

Smart City STANDARDS

Abstract

Vienna, June 2014



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Smart City STANDARDS

1. Synopsis

The aim of the project is to support standardisation processes which help to promote the sustainable development of cities and communities and to involve the main stakeholders and actors in these processes. In this context, the project is essential for bridging the gap between users (and the parties concerned, e.g. the cities) on the one hand and those who develop the standards on the other hand.

The specific outcome of the project is a *status quo* report on existing national and international Smart City evaluation systems, their indicators and application experiences, and process modules with a guidance function and instructions for designing and conducting standardisation processes which can be used directly by Austrian cities and communities. The project also provides a basis for an Austrian position to be adopted when participating in international standardisation processes.

2. Abstract

2.1. Starting point

Cities are responsible for 60-80% of the total energy consumption worldwide and they also cause 75% of the total greenhouse gas emissions. Given that over half of the world's population lives in cities today and that the population is rising on the whole, with dwindling resources as a result, sustainable urban development and its evaluation by means of indicators are becoming more and more important. However, there have been no transnational standards for the comparable and transparent measurement, evaluation and control of urban development processes to date. Although work on the definition of requirements, guidelines and methods for the achievement of sustainability and environmental compatibility in communities of any kind is now being undertaken by ISO International Organization for Standardization, technical committee for "sustainable development in communities", the activities are still in their early stages.

2.2. Target

The aim of the project is, therefore, to support standardisation processes to help promote the sustainable development of cities and communities and to involve the main stakeholders and actors in these processes. In this context, the project is essential for bridging the gap between users (and the parties concerned, e.g. the cities) on the one hand and those who develop the standards on the other hand. Moreover, the project is intended as a contribution to establishing an Austrian position to be adopted when participating in international standardisation processes.

2.3. Method for target achievement

National and international sets of indicators are categorised according to the relevant topic (e.g. general conditions, underlying data, feasibility, type of use, completeness etc.) to provide an overview of indicator sets which exist already. Then they are analysed, a process in which a focus group is involved and which takes particular account of the results and findings obtained from the Smart City PROFILES project and the e5 programme for energy efficient communities. Conclusions are drawn and recommendations made for indicator systems and the use of these systems, particularly with a view to their standardisation, and they are presented in a *status quo* report.

From elements derived from the current state analysis (*status quo* report) and from stakeholder inputs, process modules with a guidance function and instructions for the further standardisation process at national and international level are developed. They are checked against the requirements of standardisation (especially their relevance for the actors involved and transferability to their specific concerns, verifiability of evidence, transferability to other regions throughout Europe etc.), and completed accordingly.

2.4. Stakeholder involvement

All (interim) results of the project are discussed and agreed upon at workshops and during interviews with experts and stakeholders, in which a focus group is involved. The aim of this project-related stakeholder process is to prepare recommendations for a coordinated national process which is aimed at developing a valid, common European (and global) standard. Here particular consideration will be given to the specific ways of using and applying indicators and their implementation, so as to promote optimal indicator systems tailored to the specific needs of individual projects and communities.

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