

# Innovative ICT Building a Better Smart City



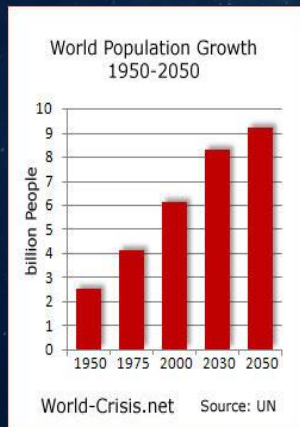
# Agenda

1. **Why focus on Smart City**
2. **What is a Smart City**
3. **References**



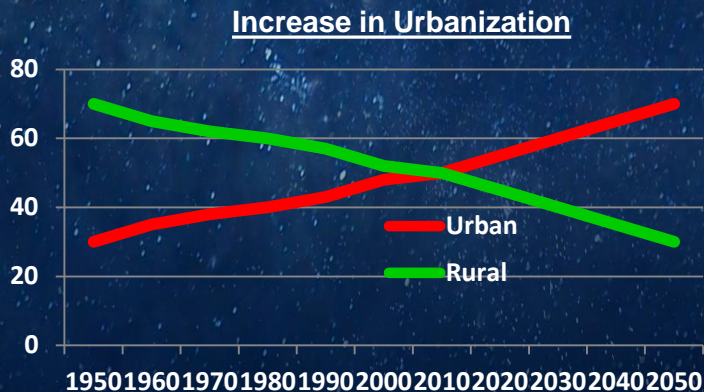
# Why are countries focused on “Smart City”?

**Increase in Population**  
2014 7B → 2050 >9B



**Increasing Urbanization**

- **Half the world's population lives in a city** – an increase from 30% 50 years ago
- **57% by 2025** (Frost & Sullivan)

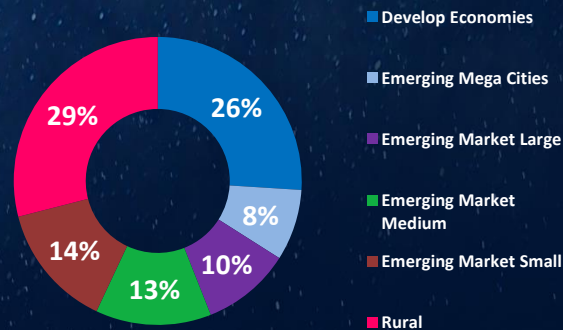


Source: United Nations

**Cities significantly contribute to GDP**

- **70% of global GDP** is generated by cities
- **37 of the World's largest economies** are cities

GDP Growth 2007 - 2025



Source: McKinsey

# Challenges Facing Cities

## Pressing Global Challenges

- **CO2 emission** increased 7x over the past century (globalissues.org)
- World primary **energy demand** increases by 36% from 2008 to 2035, 1.2% per year on average (IEA 2010 fact sheet)
- **Water scarcity** affecting 1 in 3 people on every continent of the globe (WHO)
- **Food Shortages**
- Global **Health** Issues
- **Safety & Security**



Public Safety



Food Safety



Traffic  
Congestion



Pollution



Energy  
Shortages



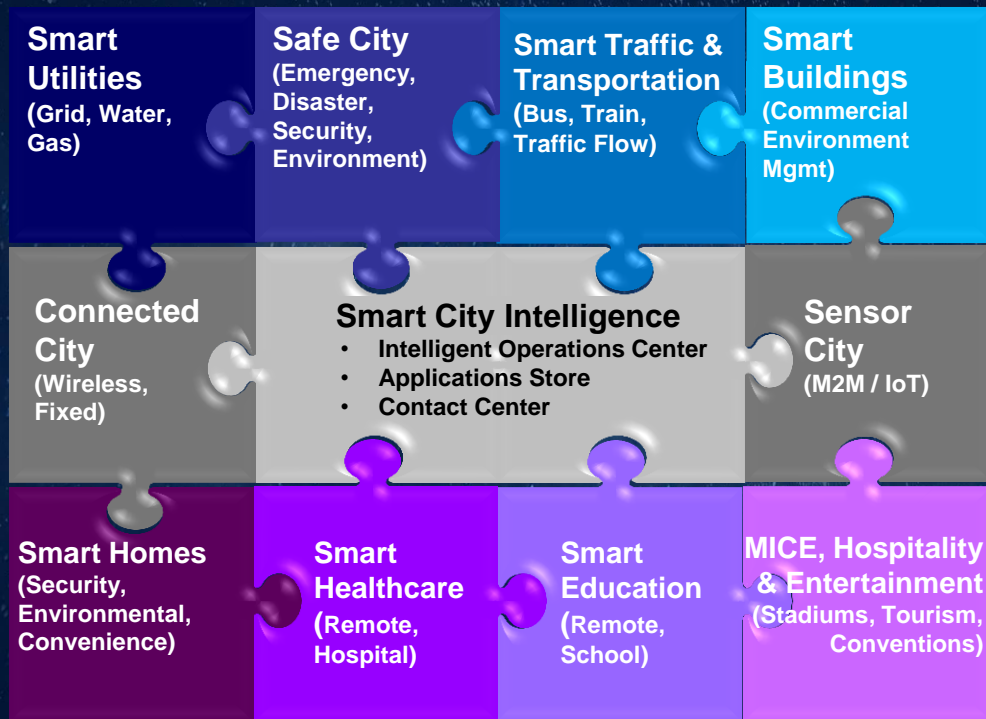
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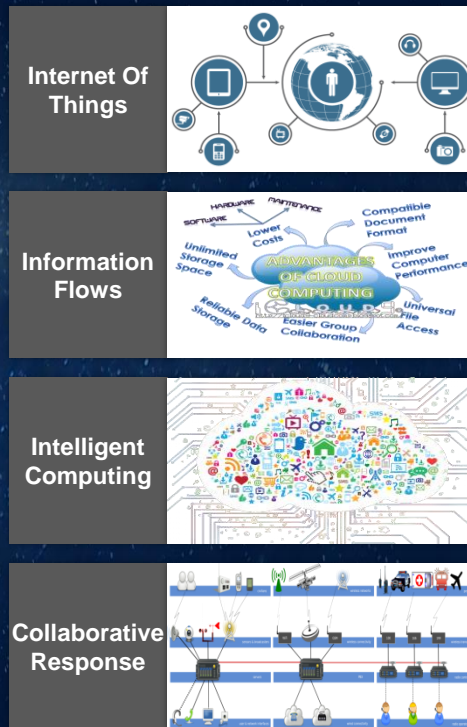
# What is a “Smart City”?

*Urban Development, Security & Sustainability*

**ICT Infrastructure**

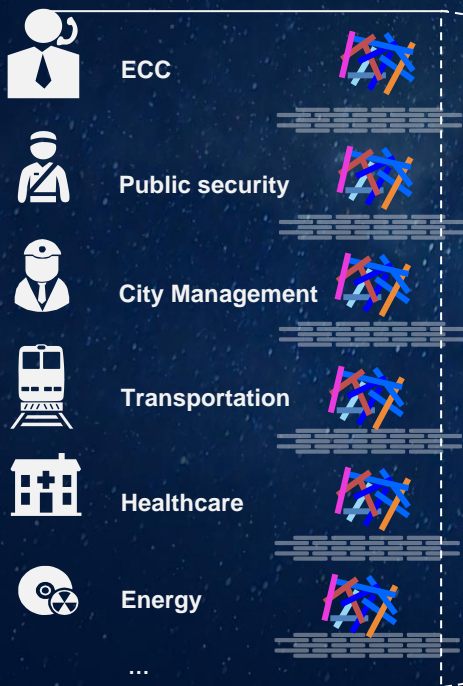


*Social Development Communities, Villages, Citizens*



# Current Silos make informed decisions difficult

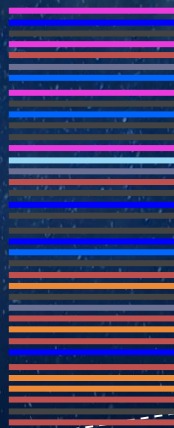
## Sensor, Information & Applications Silos



## Interwork



## Share



## Insight



Efficient decision-making

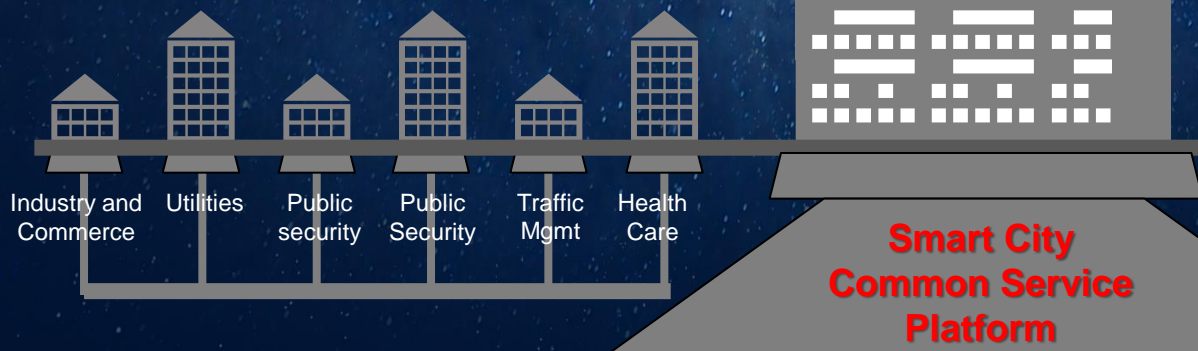
- A number of **information silos**
- **Inefficient** cross-department collaboration
- **Obstructed** city development



# Smart City Common Service Platform enables cross department collaboration, eliminating Silos

## Smart City

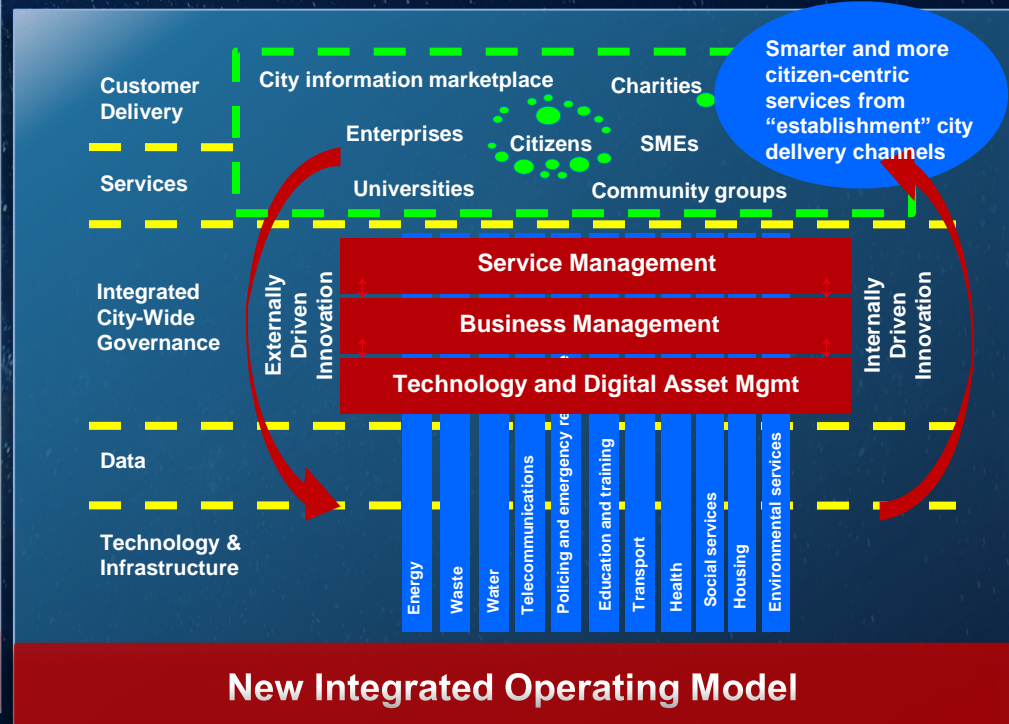
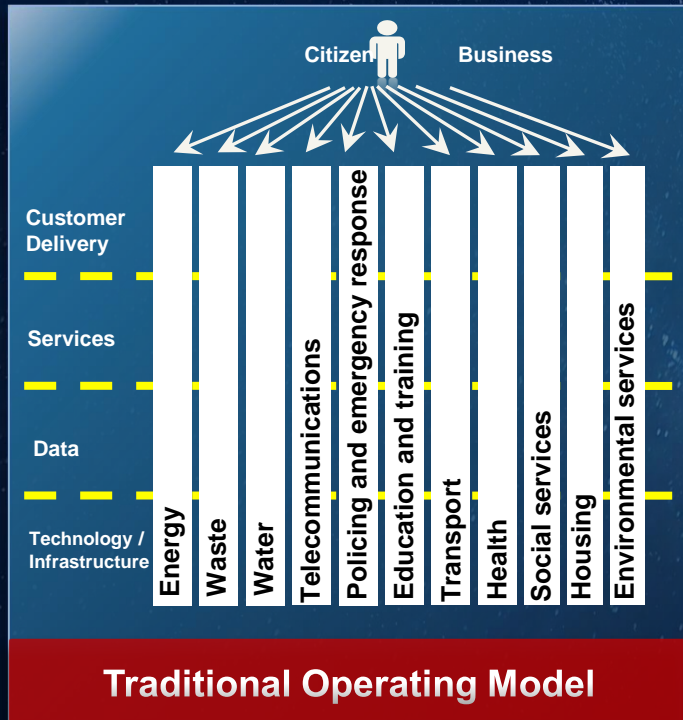
*A Smart City consists of multiple agencies & enterprises who collect & share information to make informed decisions and ensure the citizens are informed and aware*



- Request for Medical help Received
- Ambulance Dispatched
- Ambulance access patient Health Information
- Traffic Lights coordinated
- Surveillance of route



# Integrated Governance Facilitates Smart City Transformation



# Search & Enterprise Integration, Data, Applications, Business Processes



Utility



Police



Healthcare



Traffic



Education



Enterprises



Transport

## 4 Smart City Layers

Smart City Management





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# Smart Stadium of Amsterdam Arena

- Deploy Huawei **Agile Network** solution and Next Generation Firewall for protection.
- **High Density** Wi-Fi access design.
- Give the **53000** fans free Wi-Fi access with **20% fans** simultaneous live video.





# Intelligent Transportation in Chisinau



Covers major road sections using **wired and wireless** networks.

Snapshots traffic violation in real time.

Collaborates with the public security department to fight crimes.

Develops the system in a unified manner, reducing **40%** investment costs.

# Wireless Heathrow Airport



- Bears voice, data, and video services using **1** network.
- Supports a maximum of **20,000** terminal devices.
- Employs **4G** technologies to future proof the network.



# Smart Education in Gauteng



- Develops a unified **regional** education cloud.
- Covers **2,200** schools.
- Offers **88,000** e-Schoolbags.



# Huawei's Footprints in More Than 30 Countries



Huawei takes part in **100+** Smart City plan and construction





A night view of Earth from space, showing city lights and a starry sky. The image is dominated by a deep blue color palette. The top half of the image is a dark, starry sky with numerous small white stars. A thin, bright blue line of light separates the sky from the Earth's surface. The bottom half of the image shows the Earth's surface, with a dense network of white and yellow lights representing cities and urban areas. The lights are concentrated in the lower half of the frame, with some larger, more prominent clusters. The overall effect is a sense of global connectivity and a vast, interconnected world.

Join us in building a better connected world