

NAP-GSP REGIONAL TRAINING WORKSHOP FOR ASIA Mainstreaming climate change adaptation into water resources Seoul, 13 - 16 September 2017

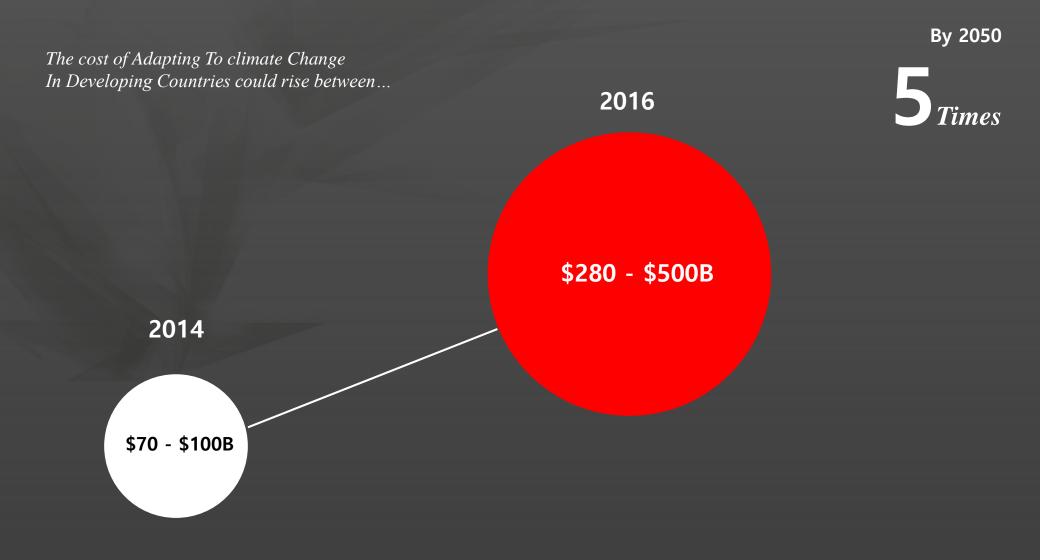
Approaches for integrating CCA into Water Resources – A step forward on climate change adaptation YunRa Choi, KPC





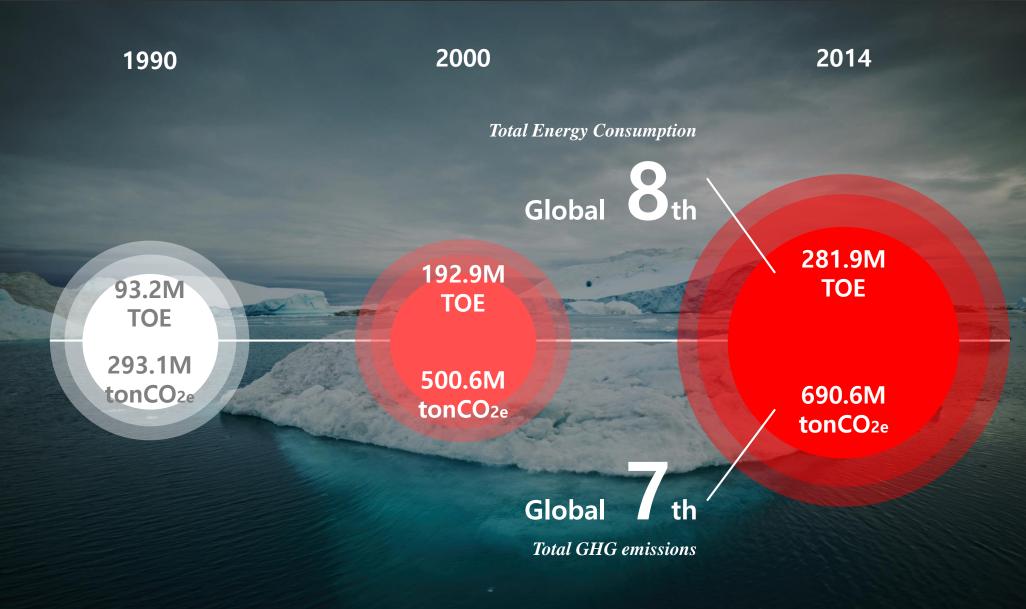


Climate Change Adaptation

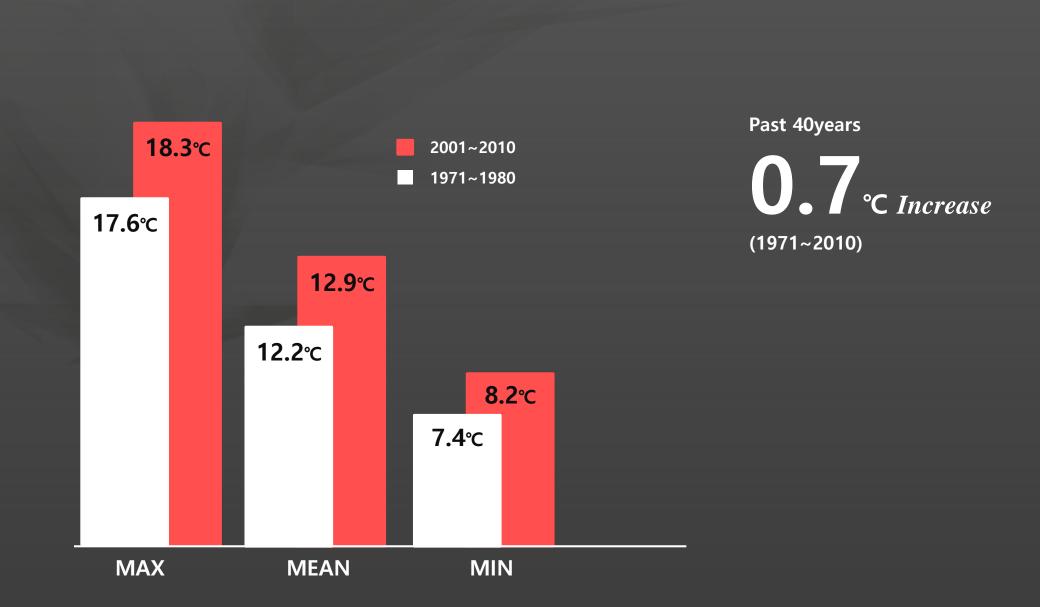


Source: UNEP's Adaptation Finance Gap Report

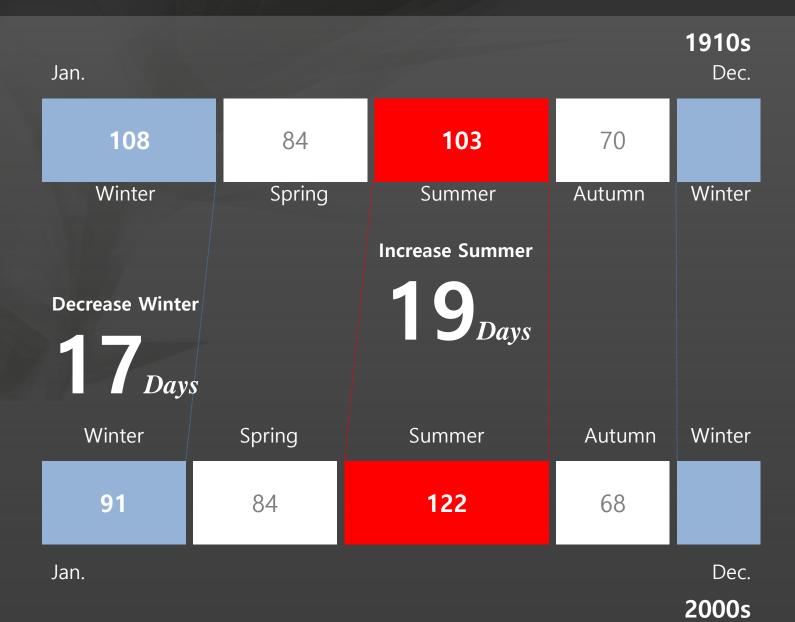
GHG emissions & Energy Consumption



Recent Temperature Trends



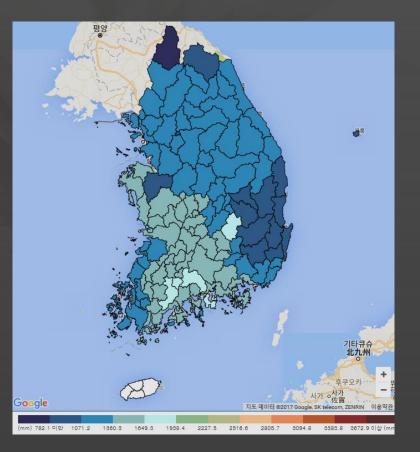
Length of Growing Season



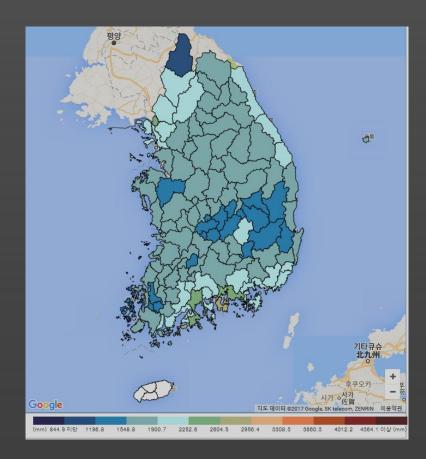
Source: Korea Meteorological Administration

Precipitation

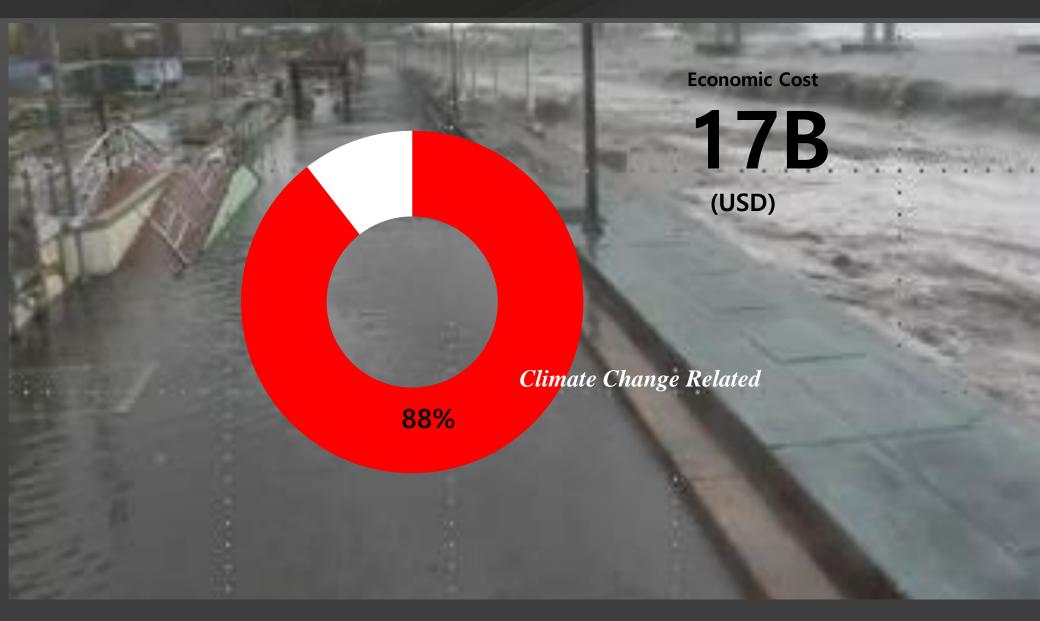




2100



Global Natural Disaster



Source: Natural Disaster Shocks and Macroeconomic Growth in Asia: Evidence for Typhoons and Drought, World Bank

Meteorological Disasters



Source: Natural Disaster Shocks and Macroeconomic Growth in Asia: Evidence for Typhoons and Drought, World Bank

Hurricane Irma

Economic Cost

300B (USD)

(2017.09.14)

Name : Hurricane Irma

Location : Florida, US

Damage : Residential, business, key crops etc.

Formed : August 30,2017

Dissipated : September 14, 2017

Highest Winds: 295km/h

Population: 20.61 million (2016)

Cheong-Ju Special Disaster Area

Economic Cost

51.5M (USD)

(2017.07.27)

Reason : Torrential Rain Location : Cheongju, Korea Damage : Residential, business etc. Support : National Fund Precipitation: 307.7mm Population : 831,635 (2015)

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Damage Type

Public organization(SOC), Building, Vessel, Farm, Property,

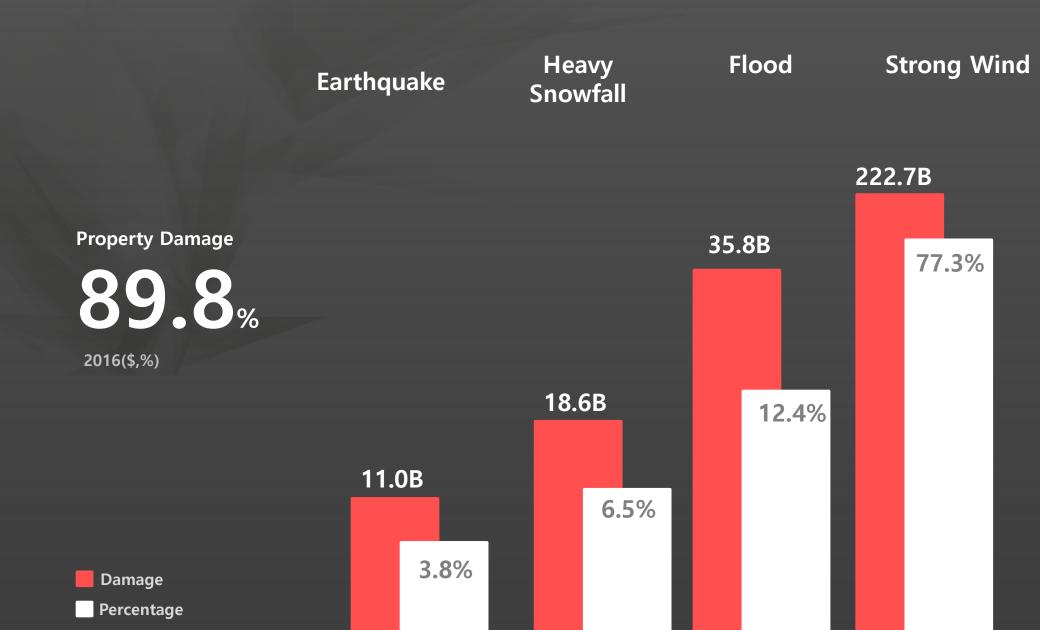
> Public Organization

> > 211.09B (USD)

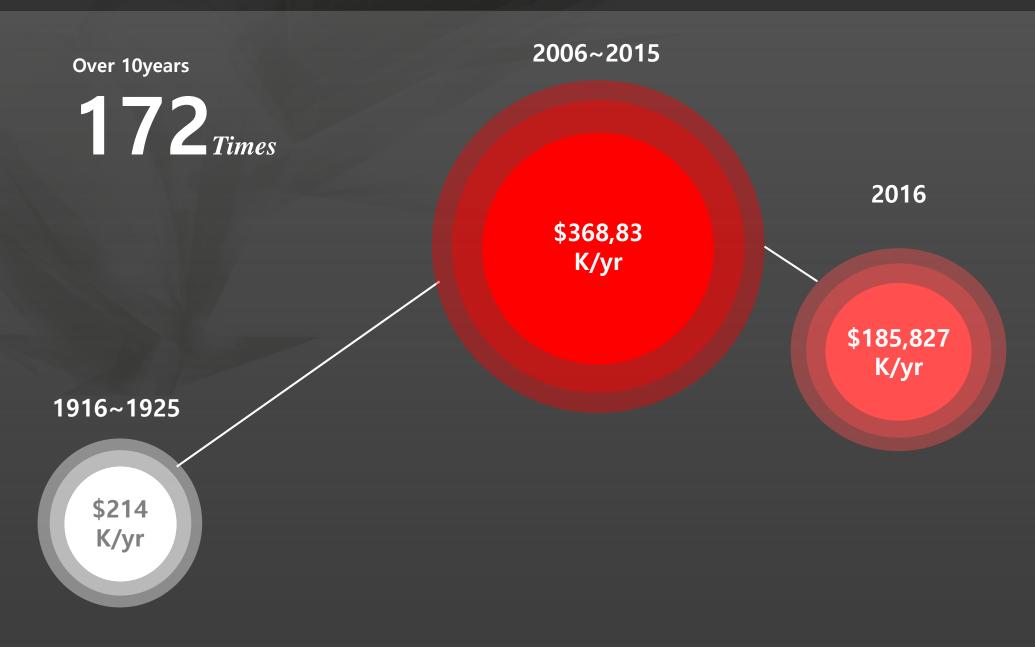
Disaster Economic Cost

73.2%

Disaster and Damage



Public Organization Damage(SOC)



Paris Agreement

Nations Unies Conférence sur les Changements Climatiques 2015

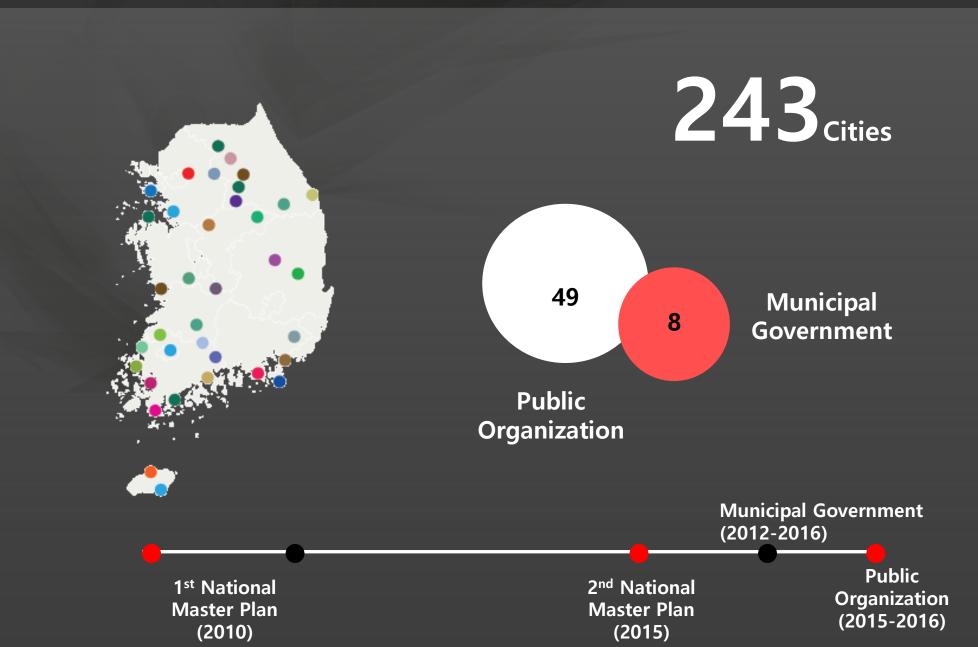
COP21/CMP11

Paris France

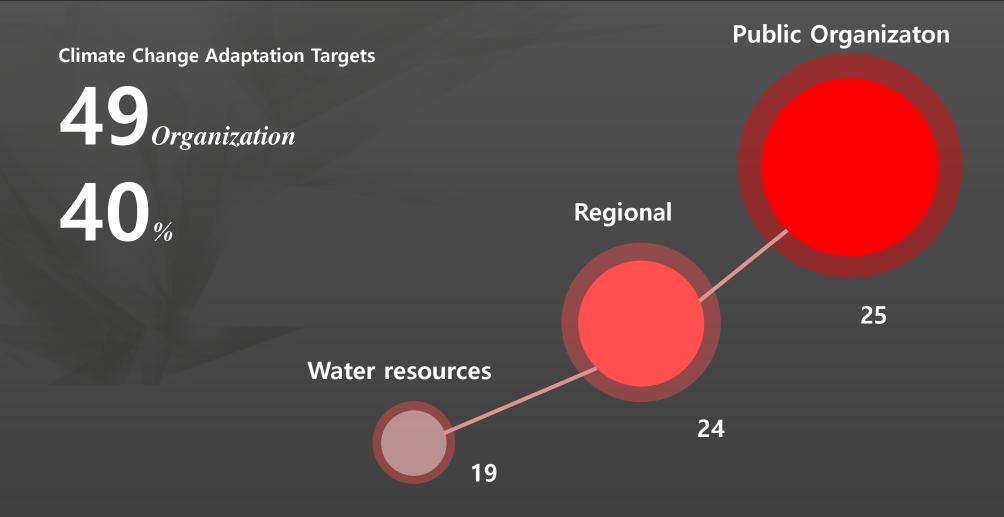
Adreen

"Long live the planet. Long live Humanity. Long live life itself."

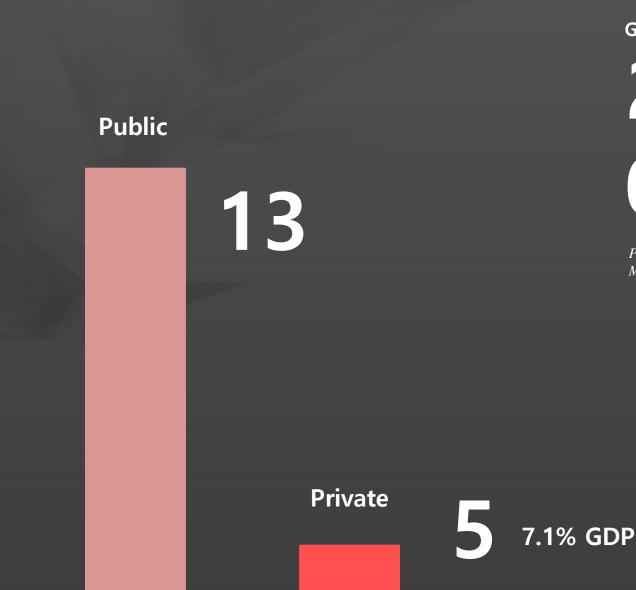
Climate Change Adaptation Scheme



Public Organization



Climate Change Adaptation Commitment



GPD Decrease 2%Global 0.4%Domestic

Public-MOE/ KACCC-Private MOU (Jun 27 2017)

The 1st Process

National Adaptation Plan

2016_{yr}



The 2nd process

The number of days a year

Heat Wave

33 °c

Heavy Rain

80mm

Cold Wave

-12_℃

Strong Wind



Heavy Snowfall

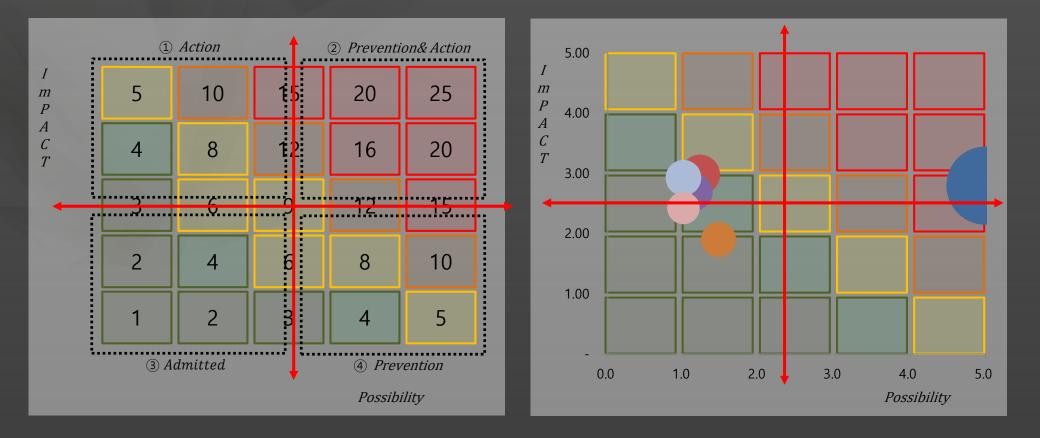


The 3rd Process



The 4nd process

Risk Assessment



The 5th Process



Jellyfish Makes Stop Running

Economic Damage

0.75м

(USD)

Restoration Costs



KOMIPO Power Plant



KOMIPO Power Plant



Adaptation Policy

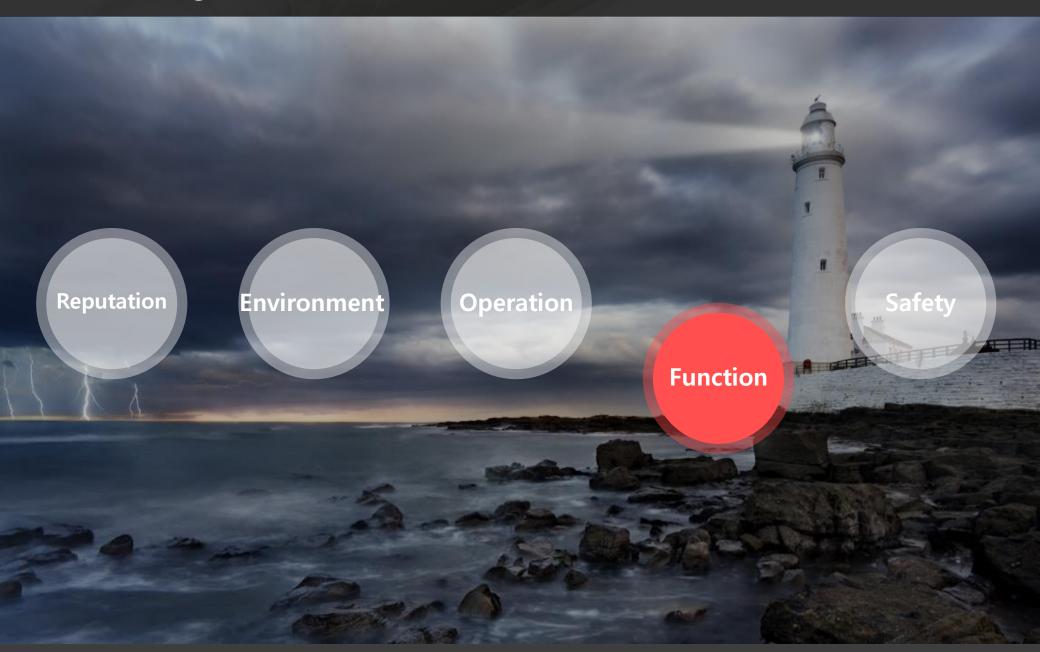




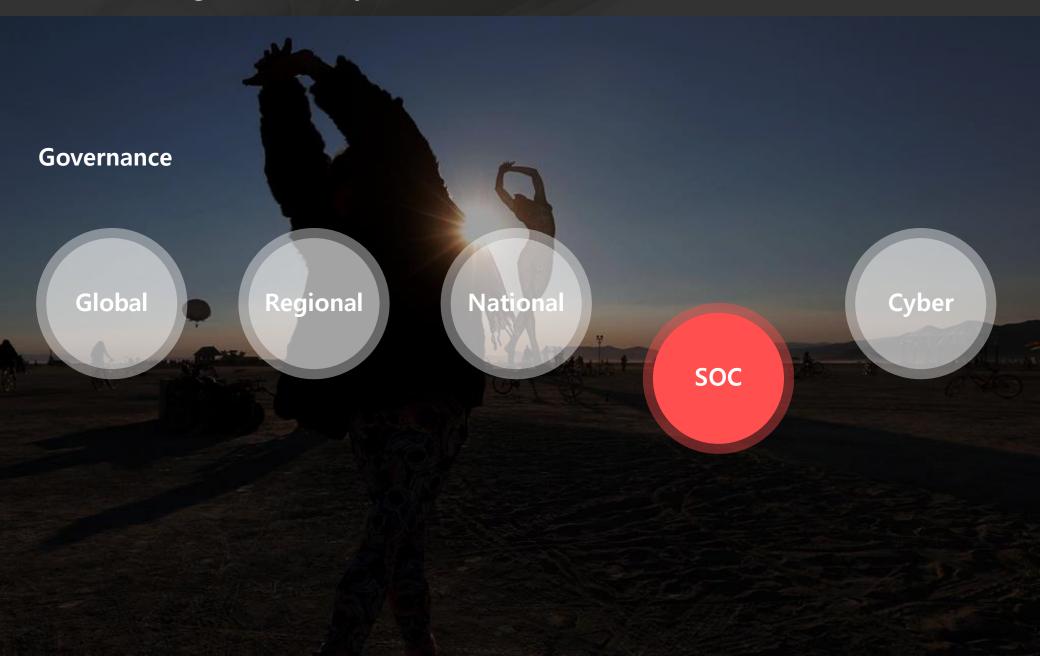




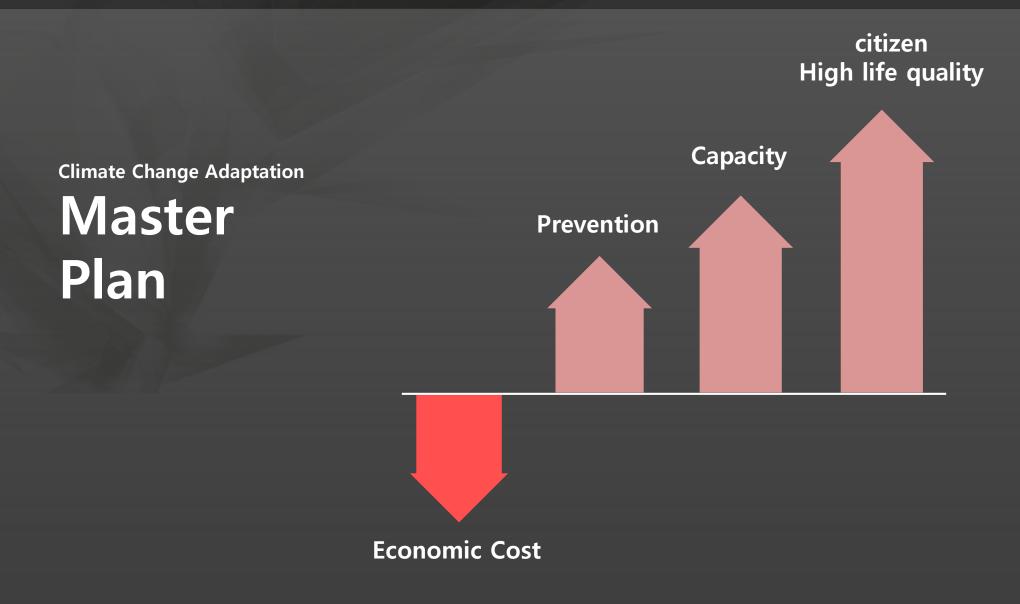
Climate Change Risk



Climate Change Leadership



Management System



Sustainable Development





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