

Ecopolis Ulsan

Past, Present and Future

Chang Man-Seok,
Vice For Ulsan Metropolitan City

Ecopolis Ulsan

Past, Present and Future

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About Ulsan



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About Ulsan



Population



1.2 Million

Area



1,060km²

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Korea's largest cluster of major industries



Automobile Cluster

Shipbuilding Cluster

Chemistry/Energy Cluster

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The World's Four Largest Liquid Logistics Harbor Cities

- ▶ A berthing capacity of 107 berths
- ▶ Logistics for 200 million tons
- ▶ Liquid cargo of 80%



Ulsan port

Mipo port

Ulsan new port

Onsan port

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Magnificent natural environment



Bangudae Petroglyphs



Cheonjeong-ri
Square Stone



Yeongnam Alps



Yeongnam Alps

Magnificent natural environment



Taehwagang river



Taehwagang river
Bamboo Grove



Daewangam Park



Whales swimming
in the East sea

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Ulsan's Industrialization



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The beginning of Industrialization



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Industrialization and environmental issue

Population

1.2 million



85,000

1962

2012

Air pollution

SO₂ 0.057ppm/1981

Water pollution

BOD 11.7ppm/1991

Bad smell
From industrial complexes

51 cases of bad smell
Complaints/1996

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Overcoming environmental problems

2004

Declaration of Ecopolis Ulsan

2005

Establishment of a Master plan to revive Taehwagang river

2010

Establishment of Green Growth action plan

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III

Ecopolis Ulsan Project



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Declaration of "Ecopolis Ulsan"

Ulsan, a Green city with clean skies and river

"Declaration of Ecopolis Ulsan" Implementing Green management

- Pursuing 10 key projects by sector
- 110 sub-projects



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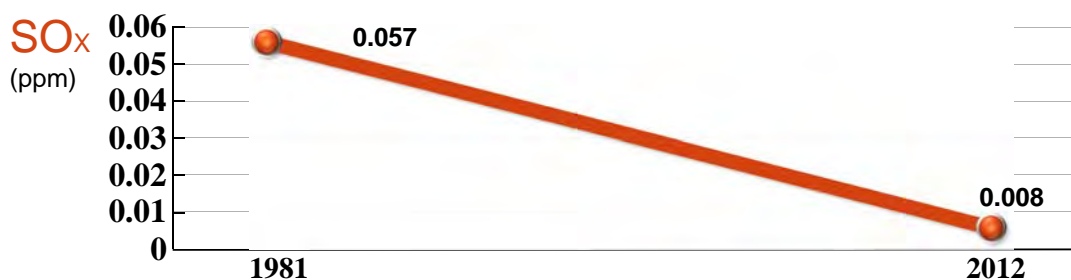
Improving air quality to the level of global advanced cities'

Air pollution reduction obligation

- Application of strict emission permission standards
- Installation of optimal pollution control facilities & TMS

Self-control Environment Management Convention (Company↔City)

- Participated by 23 big companies
- Improvement of pollution control facilities and reduction of pollutants (SO₂, NO₂, PM10, VOC)



Clear & clean water quality management

Establishing a sewage treatment system



- Newly establishing and upgrading 9 sewage treatment facilities
- Repairing 4,000km of sewage duct

Water quality improvement project



- Dredging 1.5 million tons of sedimentary slime



Restored ecology



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Response to the climate change and reutilization of domestic wastes

Ulsan for you

Realization of low-carbon green growth through green house gas reduction

- Raising the nation's only 'Public Carbon Fund'
- 'Greenstart Movement' participated by citizens

Project for biogas production from organic wastes

- Onsan biogas project
- Yongyeon biogas project

Project for energy recovery from domestic wastes

- Supplying steam from waste heat of Sungam incineration plant
- Landfill Gas reutilization project

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Reduction of pollutant emissions through sophisticating resource recycling process

Establishing resource recycling eco-industrial parks

Goals

- Establishing environment-friendly industrial parks by recycling wastes and using byproducts
- Strengthening competitiveness by developing green technologies to reuse resource and energy

Results

- Economic effects : USD 100 million / year
- Environmental effect : 470,000 tons of CO₂ reduction / year



Korea Zinc

Steam
CO₂



Hankuk Paper

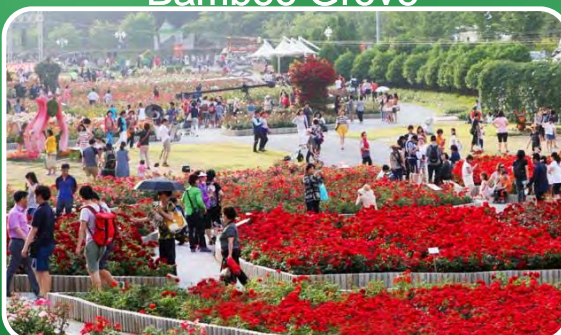
Green city with green mountains and streets



Taehwagang river
Bamboo Grove



Spring flower festival

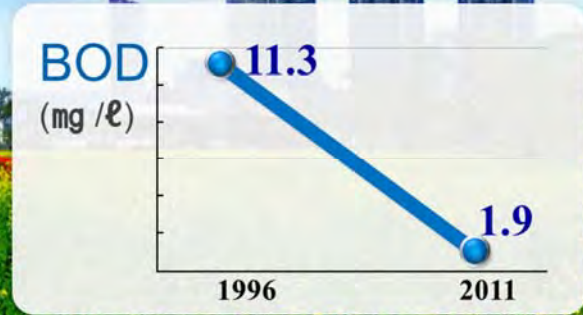
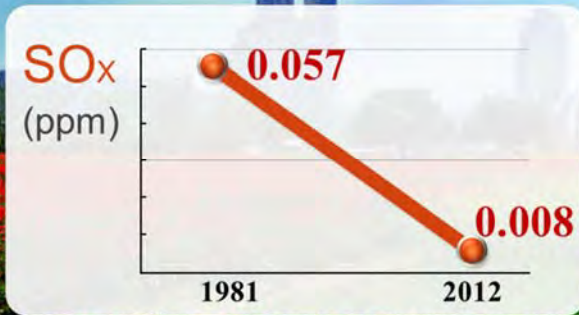


Rose festival



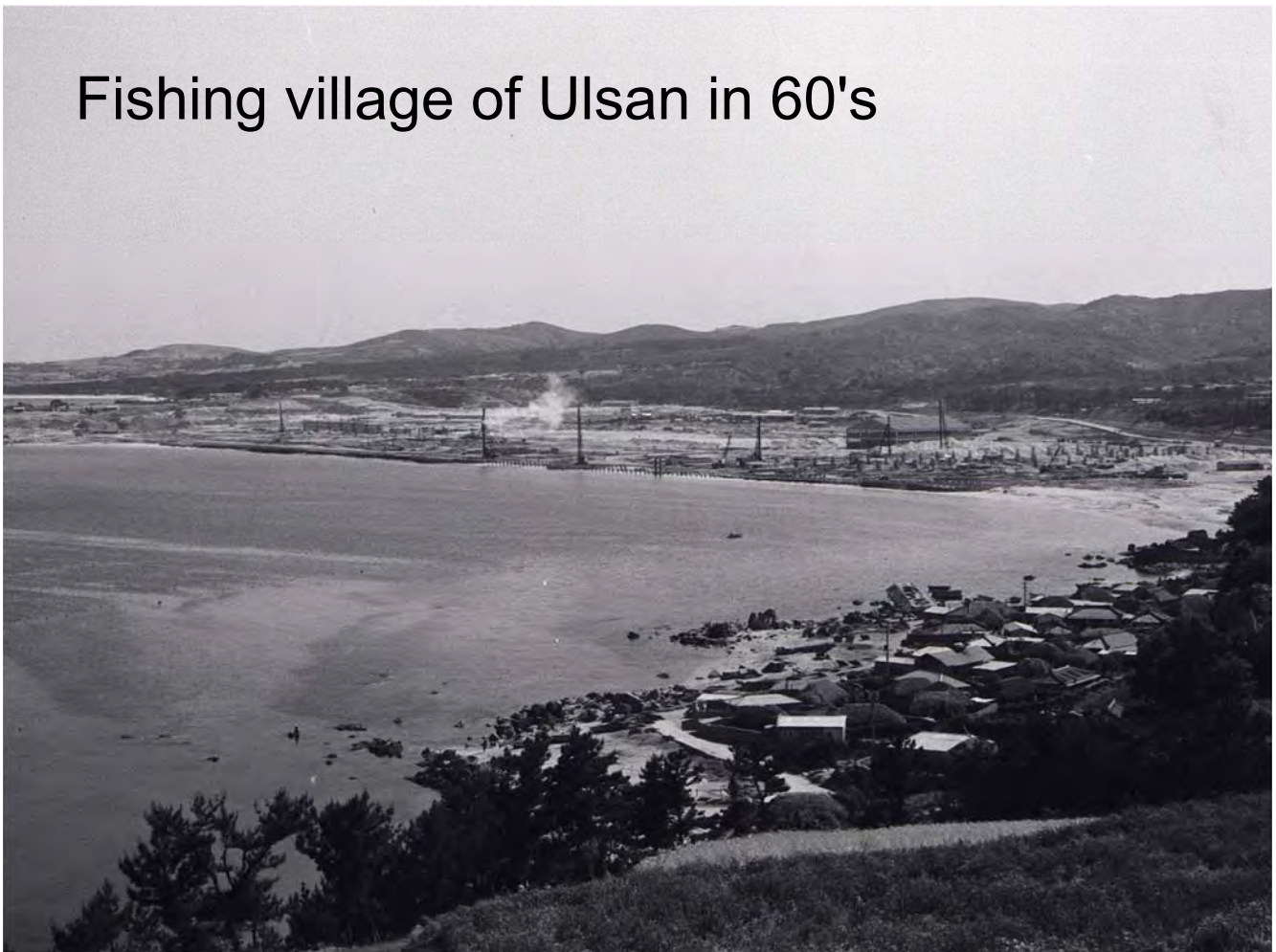
Bike roads

Results of Ecopolis Ulsan project



Project cost : USD 1.5 billion

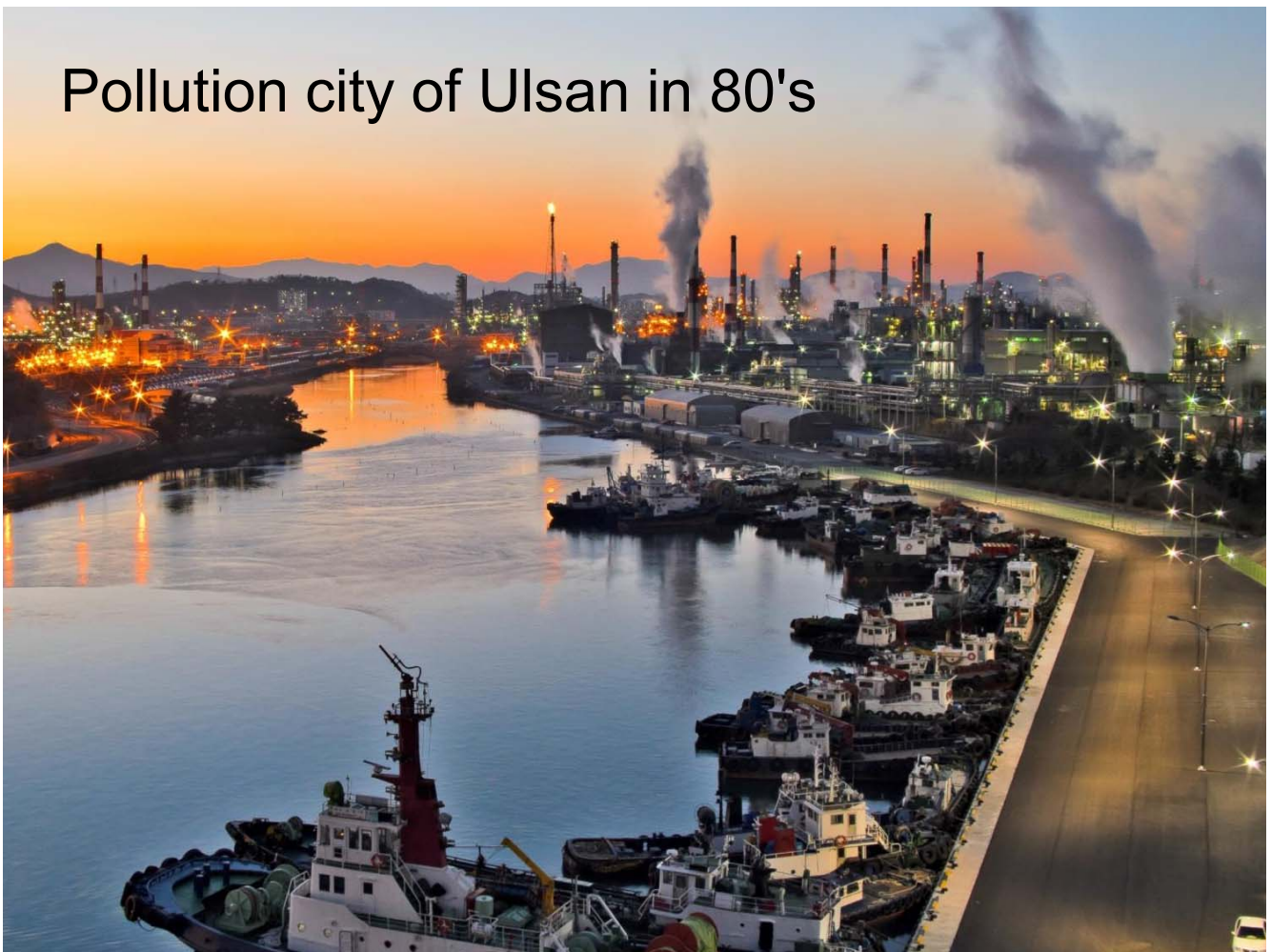
Fishing village of Ulsan in 60's



Ulsan, growing into an industrial city



Pollution city of Ulsan in 80's



Ulsan today, an eco-industrial city



Ulsan's Industry & Economy

Ulsan for you

Industrial
production



**USD
208 billion**

Port cargo
volume



**193.75
million ton**

Exports



**USD
101.5billion**

Per capita
GRDP



**USD
56,430**

IV

Vision of Ulsan



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Vision of Ulsan

Global environment-friendly
eco-industrial city



Korea's
Industrial
capital city



Environment-
Friendly
eco-industrial city



City of
Cultural
prestige

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Thank You

