Enabling Smart Cities

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3 GENERATION OF SMART CITIES

Smart Cities 1.0

Technology Driven

Smart Cities 2.0

City Driven, Technology Enabled

Smart Cities 3.0

Citizen Co-Creation

Cohen (2015)

MALAYSIA SMART CITY FRAMEWORK

Derived from Key Urban Challenges

- Low productivity in the current economy
- Inadequate creation of high value-added jobs
- Low level of readiness to transition to high value-added industries
- Weak development of innovative businesses and Enterprises
- Relatively high crime index
- Increasing demand for healthcare services
- Low internet speed and Connectivity

- Unsatisfactory indoor and outdoor mobile network coverage
- Cyber security threats
- Loss of green area
- Improper solid waste management
- Air & Water Pollution
- Flash flood
- Landslide
- High rate of non-revenue water
- High usage of non-renewable energy
- High carbon footprint
- Lack of public information sharing from government
- Low quality in e-government services
- Lack of information and data sharing in and between government agencies

- Low moral intelligence and low social integrity
- Low skilled manpower and talented human capital
- Lack of harmonious public interactions and community empowerment
- Lack of gender-friendly environment and inclusivity of vulnerable groups
- Low adaptability to emerging Technologies
- Traffic congestion
- Low rail ridership and high private vehicle ownership
- Poor first and last mile connectivity and Accessibility

"There are too many smart city players working in silos, hindering smart city development as a whole"

Tun Dr Mahathir Mohamad
Cities 4.0 Conference and Exhibition 2019
23 September 2019

MALAYSIA SMART CITY FRAMEWORK

Smart City Component to Address The Key Urban Challenges

Smart Economy Smart Living Smart Environment Smart People Smart Government Smart Mobility Smart Infrastructure

HOW TO ENABLE THESE SMART CITY SERVICES?

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Enabling
Smart Building

Customer's Objective:

To have a building that is not just green and sustainable but also makes life easier for the tenants, users and manager
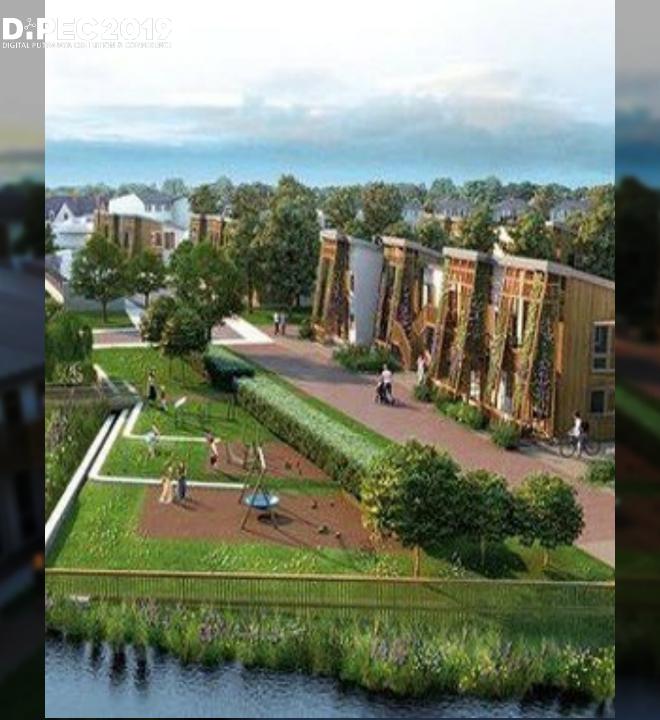
Life Made Easier™ | TM Group

Enabling
Smart Community

Customer's Objective:

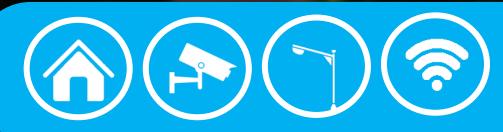To create a safe and comfortable environment for the residents

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Smart Village

Customer's Objective:

A modern village that could uplift the lifestyle socio-economic condition of the villagers

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Smart Integrated Commercial

Customer's Objective:

An integrated commercial center for better and easy tenant management

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OUR METHODOLOGY

Technology should be the last, not the first consideration. Citizen is the first consideration.

WHAT **PROBLEMS** ARE WE SOLVING?

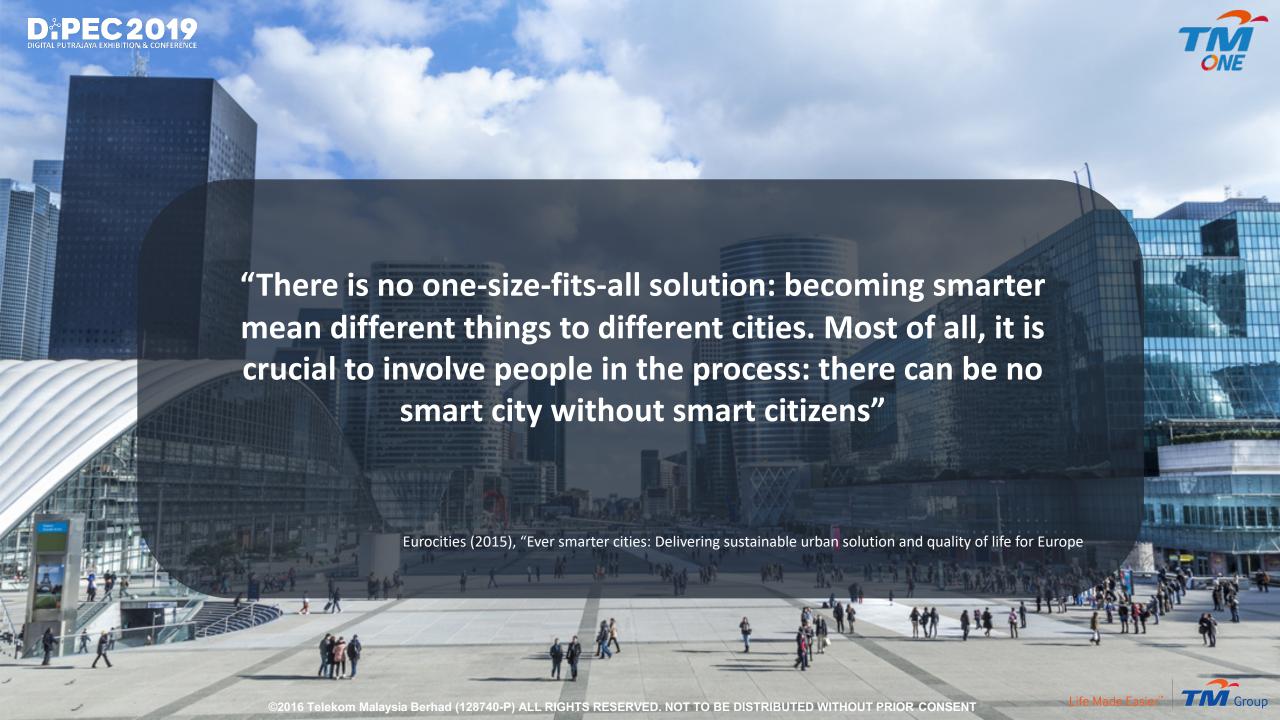WHOSE **PERSONA** ARE WE ADDRESSING?

HOW CAN THE SMART CITY BE **SUSTAINED**?

needs of people

WHO ARE THE PLAYERS WITHIN THE **EXISTING ECOSYSTEM** THAT WE CAN LEVERAGE ON?

empower existing players to ensure a healthy **ecosystem**

WHAT **TECHNOLOGY** CAN ADDRESS ALL OF THE ABOVE CONSIDERATIONS?

the technology choice should enable the solution to **intuitively adapt and respond** to the problem

"There is no one-size-fits-all solution: becoming smarter mean different things to different cities. Most of all, it is crucial to involve people in the process: there can be no smart city without smart citizens"

Eurocities (2015), "Ever smarter cities: Delivering sustainable urban solution and quality of life for Europe

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Thank you!

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