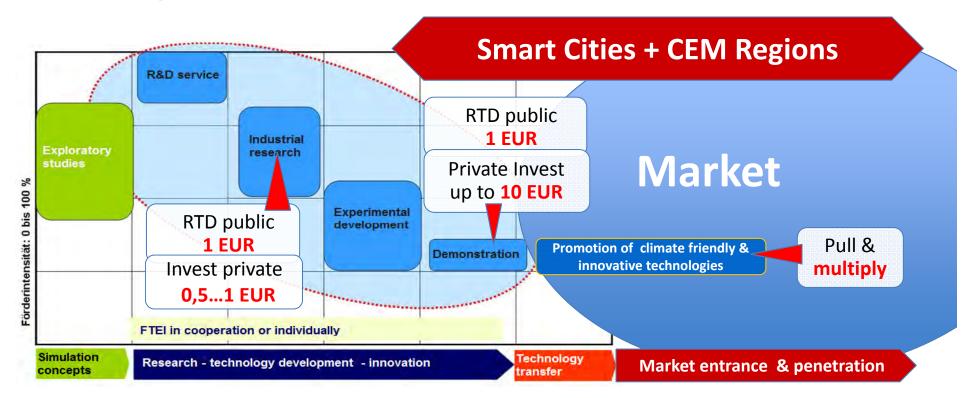
- 1. Formation of consortia with transnational integration, development of vision, roadmap and action plan
- 2. Implementation of "Smart Energy"-pilot and demonstration projects

to achieve the best starting position possible for the participation of Austrian consortia in the SET Plan





Giving Impetus to Urban Developement

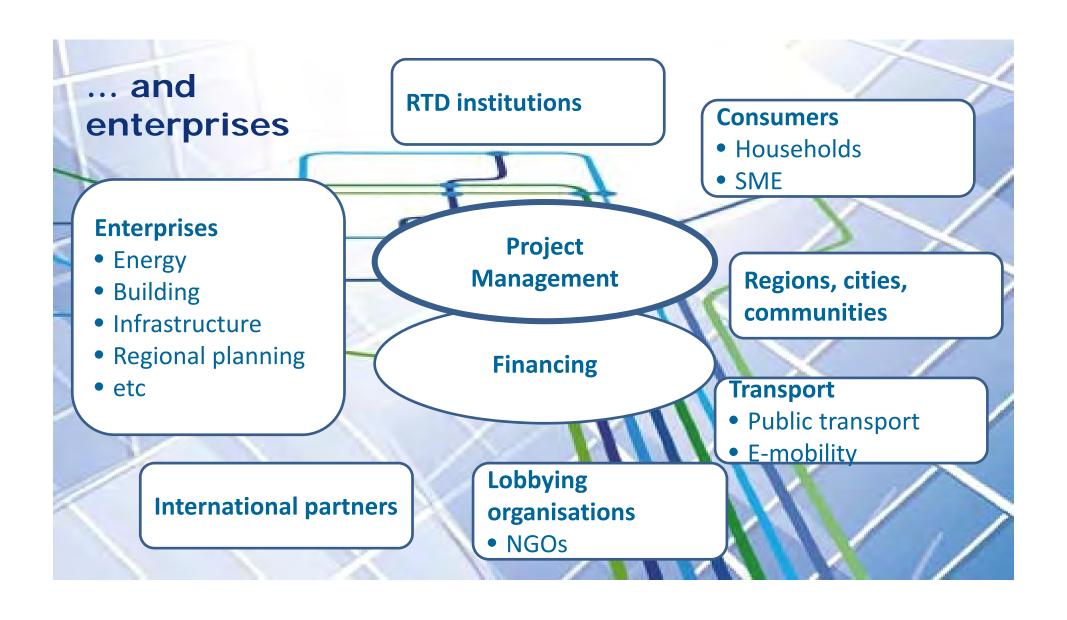






Smart Cities Demo - A program to reach people ...

- + 3m inhabitants in Smart Cities
- + 322,000 inhabitants of Smart Urban Regions
 - + 18 cities < 100,000 inhabitants
 - + 3 cities 100,000 to 200,000 inhabitants
 - + 2 cities > 200,000 inhabitants
- + See more: http://www.smartcities.at



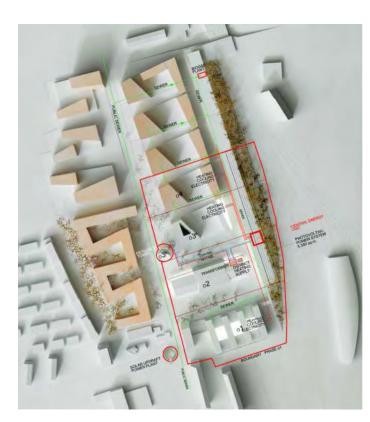




Example Smart Future Graz...

100% renewables in the city

- Demonstration and testing of urban technologies for using renewable energy sources
- Implementation of an integrative planning process
- City of Graz & interdisciplinary consortia of 13 partners
- Funding: €4.2m (of appr. € 100m)
- Duration: 05/2012–04/2016



Smart Cities Demo Results of 3 calls € 18m, 35 projects 24 cities, Klosterneuburg Wien 3m inhabitants Linz Perchtoldsdorf Brunn am Gebirge Marchtrenk • Amstetten Baden • Salzburg Wörgl • Bruck/Mur Leoben • Hartberg Innsbruck Gleisdorf • Graz Deutschlandsberg Villach • Klagenfurt





Results: Urban Actionplans

24 different Cities – similar focus

- Lowering Energy Demand → heating, refurbishment, solarthermal
- 2. Keep Electricity Demand stable → increase efficiency, Smart Grids, B2G, V2G
- 3. Integration of Renewables → limited potential
- **4. Services and mobility** → first steps





Results: Lessons learned

Projects

"lack" on **urban mobility** aspects

involvement of inhabitants is crucial

Very "optimistic" approaches – time, effects

Self evaluation, monitoring – indicators

Scope of RTD-demonstration <> rest of project

Financing of the whole project – long time perspective

USP: Co-ordination of different funding sources





RTD funding is not enough

Therefore 106 Climate and Energy Model Regions were established by the CEF (2009-2012)

- Funding of regional management
- energy autonomy and fossil free energy supply
- CEF provides temporary impulse for market entrance of innovative technologies -> market pull
- Aspiring high density of renewables in regional testbeds
 monitoring the effects on existing infrastructure
- International co-operation eg. R20





The Climate- and Energy Fund operates

Instantly.
Medium term.
Long term.



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Our Structure

Executive Advisory Board

Federal Ministry of Transport, Innovation and Technology

Federal Ministry of Agriculture, Forestry, Environment and Water Management

Expert Advisory Board

4 members

Climate & Energy Fund

2 CEOs 10 employees (FTE)

Settlement Agencies

aws, FFG, KPC, SCHIG

Annual Program

appr. 20 calls/a

RTD Roadmaps Projects Dissemination

by
Thematic websites
Project database
Events
Social media





Results of the 1st Call

30 proposals

21 projects funded

18 cities in 8 Austrian regions with 3 Mio. inhabitants

2,1 Mio. EUR funding





Results of the 2nd Call

18 proposals

9 projects funded

3 cities (Graz, Villach, Salzburg)

3 urban regions (Hartberg, Rheintal, Weiz-Gleisdorf)

3 R&D studies

10,6 Mio. EUR funding





Results of the 3rd Call

14 proposals

7 projects funded

2 cities (Leoben, Oberwart)

5 1st stage projects

(Asparn, Bruck, Gmunden, Güssing, Salzburg)

1 FP 7 Aditional Project (Vienna)

5,4 Mio EUR funding