



# COLORING THE CITY

## Local Initiatives

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## Challenges and Issues in the Urban Era

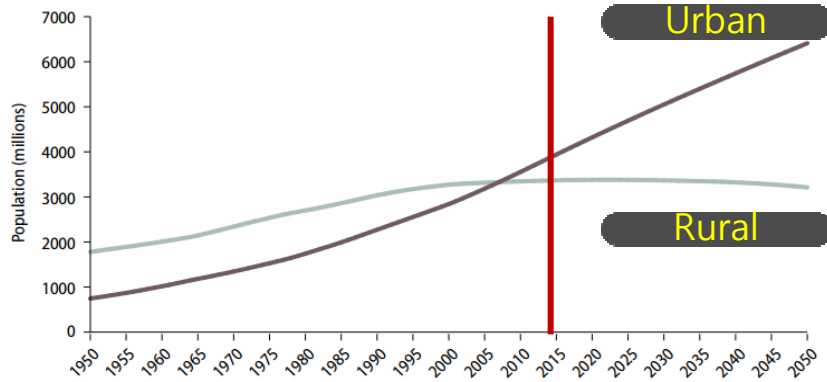


# Population Migration to Cities



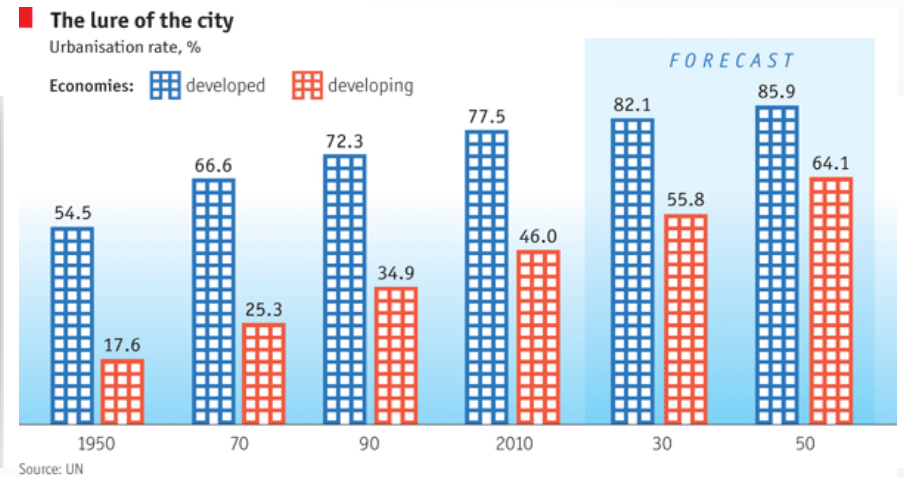
- Urbanization becomes an unstoppable trend since the early 20<sup>th</sup> century
- UN confirmed that Half of humanity – 3.5 billion people – lives in cities in 2008
- Developing countries are also urbanizing fast

Urban and rural population of the World (1950-2050)



(Source: UN DESA, 2014)

Urbanization Rate (%)



Source: UN

(source: Economist 2012)

# What are the problems?

- 828 million people live in slums today and the number keeps rising
- The world's cities occupy just 3 per cent of the Earth's land, but account for 60-80 per cent of energy consumption and 75 per cent of carbon emissions
- Rapid urbanization is exerting pressure on fresh water supplies, sewage, the living environment, and public health(Source: UN)





# UN Sustainable Development Goals



- Sustainable Development Goals (SDGs) contains 17 Goals
- Goal 11 – Sustainable Cities and Communities with 10 Targets



- By 2030, ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums
- By 2030, provide access to safe, affordable, accessible and sustainable transport systems
- By 2030, enhance inclusive and sustainable urbanization and capacity
- Strengthen efforts to protect and safeguard the world's cultural and natural heritage
- By 2030, significantly reduce the number of deaths and the number of people affected
- By 2030, reduce the adverse per capita environmental impact of cities
- By 2030, provide universal access to safe, inclusive and accessible, green and public spaces
- Support positive economic, social and environmental links between urban, peri-urban and rural areas
- By 2020, substantially increase the number of cities and human settlements adopting and implementing integrated policies and plans
- Support least developed countries

# Global Efforts on Sustainable Cities



# PEMSEA Efforts on Sustainable Cities and Local Governments



PNLG



## Dongying Declaration on Building a "Blue Economy" through Integrated Coastal Management

2011 PEMSEA Network of Local Governments  
for Sustainable Coastal Development Forum

Dongying City, People's Republic of China  
26 July

1. We, the representatives of local governments and stakeholders of the countries of the Seas of East Asia region, have gathered this day in Dongying on the occasion of the 10<sup>th</sup> PNLG Forum, mindful of our commitments and responsibilities in promoting sustainable coastal development through integrated coastal management (ICM).
2. We reaffirm our strong commitment as a Non-Country Partner of PEMSEA in implementing the Sustainable Development Strategy for the Seas of East Asia (SDS-SEA), which recognizes ICM as an effective management framework and a systematic approach to achieve sustainable development of the coastal and marine areas.
3. We appreciate the recognition of the crucial role of the PNLG members in achieving the target set by PEMSEA partners to cover at least 20 percent of the East Asian Seas region's coastline with ICM programs by 2015.
4. We therefore remain steadfast in our commitment to share the knowledge and experience as advocates of ICM particularly in developing, demonstrating, maintaining and continually improving the application of ICM across the region to contribute towards achieving the 20 percent target.
5. We celebrate the continuing expansion of the PNLG as more local governments and stakeholders acknowledge the value of the Network as an effective platform for information exchange and in promoting our advocacy on ICM.
6. Inspired by the increasing interest on the new concept of Blue Economy, we reaffirm our commitment to be responsive to the requirements of building a Blue Economy for the region by taking an active role in ICM implementation and scaling up.
7. We agree on and endeavor to take the following actions to achieve the key targets in the PNLG Strategic Action Plan for 2011-2015, as agreed in the 2010 PNLG Forum in Chonburi, in support of SDS-SEA implementation and in building a Blue Economy:
  - a. **Mainstream ICM strategies, objectives and targets** into the local government development plans for sustainable marine and coastal development and for building a Blue Economy.
  - b. **Implement the PEMSEA ICM Code and Recognition System** across 50 percent of the PNLG local government membership by 2015 as a certification of local government achievement and success in sustainable coastal development through ICM implementation.



## SDS-SEA Sustainable Development Strategy for the Seas of East Asia 2015



Ansan City is joining the PNLG in 2015  
and will host the PNLG Forum 2016





## Yellow Sea Coastal City, Ansan

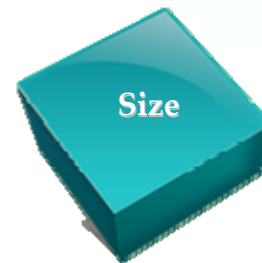




# Overview



- 50 min. from the capital
- Three major expressway route
- 40 min. from Incheon int'l airport
- Top 1<sup>st</sup> urban green space ratio



- 175.8km<sup>2</sup> (including reclamation area)
- Coastal line : over 100 km



- County(2), Town(25)
- inhabited island(2) uninhabited island(10)



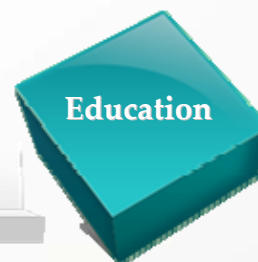
- Financial Budget : U\$ 1.2 billion
- Gross Local Production : U\$18 billion
- GDP per capita : U\$25,444



- 755,701
- 282,354 households

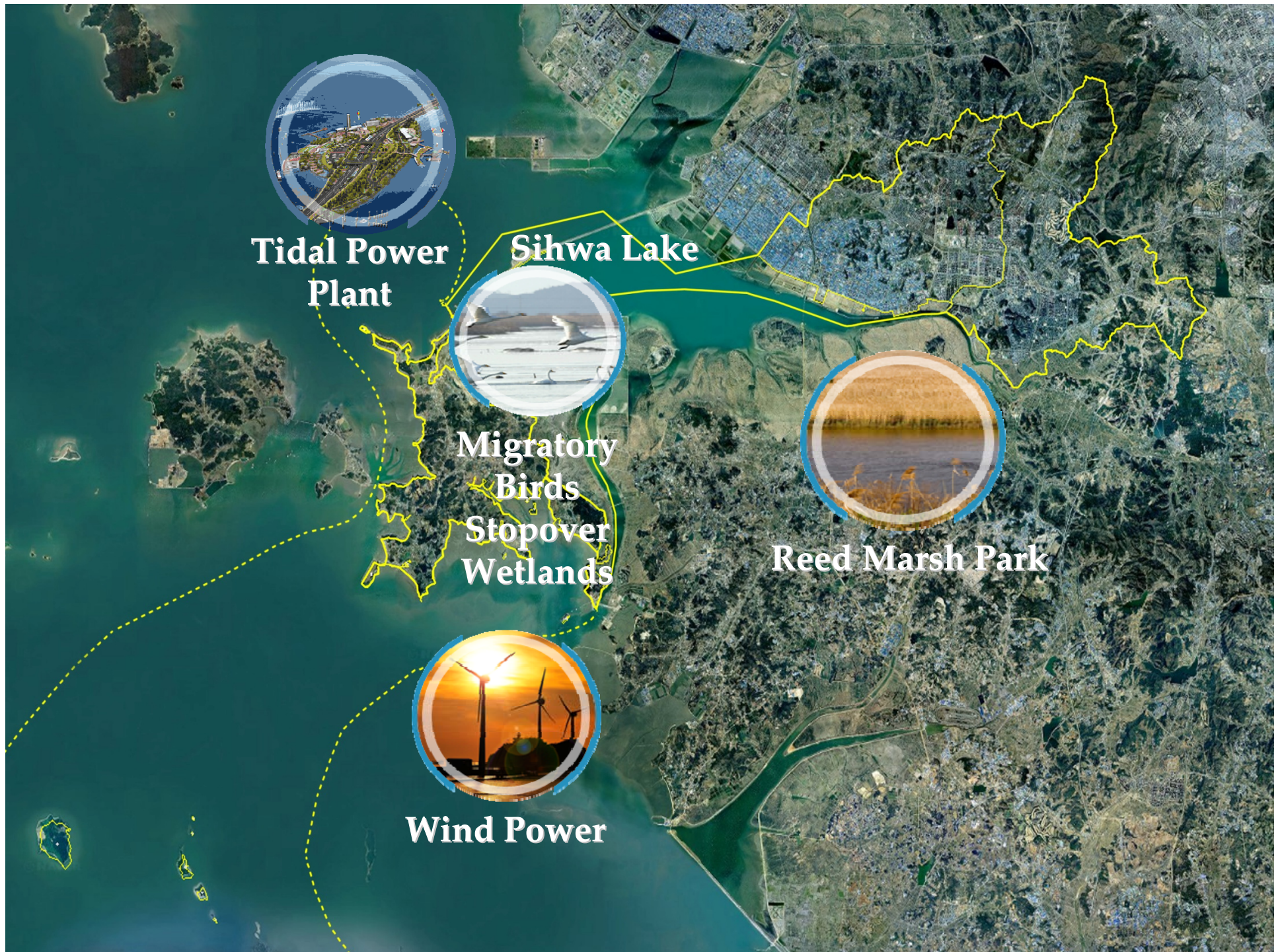


- 10,470 manufacturers
- 194,497 employees



- Univ. 4, High school 24
- Middle school 29, Elementary 54
- Kindergarten 98 : Total 209





**Tidal Power  
Plant**

**Sihwa Lake**

**Migratory  
Birds  
Stopover  
Wetlands**

**Reed Marsh Park**

**Wind Power**



# Consequences due to coastal development

- Deterioration of water quality in Sihwa Lake
- Air and water pollution due to sprawling development of national industrial complex
- Sharp drop of marine fishery products



# Efforts for sustainable city by local community



- Activities of environmental organizations
- Understanding and awareness program by local community
- Coastline cleanup
  - Coastal conservation and management through ICM

서울매일 2015년 04월 23일 목요일 006면 경기

## 대부도 해안가 정화활동

안산, 쓰레기 수거활동·승마체험 병행 실시



및 지부회원 90여 명과 안산시관광협의회, 안산시승마협회 관계자 등이 참여해 대부도 구룡도에서 해안가 쓰레기 수거 활동을 실시했다.

봄철 행락철을 맞아 실시한 이날 행사는 오전 10시부터 해양환경의 중요성에 대한 교육과 함께 해안가 쓰레기 수거활동을 실시한 후 안산시승마협회에서 준비한 승마체험과 대부도의 관광명소로 각광받고 있는 대부 해솔길(1코스) 걷기 체험행사를 병행 실시했다.

그동안 (사)바다살리기국민운동본부 안산시지부는 수도권 해양관광명소로 부각된 대부도에 많은 관광객이 방문함에 따라 지난 2013년부터 행락철 기간 중 매년 약 1회 이상 자체 회원 및 각계각층의 시민들과 함께 대부도 해안가 쓰레기 수거 활동을 실시하고 있다.

김종한 기자 / 대부해양관광본부(본부장 이태식)와 (사)바다살리기국민운동본부 안산시지부(지부장 오순녀)는 지난 18일 해양수업과 직결





## Efforts for Sustainable City



# Model Case (Sihwa Lake)

## Polluted Sihwa Lake

- Typical site showing water pollution and destruction of coastal wetland
  - Average COD 17.4ppm(1997)
- Social and environmental concerns



## Rehabilitation Project

- Integrated Coastal Management Plan
  - U\$ 175 million
- Designated as a special management area in 2001
  - Set pollution caps



## Repository of Ecosystem

- Water quality improved
  - 2.6ppm(2014)
- Ecosystem rehabilitation
  - Ecological group in wetland
    - 21species(2004) ➤ 232 species(2014)
  - Site for 250,000 migratory birds





# Presentation on Sustainable City Development



Jong Geel Je  
Ansan City Mayor

- Biodiversity Summit For Cities & Subnational Governments 2014 (ICLEI)
- Gyeonggi Province Local Action for Biodiversity (LAB)- International Workshop on Biodiversity, Ansan 2014
- URBIO(URban BIOdiversity and Design) 2014, Cities and Water







# Documentation on Sustainable City Development



- Sustainable city development implementation plan(2015)
- Ansan Sustainability Report published (Global Report Initiative)
  - GRI G4 Sustainability Guidelines, ISO 26000
- Sustainability Forum hold



## 안산 '지속가능한 도시 구축' 머리 맞대다

**시행서 '지속가능발전 목표' 계획** 이행관계자 집단별로 분류  
정단 대표 전문가 참여  
안산 비전 이행목표 선정

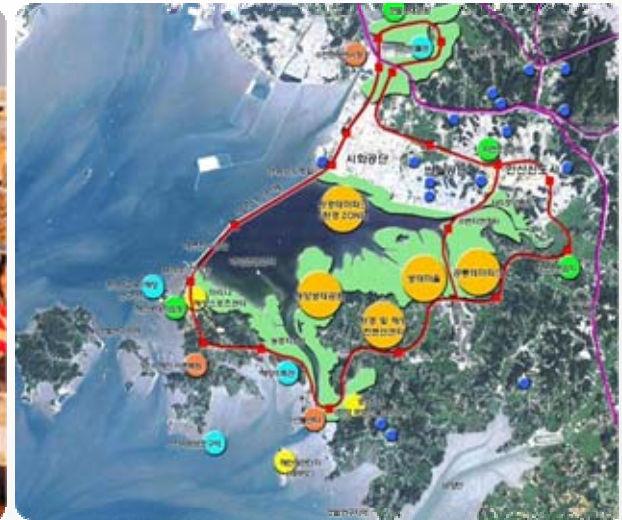
안산시는 지난 11월 17일 시청 상황실에서 안산시 지속가능발전 비전 및 이행목표 선정을 위한 포럼을 개최했다. 이번 포럼에서는 안산시 지속가능발전 비전 및 이행목표 선정에 관한 의견을 주고, 방향을 밝히는 데에 중점을 두었다. 안산시 지속가능발전 비전 및 이행목표 선정에 관한 의견을 주고, 방향을 밝히는 데에 중점을 두었다. 안산시 지속가능발전 비전 및 이행목표 선정에 관한 의견을 주고, 방향을 밝히는 데에 중점을 두었다.



## Efforts by Civil Society

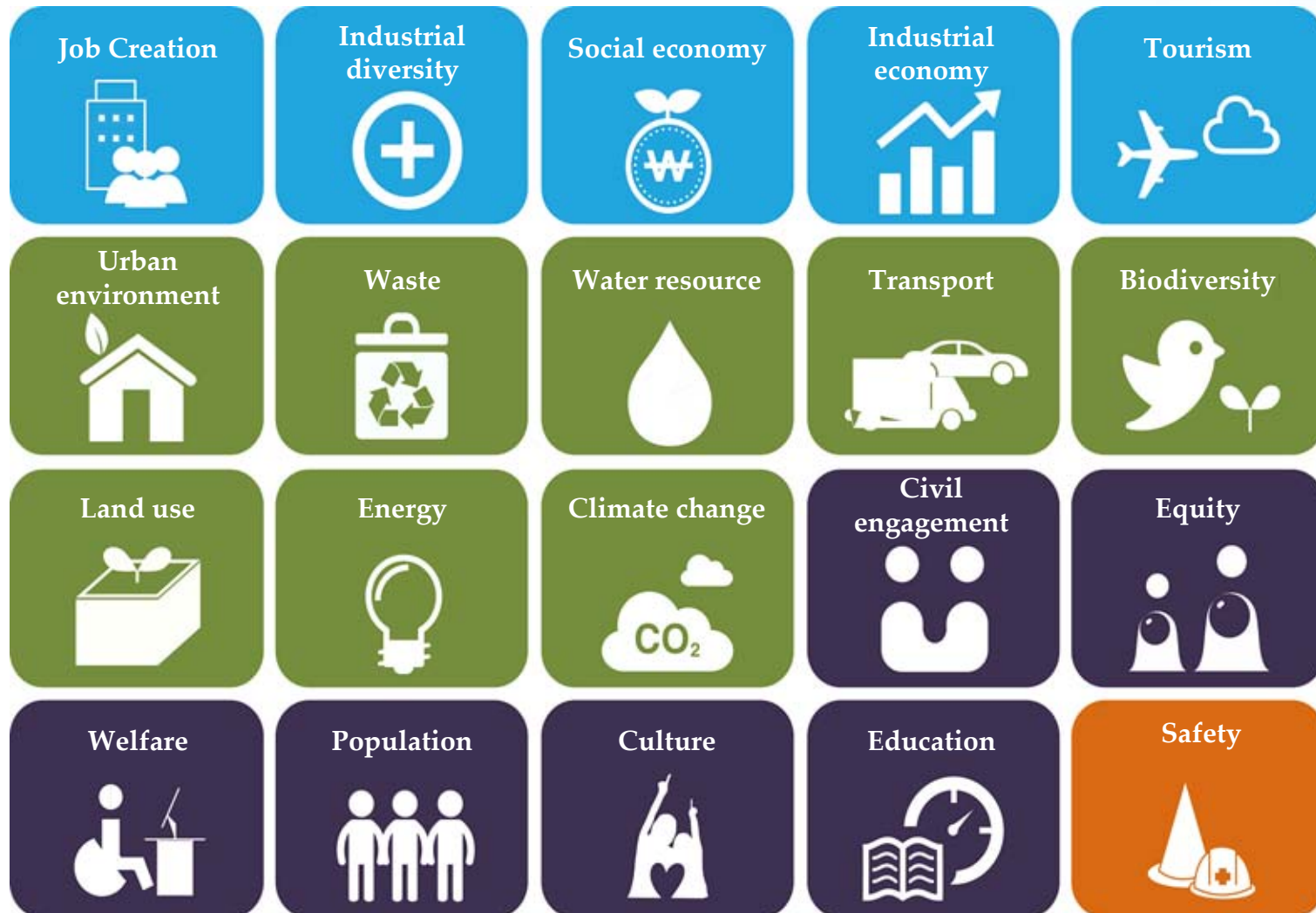


- Sihwa lake Congress
  - A different stakeholders get together to share ideas, knowledge and to understand the current issues relating to conservation of Sihwa lake
- Education and Empowerment
  - Youth eco camp, surveillance program on Sihwa lake, coastline cleanup
- 1999 Civil Agenda
  - Through civil solidarity movement with three cities neighboring Sihwa lake, proposals to conserve Sihwa lake suggested in government policy making process





# Ansan's Sustainable Development Goals(SDGs) 20



# Ansan Daebudo, Sustainable Development Complex



- Designated as only one ecotourism site in Gyeonggi Province by Ministry of Environment: Dec. 22, 2014)





# Valuing through improving Ecosystem Services and ICM



## Green Economy

### Forest City



Adaptation to Climate Change

Providing Clean Air and Water

Public Health & Healing

Improving Biodiversity

Cultural Services/Education

Tourism

## Blue Economy

Marina /  
Marine Recreation  
Facilities

+

Ansan Daebudo /  
Sihwa Lake ICM

Coastal Resources  
Conservation Area

Coastal Renewable  
Energy Site



IV

## Urban Value Creation



## U\$ 300 million investment : **U\$ 39 billion value**

- Forest City Setting: U\$ 90 million ,  
New & Renewable Energy Generation: U\$ 170 million  
ICM Implementation: U\$ 40 million







# Thank You!

