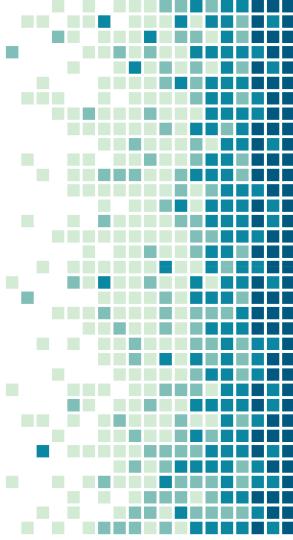
Assisting Smart Cities and Communities in ISO 37120 Certification and Smart Sustainable Governance

International Program 2019



1. INTRODUCTION



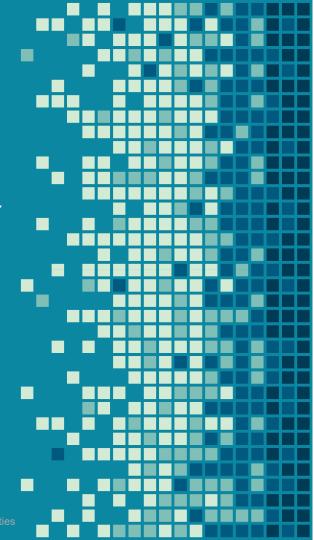


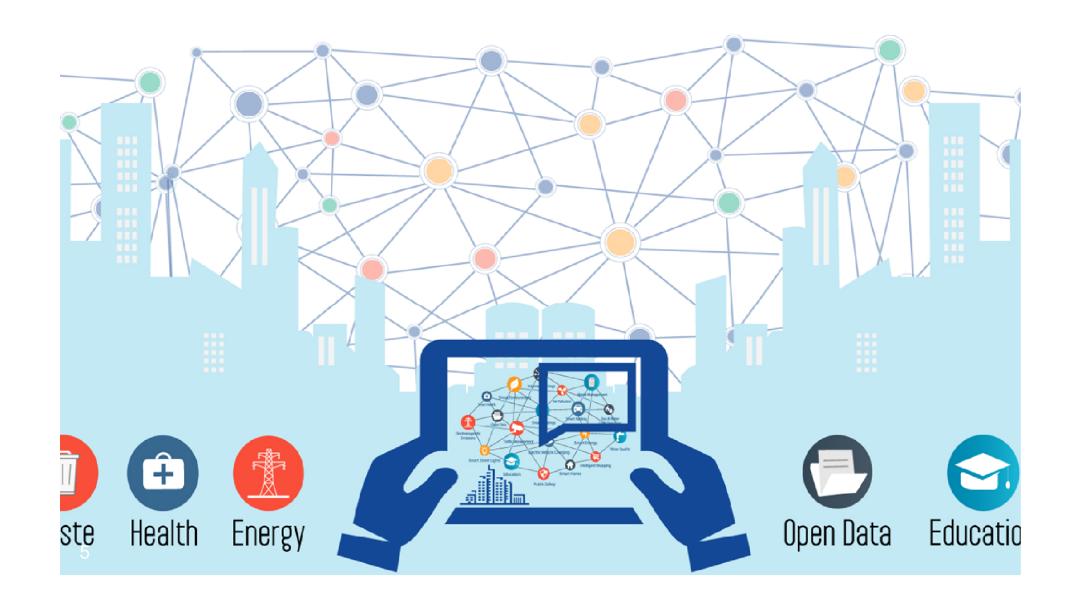
OBJECTIVES

- •Support certification needs of city administrations with novel digital transformation technology Smart City Monitor with easy presentation of city performance in compliance with key international standard ISO 37120 Sustainable development of communities Indicators for city services and quality of life
- Simplify and decrease costs of the certification in compliance with the standard and increase its practical value for cities
- Make the standard working in daily life to assist community administrations in smart sustainable management and governance and transparency of its achievements



International Standard ISO 37120:2018 Establishes a set of standardized Core, Supporting and Profile indicators that provide a uniform approach to what is measured, and how that measurement is to be undertaken (iso.org)





ISO 37120:2018 Themes

Economy

Education

Energy

Environment and climate change

Finance

Fire and Emergency Response

Governance

Health

Housing

Population and social conditions

Recreation

Safety

Solid Waste

Sport and culture

Telecommunications

Urban Planning

Transportation

Urban/local agriculture and

food security

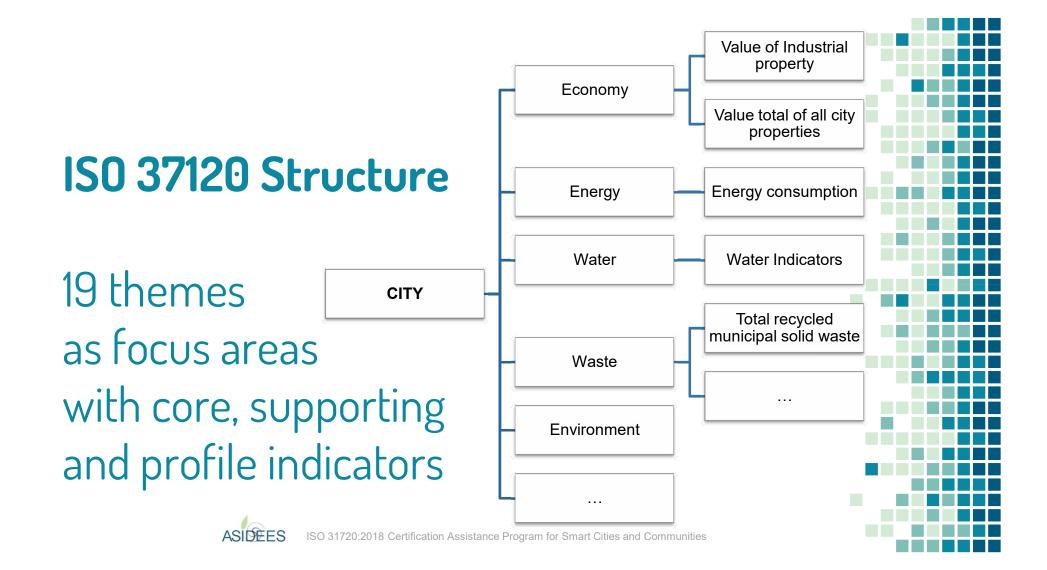
Urban planning

Wastewater

Water

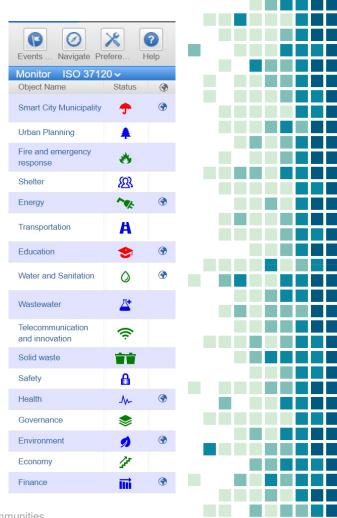






Sustainability, Performance Transparency in real time

In assisting cities in steering and assessing the performance management of city services and all service provisions, the novel CityMonitor 37120 running on technology solution Smart City Monitor presents comprehensive set of all 19 sectors and services accordingly to ISO 37120. It is open to adding and upgrading with any necessary local indicators and city infrastructure objects that are required to assist in smart city management effectively.





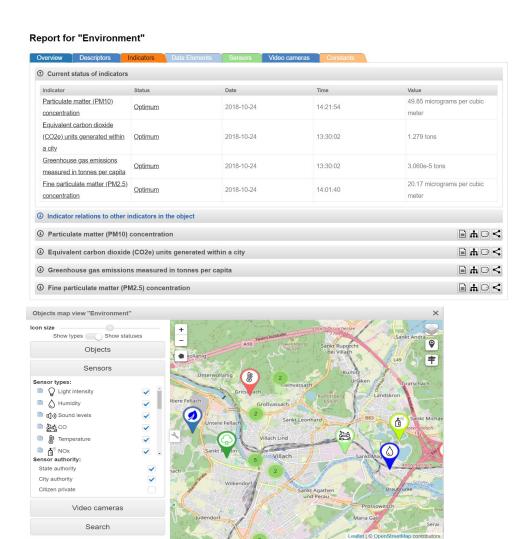
Example:

Air Quality indicators in Smart City Monitor 37120 report for Environment can calculate and present real time data that is received from multiple sensors distributed in urban area and installed on mobile vehicles (busses, trains, etc)

Economy Energy Water CO Waste NO2 O3 -Environment Air Quality PM10 SO₂

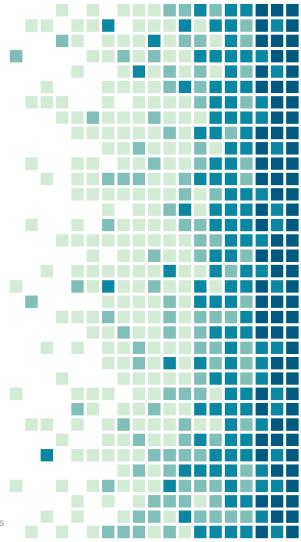
CityMonitor 37120 Environment

Providing administrations and citizens with environmental information in real time for any specific location and the city as a whole



2. THE TECHNOLOGY





Smart City Monitor 37120 dashboard

- Principally new powerful interactive tool assisting in smart governance by administrations and utility providers
- Presenting achievements that are transparent and verifiable online to let continuing auditing
- Fostering continuous improvements in real time
- Introducing operational compliance with standards in daily work (contrary to paper certificates on the city hall wall)



TECHNOLOGY COMPONENTS

CITY MODEL

by ISO 37120 represents all major urban processes and typical infrastructure in 19 schematic themes above 60 indicators offering holistic and integrated approach to sustainable governance and development

CITY DATA

is prepared by the responsible city departments and organisations in MS Excel files monthly or weekly accordingly to ISO 37120 requirements

SMART CITY MONITOR

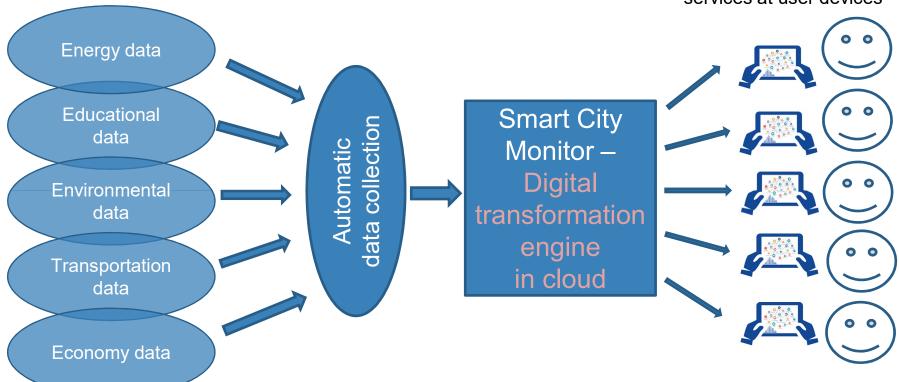
High level Al-driven IoT
technology platform
automatically collecting big
data from large number of
data sources and its digitally
transforming into custom
information services for
stakeholders in real time



Smart City Monitor Services: CityMonitor Dashboards, Reports and platform structure mobile apps - sustainability status, KPIs, analytics, holistic view **Smart City Monitor** ← Data streams real time Middleware data Users and stakeholders: broker Municipality management, Departments and operators, Utility Providers, Gateways Local Business Partners, Citizens and Tourists Data sources, Spreadsheets, Sensors / IoT Automated systems Video cameras

Holistic core operations

Rich online information services at user devices



* * Various heterogeneous urban data sources

Analytics on common user devices!

Notebooks



Tablets



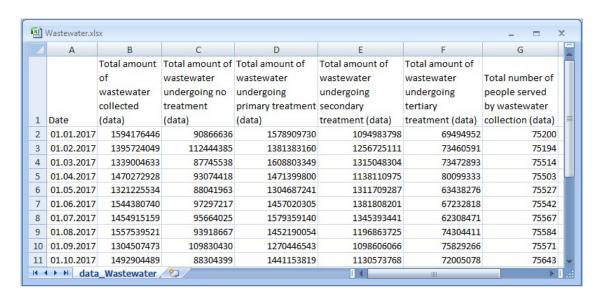
Mobiles





Example of source data in MS Excel

Waste water city data by ISO 37120 in MS Excel spreadsheet



The 20 spreadsheet files for ISO 37120 urban model are periodically updated by different organisations and city departments e.g. monthly. Smart City Monitor automatically imports all of them from different city locations, servers, Google docs, Dropbox, etc to calculate KPIs and its presenting at Monitoring Dashboard



Administrations have trustful answers at any time and in any place and in real time

- Smart City Monitor 37120 dashboard presents the holistic indicators for city services and quality of life by Howare ISO 37120. It is open for adding any locally defined custom indicators to measure performance management and sustainability.
 - It supports policy development, priority setting applicable to any local government that wants to measure its performance in a comparable and verifiable manner, irrespective of size and location enabling continuous improvements and audit of quality of life.

Welcome to begin your journey to Smart

Sustainable Governance and ISO 37120

certification for your city!

You can find us by: info@asides.org http://asides.org

CREDITS

Special thanks to all the people who made and released these awesome resources for free:

- Presentation template by <u>SlidesCarnival</u>
- Photographs by <u>Unsplash</u>
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