

Creating cities of tomorrow



In the midst of rapid urbanisation, governments and authorities are under constant pressure to take on sustainable approaches for urban development that can help reduce energy and resource consumption while making cities liveable.

Assessing the current status of a city is the first step to making it more sustainable. This includes a range of factors to consider in the areas of buildings, water, energy, waste, transportation, communication, security. TÜV SÜD's Smart City Assessment services helps cities evaluate where they stand and the measures to take to improve their sustainability profile. It outlines the key considerations through a strategic roadmap.

4 steps to improve sustainability



DEVELOPMENT OF SUSTAINABILITY PROFILE

3 elements to consider when developing sustainability

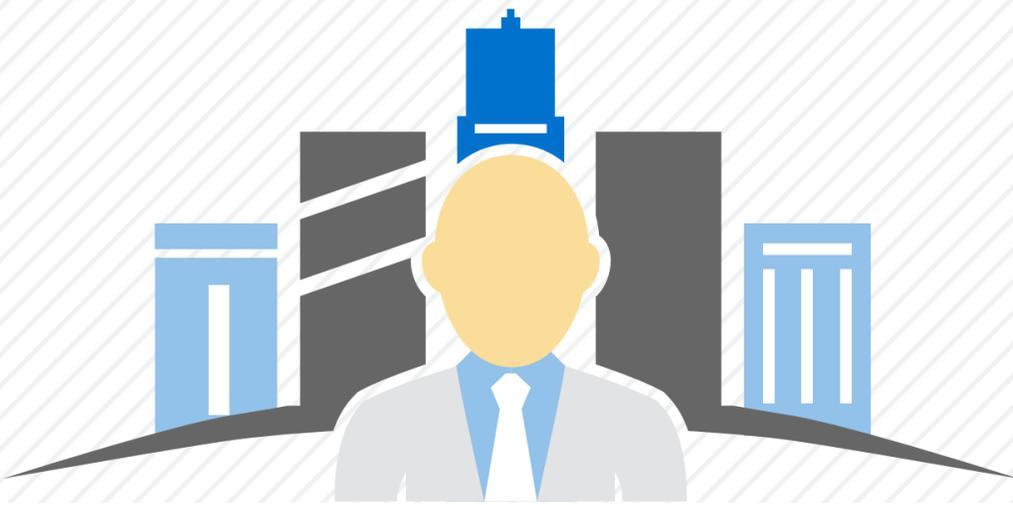


In-depth analysis

- 100 indicators
- 80 action fields

Further in-depth analysis

- 50 interviewees of stakeholders



DEVELOPMENT OF STRATEGIC ROADMAP

WASTE MANAGEMENT AND DISPOSAL

Local waste and resource management, use of biomass as energy source, observation of processes for circular economy, urban mining, etc.

GOVERNANCE AND PLANNING

Structures of politics and administration, adapted methods and concepts for the strategic goal, conception, resolution, planning and realization of approaches and projects to improve sustainability, participation processes, urban development and planning

URBAN WATER INFRASTRUCTURE

Water supply/waste water disposal, water quality, security of supply, rain water drainage, energy consumption and use of resources

ECONOMIC AND BUSINESS INNOVATION

Strengthen the economy, development of business clusters, new business models for sustainable technologies and secure financing

ENERGY AND RESOURCES

Import, production, distribution and consumption of energy, heat/cold, gas and fuel in the urban context
Renewable energies, energy efficient technologies, smart multy energy grids etc.

INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)

Big data, e-government, ICT-infrastructure, ICT for intelligent control and user friendly offers in the mobility and energy sectors, open data solutions, integration of urban technologies via ICT etc.

BUILDINGS

Energy efficiency, comfort, holistic accounting of all urban building types, buildings and public space, resource efficiency and life cycle assessment of used materials, planning and realizing of sustainable districts

MOBILITY AND TRAFFIC

EVs, charging technologies, infrastructures and solutions for bicycles, mass transport systems, e-ticketing, real-time information and steering of traffic, urban cable cars, transport oriented development, city of short distances, sub-a vehicles and urban mobility on demand etc.

SECURITY

New smart and multifunctional protection technologies and materials, security concepts and systems for public spaces and buildings, advanced risk management and planning tools for public safety

PRODUCTION AND LOGISTICS

Urban production, supply of trade, industry 4.0, commerce and households, holistic use of cradle-to-cradle systems, innovations in product design, smart city logistics, etc.



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