SMART CITY CONCEPT – INCOMING FUTURE
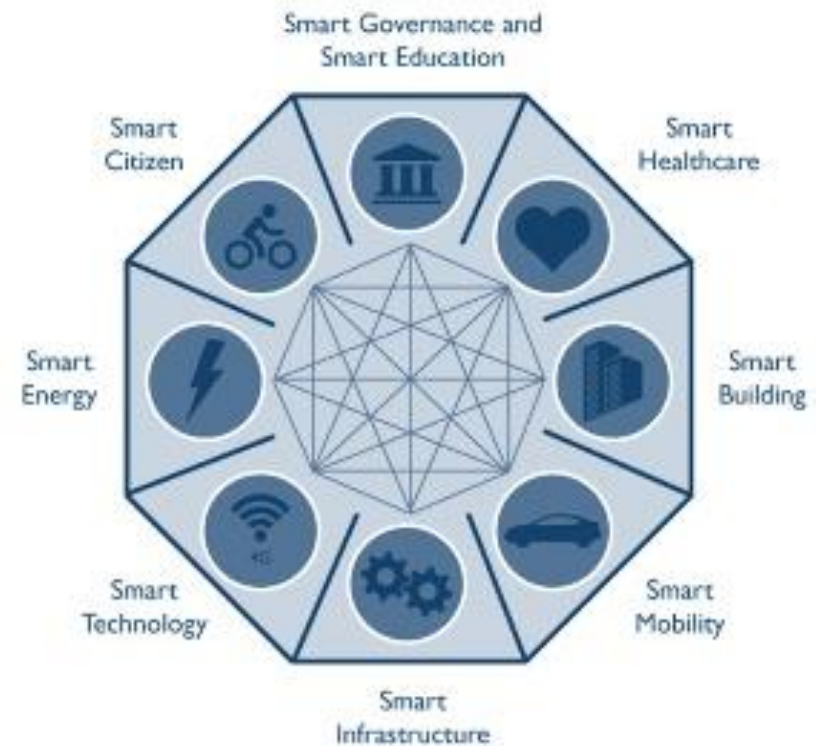

BK Tesla d.o.o.

DANA HOLDINGS

Tihomir Simić PhD
Executive Vice President BK DANA Holdings Group

WHAT IS SMART CITY CONCEPT?

>>> Smart City

- The concept of 'smarter cities' originated in 2008, by IBM as part of its Smarter Planet initiative.

- A Smart City should have at least five out of the eight "smart" parameters listed by Frost & Sullivan.

SMART CITY CONCEPTS

Smart Governance and Smart Education

Smart Citizen

Smart Healthcare

Smart Energy

Smart Building

Smart Technology

Smart Mobility

Smart Infrastructure

Source: Frost & Sullivan

Smart City : Introduction

Definition of Smart City *by Boyd Cohen* :

- Smart cities use information and communication technologies (ICT) to be more intelligent and efficient in the use of resources, resulting in cost and energy savings, improved service delivery and quality of life, and reduced environmental footprint--all supporting innovation and the low-carbon economy.

Origin of Smart city

- The concept of smart cities originated at the time when the entire world was facing one of the worst economic crises. In 2008, IBM began work on a 'smarter cities' concept as part of its Smarter Planet initiative. By the beginning of 2009, the concept had captivated the imagination of various nations across the globe.

Initiative of European cities for being Smart

- European cities tend to be denser and have better public transit.
- Larger commitment to cycling and walking.
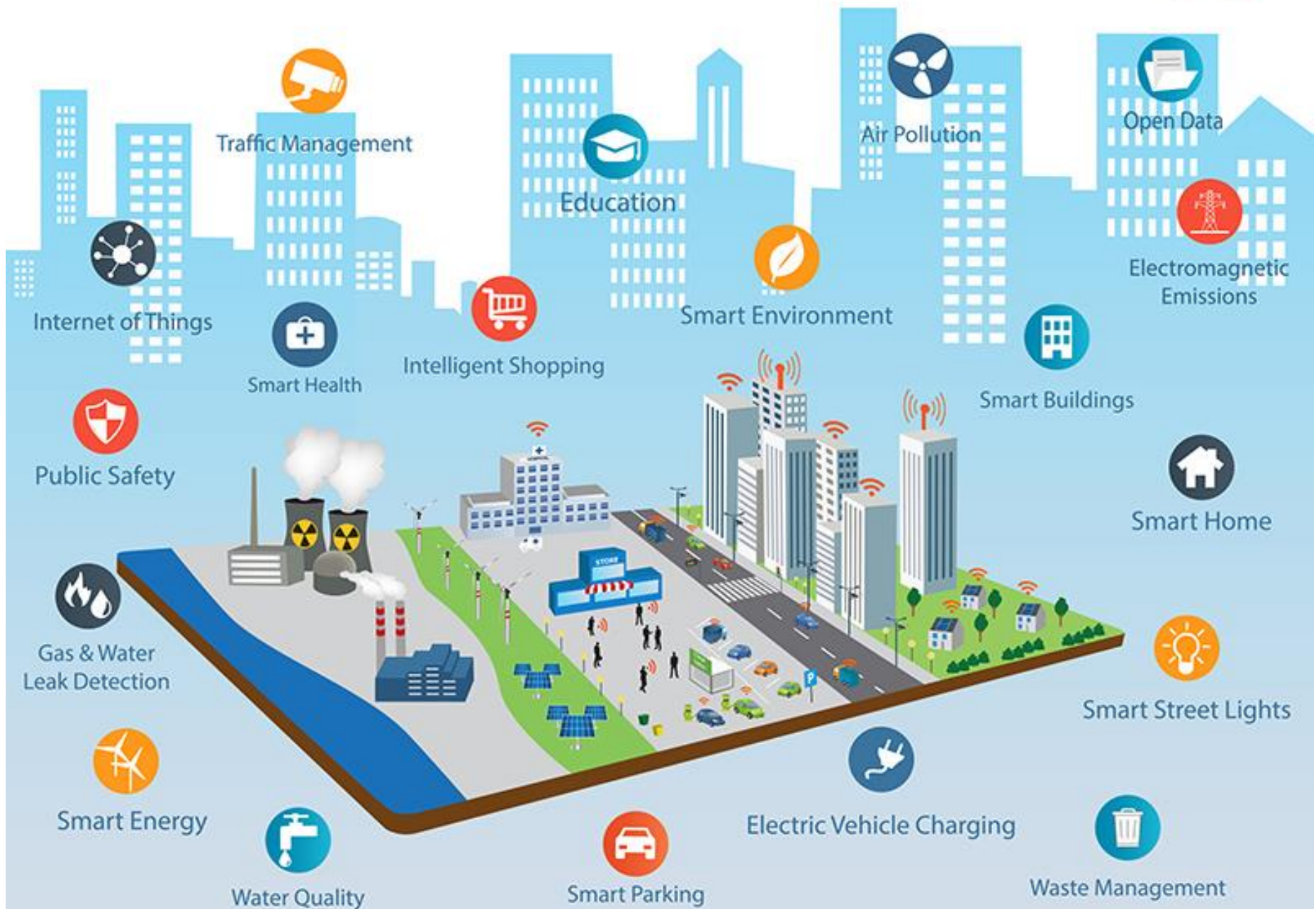- A stronger focus on sustainability and low-carbon solutions.

LEED : *Leadership in Energy and Environmental Design*
AP : *Accredited Professional*

SMART CITY

Traffic Management

Air Pollution

Open Data

Education

Electromagnetic Emissions

Internet of Things

Smart Environment

Intelligent Shopping

Smart Health

Smart Buildings

Public Safety

Smart Home

Gas & Water Leak Detection
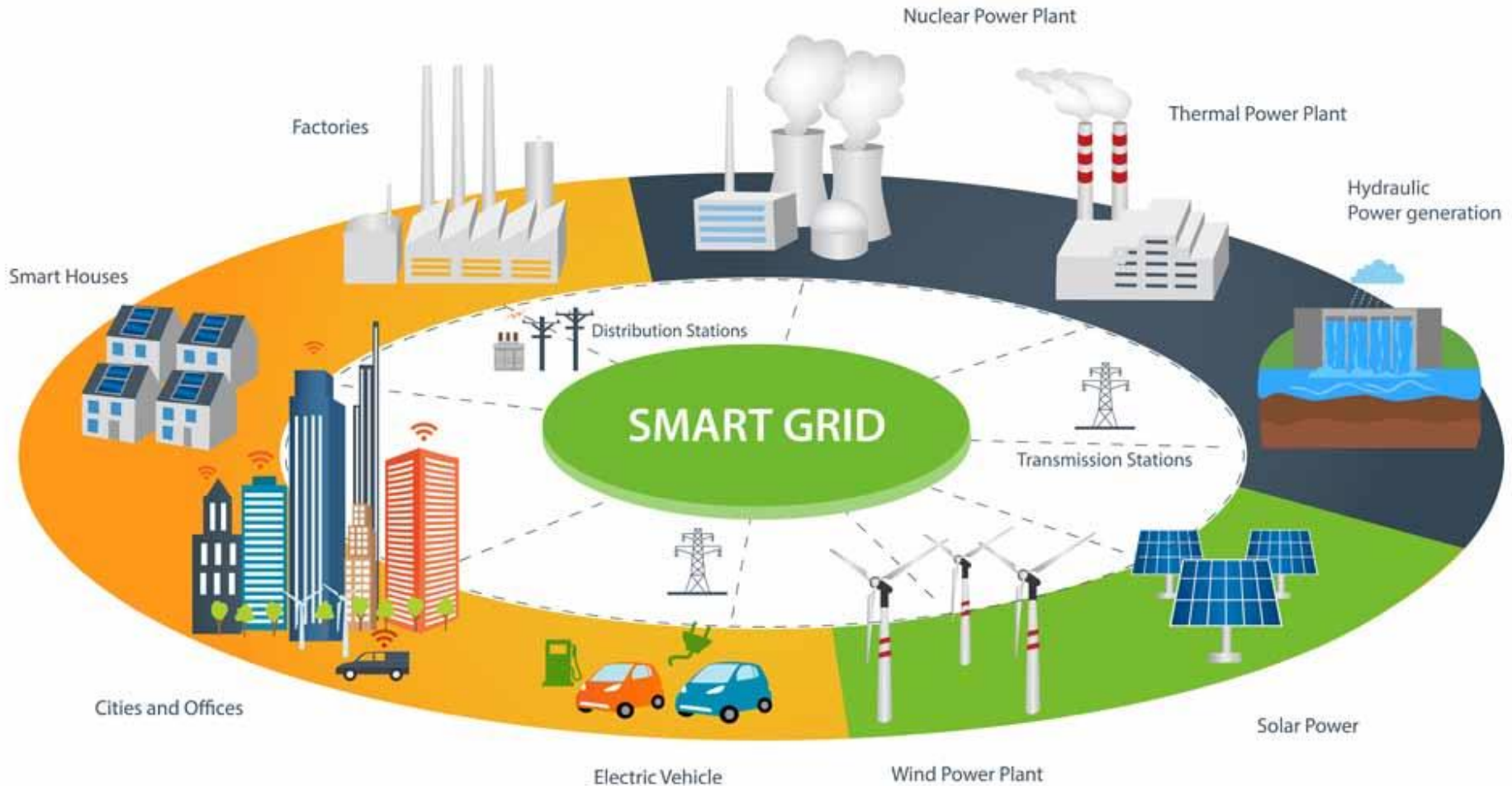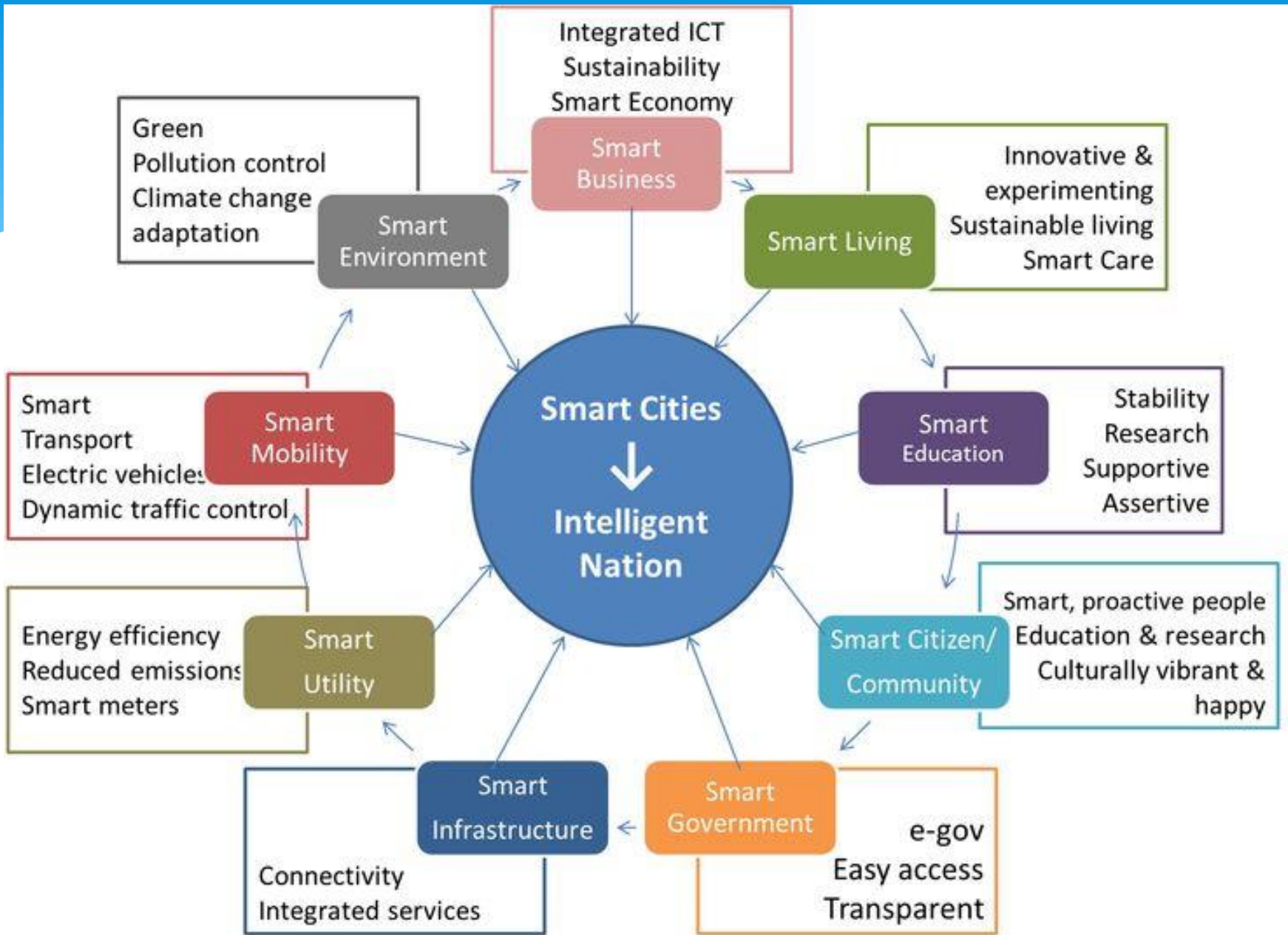
Smart Street Lights

Smart Energy

Electric Vehicle Charging

Water Quality

Smart Parking

Waste Management

SMART ENERGY GRID FOR SMART LIVING

Integrated ICT
Sustainability
Smart Economy

Smart Business

Green
Pollution control
Climate change
adaptation

Smart Environment

Innovative &
experimenting
Sustainable living
Smart Care

Smart Living

Smart Cities
↓
Intelligent Nation

Smart
Transport
Electric vehicles
Dynamic traffic control

Smart Mobility

Stability
Research
Supportive
Assertive

Smart Education

Energy efficiency
Reduced emissions
Smart meters

Smart Utility

Smart, proactive people
Education & research
Culturally vibrant &
happy

Smart Citizen/ Community

Connectivity
Integrated services

Smart Infrastructure

Smart Government

e-gov
Easy access
Transparent

Earlier > Cities: **By-product of Industrialisation..**

Today > Cities: **Nodes for Economic Growth..**

Urban Development = Entrepreneurial environment + Quality of life

Smart City = Human and social capital and traditional and modern (ICT) communication infrastructure fuel sustainable economic development and a high quality of life, with a wise management of natural resources through participatory governance.

S	=	Standardizing
M	=	Monitoring
A	=	Accounting
R	=	Rethinking
T	=	Transforming

CITY AGENDA

CITY GOVERNANCE

City Services ⎤ **City Operations Systems**
People
Businesses ⎦ **City User Systems**
Water
Communication
Energy **City Infrastructure Systems**
Transport

CONCLUSIONS&FUTURE

By 2020, some
230 million homes around the world therefore approximately **15%** ... will feature **smart connectivity**
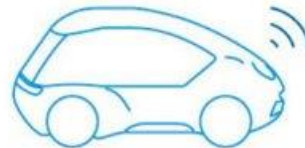
250 million cars around the world will be **connected** by **2020**

By utilizing **smart city** technologies **cities** can **improve** their **energy efficiency** by **30%** within **20** years