

A Ubiquitous Service Model for Realization of Sustainable Capacity Development with Spatial Asset Mapping

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Korea

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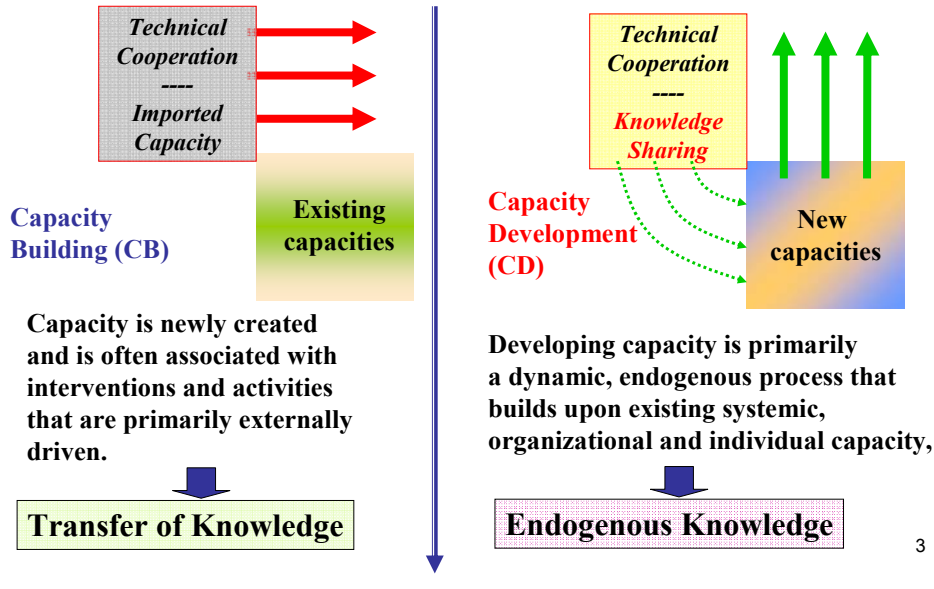
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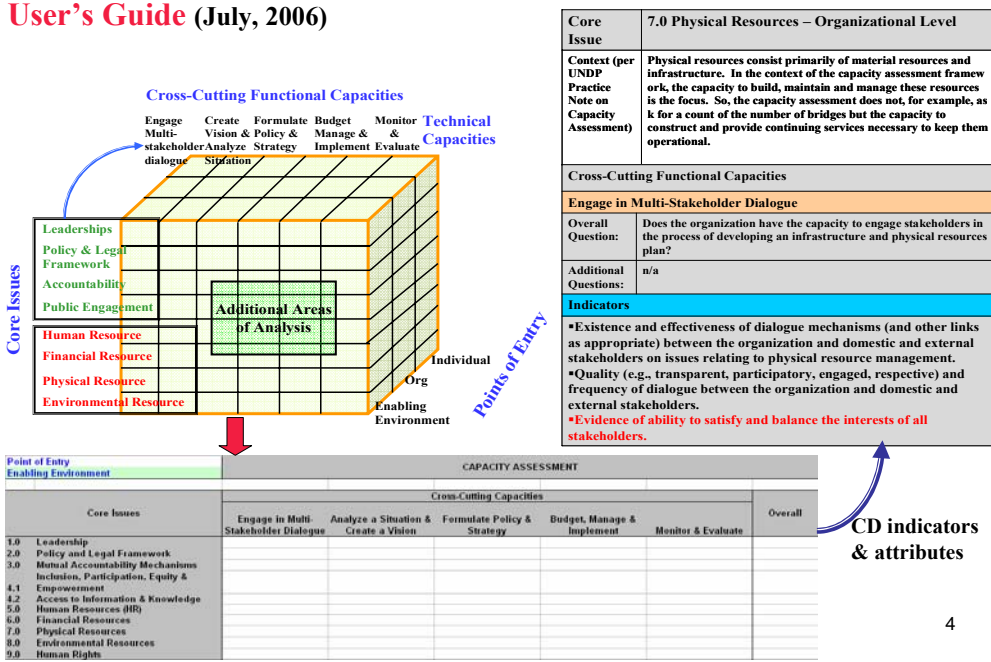
- **I. Review of CD and SCD**
- **II. Sustainability Problems and UN Millennium Development Goals**
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- **V. A Ubiquitous IT Services for SD in U-City (or Digital City)**
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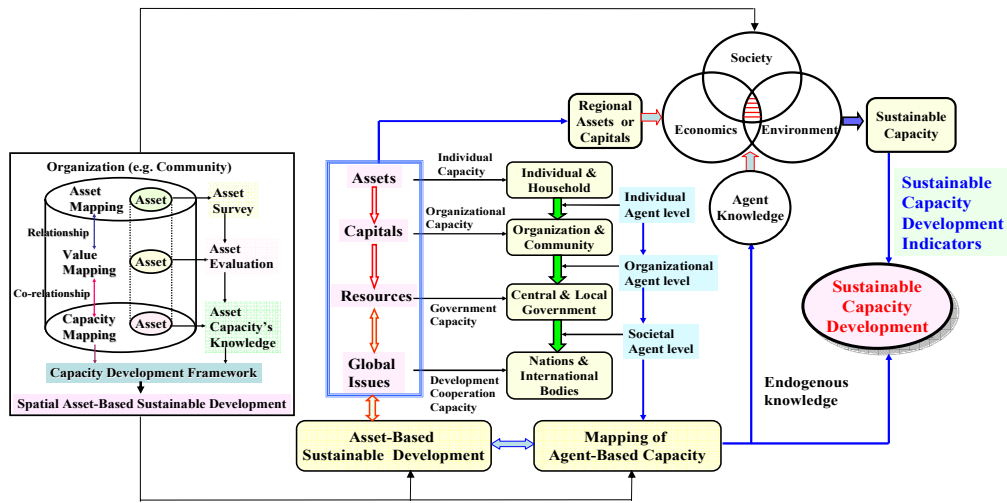
UN Definition of Capacity Building (CB) and Development (CD)



UNDP Capacity Diagnostics Methodology User's Guide (July, 2006)



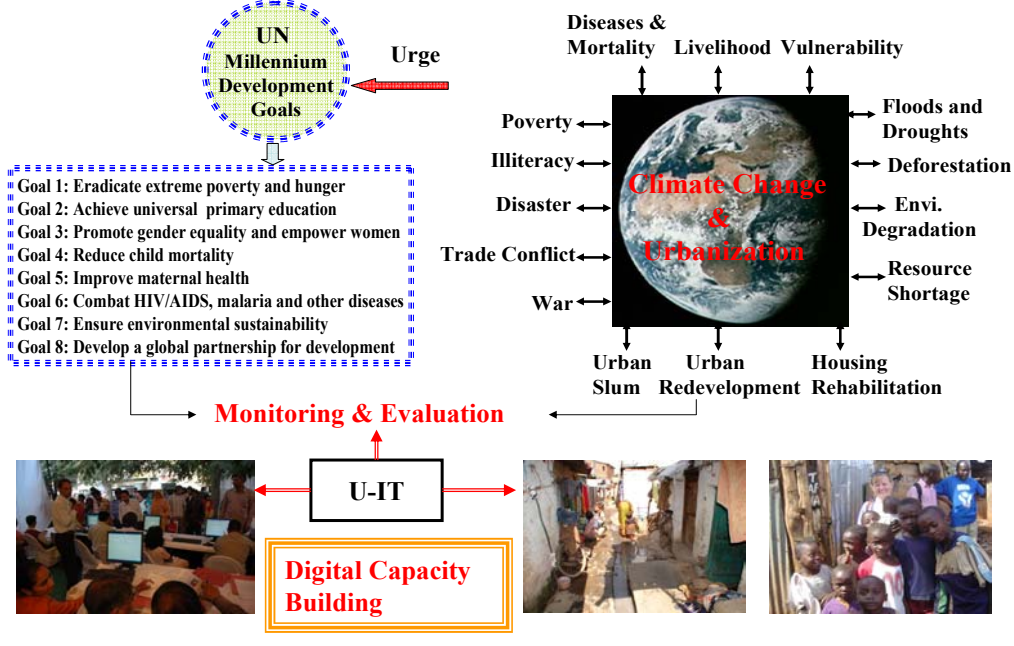
Measuring SCD using Agent-Based Spatial Asset Mapping

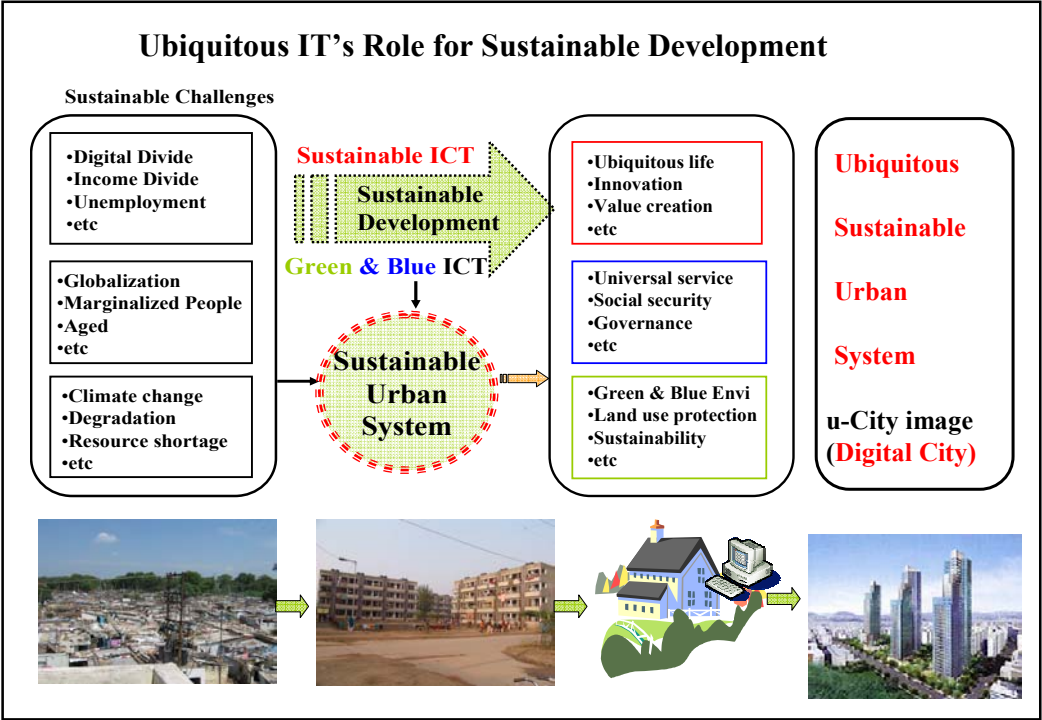
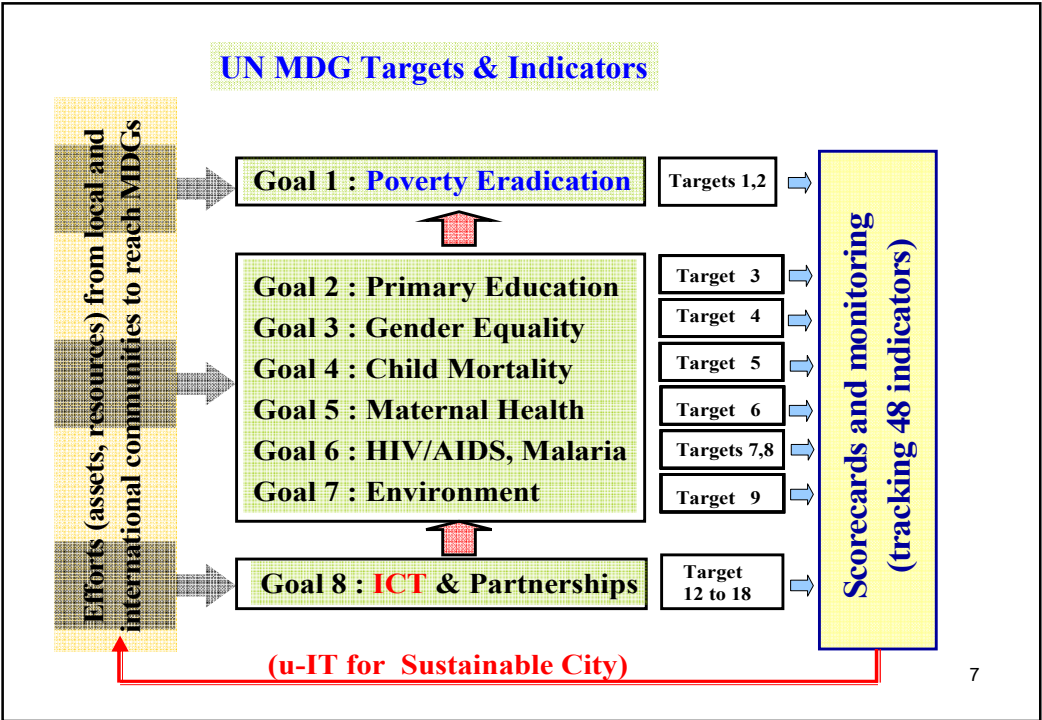


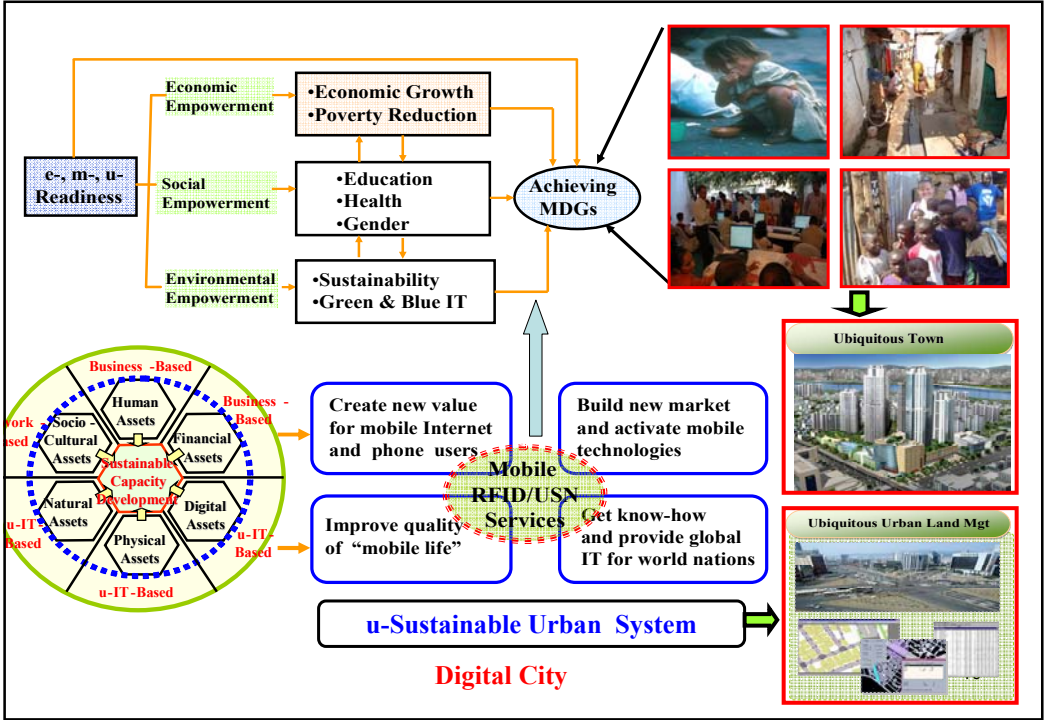
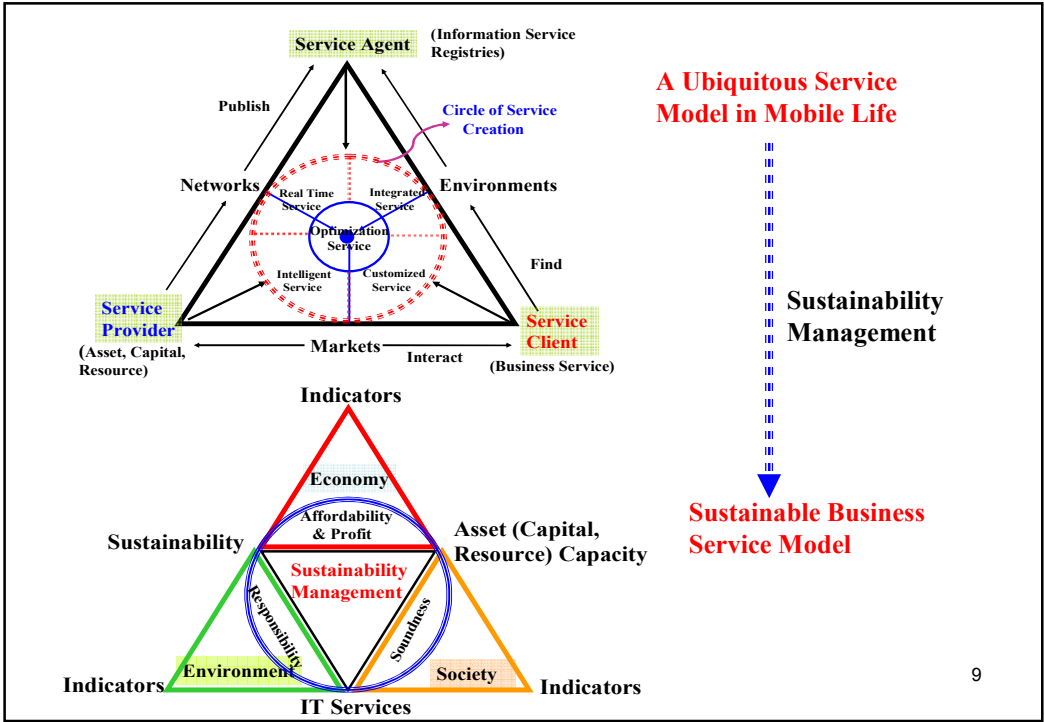
SCD is defined as sustainable capacity for agent's ability to perform their functions, ensure better quality of life and, achieve CD through sustainable use of assets, capitals and resources (Liou, 2007)

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Sustainability Problems and UN Millennium Development Goals







**Celebrating and Challenging
Business Solution for
Harmonious Cities**

Challenge 1:
Green Technologies for Cities

Challenge 2:
Water, Sanitation and water
management for healthy
urban living



Challenge 3:
Affordable Land
and Housing

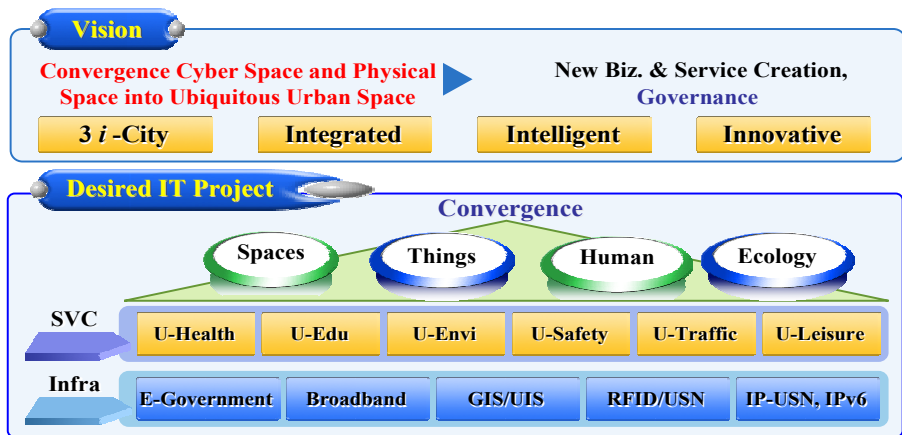
Challenge 4:
Disaster Prevention,
management
and reconstruction

Challenge 5:
The Digital City

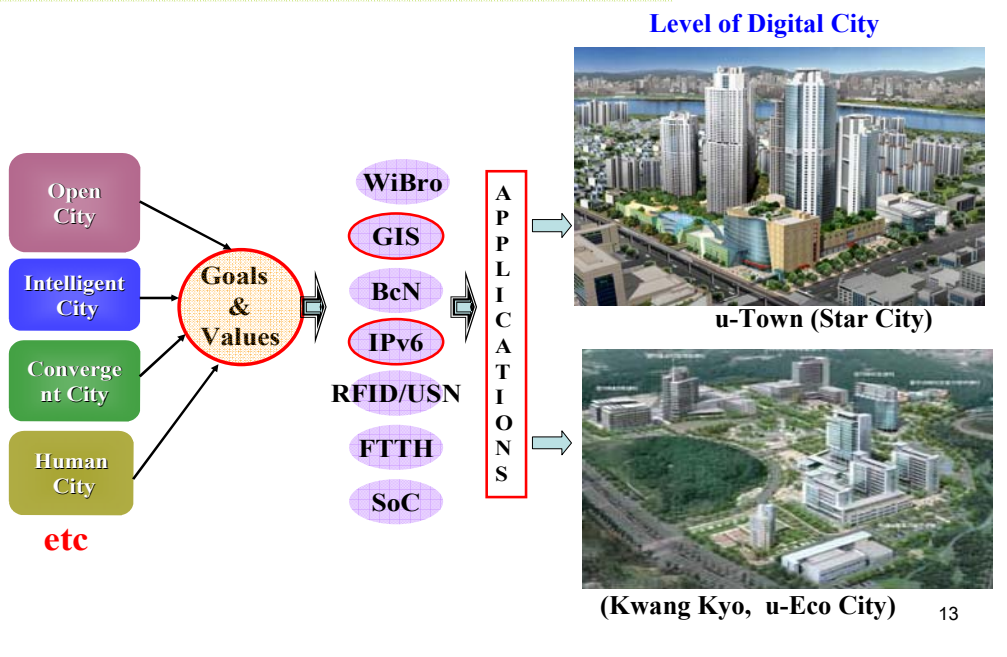
Digital City is the ultimate goal of ubiquitous sustainable city

Context & Characteristics of u-City (Digital City)

u-City, an advanced digital city that connects people and the computer systems anytime, anywhere, will make city life easy and intelligent using cutting-edge technology such as RFID, USN, BcN, w-Lan etc

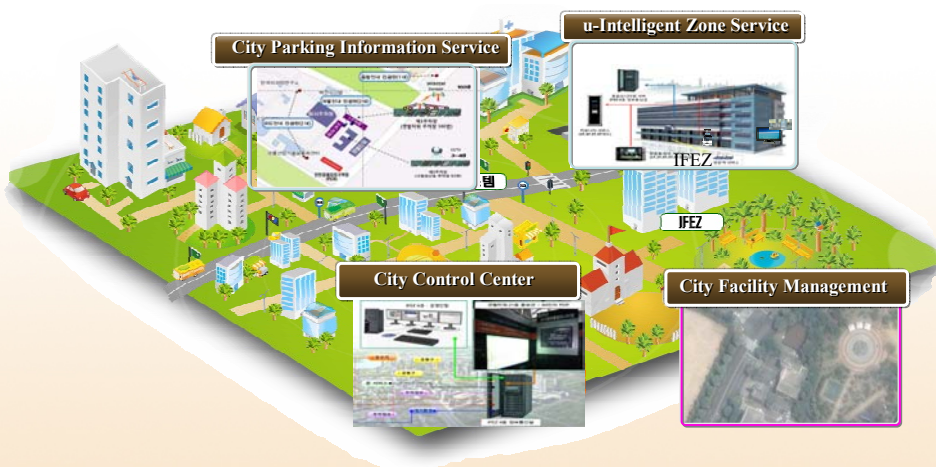


New Concept for Digital Eco City in Korea

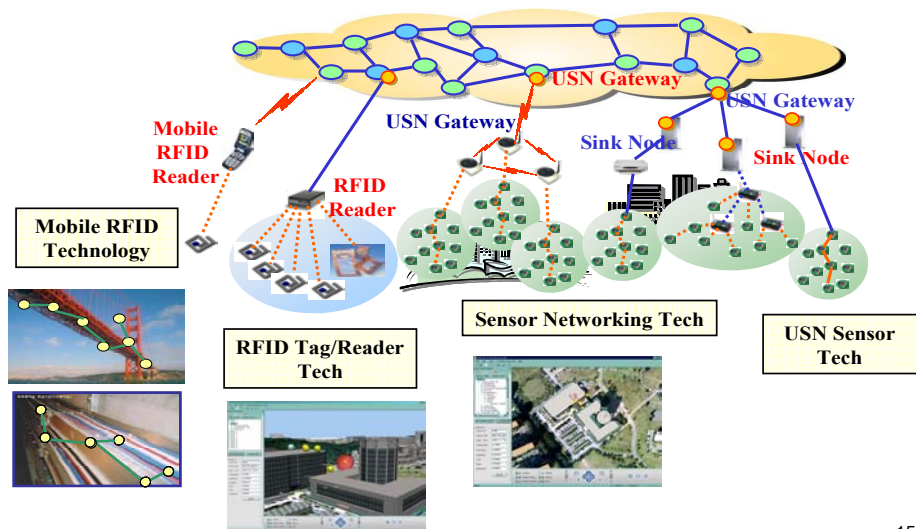


Promoting Government Pilot Project in Inchoen City, Korea

2007 MIC u-City Test bed Pilot Project



Implementation of SCD with Ubiquitous Spatial Asset Mapping



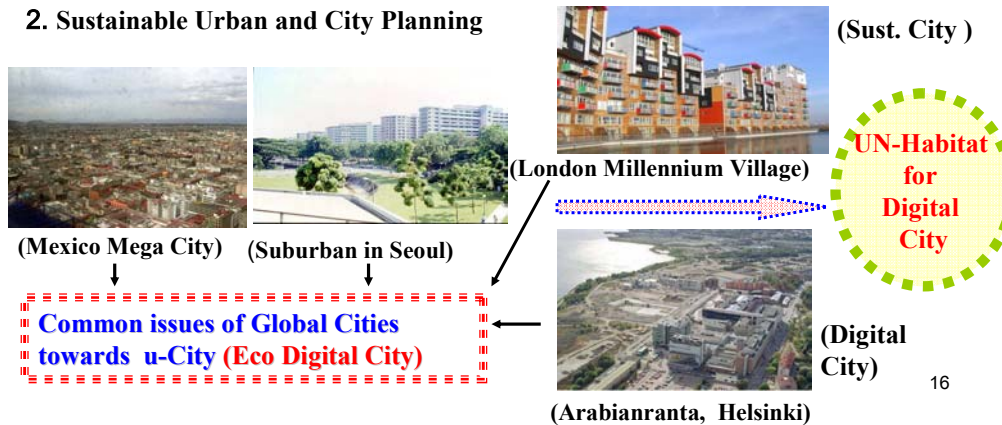
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Challenges and Futures of UN-HABITAT

1. Understandings of Global City Agenda

- 1-1: The City coping with informal hyper-growth
- 1-2: The City managing dynamic growth
- 1-3: The Mature city coping with ageing

2. Sustainable Urban and City Planning



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Possibilities of Digital City in Europe



**Urban Renaissance UK:
New East Manchester**



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**Urban Renaissance Europe:
Amsterdam, Java Island**



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Edge City, European Style: Amsterdam Zuidas



Paris Orbitale: Creating a New CBD → Smart CBD



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Thames Gateway: Stratford 1999, 2012 ⇒ Smart City ??



Eastern Quarry to Ebbsfleet Valley, 2015



Contributions to UN and Future Works

- Review of CD and SD for SCD
 - U-IT for Sustainable Development
 - Ubiquitous Service Model based on SOA
 - New approach to Sustainable Business Service Model
 - u-IT Services for SCD in u-City (**Digital City**)
-
- Could u-IT and its Service Model effectively assist CD and SD ?
 - Sustainable Business Service could be regarded as a goal of SCD ?
 - u-IT (or **Digital City**) for SD in UN organizations (UNHABITAT, UNDP, UNEP, etc) and national governments