

2022 Environmental Technology & Carbon Neutrality Industry Confex 2022

**Korea's only innovative growth engine
for the environmental industry!**

ICT Convergence Environmental Technology Commercialization Mecca

Incheon Innovation Cluster for Environment

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Necessity and Justification

Necessity

✓ National level

- ⇒ Promotion of innovation in science and the creation of new industries by regional bases
- ⇒ Environmental technology to foster new green industries

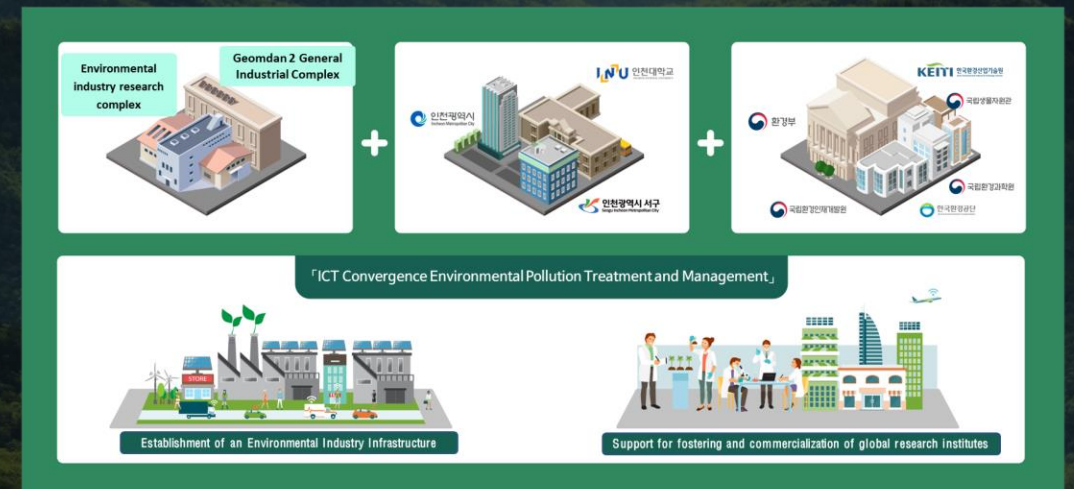
✓ Regional level

- ⇒ Post-COVID-19 era by fostering new green industries
Revitalization of the local economy

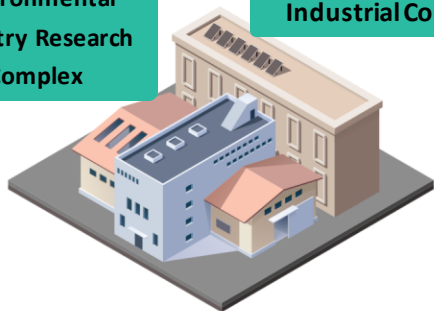


Justification

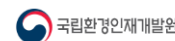
- ✓ It is the best place for special zones with the largest R&BD infrastructure in Korea, Seogu Incheon
- ✓ Implementation of a differentiated innovation cluster model in the environmental industry with central government participation



Environmental
Industry Research
Complex



Geomdan 2 General
Industrial Complex



「ICT Convergence Environmental Pollution Treatment and Management



Establishment of an Environmental Industry Infrastructure



Support for fostering and commercialization of global research institutes

Location

The production base



Geomdan 2 General Industrial Complex

Comprehensive Environmental Research Complex

Environmental industry research complex

Environmental Convergence Industry Research Center

R&D base district



INU Jemulpo Campus

Technology Commercialization District



Specialization in Environmental Industry



The only participation of central government departments



Participation in Incheon National University, a leading start-up in Korea

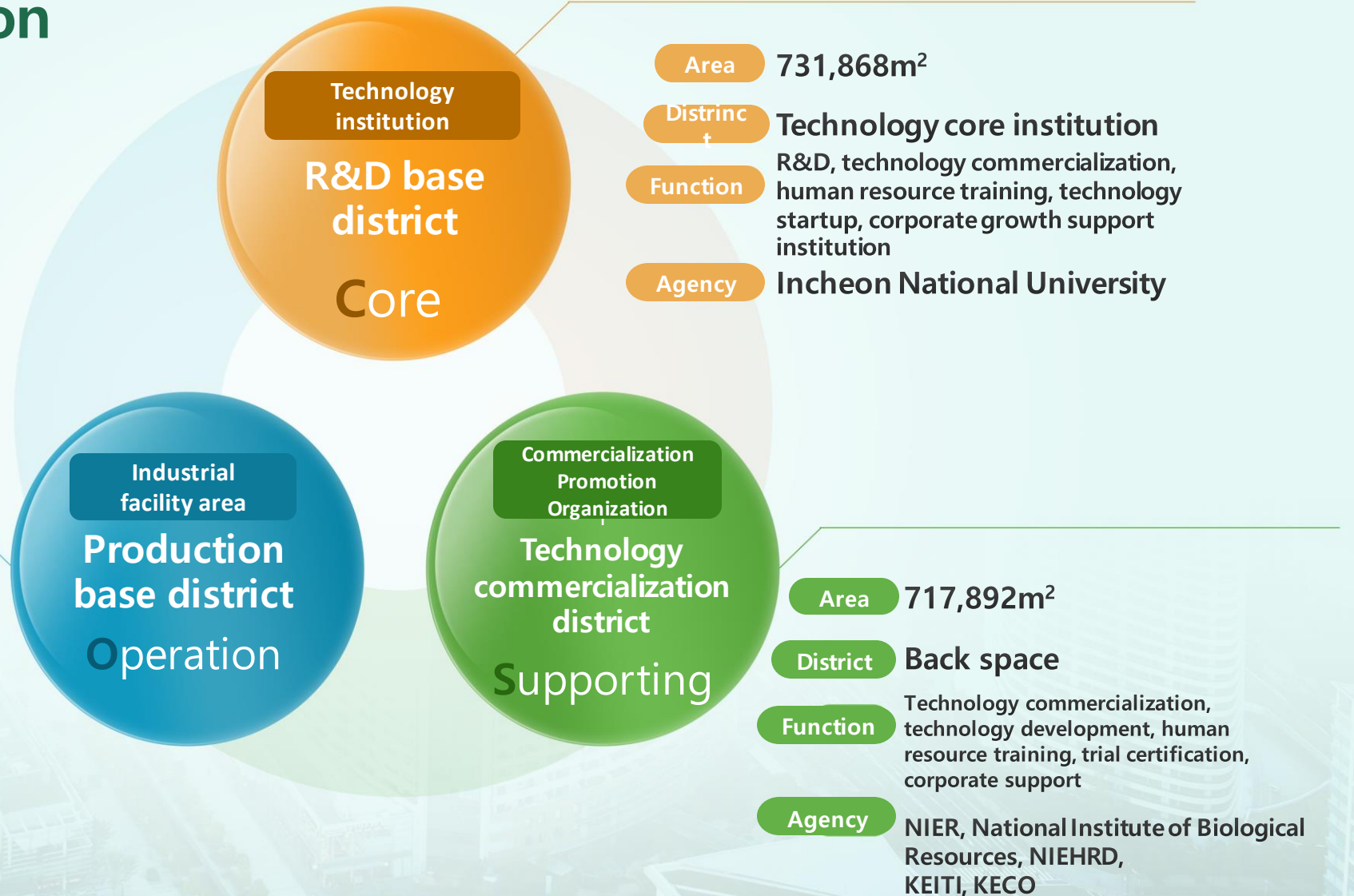


Korea's Largest Environmental Industry Infrastructure Area

Development direction

COS Strategy

- Core area
- Operation area
- Supporting area



Specialized Fields

ICT-based technical base for treating and managing environmental pollution and contributing

Measurement and Treatment of Environmental Pollution Monitoring

- Post-treatment and pre-prevention technology for possible environmental pollution by environmental agents



Major Tech.

- ✓ Advanced water purification treatment
- ✓ Ship air pollution
- ✓ Fine dust control technology

Waste Recycling and Alternative Material Development

- Waste recycling and energy conversion for carbon neutrality and energy reduction & Development of eco-friendly substitute materials using biomass



Major Tech.

- ✓ Recycling of waste plastic
- ✓ Anaerobic digestion of bioplastic and food waste

AI-based Environmental Management

- Environmental management through prediction and decision-making applying environmental technology, 4th industrial revolution, digital new dill-based AI and IoT



Major Tech.

- ✓ Measurement and analysis of marine environment
- ✓ Environmental information monitoring technology
- ✓ Recyclable resource recovery robots

