

Alexander Storch – Environment Agency Austria





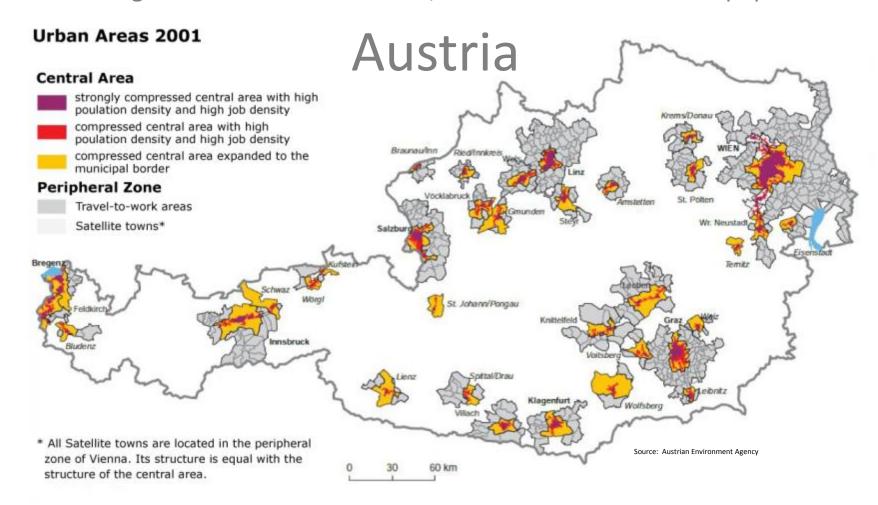








Total of 2102 communities and 8 499 759 inhabitants (2013-10-31)
Largest city and capital of Austria: Vienna (Wien) with 1 761 738 inhabitants
Second largest city and capital of Styria: Graz with 269 211 inhabitants
86 cities larger then 10 000 inhabitants, with 47.0 % share of total population















#### What are Smart Cities?

- Cities, which are ready to meet their economic, social and environmental challenges with implementation of continuous learning and co-ordinated steering the urban development at all relevant municipal activities.
- Cities, which strive to increase energy efficiency and renewable resources, to reduce environmental pollution or which plan and implement climate change mitigation measures applying multi-disciplinary system thinking and participative approaches.
- Cities, which starting transformation to an attractive and intelligent community regarding long-term policy targets improving quality of live for citizens and increasing power to compete for the economy.



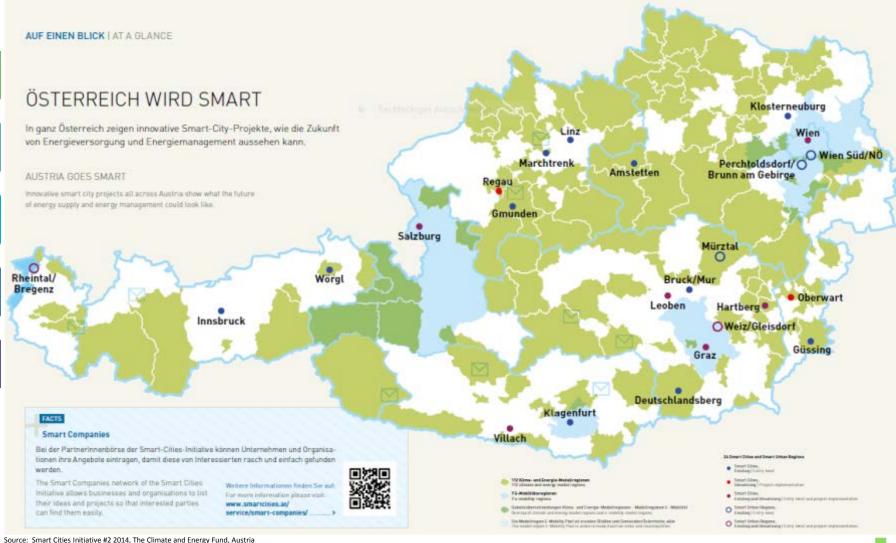








#### Promoted Smart Cities and Regions in Austria

















#### **Smart City PROFILES**

## Dedicated areas of activity in urban development

Buildings and settlement structure

Transport and mobility

Technical infra-structure

Economy and citizens

Policy, administration & governance













## Smart City PROFILES Benefits using indicators for city planning

- Identification of strengths and weaknesses with regard to areas of activity in urban development
  - Facts about the structure and performance of areas
  - Information about their change and reasons up to the present
  - Identification of city characteristics and up-coming trends
- Supporting objectified communication: Targeted discussions and support in deciding which action is needed
  - regarding certain topics within these areas of development setting priorities
  - in defined areas of development or as an integrated overview
- Basis for monitoring













## Components of the areas of urban development

Buildings and settlement structure	Transport and mobility	Technical infra- structure	Economy and citizens	Policy, administration & governance
Infil development versus urban expansion	Modal Split	Electricity consumption	Innovation (patents)	Environmental information
Changes in population density	Basic infrastructure	Recycling rate	Research (EU projects)	Vision, strategy, activities
Compact residential clusters	Sustainable mobility	Waste generation	Creative industries	Municipal subsidies to mitigate climate change
Energy efficient buildings	Parking management		Education network	Involvement of city administrations
			EMAS-certified businesses	Cooperation between cities and their surrounding areas















### Smart City PROFILES Presentation of results

A Smart City Profile consists of

- Basic data of a city
- Spider diagram showing all areas of development including most relevant evaluation summaries
- Five spider diagrams for each area of development including some explanations and interpretation
- Individual components (optional)
   as a starting point for targeted, in-depth analysis







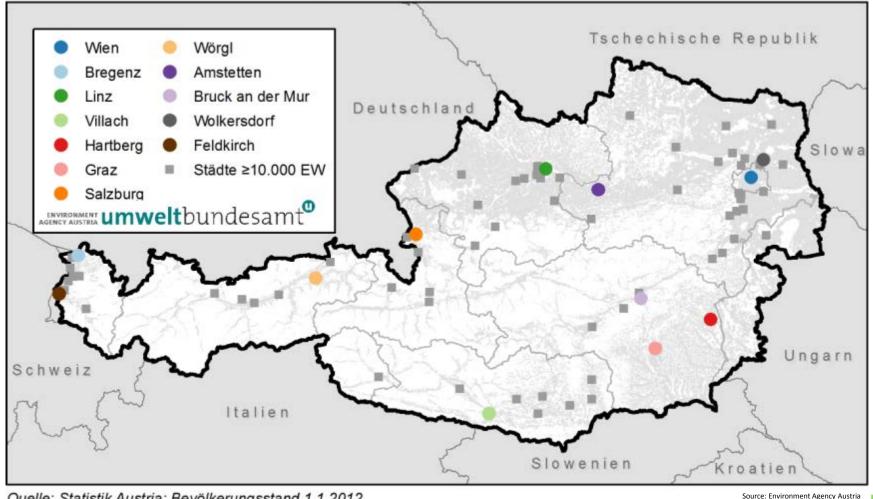






#### Smart Cities PROFILES municipals

Teilnehmende Städte Smart City PROFILE, sowie Städte und Gemeinden ab 10.000 EW



Quelle: Statistik Austria: Bevölkerungsstand 1.1.2012



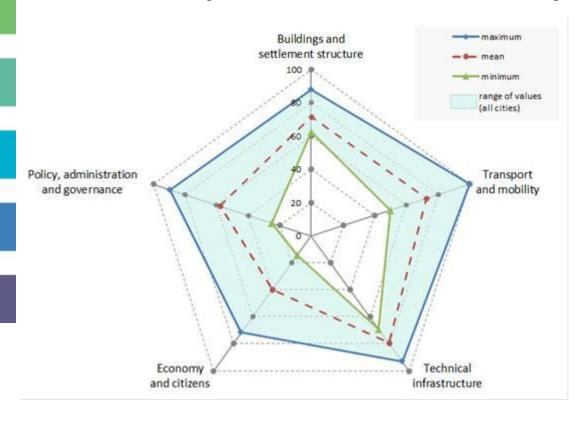








## Smart City PROFILES result presentation – spider diagram



City Profile for the 12 cities, which participated in the development of smart cities indicators and city profiles.

The diagram shows the range of results for the 12 participating cities across the 5 core areas of activity in urban development.

It allows cities to make better evaluations of their current status and their development in relation to defined indicators.

The maximum of all core areas/indicators (100) gives the fictitious smartest city.















#### Source: Alexander Storch

# Smart City PROFILES measuring cities change from a policy perspective





















## Smart City PROFILES supporting integrated urban development

- Makes urban development and results measurable and transparent
- Encourages the involvement of relevant <u>stakeholders</u>
- Fosters exchange of experience and knowledge gain through an analysis of strengths and weaknesses
- Focuses on potential needs for action in urban development areas
- **Supports** strategic goals, implementation-oriented concepts and the resulting activities
- Reliable **Decisions** are <u>based on facts</u>
- Professional and visible communication of activities and results













## Smart City PROFILES expectations for Austria

- Building up an internet platform on Smart City indicators and profiles hosted by 'The Austrian Association of Cities and Towns' for continuation of monitoring, automatisation and to address new cities for participation
- Looking to corresponding indicators for planning of Smart City districts and quartiers
- Accompanying national standardisation committees with Smart City PROFILES know-how and experience to assist on-going ISO committees on smart city standardisation of terms, processes and indicators











#### **Smart City PROFILES**

interaction with other integrated approaches

Examples of related policy issues and methodologies using integrated assessment based on indicators are

- Quality of live in cities
- ➤ Multifunctional eco-service optimisation of urban regions
- Urban Scenarios, analysis of Driving Forces and Horizon Scanning
- > Resource efficiency over life-cycle and ecological footprint
- Climate Change mitigation and adaptation
- Vulnerability, Adaptability and Resilience













#### **Smart City PROFILES**



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