Online Pre-Workshop

NEASCN

Northeast Asia Smart Cities Network

WeGO
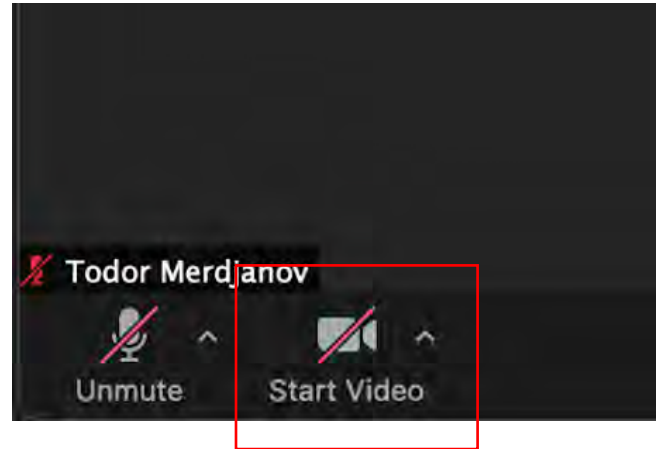
Welcome!

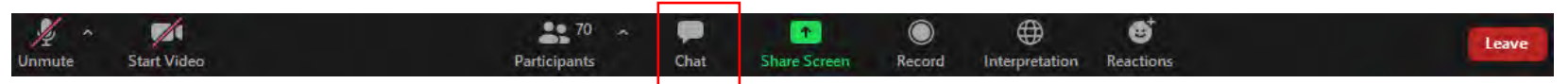**Eunbyul (Elena) CHO**

Program Manager
World Smart Sustainable Cities Organization (WeGO)

Workshop Guidelines

Video & Audio Settings

Ask a Question

PROGRAM

15:00   **Greetings from WeGO Secretary General**

15:05   **Introduction of WeGO and NEASCN**

15:10   **SESSION I. Smart Cities Network Partners in Northeast Asia**

Nobutsugu Miyama, *Program Officer, Trilateral Cooperation Secretariat (TCS)*
Alexander Prilepin, *Office Head, Union of Russian Cities (URC)*
Tserendulam SH, *Director, Healthy Cities Network of Mongolia (HCNM)*
Shinjoon Park, *Manager, Korea Land and Housing Corporation (LH)*
Teng Leng Lim, *Deputy Director, Centre for Liveable Cities (CLC)*

Q&A

15:40   **SESSION II. Smart Projects in Northeast Asia and Project Financing**

Part I. Presentations by Cities & Partners

Dajun Wang, *Deputy Director, Shanghai Municipality*
Shu Zhu, *Regional Director, ICLEI East Asia Secretariat*
Daesik Lee, *Director, Yeosijae (Future Consensus Institute)*
Sungchan Cho, *General Director, Hananuri Academy of Northeast Asian Studies*
Calvin Chua, *Associate Head of Programs, Choson Exchange*

Part II. Discussion with Financing Experts

Sungsoo Jung, *Director, Economic Development Cooperation Fund (EDCF)*
Seok Yong Yoon, *Principal Specialist, Asian Development Bank (ADB)*

Q&A

16:40   **Introduction of NEASCN Task Force**

16:45   **Takeaways and To-Do List for Inaugural Meeting of NEASCN**

Opening Remarks

Kyong-yul LEE

Secretary General
World Smart Sustainable Cities Organization (WeGO)

Introduction of WeGO & NEASCN

Eunbyul (Elena) CHO

Program Manager
World Smart Sustainable Cities Organization (WeGO)

Introducing WeGO

"Smart Sustainable Cities for All"

December 9, 2020

Eunbyul (Elena) CHO | Program Manager

![WeGO logo]

VISION

Smart Sustainable Cities for All

MISSION

❑   To promote and facilitate the **transformation of cities** to smart sustainable cities worldwide

❑   To be a **global platform** for cities to transform into smart sustainable cities

❑   To foster **international exchange, cooperation, and networking** among members

208 Members
157 Local Governments + 34 Corporations + 19 Institutions

What We Do
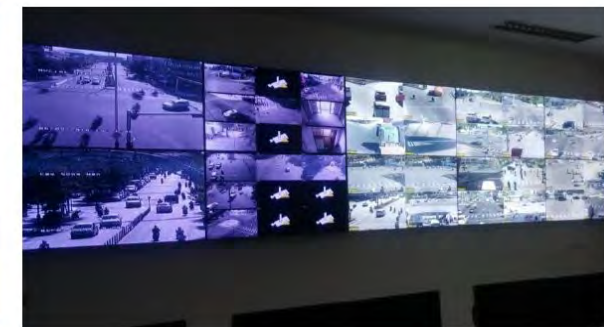
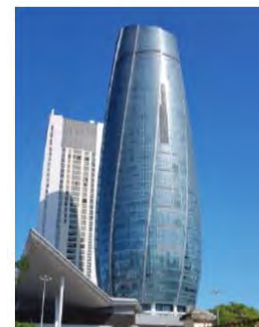## Training Programs & Workshops

Feasibility Studies & Pilot Projects

WeGO Feasibility Study Program 2018

Data Analytics Platform for Smart Traffic in Da Nang
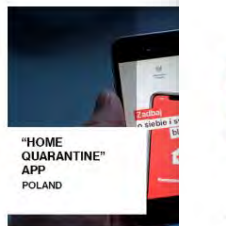
IGB & COMPANY | WeGO World Smart Sustainable Cities Organization | Data Streams
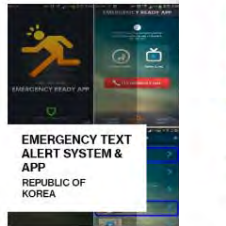
What We Do

Smart City Events

WeGO Regular Meetings

Smart Solutions, Videos & Webinars, and Need Assistance?

Smart City Driver

WeGO SMART CITY DRIVER

WeGO's new overarching framework for cities
to **help, plan, finance and deploy their smart city projects**
through a range of customized solution packages
and matchmaking with strategic partners that can assist in citywide implementation.

WeGO Activator

An **innovative and collaborative online platform** that helps WeGO members plan, deploy, and finance smart city projects and exchange knowledge with each other. Serving as the main enabler of the WeGO Smart City Driver, the Activator is used to streamline the application process for the Solution Finder and the Project Implementer.

WeGO Solution Finder

A newly launched **systematic, comprehensive survey** that extracts key data on ongoing or prospective smart city projects by local governments – at any stage of their lifecycle–which is then used to **pinpoint and propose "packages" of solutions** that can contribute to and strengthen the resources necessary for successful, citywide implementation.

WeGO Project Implementer

WeGO flagship program to help cities assess their current smart city development status, draw practical strategies and implement projects that align with the local and/or national development goals and plans, **in cooperation with the selected consultants.**

WeGO is

▶ **A Platform**   Global Network of Partners for the Improvement of Cities Around the Globe

▶ **A Service**   Access to Exclusive Events, Business Opportunities

▶ **A Solution**   Joint Initiatives in R&D, Financial Support for Cities

WeGO
World Smart Sustainable Cities Organization

Introducing

NEASCN

Northeast Asia Smart Cities Network

WeGO

Northeast Asia

Home to **one fifth of the world's population and gross domestic product.**

Suffered from Asian Financial Crisis 20 years ago, quickly rebounded and regained status as the **world's fastest-growing region.**

By 2030, it is estimated that Asia will see a total economic growth of $15 trillion and a consumption increase of $21 trillion. Northeast Asia is located just at the meeting point of "**the Silk Road Economic Belt**" and "**the 21st Century Maritime Silk Road**."

Northeast Asia Smart Cities Network

PURPOSE

An open-ended regional network of city and other local governments across the region to spearhead smart city development and manage interregional relations in the context of NEASCN.

Northeast Asia Smart Cities Network

GOALS

One. Knowledge exchange and cooperation on smart city development

Two. Partnerships for consultation and funding toward feasibility studies and pilot projects

Three. Bankable projects with the private sector

Northeast Asia Smart Cities Network

KEY COMPONENTS

Smart City Action Plans

NEASCN Framework

NEASCN Annual Meetings

WeGO Smart City Driver

NEASCN Inaugural Meeting in 2021

Be a part of this network!

WeGo

SESSION I

Smart Cities Network Partners in Northeast Asia

WeGⓄ

SESSION I. Smart Cities Network Partners in Northeast Asia

Nobutsugu MIYAMA

Program Officer
Trilateral Cooperation Secretariat (TCS)

Alexander PRILEPIN

Head of the Project Office for Strategic Planning and Development of Territories of the Russian Federation
Union of Russian Cities (URC)

Tserendulam SH

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Healthy Cities Network of Mongolia (HCNM)

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Trilateral Cooperation on Smart City

Outcome of the CJK (China, Japan, RoK) Smart City Webinar and Future Direction

9 December, 2020

MIYAMA Nobutsugu
Program Officer

TCS Events: Economy and Trade
Public Seminars to Promote Trilateral Economic Cooperation

▲2019 Trilateral Entrepreneurs Forum
(July 22, 2019, Seoul)

"4th Industrial Revolution and the Future of
CJK Innovation Entrepreneurs"

▼5th CJK FTA Seminar
(September 2018, Beijing)

"Within and Beyond CJK"

Trilateral Cooperation Secretariat
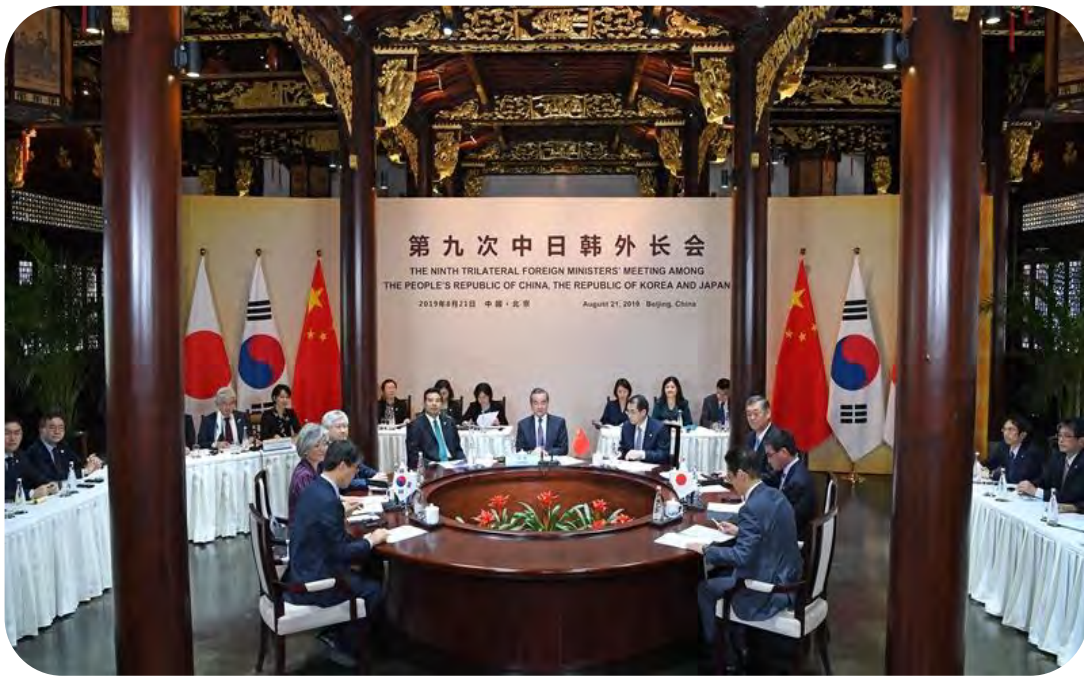
9th Trilateral Foreign Ministers' Meeting

(Beijing, China. 2019.8.21)

6th Trilateral Ministerial Meeting on Disaster Management

(Seoul, ROK. 2019.12.5)

Trilateral Cooperation Secretariat

Webinar on CJK (China, Japan, RoK) Smart City

Synthesizing Smart City Initiatives

2020.08.05 15:00-17:00 KST | ONLINE (ZOOM)

TCS Trilateral Cooperation Secretariat

WeGO

In Partnership With

CHINA CENTER FOR URBAN DEVELOPMENT

Smart City Institute Japan

Smart City Association

CJK Smart City Associations	• [China] China Centre for Urban Development (CCUD) • [Japan] Smart City Institute of Japan (SCI-J) • [RoK] Smart City Association, Korea
CJK Capital Cities	• [China] People's Government of Beijing Municipality • [Japan] Tokyo Metropolitan Government • [RoK] Seoul Metropolitan Government
CJK Private Sector	• [China] AliResearch (Alibaba) • [Japan] NEC • [RoK] Samsung SDS

TCS Trilateral Cooperation Secretariat

PANEL DISCUSSION
Synthesizing CJK Smart City Initiatives with the Private Sector

Jun Yang

Senior Expert of AliResearch
People's Government of Beijing Municipality

Yasunori Mochizuki

Fellow
NEC

Sung Jin Park

Principal Consultant, Strategic Business Development Group
Samsung SDS

Trilateral Cooperation Secretariat

Way Forward: CJK Cooperation on Smart City

- Further support for enhancing trilateral cooperation on smart cities

- TCS wishes to facilitate establishment of CJK Smart City Conference/ Platform

- The year 2021 marks TCS' 10th Anniversary – series of events
  TCS will organize events/conference related to CJK Smart City

Possible TCS Collaboration with NEASCN

- Co-organizes conferences

- Co-facilitate platform

- Trilateral + X

Trilateral Cooperation Secretariat

Visit Us!
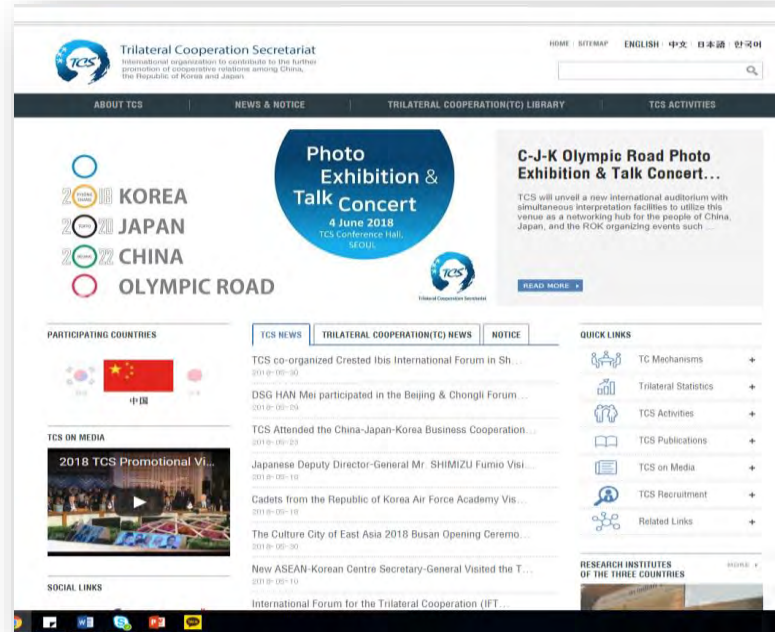
English: tcs-asia.org

Chinese: cn.tcs-asia.org

Japanese: jp.tcs-asia.org

Korean: kr.tcs-asia.org

- Trilateral Cooperation Secretariat
- 한일중3국협력사무국
- 日中韓協力事務局

- TCS tweet

- 中日韩三国合作秘书处

Trilateral Cooperation Secretariat

Thank you.

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СОЮЗ РОССИЙСКИХ ГОРОДОВ

UNION OF RUSSIAN CITIES

for Northeast Asia Smart Cities Network (NEASCN)
Online Pre-Workshop
December 9, 2020

Speaker
Alexander PRILEPIN
HEAD PROJECT OFFICE
Union of Russian Cities

30 years of active work for Russian cities' development

UNION OF RUSSIAN CITIES INCLUDES 91 MUNICIPALITIES with 47ml ppl

1991
date of its foundation

Powerful Resource Center

Close cooperation with government bodies of all levels

Experience exchange

2021
30th anniversary

Sustainable development of cities

«We, the heads of municipalities, have created a special communication platform, the Union of Russian Cities»

«We unite our human and other available resources to develop a common approaches to different challenges our municipalities are facing»

«We are always open for members of our organization, our colleagues from other associations to discuss together all the issues of our concern, find solutions, protect common interests»

UNION OF RUSSIAN CITIES INCLUDED 91 MUNICIPALITIES

GENERAL ASSEMBLY OF THE URC`S MEMBERS

PRESIDENT

EXECUTIVE DIRECTORATE

BOARD

EXPERT COUNCIL

PROJECT OFFICES

ENERGY EFFICIENCY AND SUSTAINABLE DEVELOPMENT

MUNICIPAL CONTROL

INFORMATION AND DIGITAL TECHNOLOGIES IN MUNICIPALITIES

PROGRESSIVE HOUSING

DEVELOPMENT OF PROPOSALS FOR IMPROVING THE SYSTEM OF LOCAL GOVERNMENT

INTERNATIONAL RELATIONS

STRATEGIC PLANNING

STATE AND MUNICIPAL-PRIVATE PARTNERSHIP

ALLIANCE-CERTIFICATION

LIVING HERITAGE

Multilateral Cooperation: URC's experience and perspectives

- **Expert Council – the best Russian experts on specific issues**

- **10 Project Offices**

- **Over 20 of the 91 cities are located in Asian part of Russia**

- **Expanded experience in multilateral cooperation**
  - **13 cooperation agreements with foreign municipal associations, including China, Japan, the Republic of Korea and international associations of cities and regional authorities**
  - **2020 – 12 video conferences were organized (Kazakhstan, Turkey, China, USA, Spain Kyrgyzstan, Finland, Moldova, Belorussia…**
  - **Long-standing cooperation with International Association of Twinning Cities**
  - **2017 – URC was empowered by Russian Foreign Ministry to coordinate activities within the Russia-Germany Year of Regional and Municipal Partnership**
  - **2017 – the Protocol on Cooperation was signed between URC and Union за Municipalities of the Turk World**
  - **Cooperation Agreement with International Association of Messenger Cities for Peace**
  - **2016 – Agreement with National Association of Mayors of the Republic of Korea**

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Ongoing initiatives and expected achievements

National legislation development / initiatives

Strengthening of innovation component of cities' economies /digitalisation
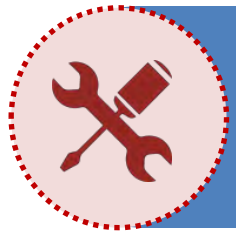
People's diplomacy development (Smart Cities for Peace and Sustainable development)

Promotion of best municipal practices (e.g. currently - transformation to hydrogen economy in cities)

Directions

Expected results
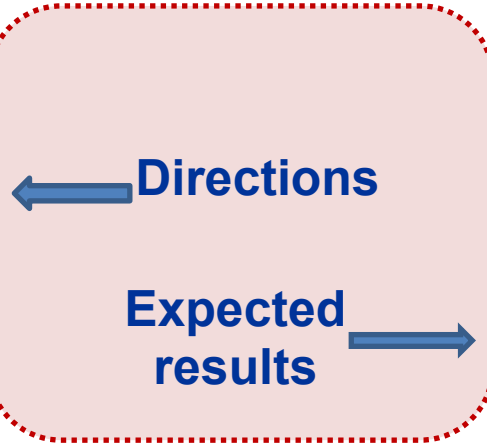
ew laws to support the municipal activities and cooperation (city agglomerations, smart cities, etc)

SmartCity Platform for URC integrated with NEA-countries, MDBs, aid agencies, etc (July 2021

Summit of Mayors of Russian and Foreign Cities May 2021

Forum on Best Municipal Practices: "Innovative projects to ensure the life of cities"

Cooperation with NEASCN and its partners

SmartCity Platform for URC integrated w/NEASCN

Support in development of joint projects to improve the life of citizens on the bases of new technologies

Policy Guidelines development for transformation into smart sustainable cities

NEASCN

Support to URC Hydrogen Project

Partnership for consultation and funding

City management system
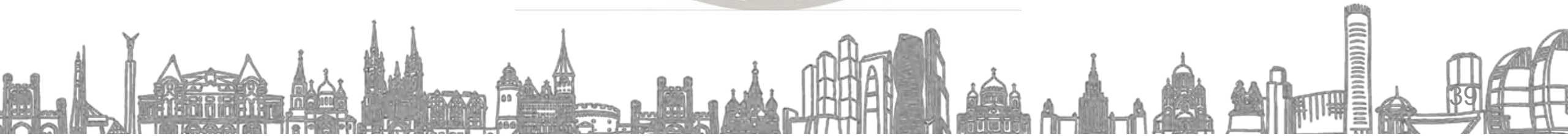
Cooperation perspectives for NEASCN

- Transfer to smart cities ("smartcitisation"). Exchange with strategies, approaches, best practices, new ideas. Twinning of smart-cities.

- Creation of special digital communication platform(s)

- Developing and supporting new working conditions and educational models (e.g. distance learning, development of new educational technologies);

- Promoting the development of cultural production and consumption (e.g., online consumption of culture and entertainment);

- Joint projects aimed at increasing citizen participation in the development of their cities as smart ones;

- Setting up the multinational teams to tackle complex challenges in the post-covid era

City of Penza: URC Forum on the Best Municipal Practices

City of Grozny (Chechen Republic) – Forum on the Best Municipal Practices

City of Perm – Forum on the Best Municipal Practices

City of Ufa – Forum on the Best Municipal Practices

V INTERNATIONAL
FORUM ON THE BEST MUNICIPAL
PRACTICES

City Of Bishkek
Kyrgyz Republic
Республика
10-12 April **2018 г.**

How the Union of Russian Cities can be useful

- Joint project activities (initiation, assistance in implementation)

- Partnership for consultation and funding

- True data on the situation in cities and needs (monitoring by our experts)

- Information and analytical support of cities

- Analysis of trends and adapted solutions

- Attracting international experience, development resources, public/people diplomacy promotion

- Support and development of "smart" cities" – policy guidelines, communication platforms, etc.

- Knowledge exchange and cooperation on smart city development

- Exchange of best municipal practices – sharing and provision of integrated solutions to local governments

- Networking with many Russian internal and international networks

10 Karmanitsky per., 3rd floor
Moscow, Russia 121099
Tel.: 8 (495) 730-41-95
www.urc.ru
E-mail: info@urc.ru

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Thank you.

SESSION I. **Smart Cities Network Partners in Northeast Asia**

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Program Officer
Trilateral Cooperation Secretariat (TCS)

ShinJoon PARK

Assistant Manager
Korea Land and Housing Corporation (LH)

Alexander PRILEPIN

Head of the Project Office for Strategic Planning and Development of Territories of the Russian Federation
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WeG

NEASCN Online Pre-Workshop
Healthy City Network of Mongolia

Dr. Tserendulam Shagdarsuren

Director of Healthy City Network of Mongolia

Urbanization– in Mongolia

Mongolia:

- Pop: **3.29 mil.** (2019)

- **68.5%** of population live in urban area

Ulaanbaatar (Capital city):

- Pop: **1.47 mil.** (2019)

- Density: **276 км^2**

Residents of urban area by percent

Year	
2019	▬▬▬▬▬▬▬▬
2013	▬▬▬▬▬▬
1980	▬▬
1950	▬

0%   20%   40%   60%   80%
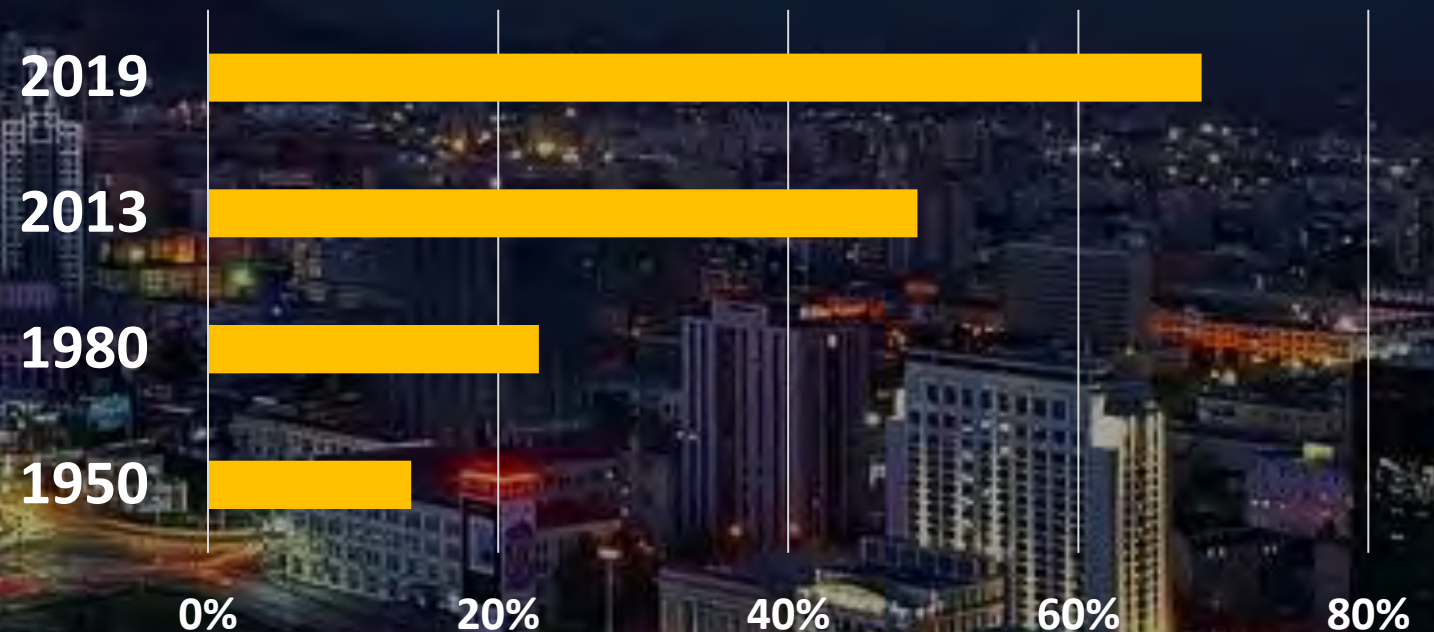
Mongolian urban centers:
- Capital city Ulaanbaatar
- 9 districts (satellite- 3, central-6)
- 21 provinces – 34 big cities & towns
- 333 soum or towns

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Our Goal & Activity Direction

- "A healthy city is one that is *continually creating* and *improving those physical and social environments* and *expanding those community resources* which enable people to mutually support each other in performing *all the functions of life* and *developing to their maximum potential*."

(Health Promotion Glossary, 1998)

The mission is to intensify the capacity of health promoting cities, expanding framework of health topics of a city and increasing the number of Healthy cities of Mongolia which are supporting health friendly environment.

Currently, we work with **18 local governments** of Mongolia. (https://healthycity.weebly.com/english-site.html)

Activity direction:

1. Continuously capacity building activities among Healthy City key persons & coordinators at international and domestic level

2. Advocacy role for community/community based urban planning

3. Make a good model of a Healthy City Mongolia (ie., Tobacco free city, No dental problems city model city, Eco—Children playground projects)

4. Joint research work and evaluation of health city priorities of Mongolian local governments (2017 & 2019)

5. Promotion of the health friendly setting

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OUR MEMBERS:

1. Altai city, Gobi-Altai province
2. Arvaikheer city, Uvurkhangai province
3. Bayankhongor city, Bayankhongor province
4. Baganuur district of Ulaanbaatar city
5. Bayan-undur soum, Orkhon province
6. Baruun-Urt city, Sukhbaatar province
7. Bulgan city, Bulgan province
8. Chingeltei district of Ulaanbaatar city
9. Chinggis city, Khentii province
10. Choibalsan city, Dornod province
11. Choir city, Gobisumber province
12. Darkhan city, Darkhan-Uul province
13. Dalanzadgad city, Umnugobi province
14. Khutul city, Selenge province
15. Mandalgobi city, Dundgobi province
16. Sainshand city, Dornogobi province
17. Ulgii city, Bayan-Ulgii province
18. Zuunmod city, Tuv province

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Smart city models

ULAANBAATAR CITY (1.4 mil.pop)

❖ Smart city local program firstly have been initiated in Ulaanbaatar from 2014.

❖ "Information Technology City" – part of operation program of the Ulaanbaatar city mayor (2016-2020).

DARKHAN CITY (101,8k.pop)

❖ Glass hospital solution/ Smart health service project

ERDENET CITY (90k.pop)

❖ Smart well/ Smart drinking water distribution unit

❖ Smart education project

❖ E-Governance

CHOIBALSAN CITY (50k.pop)

❖ Smart education project

HCNM became a member of WeGO in 2019
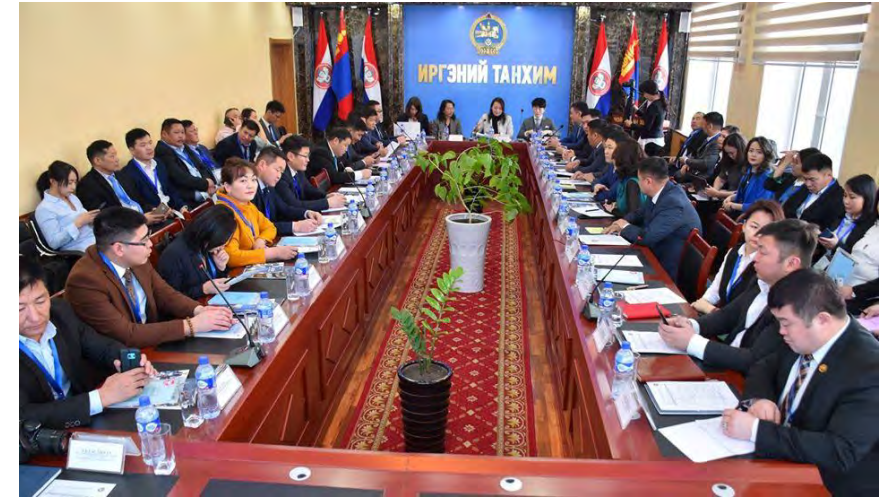
WeGO Participated in the Mayors' Annual meeting of Mongolia in Choibalsan city, 24-25 January, 2020

Future cooperation with NEASCN

EXPERIENCE EXCHANGE

❖ Good experience exchange activity with Mongolian local governments/cities

❖ Share good information technology practices to Mongolian cities

START-UP PROGRAM

❖ Support for good initiatives of start-up companies of Information technology and innovation

THANK YOU FOR YOUR ATTENTION!

Contacts:

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Overseas Projects
for Smart City Development

KOREA LAND & HOUSING
CORPORATION

Korea Land and Housing Corporation (LH)

Integrated Government Complex, Sejong

» **100% state-owned enterprise**
under the Ministry of Land, Infrastructure and Transport (MOLIT)

» **Established by "LH Act"**
to improve people's lives and support economic development
through land development and supply of affordable housing
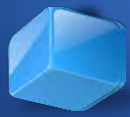
Business and Achievements

Sejong Multifunctional Administrative City

Land Development (917㎢)			Affordable Housing (2.8M)		Other Business
465 ㎢	335 ㎢	117 ㎢	1.5 M	1.3 M	
New Towns & Residential Developments	Industrial Complex & SEZs	Special Purpose Developments	Public Rental Housing	Housing For Sale	Housing Welfare
					Urban Regeneration
					Land Bank
					R&D, GIS, etc.
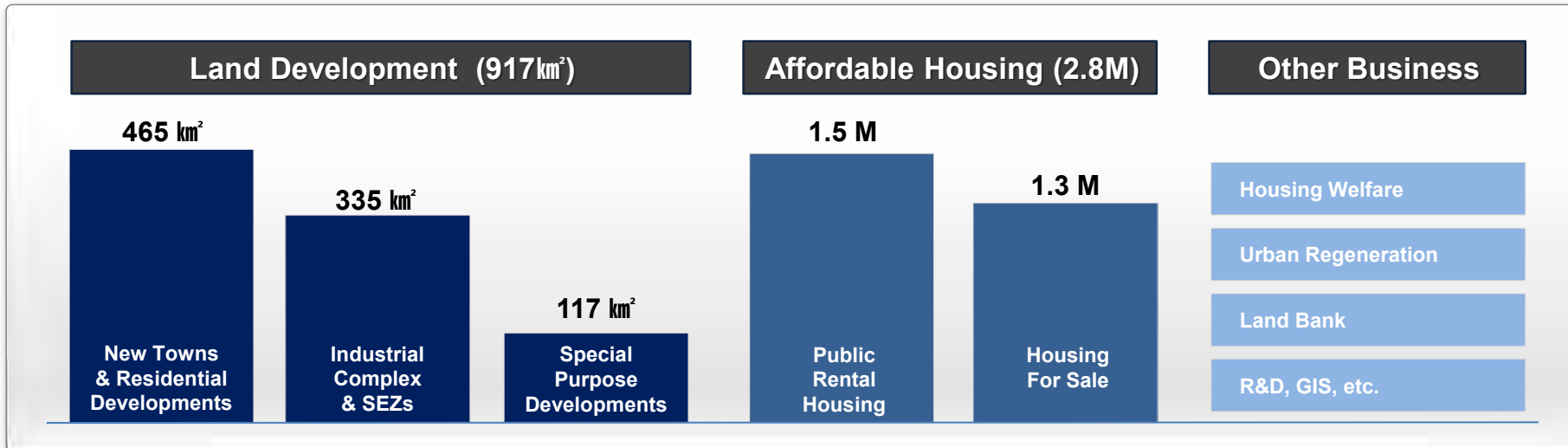
Overview of Overseas Projects

"We should plan and implement global projects as one of the core projects of LH, fully mobilizing available resources, so as to prepare a new growth engine of Korea." - 2020 New Year's address of CEO

Vision for Overseas Projects

Pangyo Techno Valley

Policy Supporter

- » Connect with country development cooperation plan
- » Utilize ODA and loans
- » Support urban development system of cooperating countries

Project Planner

- » Establish platform for public-private partnership
- » Support private companies to enter overseas market
- » Develop project model for public-private cooperation

Master Developer

- » Manage overseas investment development projects
- » Strengthen capacities and global networking
- » Enhance cooperation with international organizations, etc.

Overseas Smart City Projects

CheonRa FEZ

	Project title	Area	Developer
Projects in progress	Kuwait Abdullah New Town	64.4 ㎢	LH – PAHW
	India Kalyan Dombivli Smart City	2.65 ㎢ (1st phase)	LH - KDMC
	Bolivia New Santa Cruz City	54.5 ㎢	GEL
	Korea-Myanmar Industrial Complex	2.2 ㎢	LH Consortium + Myanmar gov. (JV)
	Vietnam Hung Yen Industrial City	7.9 ㎢	LH Consortium + TDH ECHOLAND
	India Mumbai BKC	0.4 ㎢	LH - MH state gov.
	Vietnam Hanoi Social Housing	0.53 ㎢	LH – Ecopark Group
	Korea-Russia Industrial Complex in Primorsky Krai	0.5 ㎢	LH - FEDC
Projects under review	Uzbekistan Smart City	-	-
	Bolivia Smart City	-	-
	Malaysia Kota Kinabalu Smart City	-	-
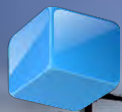
Korea-Russia Industrial Complex in Primorsky Krai

Photo : Daebul Industrial Complex, Mokpo

✓ Location: Nadezhdinskoe ASEZ in Primorsky Krai

✓ Site area: 50ha

Far East Development Corporation of the Russian Federation

Land use payment ↓ ↑ Provision of land use rights (lease)

LH Russia Corporation

Investment → ← Dividend

LH HQ

Sublease payment ↑ ↓ Supply of land plots (sublease)

Tenant companies
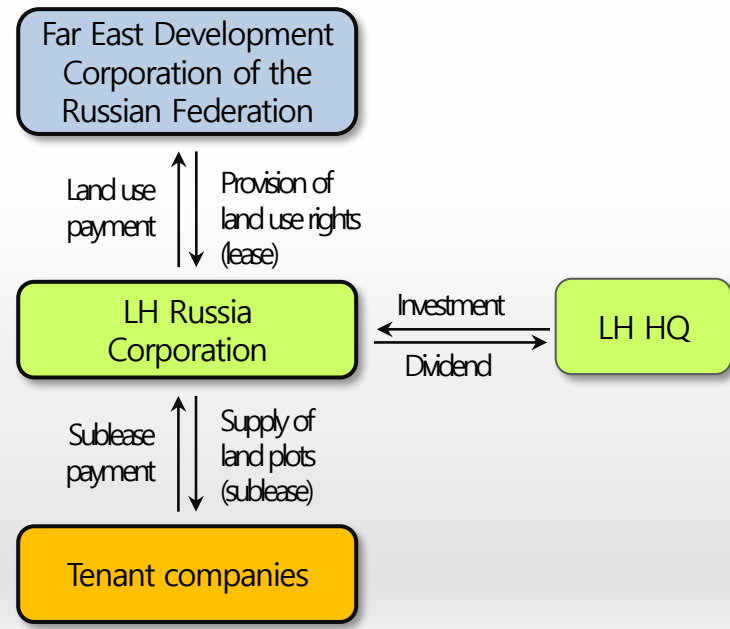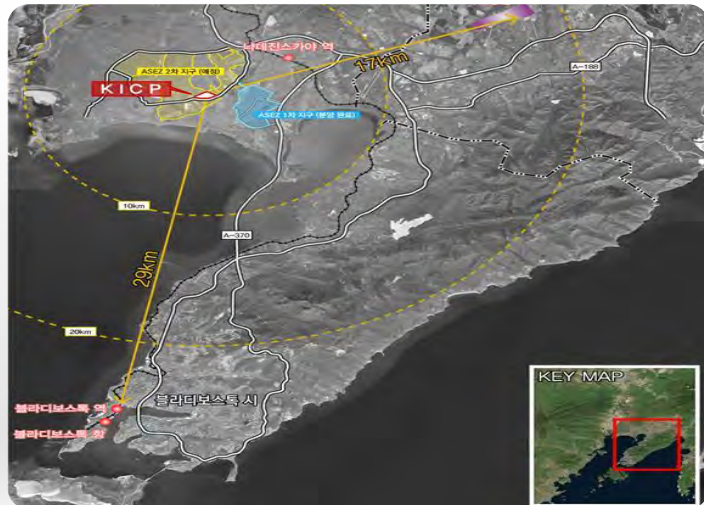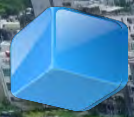
Expectations for NEASCN

Worlden Hills Terrace House, Pangyo New Town

» **Knowledge sharing** to discover and promote smart city development projects through cooperation

» **Business opportunities** of overseas expansion for Korean consultants and contractors with extensive experience in smart city development

THANK YOU

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Centre for Liveable Cities (CLC)

WeGo

Presentation by **Lim** Teng Leng
Deputy Director

ASEAN Smart Cities Network (ASCN)

- The **ASEAN Smart Cities Network (ASCN)** is a regional ecosystem to synergise smart city development across ASEAN

- Collaborative platform which aims to:
  I. **Develop city-specific action plans and a joint framework for smart city development in ASEAN**
  II. **Catalyse bankable projects with the private sector**
  III. **Secure support from ASEAN's external partners**

CORE OBJECTIVE
Improving people's lives, using technology and innovative non-technology as an enabler

Lesson 1: National-City Level Conversation
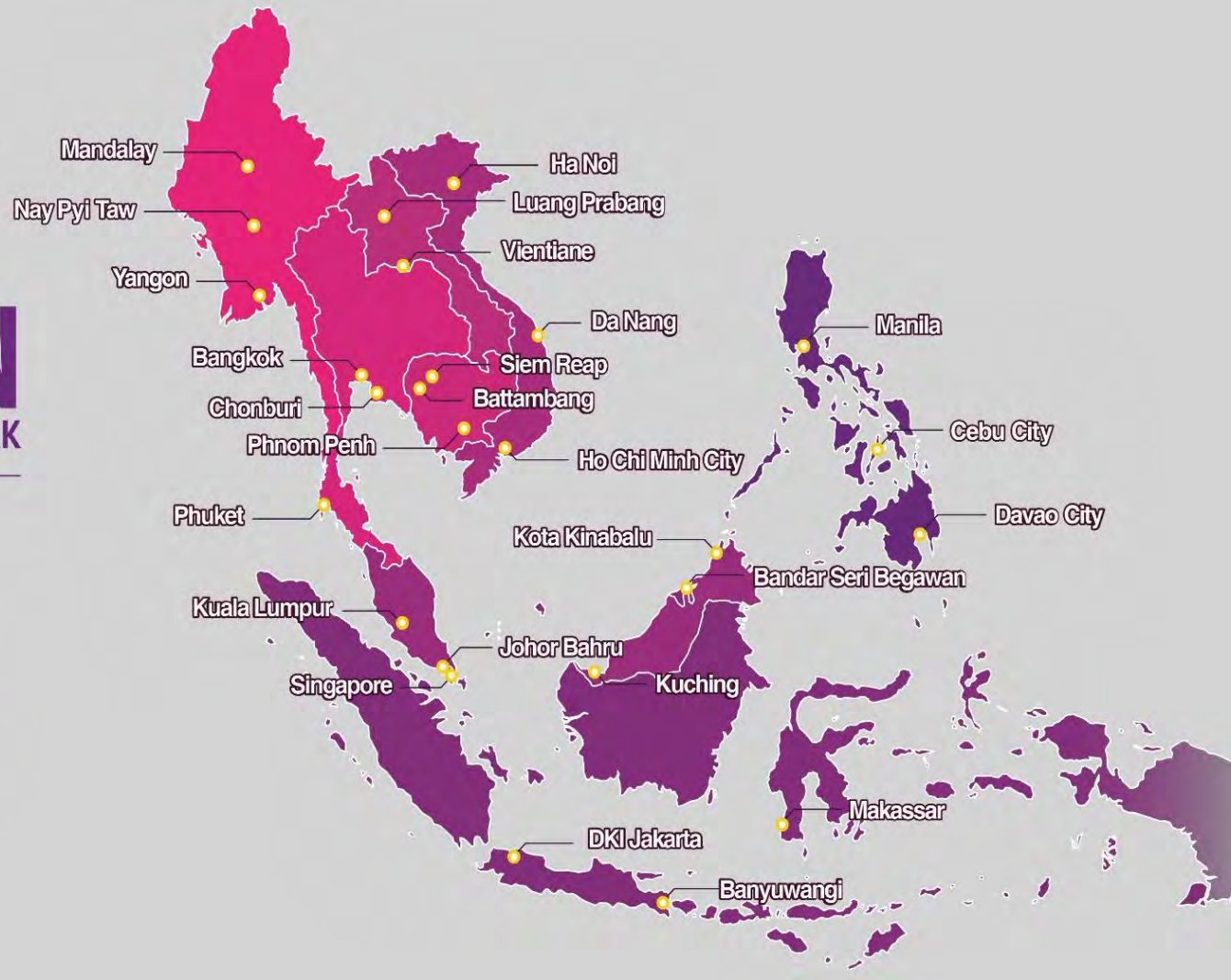
- **National Representative**
  SOM-level official in the national government overseeing smart and sustainable development

- **Chief Smart City Officer**
  Chief Urban Planner/ Chief Resilience Officer *(or equivalent)*

Lesson 2: A Guiding Framework

SMART CITY SSTRATEGIC OUTCOMES

High Quality of Life

Competitive Economy

Sustainable Environment

URBAN SYSTEMS

- Integrated Master Planning and Development
- Dynamic and Adaptive Urban Governance

DEVELOPMENT FOCUS AREAS

Civic & Social	Health and Well-being	Safety and Security	Quality Environment	Built Infrastructure	Industry and Innovation
• Social Cohesion • Culture and Heritage • Tourism • Public and Municipal Services • Governance	• Housing and Home • Healthcare • Education	• Resource Security • Cybersecurity • Public Safety, City Surveillance and Crime Prevention	• Clean Environment • Resource Access and management. • Urban Resilience	• Utilities • Mobility and Transportation • Buildings and Construction	• Business & entrepreneurship • Trade and Commerce • Upskilling • Technology Incubation • Research

ENABLERS

Digital Infrastructure & Applications

Partnership & Funding

ASCN adopts a broad and inclusive definition of 'smart'

1) Innovative Non-Technological means

600 home powered by self-made watermill and micro hydro power plants in a remote Indonesian village

2) Smart and Sustainable City
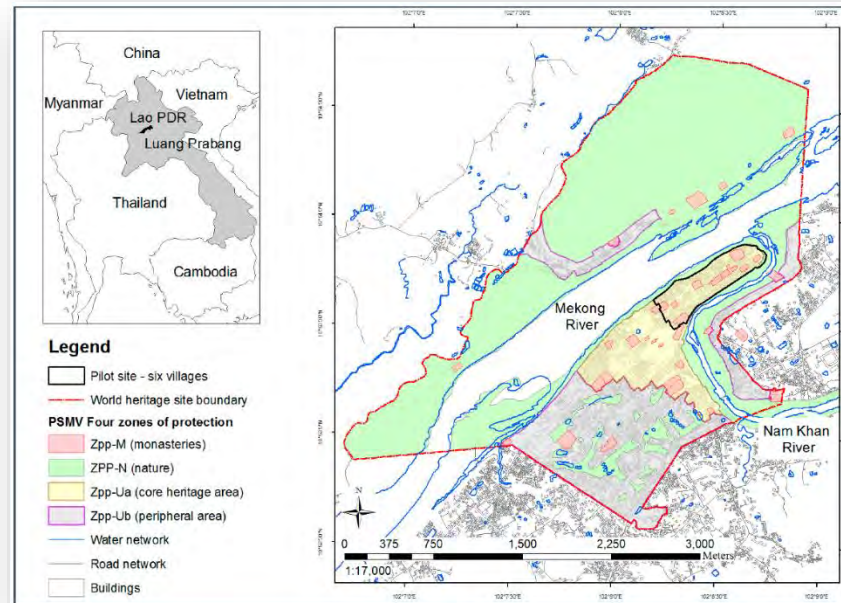
Luang Prabang, an UNESCO World Heritage Site, restoring wetlands with waste-water treatment and management

3) Nature as an important foundation for economic development

Making use of rich natural resources, Phuket wants to be a safe city for all including tourists

72

Lesson 3: Eco System

15 ASEAN External Partners

26 Pilot ASCN Cities

Private-Sector Solution Providers

Multilateral Financial Institutions
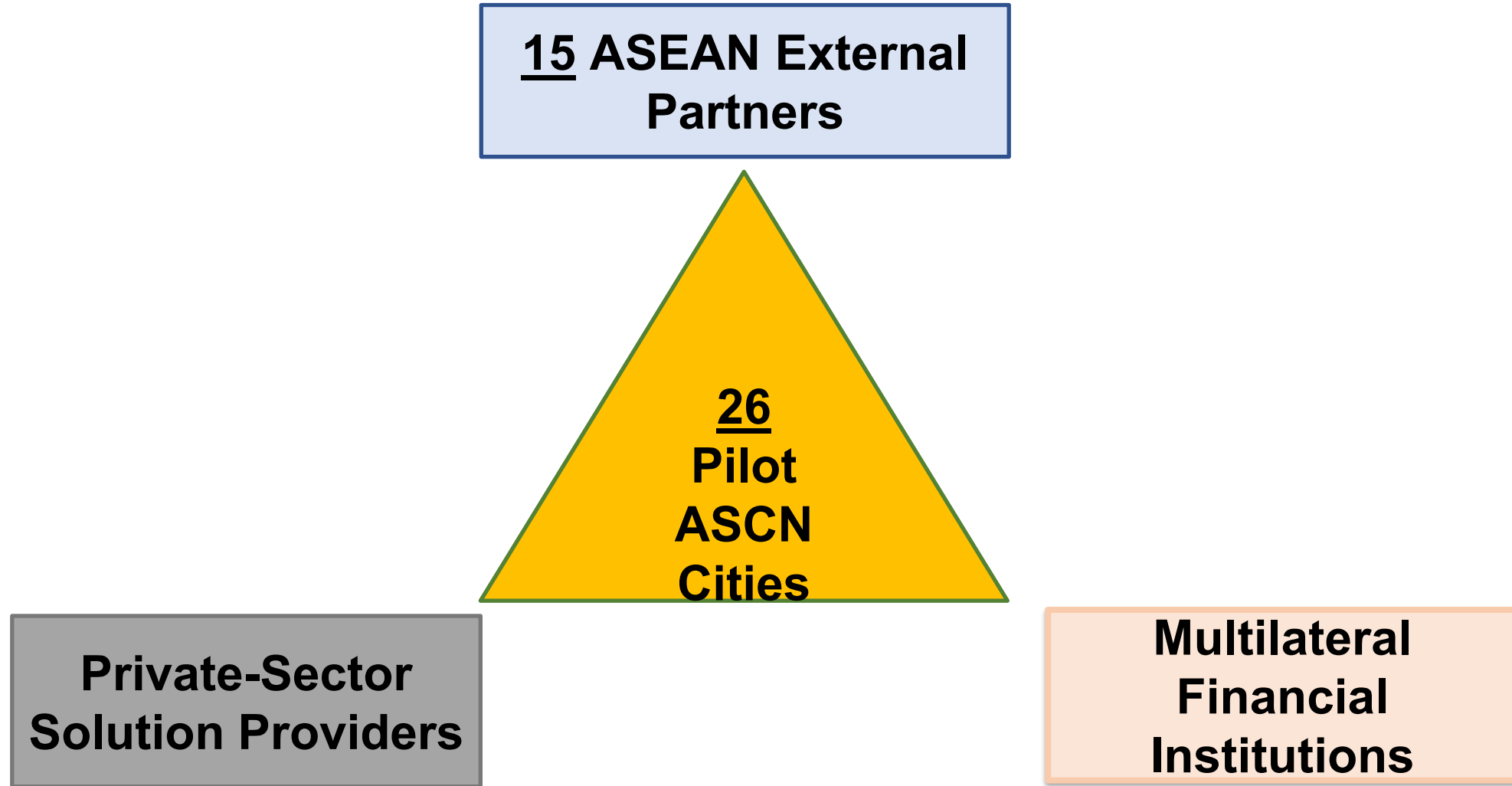
World Cities Summit 2021

Liveable and Sustainable Cities:
Adapting to a Disrupted World

20 to 24 June 2021

CENTRE for
LiveableCities
SINGAPORE

A division of

MND
SINGAPORE

Thank You!

www.clc.gov.sg

Thank you.

WeGo

SESSION I. **Smart Cities Network Partners in Northeast Asia**

Q&A

SESSION II

Smart City Projects in Northeast Asia and Project Financing

SESSION II. Smart City Projects in Northeast Asia and Project Financing

Todor MERDJANOV

Corporate Partners
World Smart Sustainable Cities Organization (WeGO)

SESSION II. **Smart City Projects in Northeast Asia and Project Financing**

Thematic focus

O What types of projects appropriate for Northeast Asian cities could be foreseen to attract financing, publicly or privately?

O What are common big issues that these cities face in accessing project financing?

O What would be some practical measures that NEASCN could take to support Northeast Asian cities in securing project facilities for smart city development?

SESSION II. Smart City Projects in Northeast Asia and Project Financing

PART I

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ICLEI East Asia Secretariat

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Deputy Director
Shanghai Municipality

Daesik LEE

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Yeosijae (Future Consensus Institute)

Sungchan CHO

General Director
Hananuri Academy of Northeast Asian Studies

Calvin CHUA

Associate Head of Programs
Choson Exchange

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Sungsoo JUNG

*Director/Team Head of Program Team in Planning &
Coordination Dept.*
Economic Development Cooperation Fund (EDCF)

Seok Yong YOON

Principal Public Management Specialist
Asian Development Bank

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Presentations by Cities & Partners

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ICLEI—Local Governments for Sustainability

Shu ZHU
ICLEI East Asia Secretariat & Beijing Office

地方行动推进全球可持续发展
CITIES AS A DRIVING FORCE FOR GLOBAL SUSTAINABLE DEVELOPMENT

宜可城地方领袖们携手推进全球城市可持续发展
ICLEI Global Leaders stand ready to drive Sustainable Urban Development Worldwide
2018.06-19-22 | Montreal, Canada | 加拿大蒙特利尔

在联合国支持下成立的宜可城—地方可持续发展协会，是由全球1750多个地方和区域政府共同组成的合作网络，旨在推动城市可持续发展。宜可城的会员城市遍布一百多个国家，积极倡议制定可持续发展相关政策，并在地方层级推动迈向低碳、基于自然、公平、韧性和循环的发展行动。

ICLEI—Local Governments for Sustainability is a global network of more than 1750 local and regional governments committed to sustainable urban development. Active in 100+ countries, we influence sustainability policy and drive local action for low emission, nature-based, equitable, resilient and circular development.

宜可城全球分布
ICLEI WORLDWIDE

645
North America
北美洲

38
Latin America
& the Caribbean
拉丁美洲及
加勒比海区

177
Western &
Central Europe
西欧和中欧

7
North Africa,
Middle East & West Asia
北非，中东和西亚

49
Middle & South Africa
中非和南非

98
East Asia
东亚

7
Eastern Europe,
Caucasus & Central Asia
东欧，高加索和中亚

46
Southeast Asia
东南亚

141
Oceania
大洋洲

84
South Asia
南亚

柏林办公室
BERLIN OFFICE
德国 柏林 BERLIN, GERMANY

布鲁塞尔办公室
BRUSSELS OFFICE
比利时 布鲁塞尔 BRUSSELS, BELGIUM

全球秘书处
WORLD SECRETARIAT
德国 波恩 BONN, GERMANY

欧洲秘书处
EUROPEAN SECRETARIAT
德国 佛莱堡 FREIBURG, GERMANY

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QUÉBEC OFFICE
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美国办公室
USA OFFICE
美国 丹佛 DENVER USA

加拿大办公室
CANADA OFFICE
加拿大 多伦多 TORONTO, CANADA

墨西哥、中美洲
和加勒比海区秘书处
MEXICO, CENTRAL AMERICA
AND THE CARIBBEAN SECRETARIAT
墨西哥 墨西哥市 MEXICO CITY, MEXICO

哥伦比亚办公室
COLUMBIA OFFICE
哥伦比亚 麦德林 MEDELLÍN, COLUMBIA

南美洲秘书处
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SECRETARIAT
巴西 圣保罗 SãO PAULO

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南亚秘书处
SOUTH ASIA SECRETARIAT
印度 新德里 NEW DELHI, INDIA

南方中心
SOUTHERN CENTER
印度 安得拉邦 ANDHRA PRADESH, INDIA

印尼项目办公室
INDONESIA PROJECT OFFICE
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韩国办公室
KOREA OFFICE
韩国 水原 SUWON, KOREA

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OCEANIA SECRETARIAT
澳洲 墨尔本 MELBOURNE, AUSTRALIA

宜可城支持城市可持续发展
ICLEI SUPPORTS CITIES IN

联合研究
Joint Research

技术项目合作 & 执行
Programs/projects
Implementation

能力建设
Capacity Building

对接融资机会
Access to Financing

绩效评估
Performance
Measurement Tools

目标设定 &
可持续发展规划
Target-Setting &
Action Planning

城际学习 & 考察访问
Peer Learning
& Field Trips

工具、资源和方法论
Resources & Methodologies

专家支持
Experts Support

分享和宣传
Showcase & Promotion

宜可城五大发展路径
THE FIVE ICLEI PATHWAYS

低碳发展
LOW EMISSION DEVELOPMENT

基于自然的发展
NATURE-BASED DEVELOPMENT

公平和以人为本的发展
EQUITABLE AND PEOPLE-CENTERED DEVELOPMENT

韧性发展
RESILIENT DEVELOPMENT

循环发展
CIRCULAR DEVELOPMENT

宜可城的**五大发展路径**，旨在创造**系统性变革**。这个框架可引导设计出有助于人类与城市和自然环境和谐共生的**综合性解决方案**，并在充分考量城市系统复杂性的基础上，迈向可持续发展。

宜可城在五大发展路径的基础上，设计开展多元活动，且尽可能使我们的**项目**、**伙伴关系**和**倡议**同时触及不同的发展路径，助力地方政府将行动的影响力发挥到极致。

The **Five ICLEI Pathways** are designed to create **systemic change**. The pathways are a framework for designing **integrated solutions** that balance the patterns of human life and the built and natural environments.

We design our work to integrate as many pathways as possible into any given activity such as a **project**, **partnership** or **initiative**. When these pathways guide local and regional development, urban system becomes more sustainable.

项目与活动
PROJECTS & ACTIVITIES

I·C·L·E·I East Asia
Local Governments for Sustainability

生态(绿色）出行
EcoMobility

低碳城市和低排放发展
Low carbon city capacity development

东亚清洁空气城市
East Asia Clean Air Cities

地方政府绿色公共采购
Green Public Procurement &
Procura+ East Asia Network

建筑能效加速器
Building Efficiency Accelerator

绿色循环城市联盟&无废城市
Green Circular Cities & Zero Waste Cities

亚洲低碳发展策略伙伴关系
Asia LEDS Partnership

气候适应型城市建设
Urban Climate Change Adaptation

城市生物多样性
Urban Biodiversity

韧性城市和减灾防灾
Resilient Cities & DRR

基于自然的解决方案和自然城市框架
Nature-based Solutions & Cities with Nature

生态旅游城市
Eco-tourism City

工业城市转型联盟
Urban Transitions Alliance

城乡共构项目（城乡一体化）
Urban-Rural Assembly

CIRCULAR DEVELOPMENT 循环发展
LOW EMISSION DEVELOPMENT 低碳发展
NATURE-BASED DEVELOPMENT 基于自然的发展
EQUITABLE & PEOPLE-CENTERED DEVELOPMENT 公平和以人为本的发展
RESILIENT DEVELOPMENT 韧性发展

绿色可持续城市系统
AN URBAN SYSTEM

地方政府生物多样性保护行动全球伙伴关系
GLOBAL PARTNERSHIP ON LOCAL & SUBNATIONAL ACTION FOR BIODIVERSITY

缔约方大会提出城市及地方政府进行生物多样性保护
CBD COP integrates local government implementation of global biodiversity conservation

2008年，**城市和地方政府生物多样性保护行动全球伙伴关系**成立，目标纳入所有相关网络和倡议执行《生物多样性公约》
To engage all relevant stakeholders, the SCBD launched the Global Partnership on Local and Subnational Action for Biodiversity in 2008

工作和成果
Progress & Results

- 全球生物多样性展望
  Cities Biodiversity Outlook

- 新加坡城市生物多样性指数
  Index on Cities' Biodiversity

- 地方生物多样性战略和行动计划指南
  Guidelines to developing and implementing
  Local Biodiversity Strategy and Action Plans

- "全球地方政府生物多样性峰会"
  Global Biodiversity Summit of Local and Subnational Governments
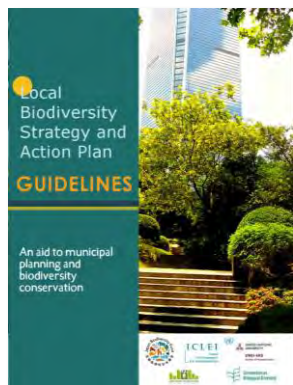
相关机构与网络
Partners & Initiatives

宜可城提供的工具和资源
ICLEI GUIDANCE AND TOOLS

地方生物多样性战略和规划指南
Local Biodiversity Strategy and
Action Plans (LBSAPs) Guidelines

- 垂直整合
  Vertical integration
- 策略计划
  Strategic planning

生物多样性地方行动指南
Local Action for Biodiversity Guidebook

- 评估和测绘
  Assessment and mapping
- 能力建设与主流化
  Enhancing capacity and mainstreaming
- 管理机制
  Management mechanisms

ecoBudget 指南
ecoBudget Guide

- 自然资本核算
  Natural capital accounting

替代性规划方案
Alternative planning approaches

- 针对缺乏规划的城市化
  Working with unplanned urbanization
- 变通与灵活的方式
  Adaptive and flexible

东亚清洁空气城市网络
East Asia Clean Air Cities Network (EACACN)

A multi-lateral collaboration platform for East Asia cities committed to tackling air pollution.

Map labels:
- 乌兰巴托 ULAANBAATAR
- 北京 BEIJING
- 济南 JINAN
- 首尔 SEOUL
- 水原 SUWON
- 东京 TOKYO
- 北九州 KITAKYUSHU
- 四川 SICHUAN
- 贵阳 GUIYANG
- 深圳 SHENZHEN

10
个地方政府
Local governments

157⁺ᴍ
居民受惠
Population influenced

13⁺
区域论坛和国际活动
Regional forums & int. events

100+
地方公务人员参与培训
Officials received trainings

东亚清洁空气城市
East Asia Clean Air Cities

年度论坛
Annual Forum

考察交流
Study Tour

联合研究
Joint Study

追踪评估
Monitoring

知识分享
Publications

能力建设
Capacity Building

城市低碳发展策略
URBAN LEDS

URBAN LEDS
URBAN LOW EMISSION DEVELOPMENT STRATEGIES

PHASE II GOALS

宜可城的"城市低碳发展策略（Urban LEDS）"协助地方政府通过整合式发展计划，逐步朝低碳和绿色转型，迈向具有包容性的城市经济。

A pathway to transition a city to low emission, green and inclusive urban economy, through its integration into city development plans and processes.
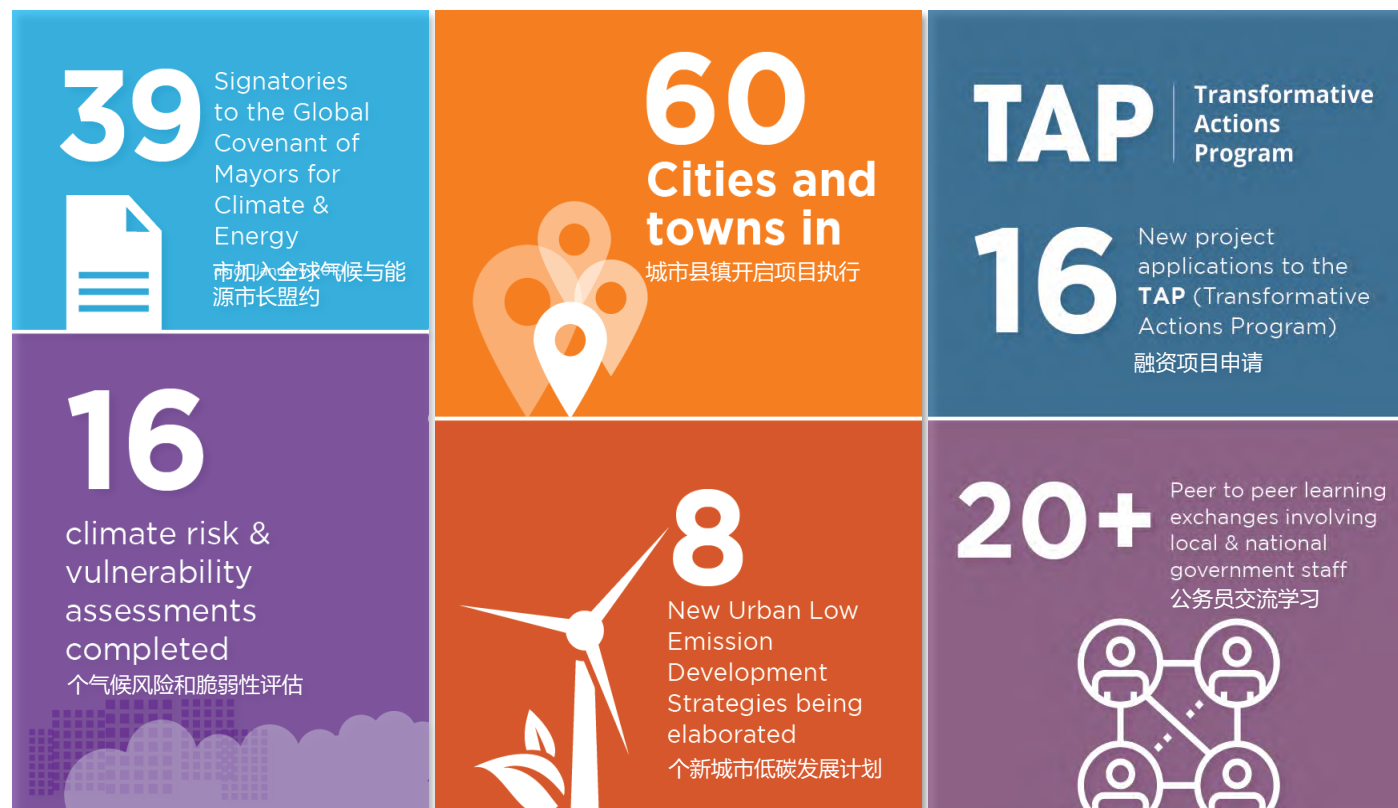
执行机构
Implemented by — ICLEI Local Governments for Sustainability / UN HABITAT FOR A BETTER URBAN FUTURE

赞助机构
Funded by

39
Signatories to the Global Covenant of Mayors for Climate & Energy
市加入全球气候与能源市长盟约

60
Cities and towns in
城市县镇开启项目执行

TAP 16
Transformative Actions Program
New project applications to the TAP (Transformative Actions Program)
融资项目申请

16
climate risk & vulnerability assessments completed
个气候风险和脆弱性评估

8
New Urban Low Emission Development Strategies being elaborated
个新城市低碳发展计划

20+
Peer to peer learning exchanges involving local & national government staff
公务员交流学习

NEASCN

- Act as a local government cooperation mechanism for advocacy, knowledge exchange and peer learning

- Enhance local capacity (tools, resources) on smart city and sustainable development

- Connect local governments with key stakeholders including private sector (solutions) and financier (financing)

- Promote best practice polices towards which cities may contribute and track progress

- Facilitate vertical and horizontal integration in policies

感谢您的聆听
THANK YOU

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PART I.
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Calvin CHUA

*Associate Head of Programs*
Choson Exchange

1 All-round support for road transport management

1. Further application of smart traffic signal management system

2. Continuous improvement in traffic information collection and intelligent road guide system

3. Integrated application of intelligent transport and big data technology

4. Significant progress made in construction of ETC lanes, enabling the full coverage of traffic lanes at tollgates
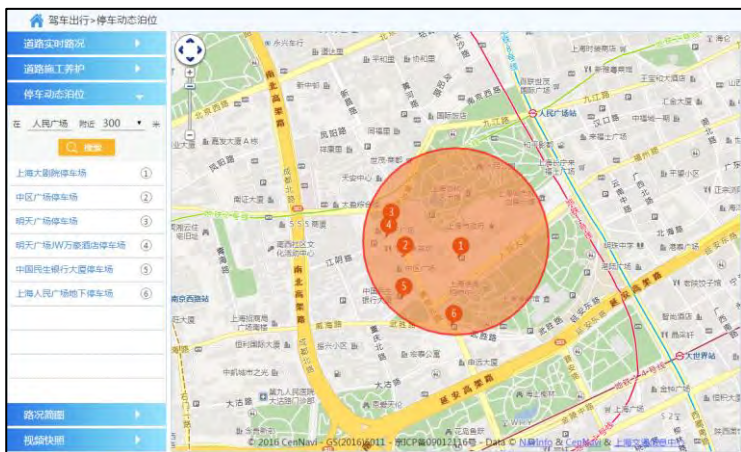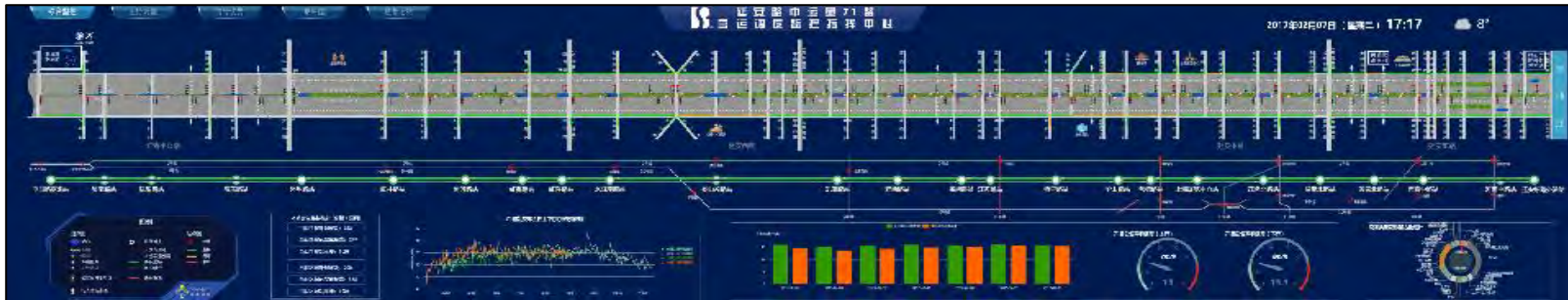
2 Strong pillar for industry operation management

1. **All-round improvement in the information level of public bus services**

2. **Vigorously promoting the IT application in customs clearance**

3. **Upgrading the information level of integrated transport hub**
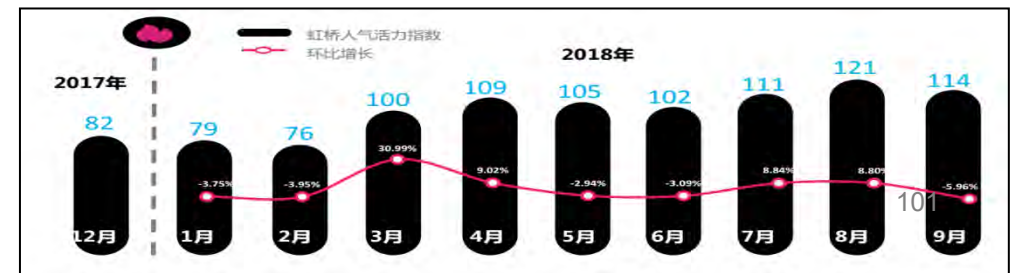
3 Bolstering the rapid development in convenient transport services Thriving development of "Internet + transport"

1.Establishment of comprehensive traffic Information service system

2. Striving to develop the logistics information service system

3..Steadfast progress in ICVs testing

4.Further integration of "transport payment + Internet"

4 Cooperation with NEASCN

Thanks

Thank you.

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Model of Future City
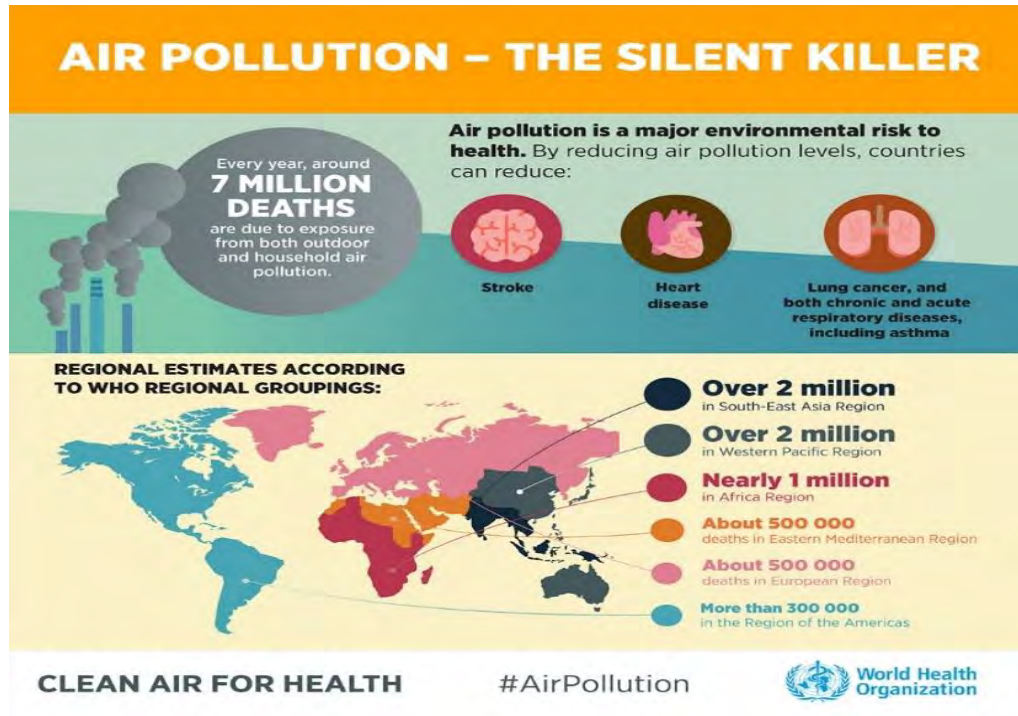
NEASCN Pre-Workshop

December 9, 2020

Lee Dae Sik
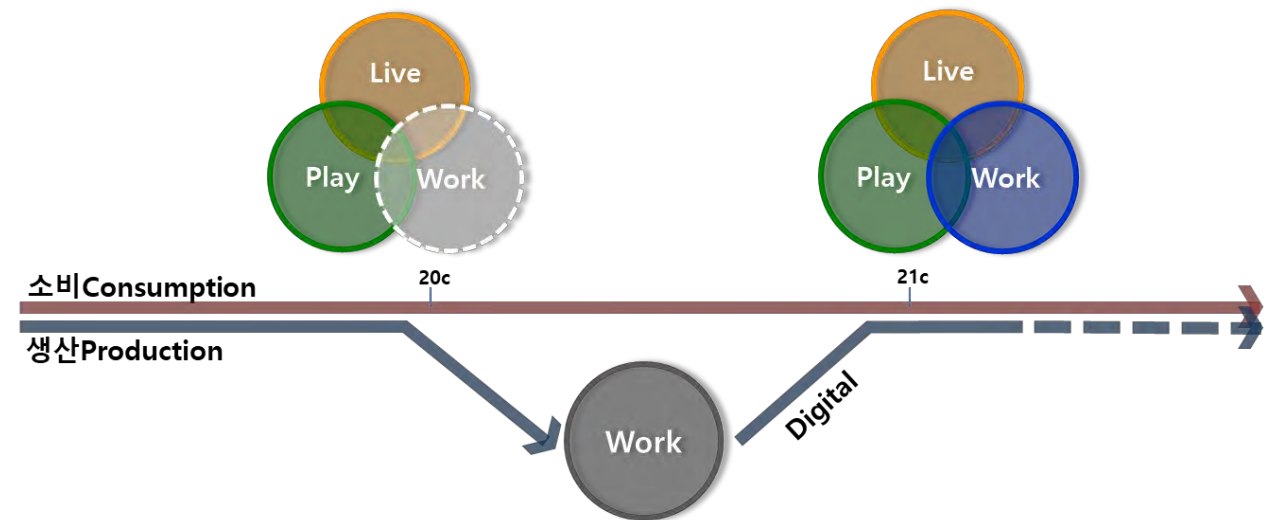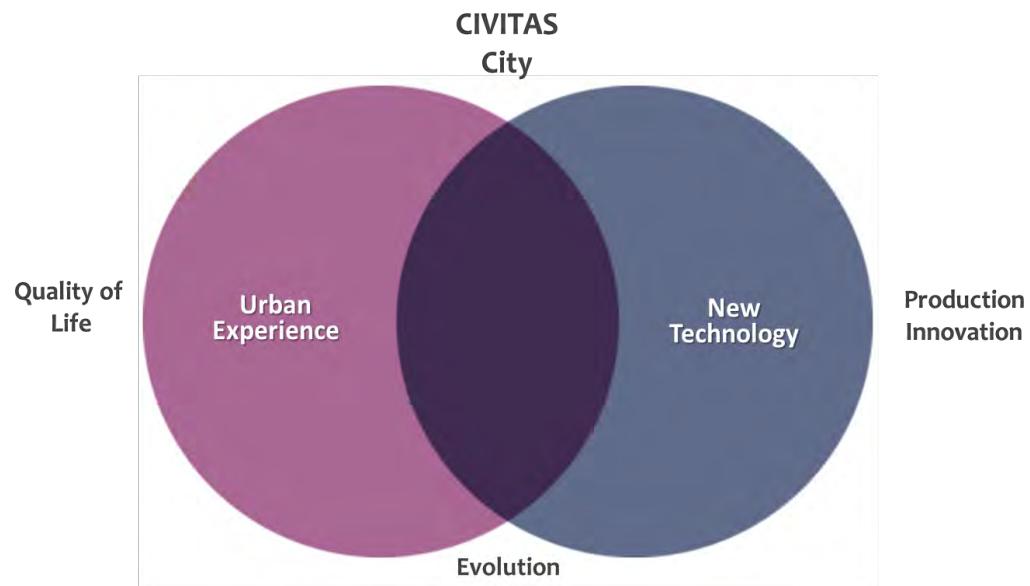
Yeosijae
Future Consensus Institute

Urgency of Consensus on Sustainable City Model in Asia

- By 2025, 410million climate refugees in Asia
- In 2018, 7millions city dwellers died from air pollution
- Over next 30years 3 billions in Asia to Cities!
- In China 5 millions, in Asia 2.5billion follow

AIR POLLUTION – THE SILENT KILLER

Air pollution is a major environmental risk to health. By reducing air pollution levels, countries can reduce:

Every year, around **7 MILLION DEATHS** are due to exposure from both outdoor and household air pollution.

- Stroke
- Heart disease
- Lung cancer, and both chronic and acute respiratory diseases, including asthma

REGIONAL ESTIMATES ACCORDING TO WHO REGIONAL GROUPINGS:

- **Over 2 million** in South-East Asia Region
- **Over 2 million** in Western Pacific Region
- **Nearly 1 million** in Africa Region
- **About 500 000** deaths in Eastern Mediterranean Region
- **About 500 000** deaths in European Region
- **More than 300 000** in the Region of the Americas

CLEAN AIR FOR HEALTH #AirPollution

World Health Organization

Asia-Pacific coastal zones

A new report by Asian Development Bank says coastal zones in the region are among those most vulnerable to climate-change related sea-level rise

- Vulnerable coastal area
- Vulnerable island region
- % of country population living in low-elevation coastal zone, baseline year = 2000

- Myanmar 27.8
- China 11.3
- Pakistan 3.2
- Bangladesh 48.7
- Philippines 16.7
- India 6.1
- Vietnam 54.7
- Indonesia 18.4
- Thailand 26.0
- Cambodia 25.7
- Maldives
- PACIFIC OCEAN
- Guam
- Palau
- Micronesia
- Solomon Islands
- Vanuatu
- New Caledonia
- INDIAN OCEAN

Source : ADB/World Bank
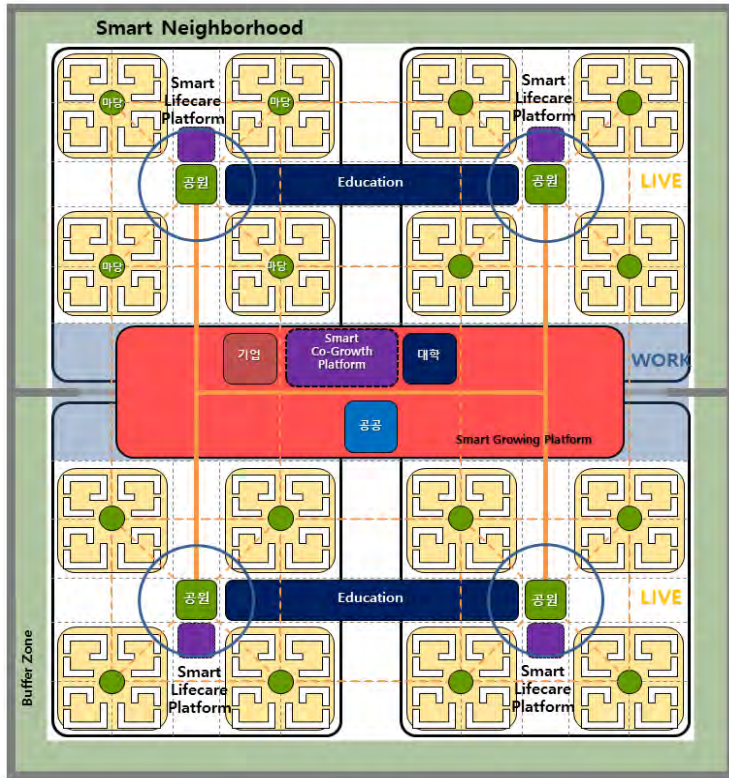
© AFP

The core concept of Sustainable smart city

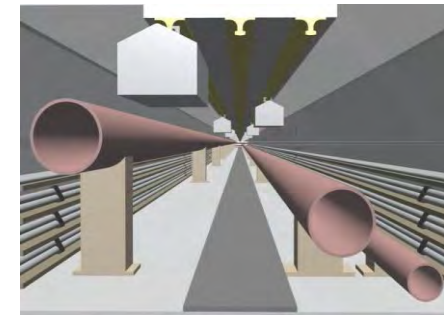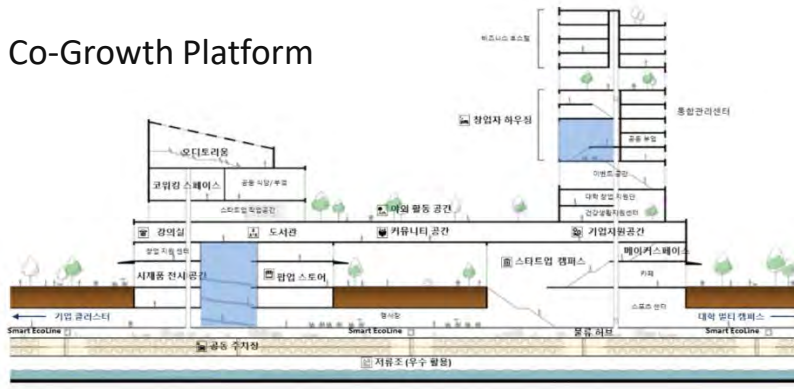· Digital Transformation and Community,
· Conversion functions of Work/Live/Play

The Structure of Smart City Model of Yeosijae:

1) Lifecare Platform
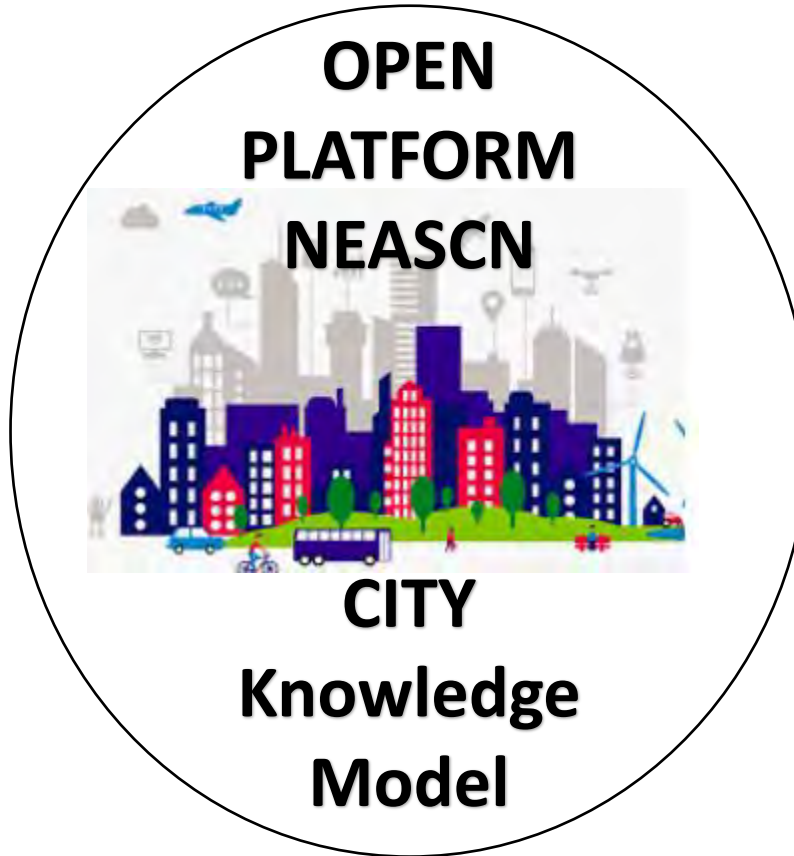3) Smart Ecoline

2) Co-Growth Platform
4) Smart Pole and Mobility

Lifecare Platform

Co-Growth Platform

Smart Pole

Smart Ecoline

"YEOSIJAE & NEASCN" COOPERATION

Thank you.

WeGo

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Yeosijae (Future Consensus
Institute)
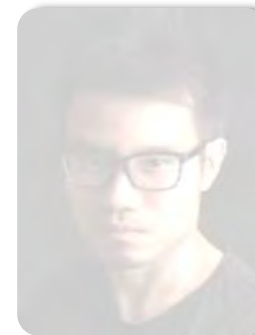
Calvin CHUA

Associate Head of Programs
Choson Exchange

North Korea's Urban Development Cooperation and Regional Cooperation in Northeast Asia

- NEASCN ONLINE PRE-WORKSHOP (2020.12.9) -

Sungchan Cho, Research Director

Hananuri Academy of Northeast Asian Studies

1. Introduction

□ **Subject**
▶ Cooperate with the cities of NK in terms of smart city approach.
▶ Developing into the Northeast Asia Regional cooperation.

□ **Recent backgrounds**
▶ Blockchain International Conference in PyongYang, April, 2019.
▶ Lim Jong-seok, pushing for inter-Korean urban cooperation projects.
▶ Minister of Renuification , to set up liaison offices and trade organizations in the North cities.

□ **Contents**
▶ 1. A possible approach to the Urban Development Cooperation with NK, based SSE.
▶ 2. Basis that link cooperation with NK to Northeast Asia Regional cooperation.
▶ 3. Conclusion and suggestion.

2. North Korea's Urban Development Cooperation

☐ NK's desire for leapfrog-development

▶ CODECHEF (2013-2018), winning gold medal.

▶ "Blockchain and Cryptocurrency International Conference", 2019.

▶ Again in 2020. Canceled.

Pyongyang Blockchain and Cryptocurrency Conference February 2020

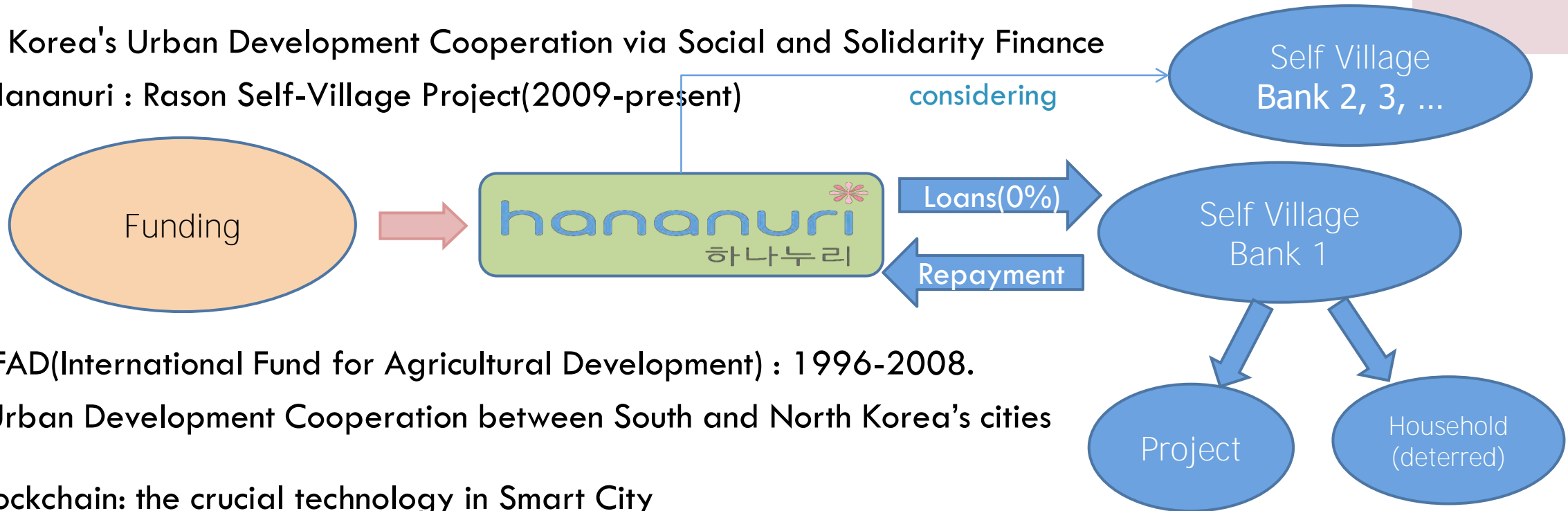□ Social Solidarity Economy for N. Korea's Urban Development
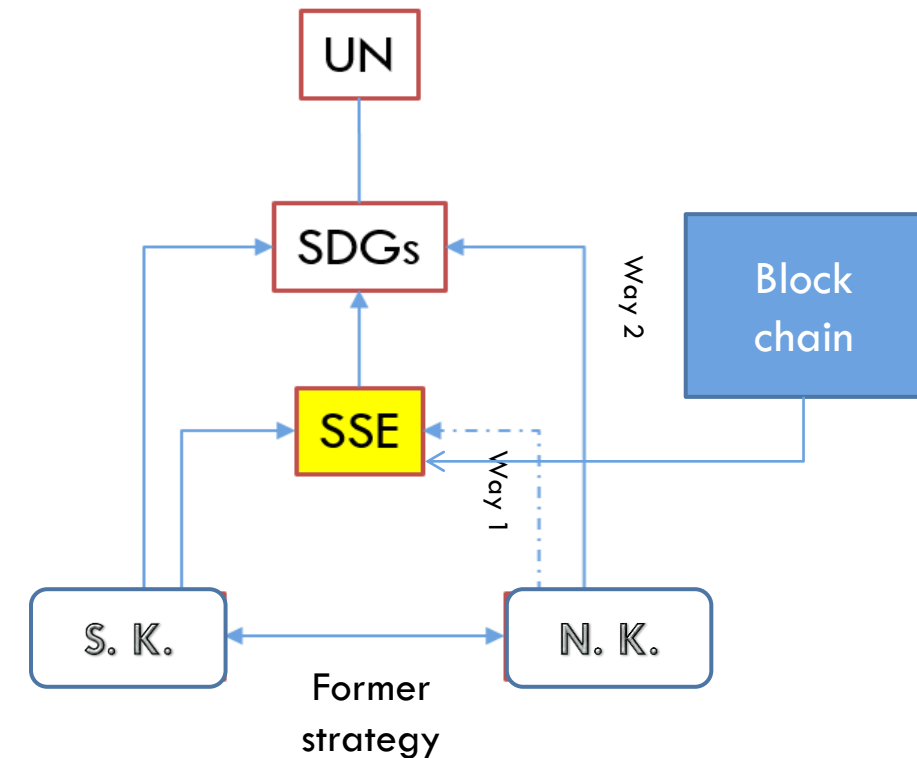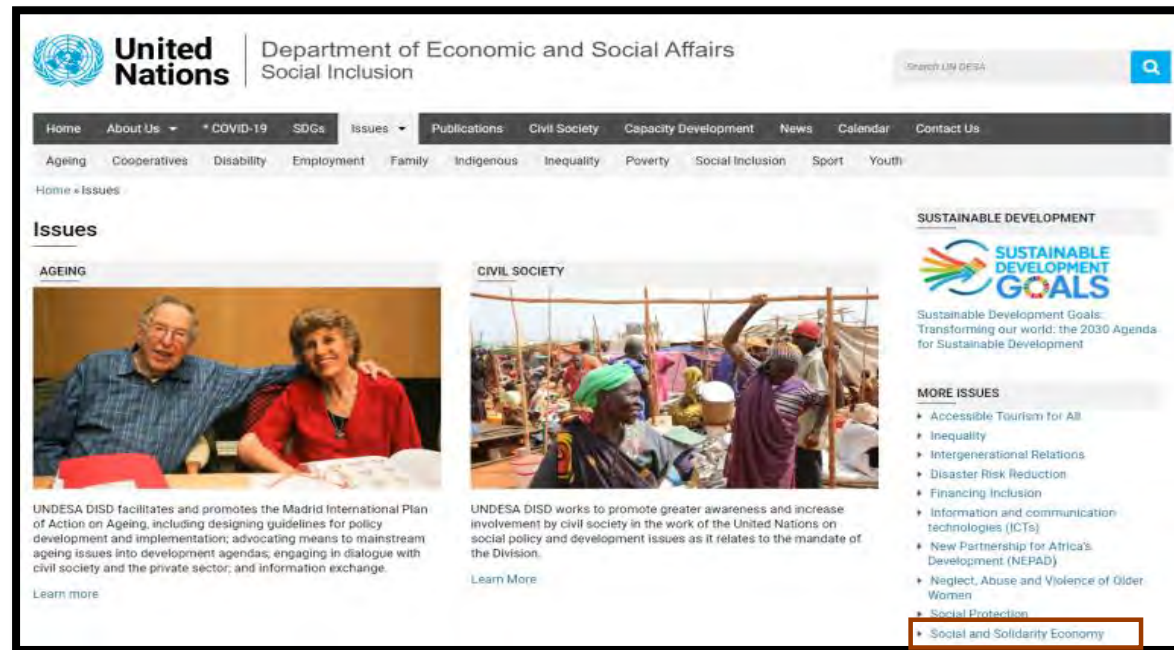
□ Social and Solidarity City : Commons (Land, Finance) + Organizations

2. North Korea's Urban Development Cooperation

☐ N. Korea's Urban Development Cooperation via Social and Solidarity Finance

▶ Hananuri : Rason Self-Village Project(2009-present)

considering

Self Village Bank 2, 3, ...

Funding

hananuri
하나누리

Loans(0%)

Repayment

Self Village Bank 1

Project

Household (deterred)

▶ IFAD(International Fund for Agricultural Development) : 1996-2008.

▶ Urban Development Cooperation between South and North Korea's cities

☐ Blockchain: the crucial technology in Smart City

▶ UN, WB, KOICA etc. in the underdeveloped countries

▶ How can it be adopted in North Korea?

3. Developing into the Regional Cooperation in Northeast Asia

□ NEASCN's desire

▶ To support peace and economic development in the Northeast Asian countries.

□ The possible Regional Cooperation in Northeast Asian Cities

▶ Ahn Jung-geun, "the Theory of Oriental Peace" (1909)

✓ The ownership of a territory, returned to China

✓ Oriental Peace Association, Central Bank

✓ Organizing common military force

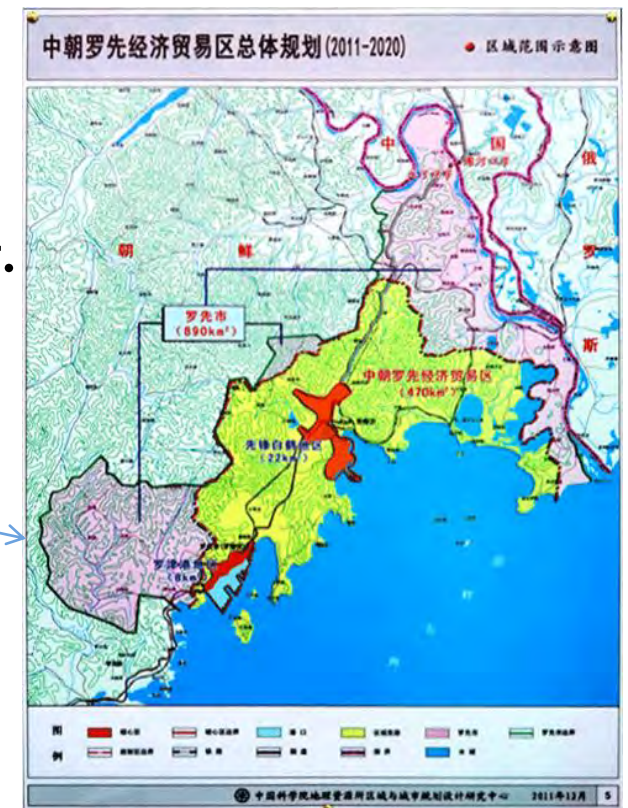✓ The king of Japan, Qing and Korea, crowned by
   the Roman Catholic Pope.

3. Developing into the Regional Cooperation in Northeast Asia

□ The possible Regional Cooperation in Northeast Asian Cities

▶ Ahn's theory is similar with EU's principles.

▶ UN : TRADP(1991), GTI(2006) (deterred)

▶ China : *Ongoing* Tumen River Delta International Tourism Cooperation Zone project

4. Conclusions

▶ NEASCN can connect Northeast Asian cities with the Smart City technology, including South and North Korea's cities.

▶ NEASCN should start a small scale of cooperation model based on block-chain.

▶ Cooperation model, should be linked with TRADP(GTI) and Tumen River Delta International Tourism Cooperation Zone project.

▶ The importance of understanding Rason city of N. Korea

中朝罗先经济贸易区总体规划(2011-2020)

Thank you!

Thank you.

PART I.
Presentations by Cities & Partners

Shu ZHU

Regional Director
ICLEI East Asia Secretariat

Sungchan CHO

General Director
Hananuri Academy of
Northeast Asian Studies

Dajun WANG

Deputy Director
Shanghai Municipality

Calvin CHUA

Associate Head of Programs
Choson Exchange

Daesik LEE

Director
Yeosijae (Future Consensus
Institute)

WeGo

KANGWON DEVELOPMENT INITIATIVE

Calvin Chua
December 2020

조선 | CHOSON
교류 | EXCHANGE

CHOSON EXCHANGE OVER MORE THAN A DECADE

Building the first generation of startups in DPR Korea through economic policy, business and entrepreneurship training. Close to 3000 Koreans have attended our programs starting in 2009.

조선
교류

CHOSON
EXCHANGE

Programs include **workshops in Korea**, **overseas**, and through **online and virtual** channels. We conduct **research on economic development** in Korea that informs our programs and discussions. **120+ business volunteers** have joined us from around the world to teach in our programs inside the country.

조선 CHOSON
교류 EXCHANGE

MACRO AND MICRO LEVEL ACTIVITIES CYCLE THROUGH A FEEDBACK LOOP CREATING IMPACT

Macro Level
Economic Policy & Business Environment

Introduced policies relating to infrastructure, taxation, land ownership to Wonsan & Unjong SEZ management committee.

Introduced entrepreneurship concept and required environment to thrive.
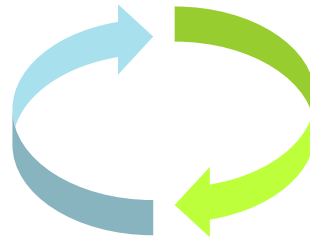
Micro Level
Business Skills & Entrepreneurship

Training managers and startups various business related skills, from marketing to finance accounting.

Mentorship of local startups

Development of an incubation-type program.

조선 | CHOSON
교류 | EXCHANGE

WHY FOCUS ON KANGWON PROVINCE?

STRATEGIC LOCATION
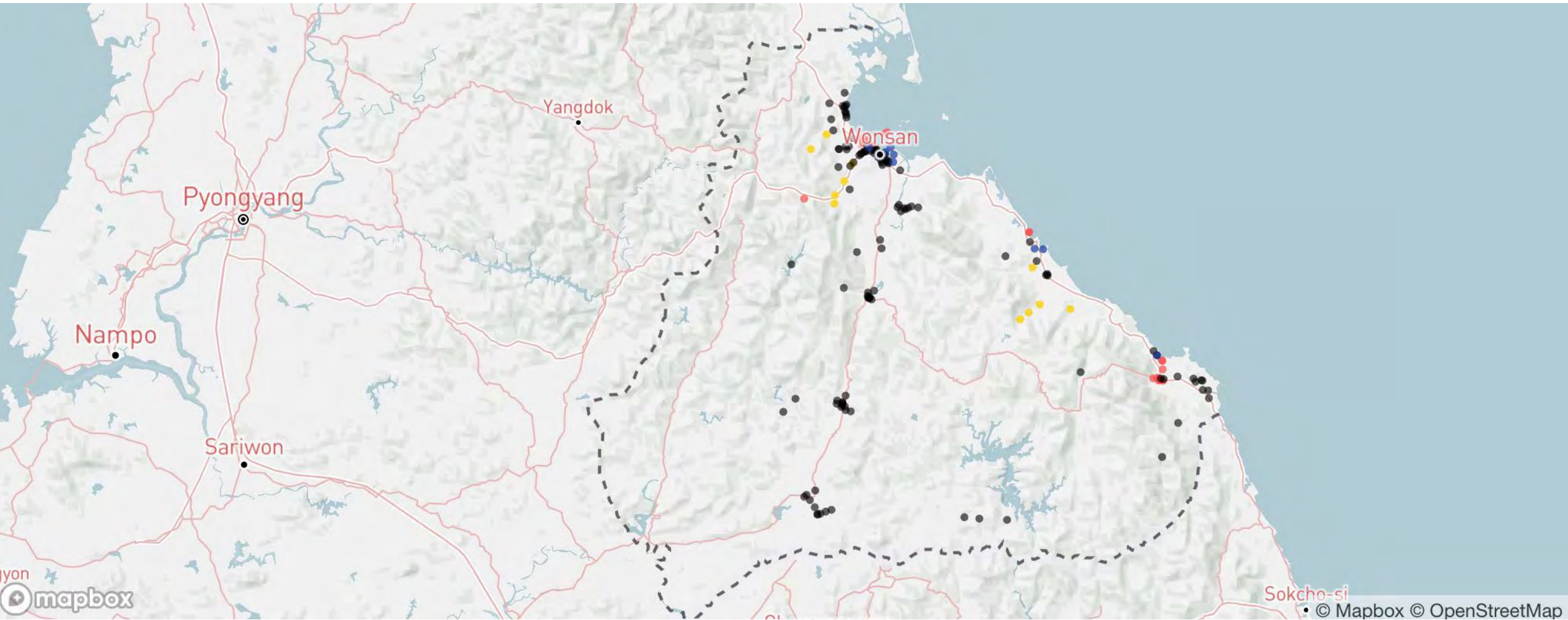
2014 WONSAN WORKSHOP

[2014] Workshop in a Hotel Conference Room in Wonsan

[2014] Visiting Halong Bay and Learning about its Development with the leading developer of the region

KANGWON
DEVELOPMENT
INITIATIVE
✕ 조선 CHOSON 교류 EXCHANGE

A 5-year development initiative.

5개년 개발 계획

www.kangwonkorea.com

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CHALLENGES OF KANGWON PROVINCE

THREE KEY CHALLENGES

Electricity Shortfall

- Hydropower is the key source of electricity in DPRK, with 55% of its energy generated from hydroelectric plants.
- Total national electricity consumption is 14 billion kWh, with the majority of the power going to Pyongyang.
- Major power plants are congregated on western DPRK
- Another major issue is the electrical grid, Inland Kangwon province lacks connection to the national power grid, which results in a disparate rate of development within the province

Transport Road & Rail

- **Multiple purpose of road & rail:**
  1. Transport of Tourists
  2. Transport of Goods

- **Currently, both modes of transport are not suitable**
  - Rail, while is well connected to all major and inner cities are currently not used for tourists
  - Road, while has good reach in some isolated areas, they are not well-connected enough for an efficient transport of goods

Talent for Industry Growth

Preparing and growing talent for the 1 million tourists who will visit Kangwon every year

조선
교류 | CHOSON
EXCHANGE

WHERE DO WE GO FROM HERE?

BUILD NORMS FOR REGIONAL DEVELOPMENT COOPERATION THROUGH KANGWON PROVINCE IN DPRK

1. RESTART TRAINING AND EXCHANGES FOCUSING ON KANGWON OVER NEXT 5 YEARS

2. BUILD NORMS FOR REGIONAL ECONOMIC COOPERATION & INTEGRATION

3. SUPPORT POST-COVID RECOVERY STARTING FROM TODAY

4. KANGWON SHOULD BECOME A NEW TEST BED AND PROTOTYPE FOR COOPERATION WITH DPRK

조선 | CHOSON
교류 | EXCHANGE

2019 WONSAN KALMA GEUMGANGSAN VISIT

[2019] Wonsan Kalma Tourist Zone

2019 WONSAN KALMA GEUMGANGSAN VISIT

[2019] Geumgangsan Site Survey

TOWARDS A SMART AND RESILIENT PROVINCE IN NORTHEAST ASIA

조선
교류 CHOSON
EXCHANGE

Economic Roadmap for Kangwon Province

Three Key Developments

Infrastructure and Facilities

- Improve frequency of flights, buses and rail
- Increase power generation
- Improve road conditions
- Telecommunications
- Build hotels and entertainment facilities

Developing Talent

- Developing Kangwon as the key tourism-focused region in DPRK
- Building tourism institutes, supporting talents in sector
- Promoting Kangwon region as natural and historical center
- Bundle trips to Pyongyang with Wonsan/inner Kangwon visits

Production and Retail Development

- Manufacturing & agri-sectors complement tourism growth
- Increase opportunities for agri-tourism, cultural tourism
- Production focused on augmenting tourism opportunities

Tourism Promotion
Infrastructure
Tourism Facilities
Tourism Core
Talent Grooming
Retail
Production

조선
교류 | CHOSON
EXCHANGE

Three Key Developments (Smart City)

Developing Talent
- Online training delivery

Infrastructure and Facilities
- Digital cartography of infrastructure and facilities
- Sustainability framework

Production and Retail Development
- Integrated dashboard for city level management

Diagram labels: Infrastructure, Tourism Facilities, Tourism Promotion, Tourism Core, Talent Grooming, Production, Retail

조선
교류 | CHOSON
E X C H A N G E

KANGWON DEVELOPMENT INITIATIVE × CHOSON EXCHANGE

A 5-year development initiative.

5개년 개발 계획

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Thank you.

PART II.
Discussion with Financing Experts

Sungsoo JUNG

Director/Team Head of Program Team in Planning & Coordination Dept.
Economic Development Cooperation Fund (EDCF)

Seok Yong YOON

Principal Public Management Specialist
Asian Development Bank

PART II.
Discussion with Financing Experts

Sungsoo JUNG

Director/Team Head of Program Team in Planning & Coordination Dept.
Economic Development Cooperation Fund (EDCF)

Seok Yong YOON

*Principal Public Management Specialist*
Asian Development Bank

WeGO World Smart Sustainable Cities Organization

Korea Eximbank THE EXPORT-IMPORT BANK OF KOREA

EDCF KOREA
Economic Development Cooperation Fund

- Established by **EDCF Act (1986) and Enforcement Decree (1987)**
- Entrusted by **Ministry of Economy and Finance, Korea Eximbank** is responsible for the operations of EDCF, including project identification, appraisal, execution of loan agreement.
- Support partner countries by **extending concessional loans for economic infrastructure projects in the partner countries.**

❖ Financial Performance of EDCF

- Since 1987, EDCF has committed total **USD 18.0B** to **57 partner countries with 446 projects**
- In 2019, EDCF committed USD 2.22B to 18 countries with 30 projects

Annual Commitment (left axis) — Accumulated Commitment (right axis)
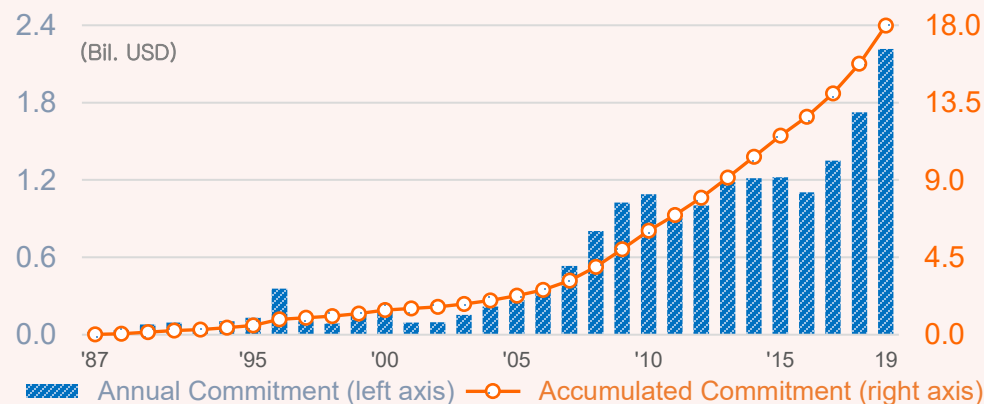
❖ EDCF's Operational System and Procedure

1. Terms and Conditions for EDCF ODA Loans

- Loan Amount: Up to 100% of total project cost
- Interest Rate: 0%~2.5% per annum
- Repayment(Grace) Period: Up to 40(15) years

2. Types of EDCF ODA Loans

- Development Project Loan
- Public-Private Partnership Loan
- Equipment Loan
- Loan to MDBs
- Invest in SPCs or Funds
- Program Loan
- Sector Development Loan
- Project Preparation Facility
- Guarantee for Financial Institutions
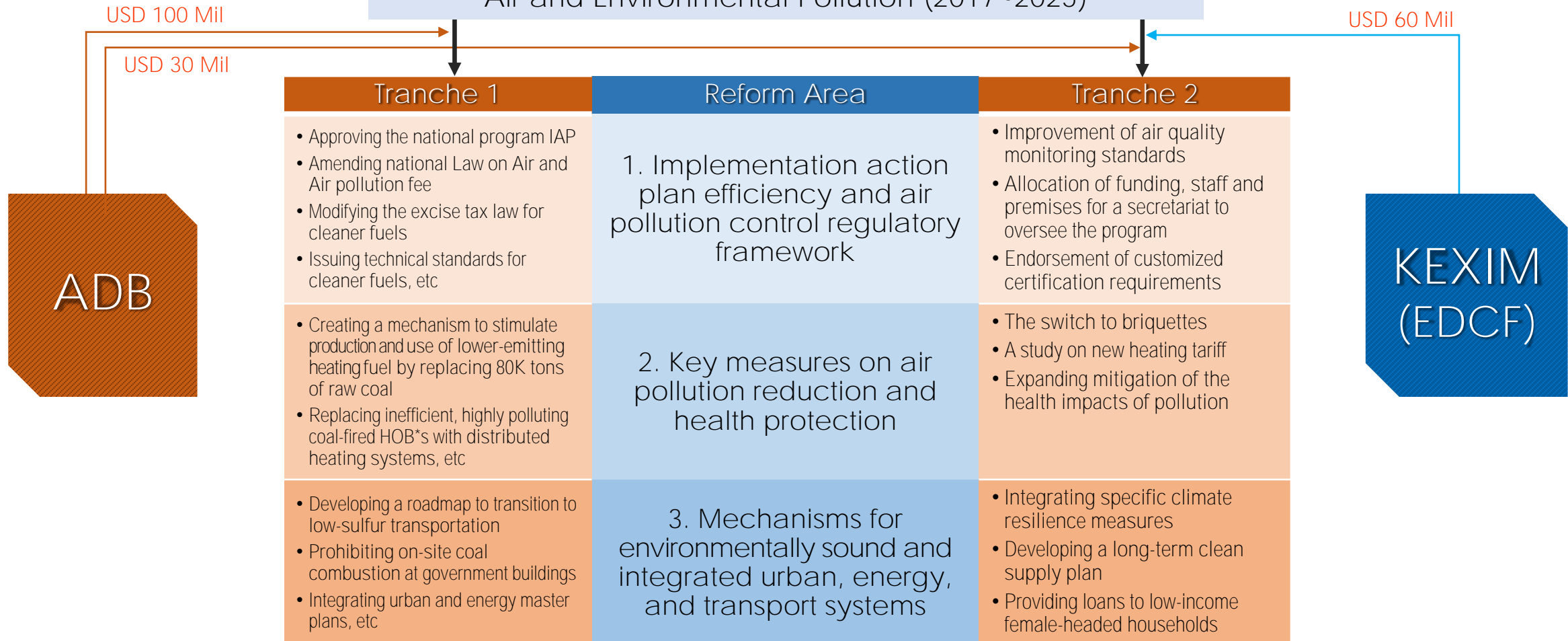- Co-financing with MDBs

3. Procedures related to EDCF ODA Loans

1. Project Identification	2. Loan Request	3. Project Appraisal	4. Approval
8. Project Evaluation	7. Disbursement	6. Procurement	5. Loan Agreement

❖ What else Korea Eximbank can provide?

- KSP(Knowledge Sharing Program) policy consulting (grants)
- DFI financing for PSD(private sector development) project
- Blended finance with EDCF loans for the development projects
- Overseas investment financing for the SPCs of PSD projects

Thank you.

WeGo

PART II.
Discussion with Financing Experts

Sungsoo JUNG

*Director/Team Head of Program Team in Planning
& Coordination Dept.*
Economic Development Cooperation Fund (EDCF)

Seok Yong YOON

Principal Public Management Specialist
Asian Development Bank

Smart Cities and Asian Development Bank

NEASCN ONLINE PRE-WORKSHOP

Seok Yong ("SY") Yoon

Principal Public Sector Specialist (e-Governance)

Asian Development Bank

ADB

TOPICS

- Asian Development Bank (ADB)

- Digital Technology in ADB Operation

- Smart Cities and Developing Asia

Disclaimer:
The views expressed in this presentation are those of the presenter and do not necessarily reflect the views and policies of the Asian Development Bank.

Asian Development Bank member states
- Outside regions
- Asia-Pacific region

Asian Development Bank

- Established in 1966
- 68 Member Countries   (49 from the region)
- HQ in Manila, Philippines.   RM in 29 countries
- about 3,555 employees (1,287 int'l)
- 2019 financing : $21.6 billion for loans and grants, $237 million for TA

Loans, Grands, Equity Investment and Guarantees by Sector, 2019

- **35%** TRANSPORT
- **14%** PUBLIC SECTOR MANAGEMENT
- **12%** ENERGY
- **10%** AGRICULTURE, NATURAL RESOURCES, AND RURAL DEVELOPMENT
- **10%** FINANCE
- **6%** WATER AND OTHER URBAN INFRASTRUCTURE AND SERVICES
- **5%** EDUCATION
- **3%** HEALTH
- **3%** INDUSTRY AND TRADE
- **3%** INFORMATION AND COMMUNICATION TECHNOLOGY

Top recipients by commitments, 2019

	Country	%
1	India	19
2	Philippines	12
3	China, People's Republic of	10
4	Pakistan	10
5	Indonesia	7
6	Bangladesh	6
7	Uzbekistan	5
8	Myanmar	4
9	Sri Lanka	4
10	Georgia	3
11	Regional	1
12	Other DMCs	18
	TOTAL	100

ADB Support Framework

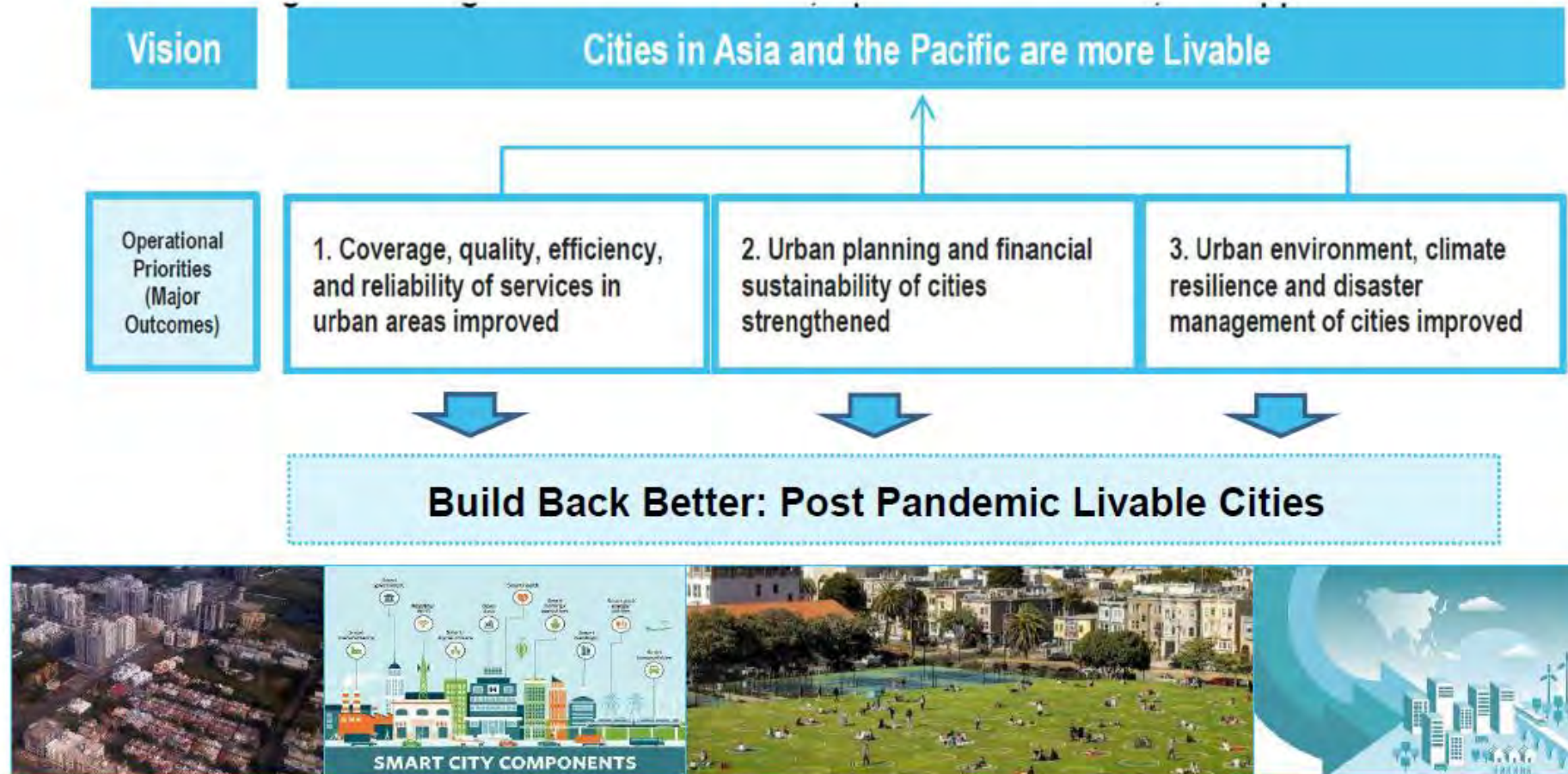| **Policy Advisory**	**Capacity Building**	**Investment**
• TAs • Researches • Policy coordination and advice	• TAs • Training • Knowledge sharing & exchange	• Grant • Loan • Policy Loan Investment • Multi-tranche Financial Facility (MFF) • Result-Based Loan (RBL) • Guarantee • PPP • Co-financing

ADB's Corporate Strategy 2030

Strategy 2030: Achieving a Prosperous, Inclusive, Resilient, and Sustainable Asia and the Pacific
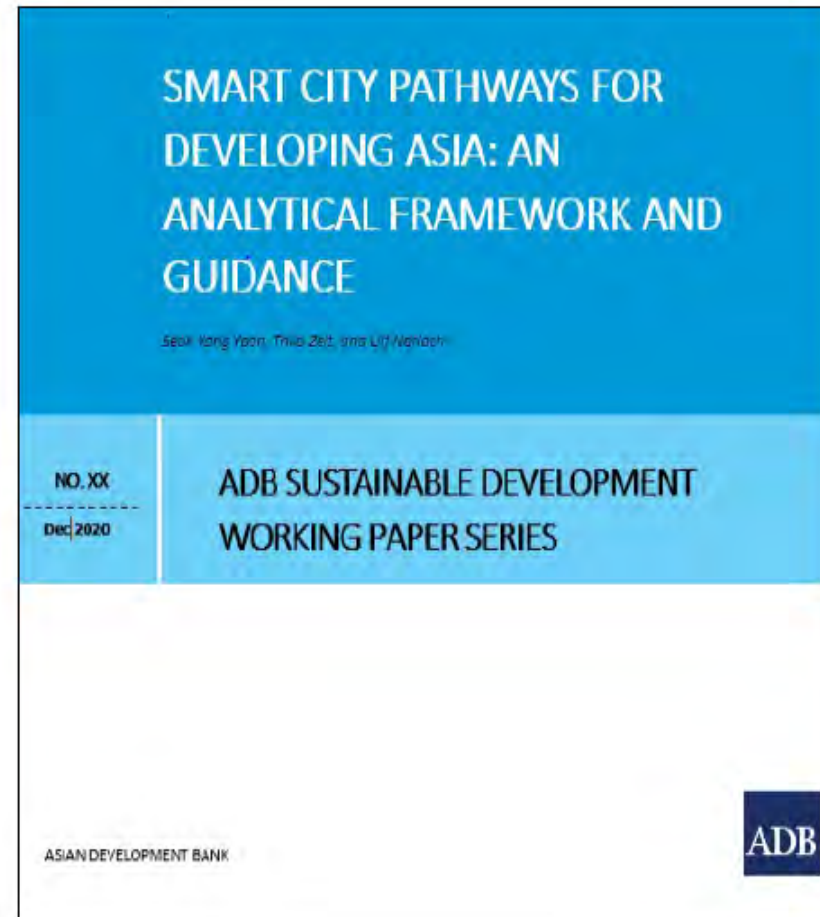
7 Operational Priorities

	Poverty Reduction and Reducing Inequalities
	Gender Equality
	Climate Change, Disaster Resilience, and Environment
	Making Cities More Livable
	Promoting Rural Development
	Governance and Institutional Capacity
	Fostering RCI

Operational Priority 4: Making Cities More Livable

Vision	Cities in Asia and the Pacific are more Livable		
Operational Priorities (Major Outcomes)	1. Coverage, quality, efficiency, and reliability of services in urban areas improved	2. Urban planning and financial sustainability of cities strengthened	3. Urban environment, climate resilience and disaster management of cities improved

Build Back Better: Post Pandemic Livable Cities
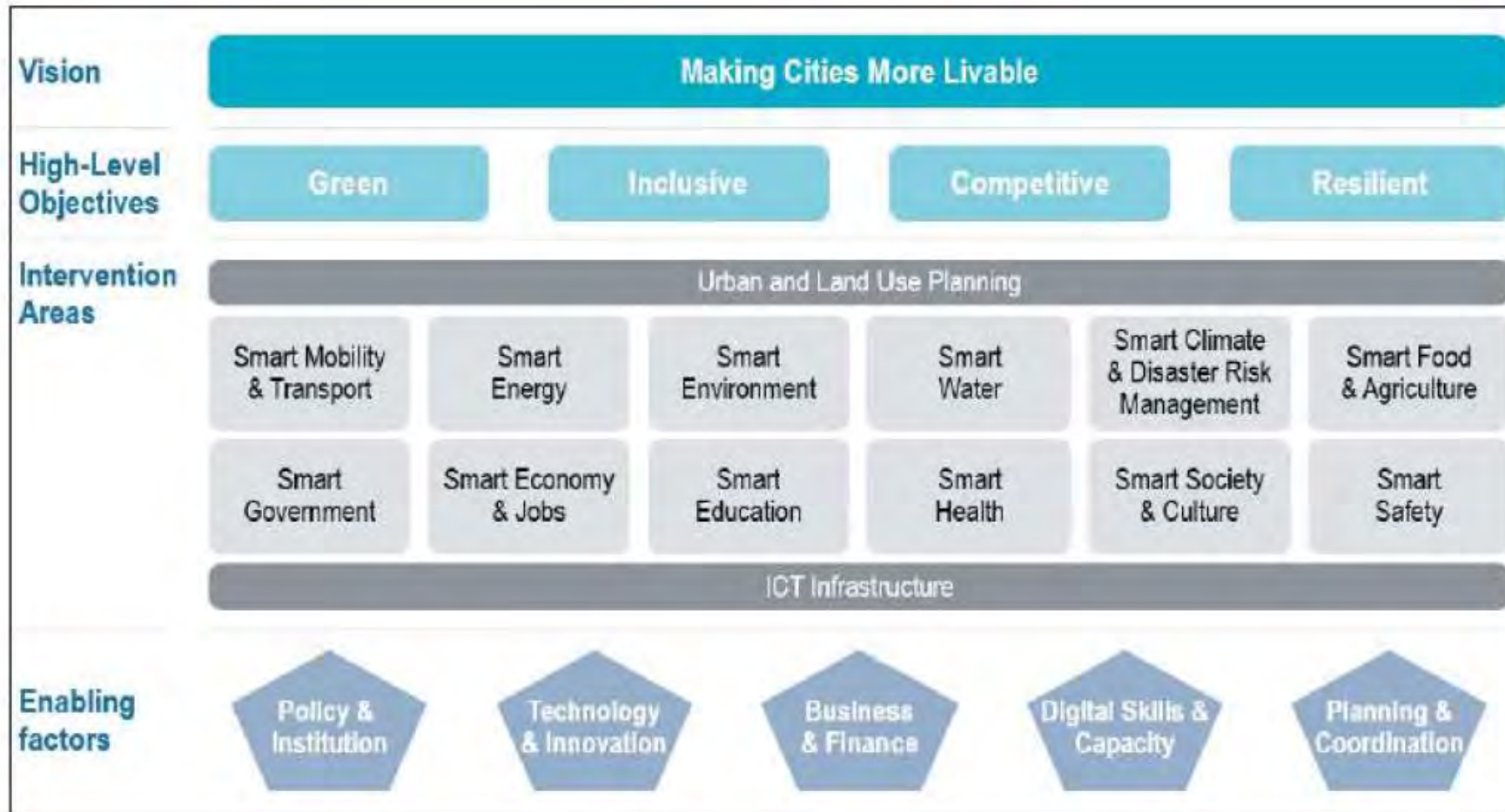
SMART CITY COMPONENTS

Smart Cities in ADB Operation

- Smart Cities - Places where digital technology solutions are applied to address urban challenges to the benefit of citizens, businesses, and government

- ADB publication on "Smart City Pathways for Developing Asia: An Analytic Framework and Guidance"

SMART CITY PATHWAYS FOR DEVELOPING ASIA: AN ANALYTICAL FRAMEWORK AND GUIDANCE

Seok Yong Yoon, Thilo Zelt, and Ulf Narloch

NO. XX

Dec 2020

ADB SUSTAINABLE DEVELOPMENT WORKING PAPER SERIES

ASIAN DEVELOPMENT BANK

ADB

Smart City Analytic Framework

| Vision	Making Cities More Livable					
High-Level Objectives	Green		Inclusive	Competitive		Resilient
Intervention Areas	Urban and Land Use Planning					
	Smart Mobility & Transport	Smart Energy	Smart Environment	Smart Water	Smart Climate & Disaster Risk Management	Smart Food & Agriculture
	Smart Government	Smart Economy & Jobs	Smart Education	Smart Health	Smart Society & Culture	Smart Safety
	ICT Infrastructure					
Enabling factors	Policy & Institution	Technology & Innovation	Business & Finance	Digital Skills & Capacity	Planning & Coordination	

Source: ADB. (2021). "Smart City Pathways for Developing Asia: An Analytic Framework and Guidance"

Digital Connectivity

- Most developing countries are not ready to maximize the use of digital technologies.
- Broadband Internet is not affordable in many developing countries
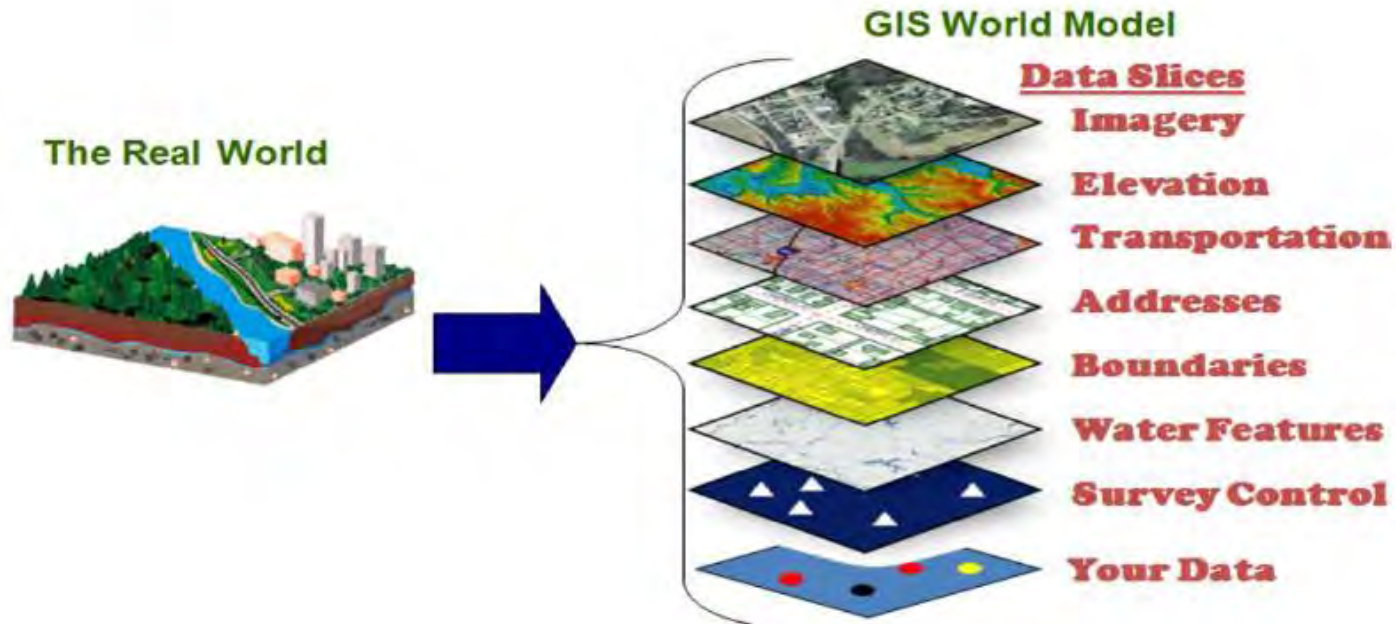- Lack of quality digital services is a big challenge

Mobile population coverage by type of networks, 2007-2019
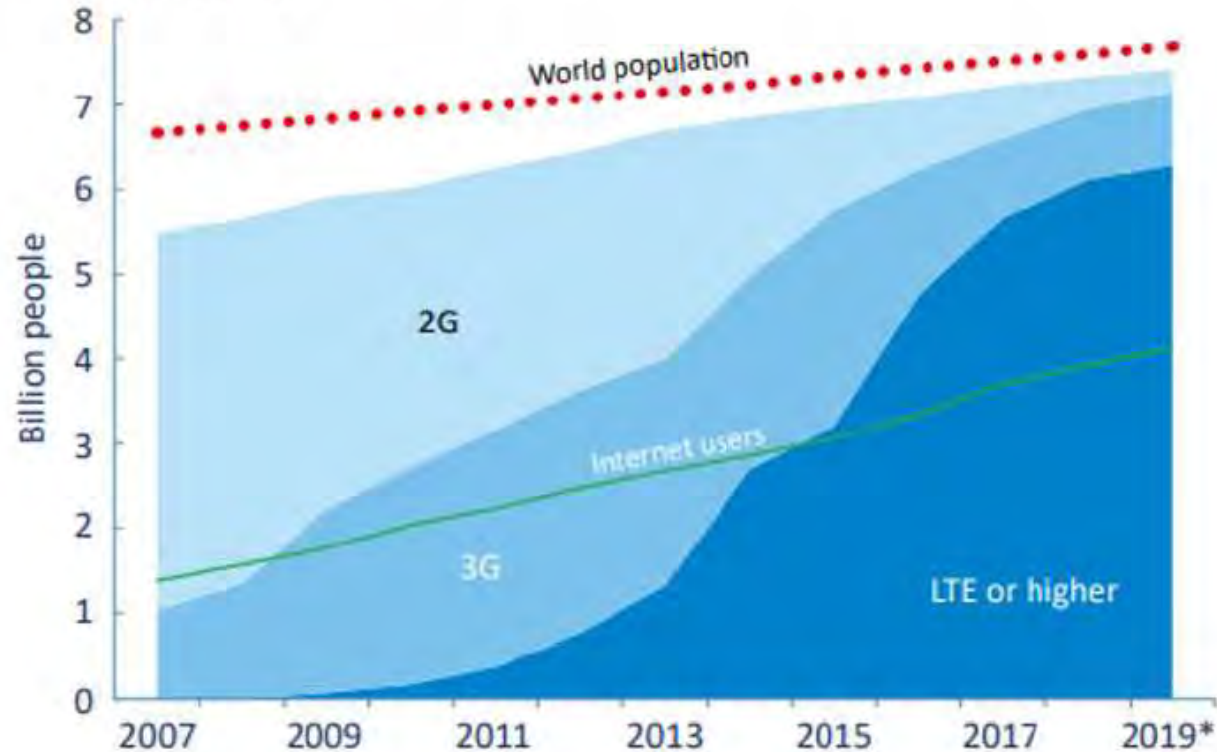

Source: ITU

Smart City Data Infrastructure

- Spatial Data Infrastructure is a foundation for smart cities
- Developing countries are also building or have a plan to develop their own SPIs at different levels

Image source : https://henrico.us

Urban Transportation

Intelligent Transport System, Guizhou (PRC)

In August 2019, ADB approved a $200 million loan to support the development of an innovative intelligent transport system to reduce pollution, cut traffic congestion, and improve transport safety in Gui'an, a fast-growing new city of Guizhou Province in the People's Republic of China (PRC).
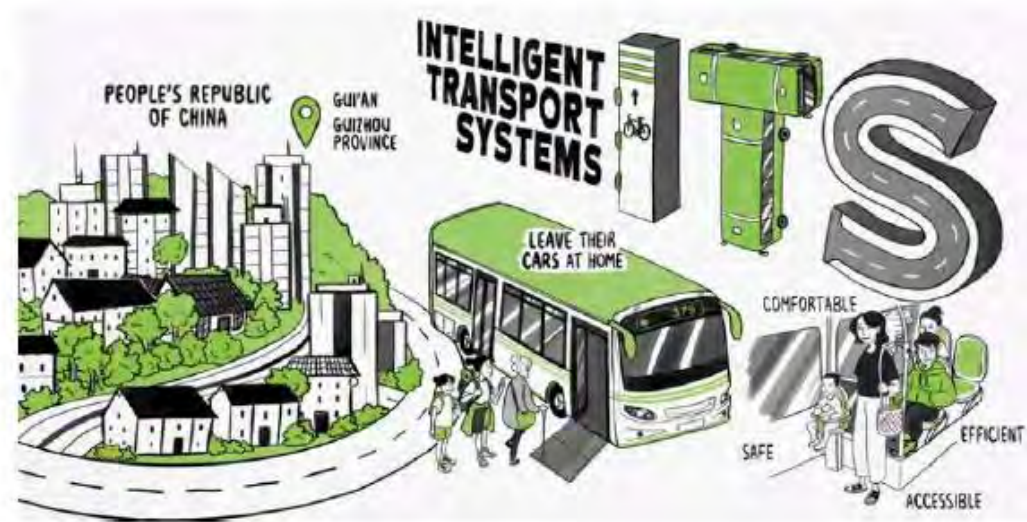
Source: ADB. 2019. ADB-Supported Sustainable Transport Project to Reduce Pollution, Improve Mobility in Guizhou, PRC. https://www.adb.org/news/adb-supported-sustainable-transport-project-reduce-pollution-improve-mobility-guizhou-prc

Regional Cooperation

ASEAN Australia Smart Cities Trust Fund

- On 1 April 2019, ADB approved the establishment of the ASEAN Australia
- Smart Cities Trust Fund (AASCTF or the Fund).
- On 2 April 2019, the Government of Australia committed to contribute about $14 million towards the Fund.
- The Fund aims to improve core functional areas (planning systems, service delivery and financial management) of participating ASEAN cities through adaptation of appropriate digital solutions

Source: ADB. 2019. ADB-Supported Sustainable Transport Project to Reduce Pollution, Improve Mobility in Guizhou, PRC. https://www.adb.org/news/adb-supported-sustainable-transport-project-reduce-pollution-improve-mobility-guizhou-prc

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Thank You

syoon@adb.org

Thank you.

SESSION II. Smart City Projects in Northeast Asia and Project Financing

Q&A

○ What types of projects appropriate for Northeast Asian cities could be foreseen to attract financing, publicly or privately?

○ What are common big issues that these cities face in accessing project financing?

○ What would be some practical measures that NEASCN could take to support Northeast Asian cities in securing project facilities for smart city development?

Introduction of
NEASCN Task Force

Todor MERDJANOV

Corporate Partners
World Smart Sustainable Cities Organization (WeGO)

# Introduction of NEASCN Task Force

Purpose. Develop a Framework for NEASCN that will define the key functions and principles guiding membership in, and cooperation with, NEASCN.

Composition.
- O Overseeing body: WeGO Secretariat
- O 7 experts in smart city development and regional networks
- O Advisors for external consultation and support

Term. Sep, 2020 – Inaugural Meeting of NEASCN (2021 TBD)

Progress. NEASCN Task Force Meetings (Sep & Nov, 2020); Framework Outline Blueprint
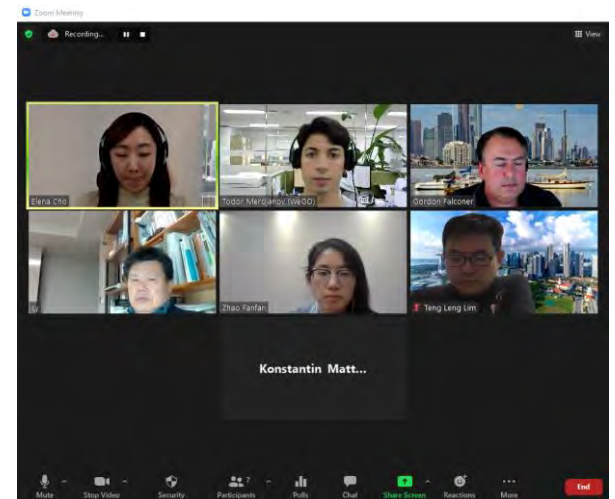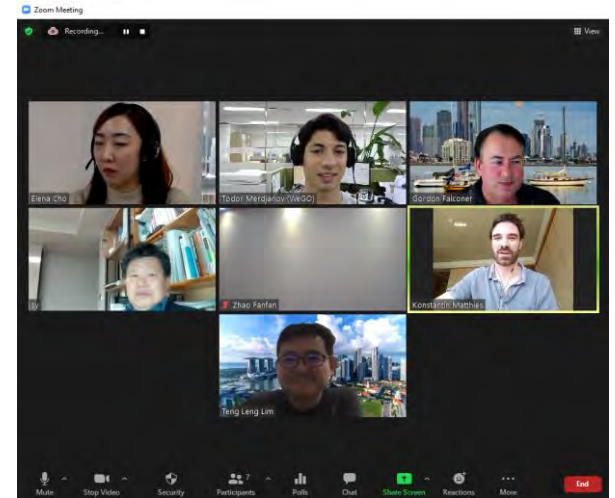
NEASCN Task Force Members

Bill BANKS

EY Global Infrastructure Leader
Ernst & Young (EY)

Teng Leng LIM

Deputy Director
Centre for Liveable Cities (CLC)

Konstantin MATTHIES

Principal Consultant
AlphaBeta

Kwangsok OH

Vice President / Chief Innovation Officer
Korea Institute for Development Strategy (KDS)

Alexander PRILEPIN

Head of the Project Office for Strategic Planning and Development of Territories of the Russian Federation
Union of Russian Cities (URC)

Shu ZHU

Regional Director
ICLEI East Asia

Fanfan ZHAO

Deputy Director of Smart Low Carbon Department
China Centre for Urban Development (CCUD)

Introduction of NEASCN Task Force

Framework Outline Blueprint

Foreword	Introduction	Governance	Priority Areas	Strategic Outcomes	Partners	About WeGO
Deliver messages from WeGO's President, T/F Chairperson, and mayors/governors from prospective members.	Include Executive Summary of NEASCN, based on the concept and vision.	Describe the governance structure and operational functioning of NEASCN.	Define important and feasible areas in smart city development for NEASCN.	Identify specific goals and outcomes that NEASCN aims to achieve in the long-term	Identify key partners, funding & resources for NEASCN.	Provide a description of WeGO as the central organization behind NEASCN, along with credits to the TF.
• WeGO President • NEASCN T/F Chair • Governors & mayors	• Overview • Mission statement • Guiding principles • Objectives & tasks	• Structure • Membership • Annual meetings • Reporting	• Knowledge sharing • F/S and pilot projects • Bankable projects • Interests of city members	• Digitalization of public services • Sustainability • Resilience • High quality of life	• IOs • MDBs and ODA agencies • Private sector • Academic partners • Smart city networks	• WeGO • NEASCN T/F

Thank you.

Takeaways and To-Do List for NEASCN Inaugural Meeting

Eunbyul (Elena) CHO

Program Manager
World Smart Sustainable Cities Organization (WeGO)

Takeaways and To-Do List for NEASCN Inaugural Meeting

O Identifying partners and stakeholders

O More participation from local governments and corporations

O Development of NEASCN Framework

O Organization of regionally focused programs with partners

O NEASCN Inaugural meeting in 2021

WeG⚙

NEASCN Inaugural Meeting in 2021

Be a part of this network!

WeGo

Thank You.

🌐 /We-gov.org

f /WeGovOrg

🐦 /WeGov_org

▶ /WeGO Secretariat