CLIMATE LEADERSHIP PROGRAMME
14-15 APRIL 2022

Learning from Best Practices – Presentation of CityNet's SDG Navigator and Localization Toolkit

REGISTER

CITYNET
THE REGIONAL NETWORK OF LOCAL AUTHORITIES
FOR THE MANAGEMENT OF HUMAN SETTLEMENTS

Jakarta Research Council

- The Urban SDG Knowledge Platform was established in 2017 following the 2016 International Forum on Urban Policy for Sustainable Development Goals held in Seoul.
- The Secretary General of UNESCAP visited Seoul and invited SMG to run a city-level SDG database with UNESCAP.
- The platform was then officially launched at the 8th CityNet Congress.

URBAN SDG KNOWLEDGE PLATFORM

CITYNET
REGIONAL NETWORK OF LOCAL AUTHORITIES
FOR THE MANAGEMENT OF HUMAN SETTLEMENTS

SEOUL METROPOLITAN GOVERNMENT

UNITED NATIONS
ESCAP
Economic and Social Commission for Asia and the Pacific

Gain access to activities and insights for sustainable urban developments from various cities

Promote cities' achievements in sustainable urban development

Connect cities through city-to-city cooperation through peer-to-peer learning

LEARN

The Urban SDG Knowledge Platform

SHARE

REPLICATE

URBAN SDG KNOWLEDGE PLATFORM

UPLOAD CASE STUDIES   MY PROFILE | LOGOUT

ABOUT   CASE STUDY DATABASE   SDG NAVIGATOR   INFORMATION   LOCALIZING SDGS   NEWS & EVENTS   PUBLICATIONS

Nadee Subdistrict Municipality | Thailand

Sustainable Industrial Waste Management in Nadee

Titled "Healthy and Zero-Waste City", the project engaged multi-stakeholders to integrate analysis and planning with systems approaches and make evidence-based decisions to improve industrial waste.

READ MORE >

SDG NAVIGATOR FOR CITIES

The SDG Navigator is a self-assessment tool, created to help cities and city government officials evaluate their current performance in the implementation of SDGs, based on official United Nations SDG targets. Additionally, the SDG Navigator will suggest best practices from the Urban SDG Knowledge Platform that will help cities address their challenges in SDG implementation.

POVERTY & HUNGER REDUCTION, FOOD SECURITY

HEALTH

EDUCATION

SOCIAL INCLUSION

WATER & SANITATION

ENERGY

ECONOMY & JOBS

TRANSPORTATION

URBAN ENVIRONMENT

GOVERNANCE & FINANCE

URBAN SDG KNOWLEDGE PLATFORM

urbansdgplatform.org

URBAN SDG KNOWLEDGE PLATFORM

UPLOAD CASE STUDIES   LOGIN | JOIN

ABOUT   CASE STUDY DATABASE   SDG NAVIGATOR   INFORMATION   LOCALIZING SDGS   NEWS & EVENTS   PUBLICATIONS

HOME | CASE STUDY DATABASE

CASE STUDY DATABASE

All ▼   [   ]   SEARCH

≡ FILTER BY

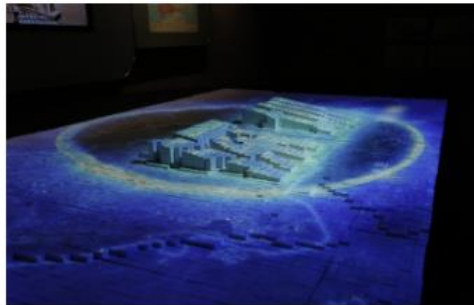SHOWING **367** RESULTS   LATEST | MOST VIEWED | MOST COMMENTS

Nadee Subdistrict Municipality | Thailand

Sustainable Industrial Waste Management in

Project engaged multi-stakeholders to integrate analysis and planning with systems approaches and make

22.03.18   👁 255

Shenzhen | China

Shenzhen National Territory Spatial Smart Governance

Shenzhen National Territory Spatial Smart Governance Lab is an intensive, intuitive, and smart platform for

22.02.25   👁 135

City of Suwon | Korea, South

Public Funeral Service Project for the Unclaimed

Suwon Public Funeral Service Project provides funeral rites that support the smooth operation of funerals when people

22.02.24   👁 269

City-fed Policy Repository

Support cities in meeting the challenges of Sustainable Development

Knowledge Dissemination

City-to-City Cooperation

Share New Experiences

Localize Best Practices

URBAN SDG KNOWLEDGE PLATFORM

urbansdgplatform.org

UPLOAD CASE STUDIES | MY PROFILE | LOGOUT 🔍

URBAN SDG KNOWLEDGE PLATFORM

ABOUT CASE STUDY DATABASE SDG NAVIGATOR INFORMATION LOCALIZING SDGS NEWS & EVENTS PUBLICATIONS

Create a profile
& upload a case!

HOME | MY PROFILE

CASE STUDY DATABASE UPLOAD

PLEASE NOTE: To address heightened web security concerns and to prevent malicious attacks on the website, the upload page has a time limit of 3 hours. After 3 hours, any work on progress will be discarded. If you would need more time to prepare your submission, please download the offline submission template by clicking on the button below, and use it to prepare the information before adding the contents to the form below. Alternatively, please send the completed submission form via e-mail to **sdgplatform@citynet-ap.org**

CASE STUDY OVERVIEW

OFFLINE SAMPLE DOWNLOAD | OFFLINE UPLOAD FORM

TITLE*	Title
SUMMARY*	Describe the initiative in one or two sentences(140 characters max)
CITY*	Name of city
COUNTRY *	Country Select ▼
REGION*	Select ▼
IMPLEMETATION PERIOD*	Note : Select the status of the initiative — Select ▼ Start year Completion year
STAKEHOLDER AND PARTNERS*	Note : List the key organizations, stakeholders, and government departments involved in this initiative, including any collaborative or cross-departmental coordination mechanisms.
THEMES*	Note : Select the key theme(s) that this initiative is related to. If selecting 'Other', please describe. ◯ Urban Planning ◯ Housing ◯ Transport ◯ Water and Sanitation

From Critical Land to a Dream Urban Forest

Region : Banda Aceh | Indonesia
Goal : Goal 5 | Goal 15 | Goal 17
Author : Mirza Yanto

+ view other contents

21.05.12
VIEW 7469 | LIKE 1 | SHARE 1 | COMMENT 0

CASE STUDY OVERVIEW

CLOSE -

TITLE	From Critical Land to a Dream Urban Forest
SUMMARY	Critical Land Conversion to A Green Urban Forest in Banda Aceh in Order to Halt and Reverse Land Degradation and Halt Biodiversity Loss
CITY	Banda Aceh
COUNTRY	Indonesia
REGION	Southeast Asia
IMPLEMENTATION PERIOD	-Status: Completed -Start: 2010 -Completion: 2015
STAKEHOLDERS AND PARTNERS	Banda Aceh Municipality, BNI 46 Bank, Bustanussalatin Foundation, Department of Fisheries, Agriculture, Plantations of Aceh Province, Community of Tibang Village, Environmental Concern Group
THEMES	- Environment and Resilience - Social Inclusiveness and Well-being - Economy and Jobs
SUSTAINABLE DEVELOPMENT GOALS	Goal 5 : Gender Equality Goal 15 : Life on Land Goal 17 : Partnerships for the Goals

SUSTAINABLE DEVELOPMENT GOALS(text)

5.1. End all forms of discrimination against all women and girls everywhere 15.1. By 2020, ensure the conservation, restoration and sustainable use of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements 15.2, By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and reforestation globally 15.3. By 2030, combat desertification, restore degraded land and soil, including land affected by desertification, drought and floods, and strive to achieve a land degradation-neutral world 17.17. Encourage and promote effective public, public-private and civil society partnerships, building on the experience and resourcing strategies of partnerships

SDG NAVIGATOR

Dr. Keeheon Lee

Professor of Creative Technology Management,

Underwood International College, Yonsei University

Dr. Semee Yoon

Professor of Sustainable Development and Cooperation

Underwood International College, Yonsei University

CITYNET

THE REGIONAL NETWORK OF LOCAL AUTHORITIES
FOR THE MANAGEMENT OF HUMAN SETTLEMENTS

SDG NAVIGATOR

Test Selection Page

SDG NAVIGATOR FOR CITIES

The SDG Navigator is a self-assessment tool, created to help cities and city government officials evaluate their current performance in the implementation of SDGs, based on official United Nations SDG targets. Additionally, the SDG Navigator will suggest best practices from the Urban SDG Knowledge Platform that will help cities address their challenges in SDG implementation.

POVERTY & HUNGER REDUCTION, FOOD SECURITY	HEALTH	EDUCATION	SOCIAL INCLUSION	WATER & SANITATION
ENERGY	ECONOMY & JOBS	TRANSPORTATION	URBAN ENVIRONMENT	GOVERNANCE & FINANCE

VIEW RESULTS >

How to assess the progress your city has made in SDGs implementation?

Where do we go from there?

CITYNET

UNITED NATIONS ESCAP
Economic and Social Commission for Asia and the Pacific

SEOUL METROPOLITAN GOVERNMENT

SDG NAVIGATOR

Results Page
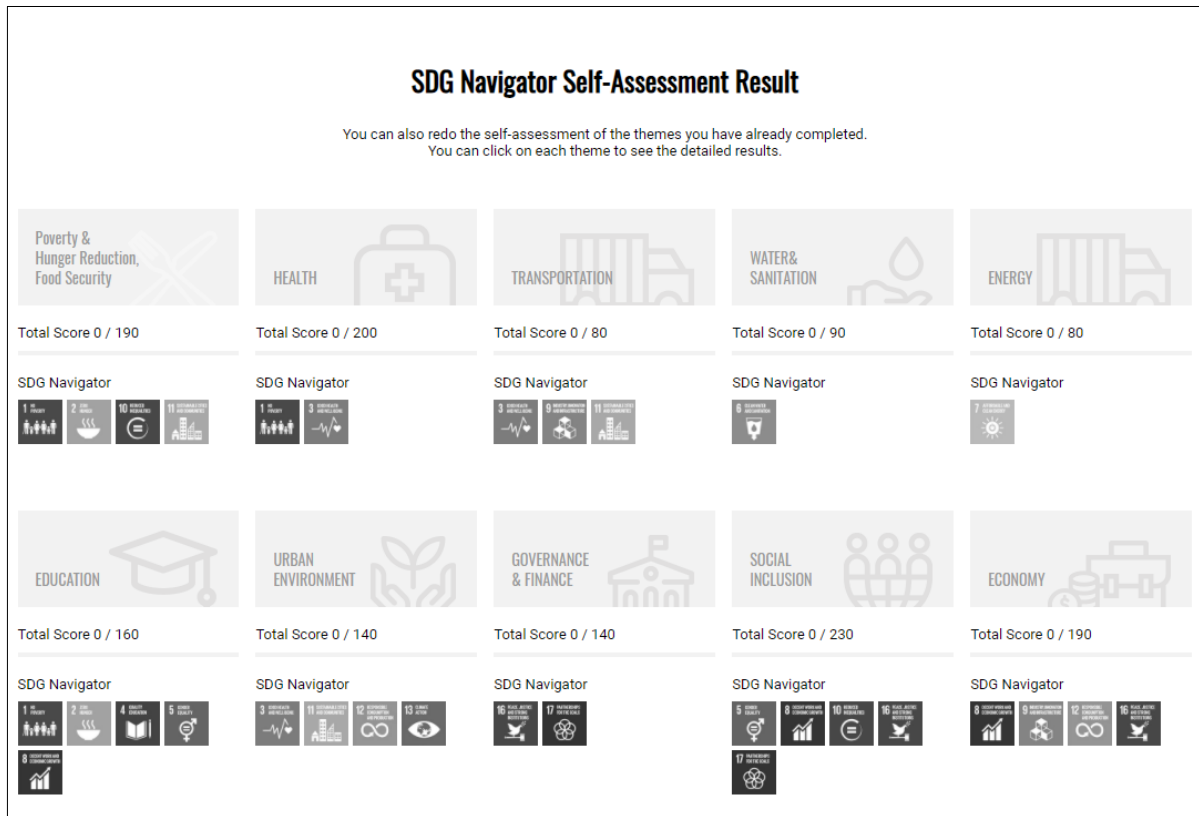
When no part of the self-assessment have been completed
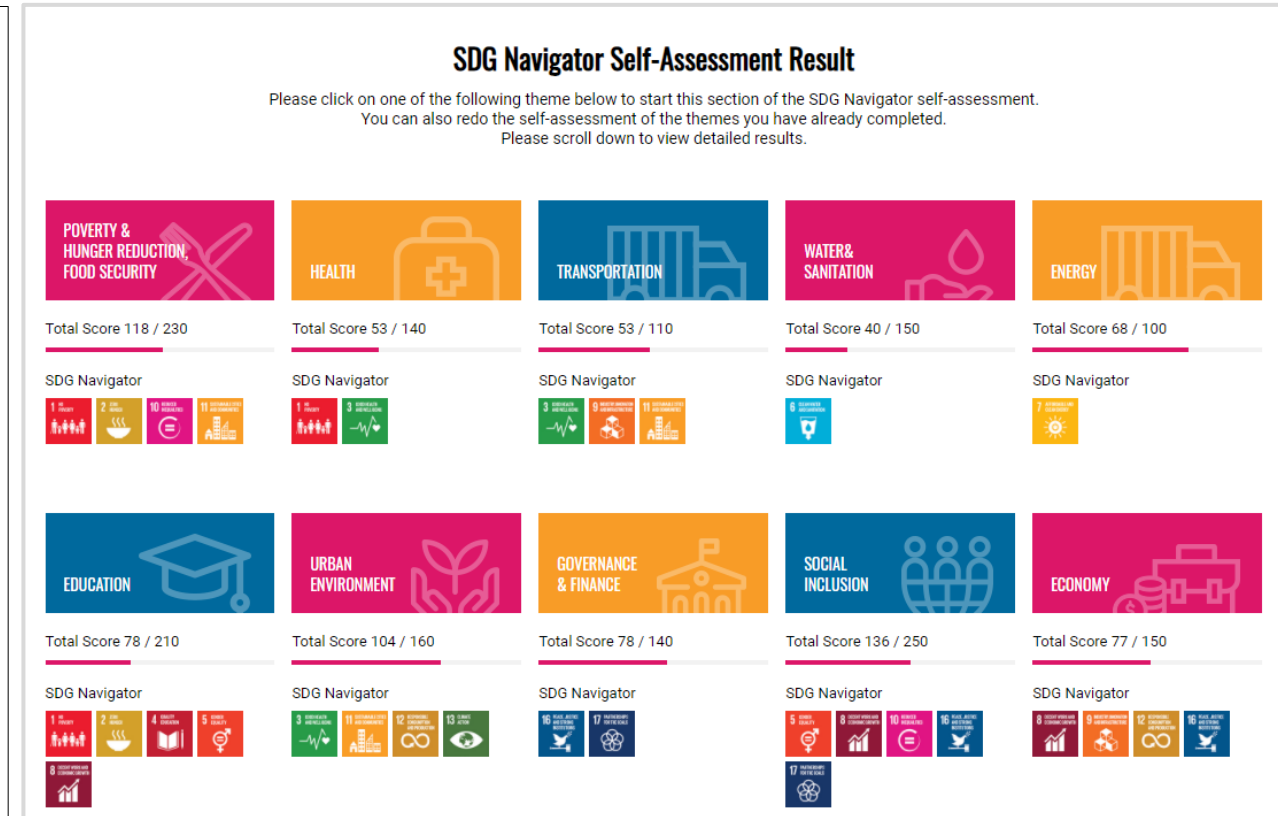
When all 10 parts (themes) of the self-assessment are completed

SDG NAVIGATOR

SDG Wheel Results

OVERALL SUMMARY OF THE RESULT

Incomplete

OVERALL SUMMARY OF THE RESULT

Complete

SDG Sub-target Results

SDG NAVIGATOR TEST RESULT

Please click on a target result to see recommended case studies.

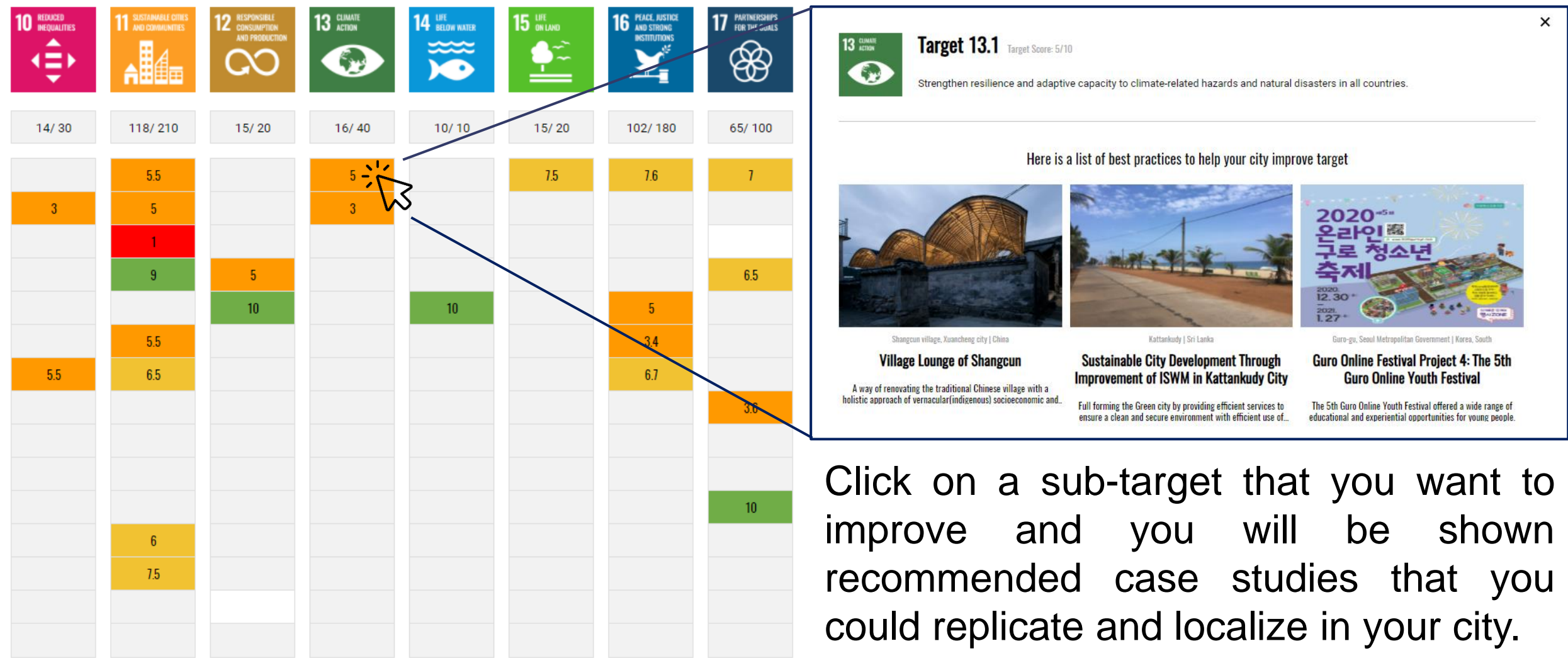| SDG Navigator	1 NO POVERTY	2 ZERO HUNGER	3 GOOD HEALTH AND WELL-BEING	4 QUALITY EDUCATION	5 GENDER EQUALITY	6 CLEAN WATER AND SANITATION	7 AFFORDABLE AND CLEAN ENERGY	8 DECENT WORK AND ECONOMIC GROWTH	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	10 REDUCED INEQUALITIES	11 SUSTAINABLE CITIES AND COMMUNITIES	12 RESPONSIBLE CONSUMPTION AND PRODUCTION	13 CLIMATE ACTION	14 LIFE BELOW WATER	15 LIFE ON LAND	16 PEACE, JUSTICE AND STRONG INSTITUTIONS	17 PARTNERSHIPS FOR THE GOALS
Total Score	45/80	42.6/80	49/140	46/160	32/90	40/150	68/100	79/150	37/60	14/30	118/210	15/20	16/40	10/10	15/20	102/180	65/100
Target Specific 1.	1	5		2.3	3.5	1	8	1			5.5		5		7.5	7.6	7
Target Specific 2.		5.6		2	3	2.3	7.5	4.5	5.5	3	5		3				
Target Specific 3.	5	5	5	3.6		7.5	3.6	4	10		1						6.5
Target Specific 4.			5	1.5		2.2					9	5					
Target Specific 5.	5			5	3	1		6.1				10		10		5	
Target Specific 6.			1	1				7.5		5.5	5.5					3.4	
Target Specific 7.											6.5					6.7	
Target Specific 8.			1.5														3.6
Target Specific 9.			8														
Target Specific 10.								3									10
Target Specific a.	6.8		4		10		10				6						
Target Specific b.					1		3				7.5						
Target Specific c.		7		5.5	1				5								
Target Specific d.			4														

SDG Sub-target Results – Case Study Recommendation

Click on a sub-target that you want to improve and you will be shown recommended case studies that you could replicate and localize in your city.

Seoul | Korea, South

In-use Diesel Vehicle Emissions Reduction Project

The project aims to safeguard 10 million Seoul residents from harmful air pollutants and ensure clean living

17.10.30   👁 487

CASE STUDY OVERVIEW

In-use Diesel Vehicle Emissions Reduction Project

Region: Seoul | Korea, South

The project aims to safeguard 10 million Seoul residents from harmful air pollutants and ensure clean living conditions for them

CASE STUDY OVERVIEW
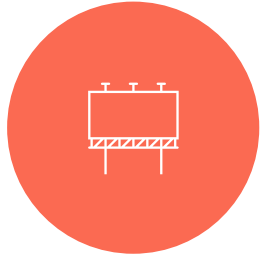
01 BACKGROUND & PROBLEMS

Automobiles account for 52% of air pollution
Fine dust mostly generated by diesel vehicles
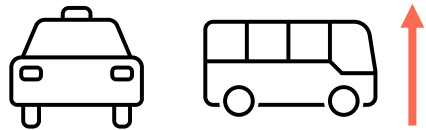
Air pollutants from public transportation accounts for more than 70% of total emission of air pollutants + increasing due to transnational air pollution
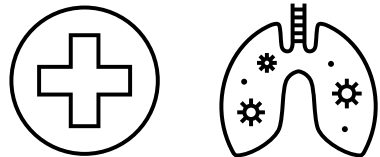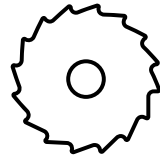
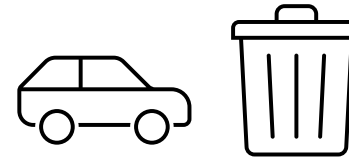Nitrogen Oxides (NOx) that could be found in both fine dust and ultrafine particles directly affect human health

02 OBJECTIVES

11 SUSTAINABLE CITIES AND COMMUNITIES

13 CLIMATE ACTION

Install low-emission devices
on diesel vehicles

Encourage the owners of old diesel vehicles
to dispose their vehicles

LPG
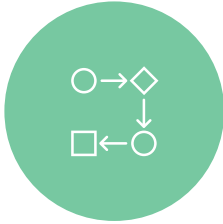
Retrofit vehicle engines
to LPG engines

Reduce hazardous gas emissions
-> protect the health of Seoul residents from air pollution

03 IMPLEMENTATION

1

SUBSIDIES

Install certified emission control devices

SMG financed 90-95% of the cost

2

OTHER INCENTIVES

Exemption from environment taxes and fines & emission inspection for the first 3 years

Case Study

Grant for Emission Control Devices Cleaning Services

Seoul provides financial support in the form of grant for cleansing services that are required regularly for DPF emissions reduction devices. Car owners entitled to this service can either contact any filter cleansing service provider or device manufacturer to make reservations. Individuals whose device is destroyed after 3 years of installation are also entitled to free replacement. However, costs for uninstalling devices, delivery, polluting level and engine oil examination are to be covered by the car owners themselves.

Before cleansing

After cleansing
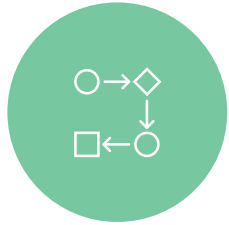
03 IMPLEMENTATION

3

MINIMIZE
ULTRAFINE PARTICLES

Pilot project to install
"NOx & PM emissions control" devices
on 797 vehicles

LPG taxies, diesel buses,
garbage trucks, construction machineries

4

FOLLOW-UP MEASURES

Continuous monitoring
and follow-up measures

Measure the performance
of installed devices

Identify malfunctioning defects
-> replace for free

CASE STUDY OVERVIEW

04 OUTCOMES

Performance of In-use Diesel Vehicle Emissions Reduction Project

(Unit : Number of Car)

Category	2003~2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
LPG Retrofit	585	2,814	8,714	14,285	16,452	14,027	7,922	2,074	961	277	92	68,203
Emissions Control Device	430	9,279	29,715	34,201	9,796	11,709	17,461	14,961	7,617	7,738	3,627	146,534
Early Scrapping of Car	-	37	609	5,805	9,851	9,130	5,442	7,079	7,823	8,797	8,433	63,006
Total	1,015	12,130	39,038	54,291	36,099	34,866	30,825	24,114	16,401	16,812	12,152	277,743

Participation of 300,000 Diesel Vehicles

- Diesel Particulate Filters (DPF) 93,480
- LPG engines 68,203
- DOC (pollutant reduction device) 53,054
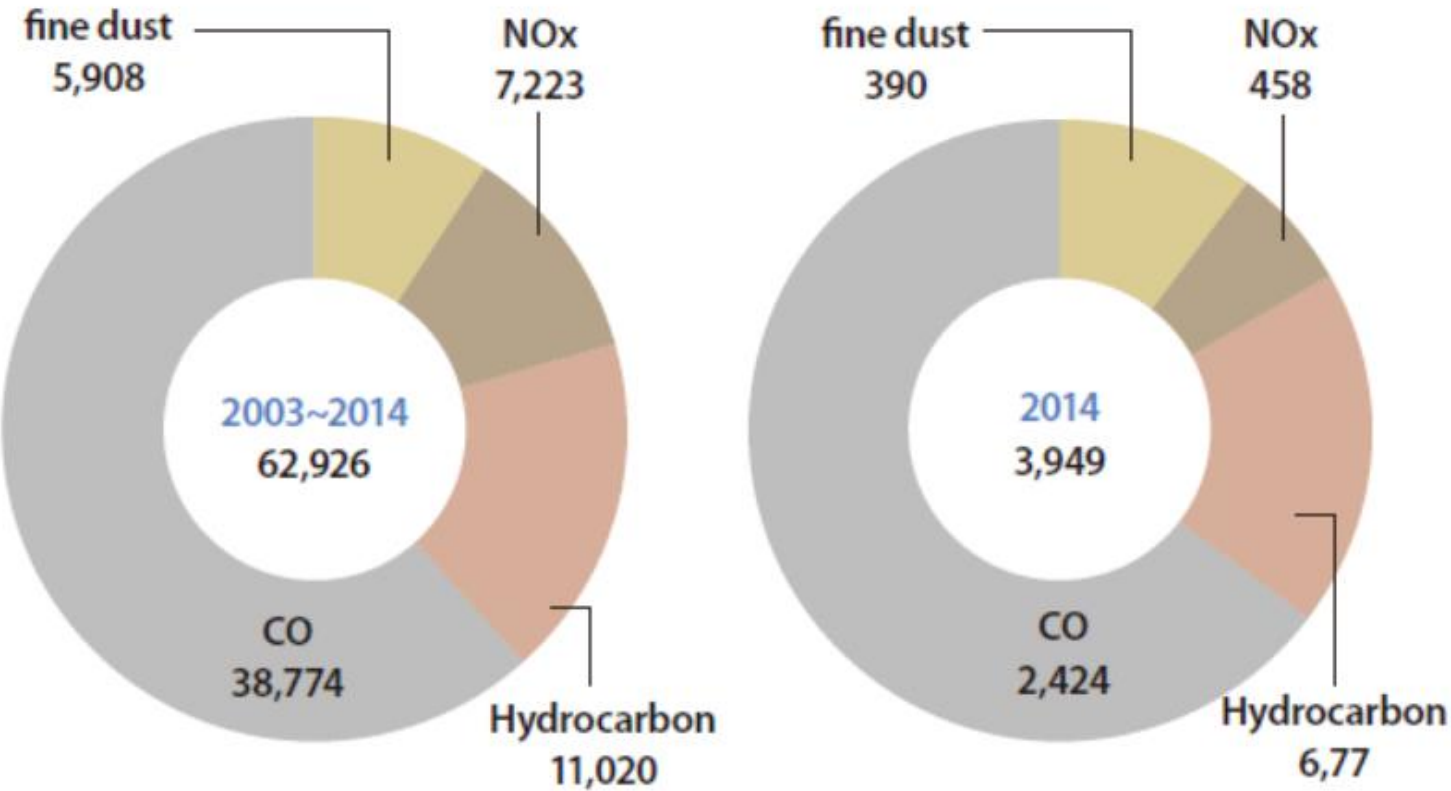- 63,006 underwent early scrapping

04 OUTCOMES

Reduction in Fine Dust Levels

Air Pollutant Reduction by In-use Diesel Vehicle Emissions Reduction Project (Unit : ton)

fine dust
5,908

NOx
7,223

2003~2014
62,926

CO
38,774

Hydrocarbon
11,020

fine dust
390

NOx
458

2014
3,949

CO
2,424

Hydrocarbon
6,77

CASE STUDY OVERVIEW

04 OUTCOMES

Nitrogen Oxides (NOx) Reduction Project

- 70% reduction in NOx in 2013
- Pilot Project expansion
  Install pollutant-controlling devices on additional 324 vehicles in 2014 & 240,000 by 2018

NOx Reduction Pilot Project

(Unit : %)

Measures / Emissions		CO Reduction	NOx Reduction	HC (PM) Reduction
Three-way Catalyst Replacement		82.2	88.4	60.1(HC)
PM-NOx Duel Reduction Device		85.0	70.0	80.0
Engine Change	Water Sprinkler	28.6	60.0	30.3
	Excavator	17.9	54.6	57.8
	Folklift	78.4	46.8	92.1

TOOLKIT ON LOCALIZATION OF URBAN PRACTICES

RESEARCH & CONTENT DEVELOPMENT
KEVIN DROUIN
Program Officer, CityNet

DR. HYEON PARK
Dean and Professor, University of Seoul,
International School of Urban Sciences

DR. HONGSEOG GOH
Visiting Professor, University of Seoul,
International School of Urban Sciences

CITYNET

THE REGIONAL NETWORK OF LOCAL AUTHORITIES
FOR THE MANAGEMENT OF HUMAN SETTLEMENTS

Are you a City Official or an Urban Stakeholder looking to...

Implement best practices and policies based on other cities' successes?

Localize successful projects according to your city's context?

Replicate case studies while adapting them to your city's needs and capabilities?

Identify challenges and obstacles on implementing urban projects?

LOCALIZATION TOOLKIT

The transplantation, replication, and localization of a best practice is a difficult process and is often hindered by delivery challenges.

Examples of Delivery and Implementation Challenges

Overly complex or unclear projects and objectives
→ Transplanted projects don't always have their intended effects

Disengaged or resistant stakeholders
→ Difficulties during implementation, such as limited capacity, misaligned incentives, or lack of coordination among stakeholders

Lack of resources
→ Non-technical as well as technical obstacles

Inefficient or non-existent institutional framework
→ Lack of policy and law to complete the implementation

Weak support or poor project environment
→ Little or no support from the population and politician
→ Unsustainable project

LOCALIZATION TOOLKIT

The toolkit utilizes a series of questions under the 5 key dimensions to assess whether the target best practices or case studies can be successfully replicated.

THE KEY TO A SUCCESSFUL LOCALIZATION OF **URBAN BEST PRACTICES, PROJECTS, POLICIES, AND CASE STUDIES**

Nature of the Project

01

Stakeholders

02

Resources

03

Institutional Framework

04

Project Environment

05

Toolkit

LOCALIZATION TOOLKIT

LOCALIZATION TOOLKIT

In-use Diesel Vehicle Emissions Reduction Project
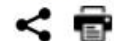
Region : Seoul | Korea, South
Goal : Goal 11 | Goal 13
Author : Seoul Metropolitan Government

+ view other contents

17.10.30
VIEW 501 | **LIKE** 0 | **SHARE** 0 | **COMMENT** 1

| INTRODUCTION | TEST | TOOLKIT RESULT | FIND OUT REGIONAL AVERAGE |

+ What is the Toolkit on Localization of Urban Practices?

This toolkit will help you assess if a best practice from another city can be localized and successfully implemented in your city.

The Localization Toolkit is a diagnostic tool to identify and assess the challenges in delivering best practices of members and clusters to the local setting, enhancing the possibility of policy and project implementation.

Click to begin the Toolkit
on Localization of Urban Practices

LOCALIZATION TOOLKIT

Nature of the project	Stakeholders	Resources	Institutional Framework	Project Environment

Nature of the project

A. Relevance

	Very unlikely	Unlikely	Likely	Very likely
Is the project/policy relevant to address the problems you are trying to solve in your city?	○	○	○	○

B. Clarity

Are the project objectives, goals, actions, and results clearly defined and comprised of concrete elements and steps to take?	○	○	○	○

C. Sustainability

Can the policy be implemented in a stable and sustainable way while remaining beneficial in the long term?	○	○	○	○

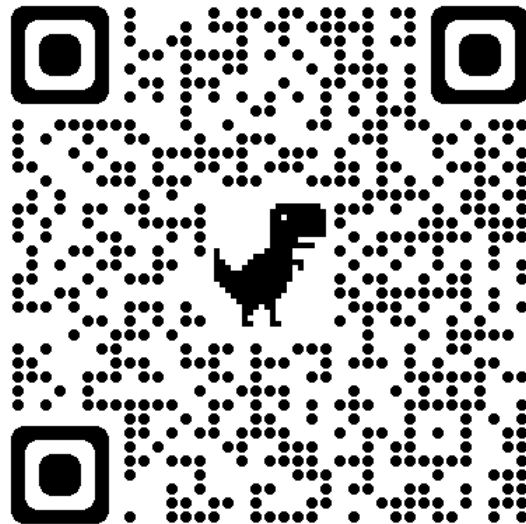**Save and proceed**

Localization Toolkit Exercise

Go to *menti.com* *and use the code*

2752 4747
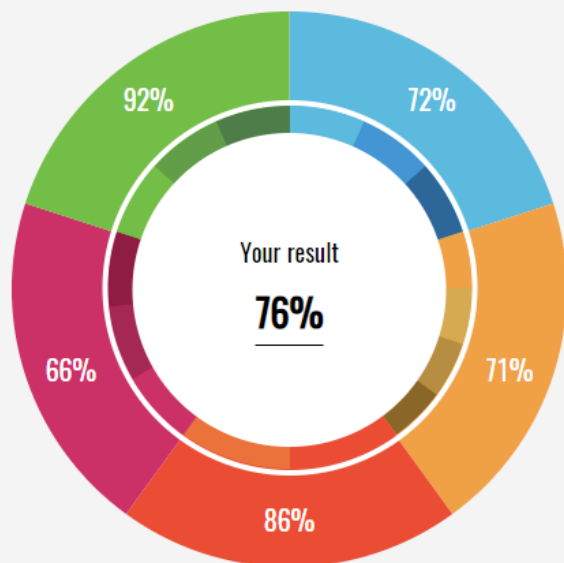
LOCALIZATION TOOLKIT

| Your result | 76% | Probability of Successful Localization & Implementation for Your City |

| Average result | 76% | Average Results (Out of 1 cities who completed the Toolkit for this case) |

In-use Diesel Vehicle Emissions Reduction Project

Region : Seoul | Korea, South
Goal : Goal 11 | Goal 13
Author : Seoul Metropolitan Government

+ view other contents

17.10.30
VIEW 501 | LIKE 0 | SHARE 0 | COMMENT 1

Your result
76%

Move your mouse over the information you want to check.

		My score / Average score
Nature of the project 92%	A. Relevance	75% / 75%
	B. Clarity	100% / 100%
	C. Sustainability	100% / 100%
Stakeholders 72%	A. Project officers of implementation agency	75% / 75%
	B. Leadership	75% / 75%
	C. Affected groups/target population	75% / 75%
Resources 71%	A. Human resources	75% / 75%
	B. Financial resources	75% / 75%
	C. Technology	75% / 75%
	D. Information	50% / 50%
Institutional Framework 86%	A. Legislation	100% / 100%
	B. Supports	75% / 75%
Project Environment 66%	A. Infrastructure	50% / 50%
	B. Social Environment	75% / 75%
	C. Political Environment	50% / 50%

| INTRODUCTION | TEST | TOOLKIT RESULT | FIND OUT REGIONAL AVERAGE |

Results analysis

Understand Your Result

Strengths

Nature of the project — My score / Average score

92%

A. Relevance	75% / 75%
B. Clarity	100% / 100%
C. Sustainability	100% / 100%

Weaknesses

Project environment — My score / Average score

66%

A. Infrastructure	50% / 50%
B. Social Environment	75% / 75%
C. Political Environment	50% / 50%

LOCALIZATION TOOLKIT
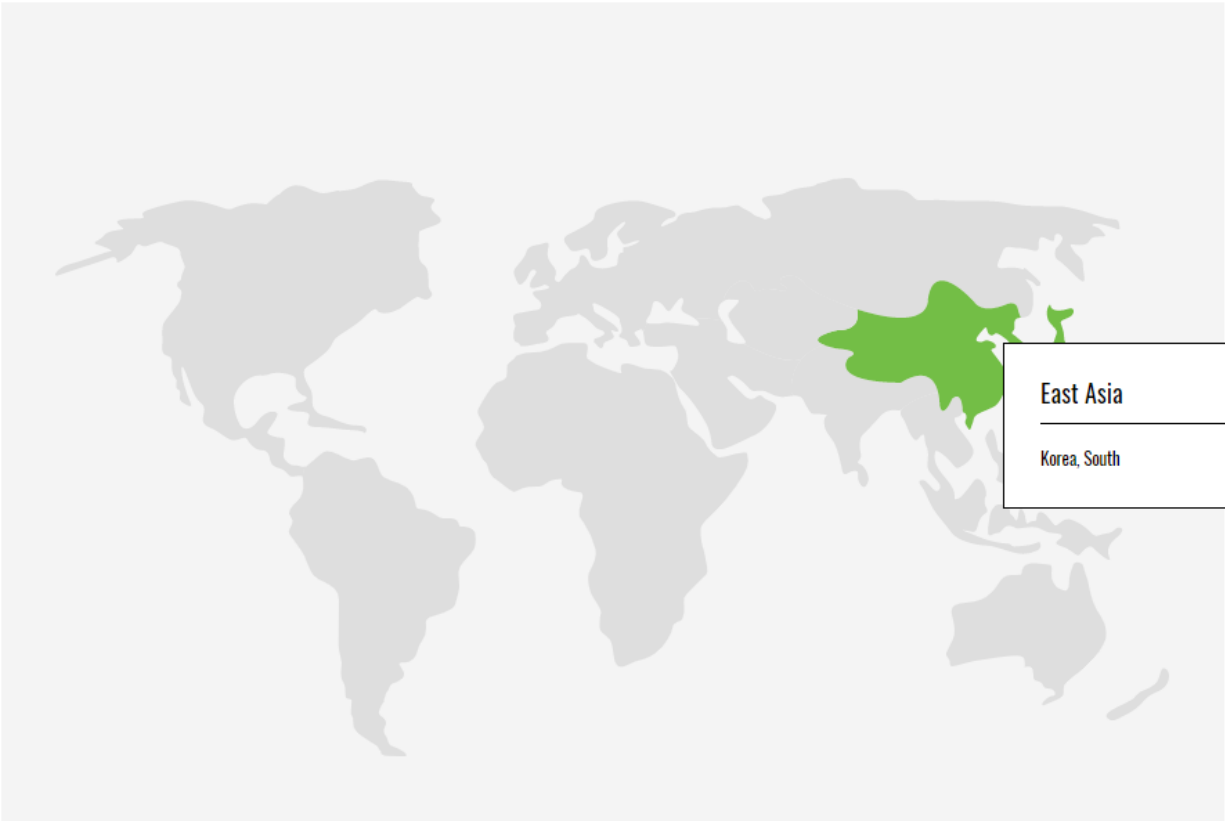
Your result   **76%**   Probability of Successful Localization & Implementation for Your City

Average result   **76%**   Average Results (Out of **1 cities** who completed the Toolkit for this case)

East Asia	**76%**
Korea, South	76%

URBAN SDG KNOWLEDGE PLATFORM

CITYNET
REGIONAL NETWORK OF LOCAL AUTHORITIES
FOR THE MANAGEMENT OF HUMAN SETTLEMENTS

SEOUL METROPOLITAN GOVERNMENT

UNITED NATIONS
ESCAP
Economic and Social Commission for Asia and the Pacific

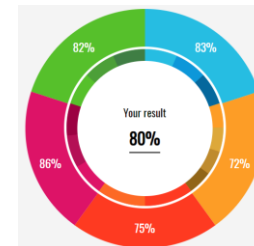## RECOMMENDED ROUTE

Beijing | China
Mingyuan Training and Conference Center

Your result
80%
82% 83% 72% 75% 86%

SDG Navigator

Choose a Recommended Case Study

Test Localization Toolkit

Capacity Building Program

We'll **connect you with urban planning experts**, **create a program for technical assistance**, and/or **design a customized online course for local authorities**.

Thank you for joining us today.

Website: www.citynet-ap.org / urbansdgplatform.org

Facebook: www.facebook.com/citynetsecretariat

Twitter: @CITYNET_ORG

Email: info@citynet-ap.org

sdgplatform@citynet-ap.org

CLIMATE LEADERSHIP PROGRAMME
14-15 APRIL 2022

REGISTER

CITYNET
THE REGIONAL NETWORK OF LOCAL AUTHORITIES
FOR THE MANAGEMENT OF HUMAN SETTLEMENTS