ASEAN Smart Cities Network High Level Meeting

Tsukuba Smart City

Tatsuo Igarashi, Mayor of Tsukuba City

December 16th, 2020

240,000 Population

- 20,000 Researchers
- 8,000 Ph.D.
- 9,300 Foreign Residents

  from 132 countries

- 4 Nobel-Prize winners

Our Mission

"It's to contribute to humankind by improving people lives through science and technology."

Living with New Mobility

＜ Our ongoing initiatives＞

• Selected as a "Smart City Model Project" by Ministry of Land, Infrastructure, Transport and Tourism

• The first test driving of autonomous electric wheelchairs on public roads in Japan

• Promoting demonstration test of utilizing facial authentic technology linked to bus boarding/exit and payment

• Aiming to provide safe, secure and user-friendly transportation services for citizens, including the elderly and other vulnerable road users.

Tsukuba Society 5.0:
Support Project for Trial Implementation in Society

＜**Outline**＞

・Recruit innovative technologies and ideas from around the country.

・Provide venue for implementation, subsidy and support promotion.

2020's Theme: How we live after and alongside COVID-19

・We invited experiments to tackle issues in the City, so that the residents can live safely, as well as revitalizing the City's economy while reducing the risk of infection.

・Online voting through smart phones using "My Number Card" (Individual Number Card) and biometric identification technology.

Digitalizing Health Management at Schools

＜Our initiatives so far＞

•We work with a Tsukuba-based startup company, LEBER and make use of its medical consultation app called "LEBER".

•Parents/Guardians record their child's body temperature in the app every morning. Telemedicine consultations with doctors are also possible through the app.

•The app makes it easy for schools to manage children's health. It also analyzes trends of the whole school or class.

Project to Prevent the Spread of Infection Using Disinfection Robots

＜**Our ongoing initiatives**＞

• We will introduce disinfection robots using

cutting-edge technology in the City's public

facilities.

⇒This will enable us to reduce the infection

risk and maintain the facilities safe and

secure.

CYBERDYNE Inc.
Disinfection Cleaning Robot CL02

DOOG Inc.
UV-C Disinfection Robot

Outline of Proposal for "Tsukuba Super City" (Tentative)

＜**Concept**＞

"Empowered Citizens and Inclusive Communities"

In the spirit of "Leave No One Behind", the city will
- Connect between citizens and government,
- Bring out each person's diversified abilities,
- Combine knowledge of world-class science and technology and

Become a super city for all citizens to solve social problems

＜**How to achieve**＞

➢ **Expansion of the use of "individual number card"**
➢ **Development of digital infrastructure**
➢ **Implementation of services to solve local problems**

Digital transformation of the entire city

Ethical Principles for Tsukuba Smart City

Respect for autonomy
・ Provide multiple choices to citizens.
・ Transparency is guaranteed, and citizens can make decisions upon understanding the mechanism.

Nonmaleficence
・Citizens shall not be exposed to physical, mental or economic harms.

Beneficence
・Provide benefits to society and citizens.
・Benefits shall always outweigh unavoidable losses.

Justice
・ All residents shall be treated fairly and impartially regardless of their age, gender, race, religion, ideology, economic circumstances, etc.
・ Disparity between citizens shall not increase due to smart city development.