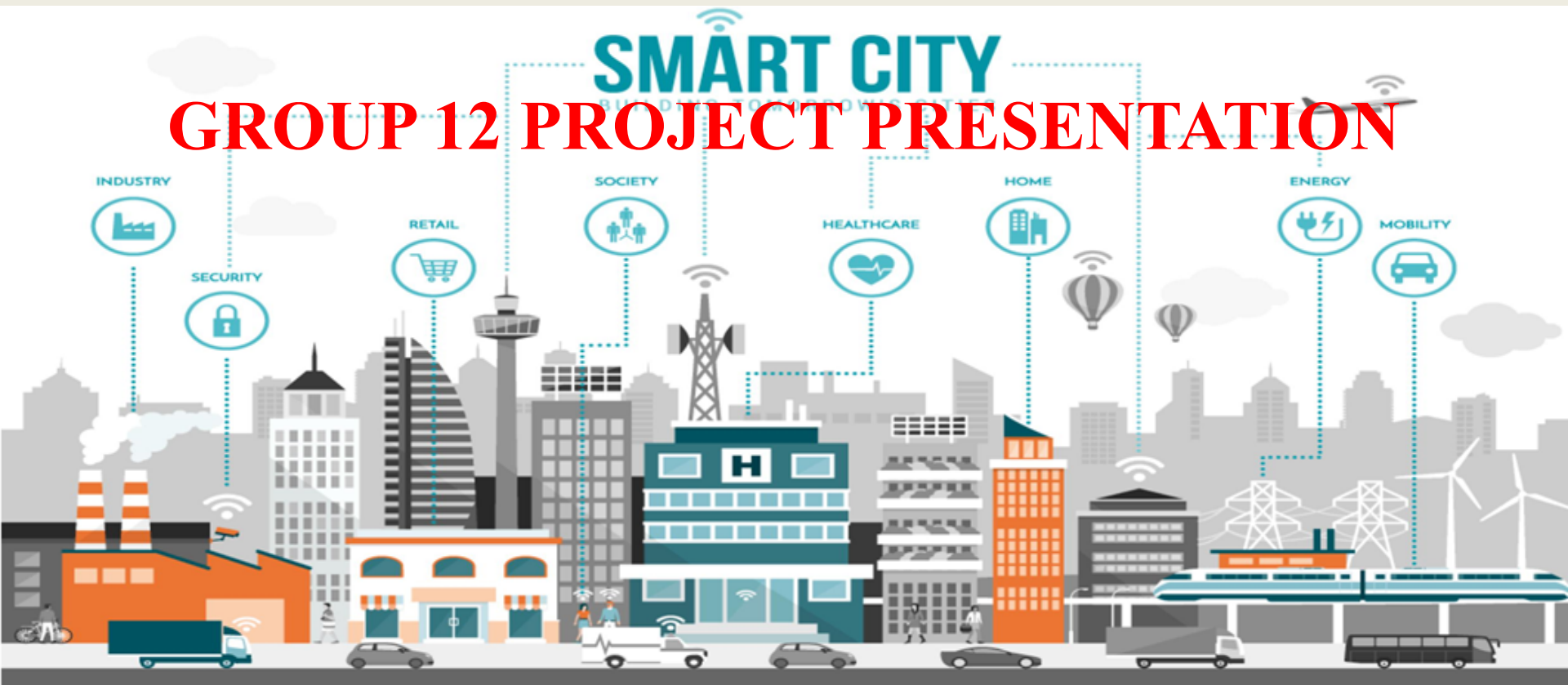


# GROUP 12 PROJECT PRESENTATION



ON

# IMPLEMENTATION OF SMART CITIES -- PLANNING AND CONSIDERATIONS

PRESENTED BY:  
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# Outline

- 1. Introduction**
- 2. E-Government And Citizens' Participation**
- 3. Safety and Security of Citizens in Smart City**
- 4. Sustainable Environment**
- 5. Conclusion**

# INTRODUCTION

With nearly half of the world population living in cities, a Grand View Research on Smart Cities Market says that number is expected to reach 68% by 2050, governments are facing a huge challenge in terms of housing, place to place connectivity, power supply issues and so on. That is when the concept of Smart City comes in. Smart City use data as a foundation.

This Report will concentrate on introducing the technologies being used to bring the concept of Smart Cities



# E-Government And Citizens' Participation



□ E-Government effectively manages sectors like transportation, telecommunications, healthcare, security, education, environment etc.

□ Only through proper management of these channels,

our governments can design and implement policies which are effective for society as a whole.

□ Our leaders, bureaucrats, government officials need smart systems and tools to coordinate across different departments, agencies, sectors in order to have access to real time data, sharing of information and implementation of new welfare and development schemes.

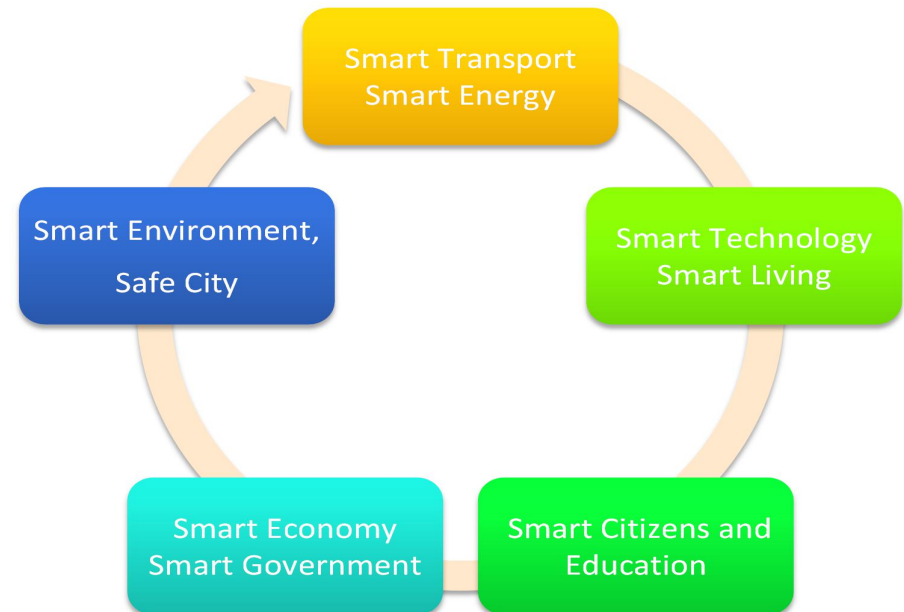
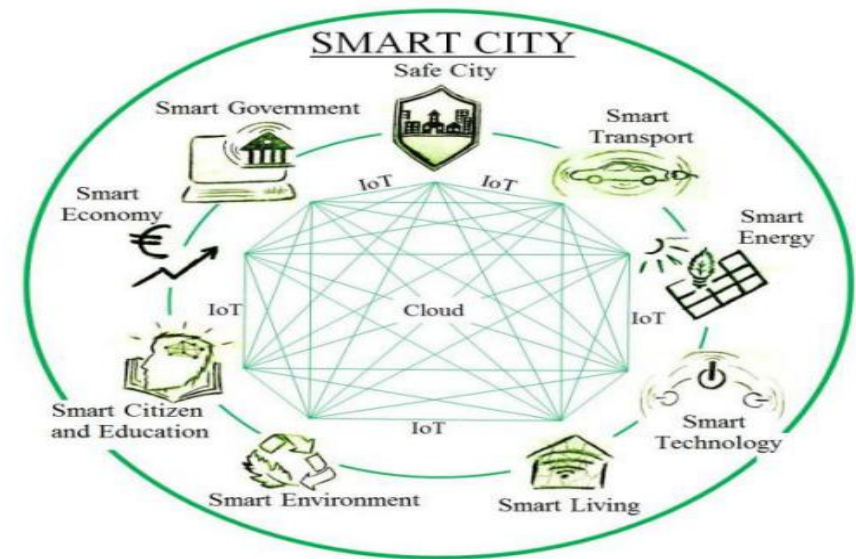
□ Citizens are an important aspect of smart cities. A city cannot be built smart until

and unless citizens participate in the transformation

# Safety and Security of Citizens in Smart City

Safe City system should include following features:

- Healthcare
- Smart traffic systems and routes
- Smart safety systems for surveillance, search, detection and identification
- Smart systems of crisis management to support decision making, early warning, monitoring and forecasting emergencies and environmental situation,
- Centrally operated units of police and Integrated Rescue System (IRS),
- Safe internet connection and data protection,
- Centers of data processing.





# Safety and Security Information to Citizens in Smart City System

Creation of informative sheets of dangerous materials, databases of available sources, personnel and possible threats,

Provision of early warning and notification system

Crisis Management Feature

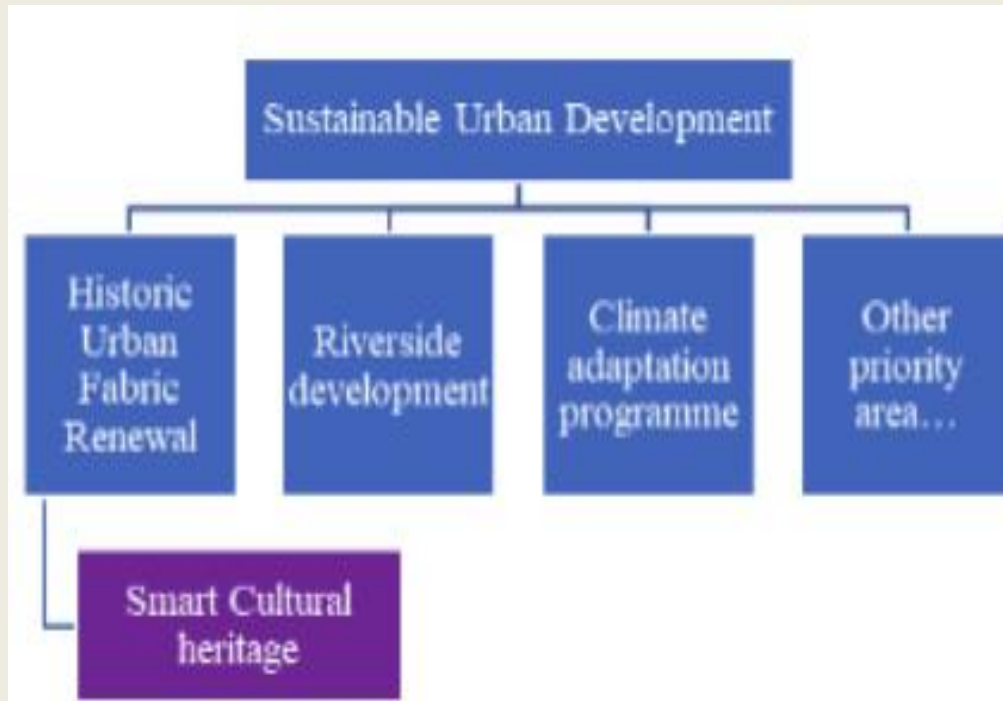
Support of decision making and salvage operations coordination

Fast and reliable exchange of information during emergency reaction.

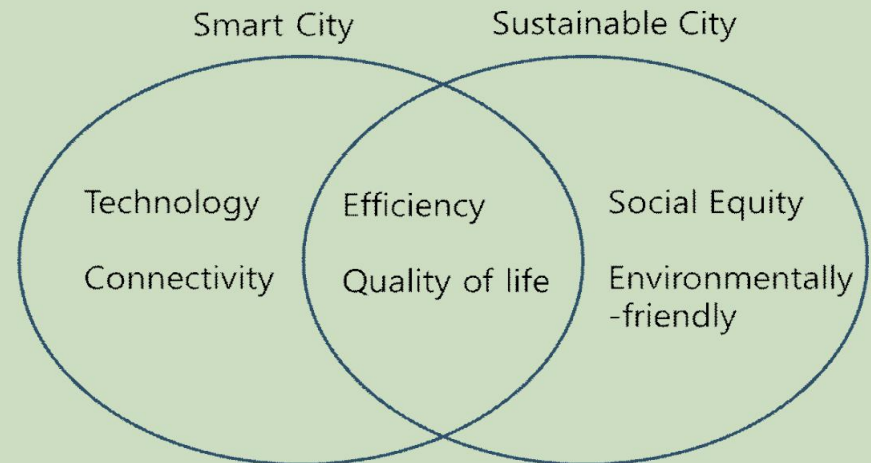


# Sustainable Environment

- ❖ The benefits of sustainable environment in a smart city include: safety, time, health, connectivity, jobs, and , huge improvements in cost of living can all be realized.
- ❖ Smart-city solutions such as air quality monitoring, energy use optimization, and electricity, water, and waste tracking can produce results such as 10-15% fewer GHG emissions, 30-130 fewer kilograms of solid waste per person per year, and 25-80 liters of water saved per person per day.



〈Figure 1〉 Comparison of smart city and sustainable city components





# ASSURED ELECTRICITY OR POWER SUPPLY IN SMART CITY

## Some Notable elements of Smart Grid

- Grid automation
- Changing from distributed utilities to smarter grid
- Used of Micro grid
- Penetration of smart meters to rise exponentially in grids across smart cities
- Cloud services will encourage new business models



# Conclusion

- During the last years, smart cities have attracted considerable attention because they are considered a response to the complex challenges that modern cities face. Smart cities provide new solutions in the domains of mobility, environment, economy, governance, quality of life, and education thanks to the innovative use of Information and Communication Technologies (ICT).
- However, smart cities often do not optimally reach their objectives if the citizens, the end-users, are not involved in their design



**Thanks for your  
Attention!!!**