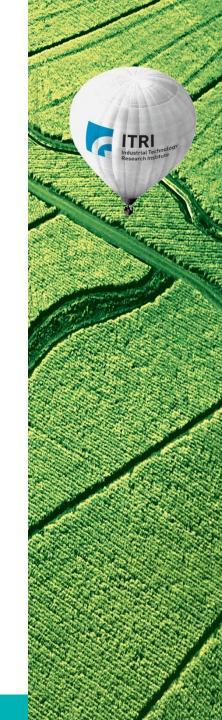


Sustainable Green City 打造循環永續的綠色城市

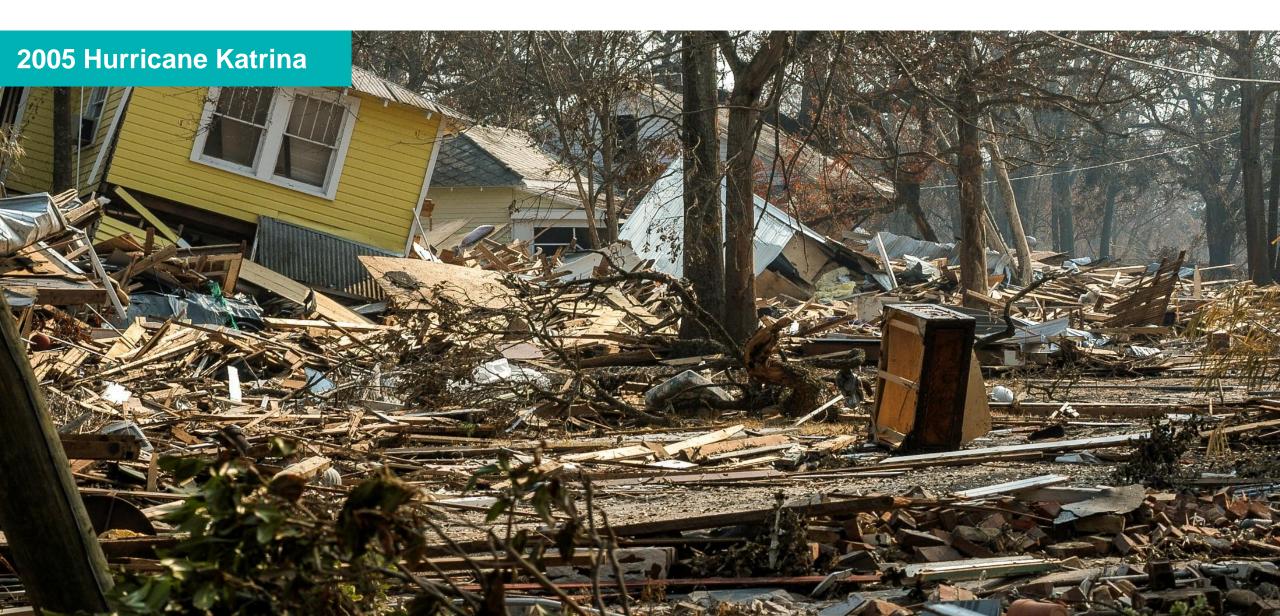
Edwin Liu
President
Industrial Technology Research Institute

2019.7.18





Power of Mother Nature



Power of Mother Nature

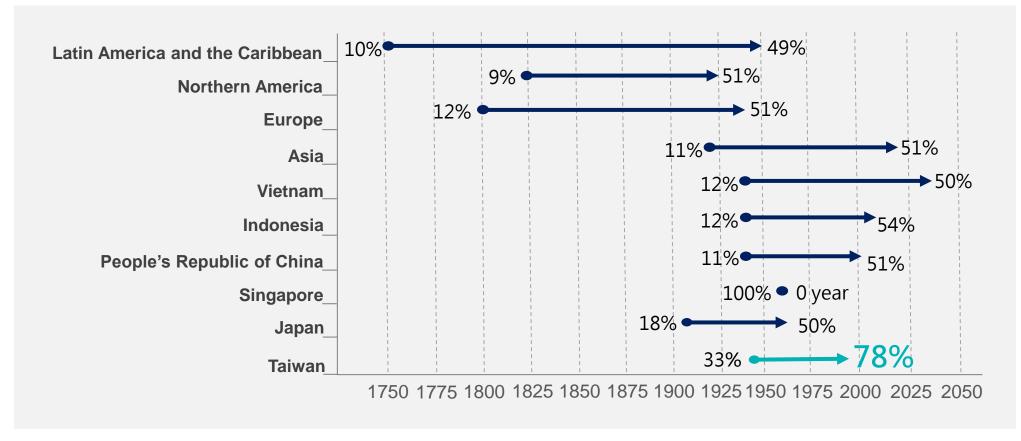


Power of Mother Nature



Speed of Urbanization

- Urbanization in Asia: 2-3 times faster than that in USA or Europe
- 68% of the world population projected to live in urban areas by 2050



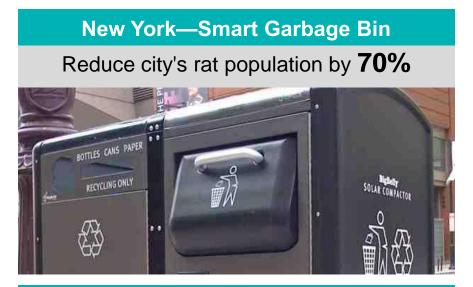
Source: Reports from Asian Development Bank, United Nations & National Taiwan University



Copyright ITRI 工業技術研究院 版權所有

Excitement of Digitalization

Digital solutions for a more livable future



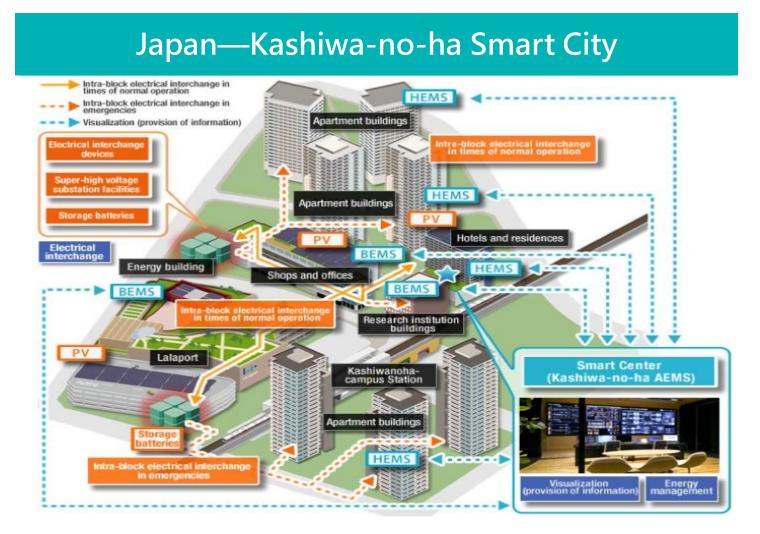




Taiwan—Electronic Toll Collection (ETC)

Excitement of Digitalization

Digital solutions for a more livable future

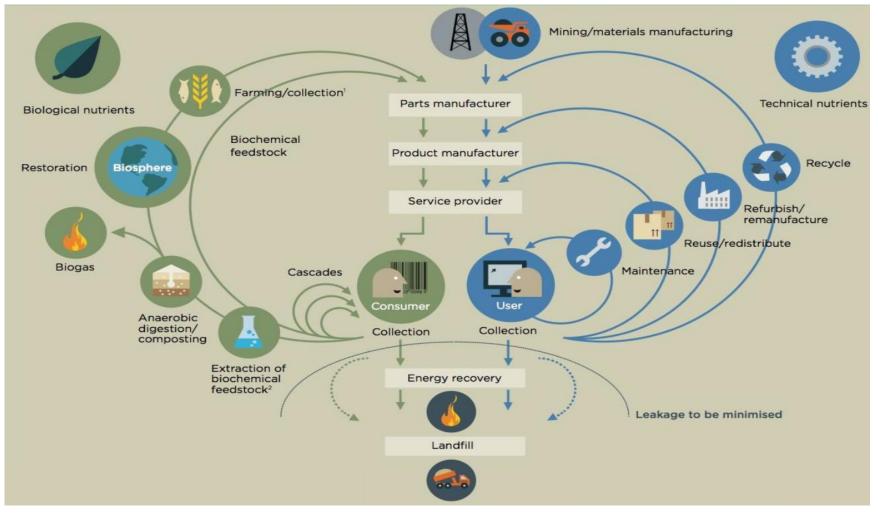




Source: ITRI/ISTI (2017/11)

Awareness of Sustainability

Circular Economy is replacing Linear Economy



Source: Towards the Circular Economy Economic: Business Rationale for an Accelerated Transition - Ellen MacArthur Foundation



Migration to Futuristic Society

- Balance economic advancement and societal problem solving
- Move towards customization, personalization, individualization
- Take advantage of natural resources and technology innovations
- Offer smart living, quality health, and sustainable environment
- Restructure the foundation for positive energy districts





Smart Green Energy Science City (SGESC)

- Build a low-carbon, energy efficient, and sustainable community
- Link with industrial parks within a 45 km radius of Shalun to form a new "smart living" cluster
- Green Energy Demonstration Field
 - Establish a platform for co-creation
 - Demonstrate energy creation, storage, conservation, and system integration



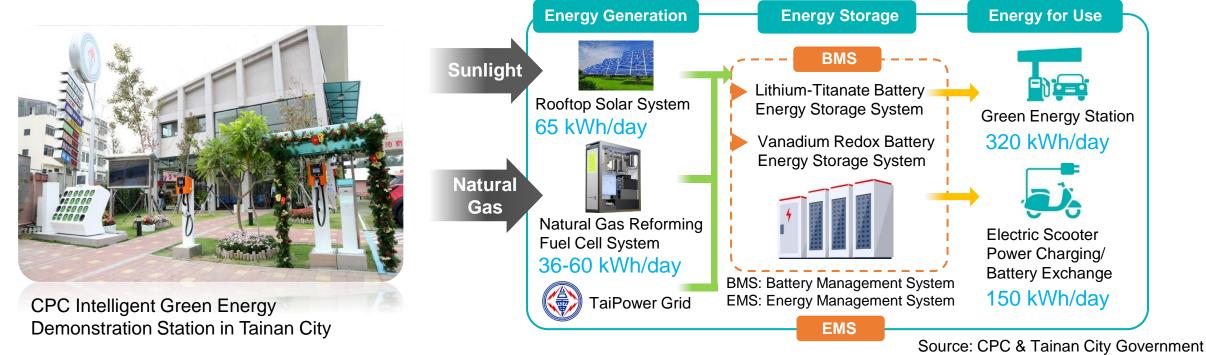
Green Circular Village





Intelligent Green Energy Demonstration Station

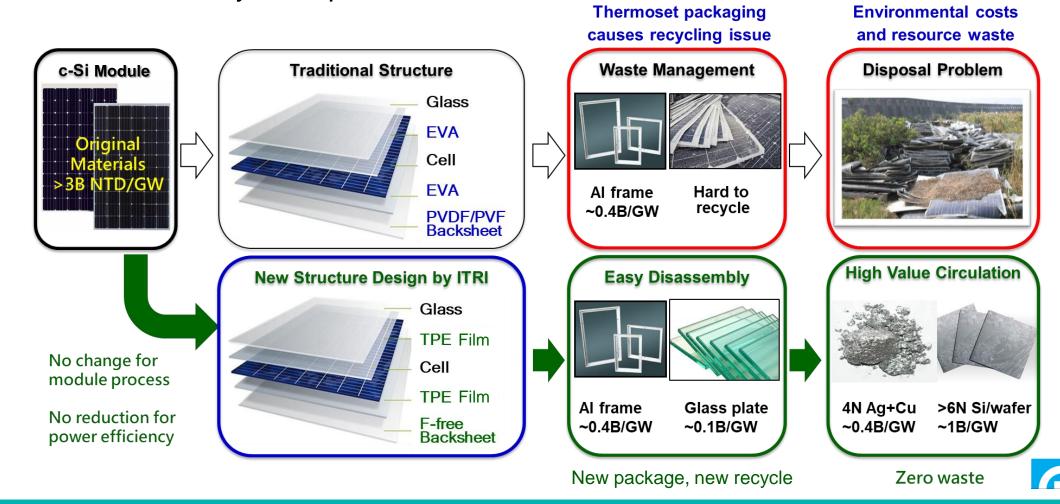
- The era of electric vehicles is coming. The future charging peak will affect the city's power supply.
- CPC transformed the gas station into an intelligent green energy station, a regional energy dispatch center that expands the service market.



Copyright ITRI 工業技術研究院 版權所有

PV Module Redesign

- Redesign with new materials that allow PV modules to be recycled easily
- Establish industry R&D promotion alliances



ITRI

Innovating a Better Future

Human beings are to seek for co-existence with Mother Nature!

