Gwangju's New Leap Forward

- Gwangju Institute of Green-Car Advancement and Gwangju Automotive Industry -

14. March. 2018



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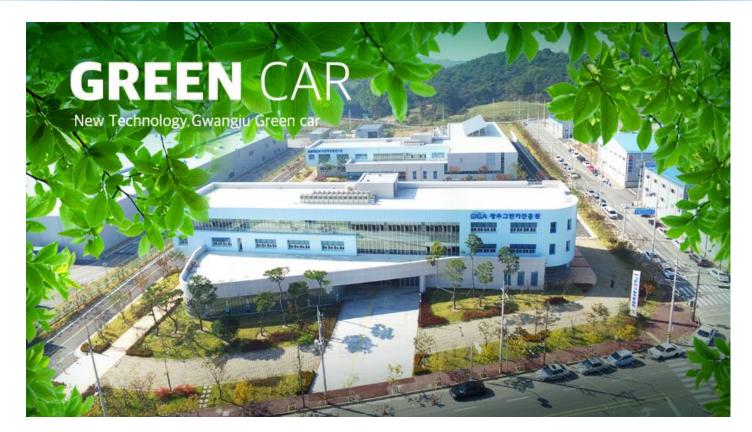
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1. Gwangju Institute of Green-car Advancement

1. Gwangju Institute of Green-Car Advancement

Purpose of Establishment

- Enhancement of green car component industry in the area, promotion of investment and establishment of industry support system
- Establishment of the global center city for the eco-friendly automotive technology by assisting policy making for fostering Gwangju automotive component industry and comprehensive support



1. Gwangju Institute of Green-Car Advancement

List of Projects

Eco-friendly automotive component establishment project

Establishment of R&D infrastructure for clean diesel vehicle component industry project

- Duration : 2011 ~ 2016 (5 years)
- Equipment : 44 items for design and system evaluation

Support project for reinforcing automotive component manufacturing capability

- Duration: 2015 ~ 2019 (5 years) / Total Budget: 2.1 million US\$
- Contents : Overall support of local manufacturing company such as test and qualification, prototype making, education, training, etc.

Ultra-light high-stiffness automotive chassis component development project

- Duration: 2015 ~ 2018 (4 years) / Total Budget: 2.5 million US\$
- Contents : Ultra-light high-hardness automotive chassis component technology development, etc.

Enhancing status as the hub city of the hydrogen economy

- Building hydrogen filling station and operation, complex charging and evaluation, etc.



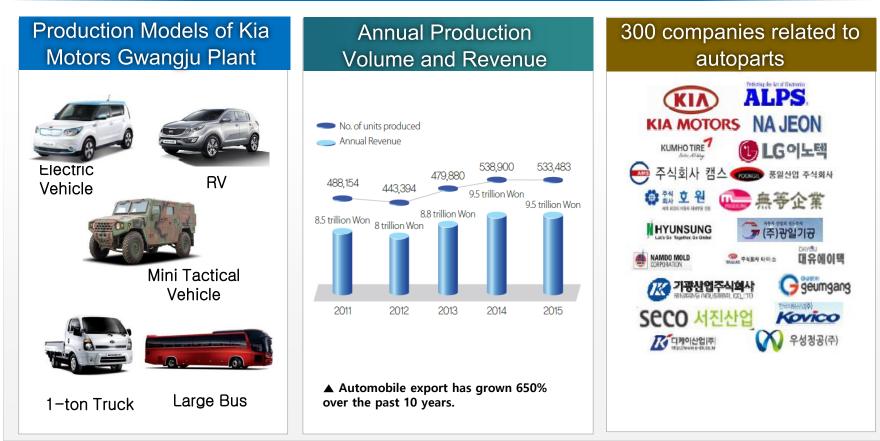


2. Status of Gwangju Automotive Industry

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The 2nd largest vehicle producing city in Korea

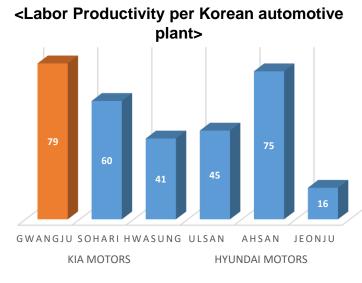
- 50 years-long tradition of automotive industry and first mass production in Korea since 1968
- Production capacity of Kia Motors Gwangju Plant to 620,000 units per year.
- Hiring 7,800 people, total revenue of 9.5 trillion KRW, output of 569,000 units per year.



2. Status of Gwangju Automotive Industry

Statistics

- 1 Added Value: 1.48 trillion Won, 40% of the total Gwangju-area added value (2013)
- Number of Employees: 13,000,
 22% of the total manufacturing industry (2013)
- 3 Added Value per person is 150 mil Won,1.3 times the national average.
- 4 26 Tier-1 Suppliers for Kia Motors Gwangju plant
- **5** Totally, 124 automotive component suppliers
- 6 Achieved top labor productivity in Korea

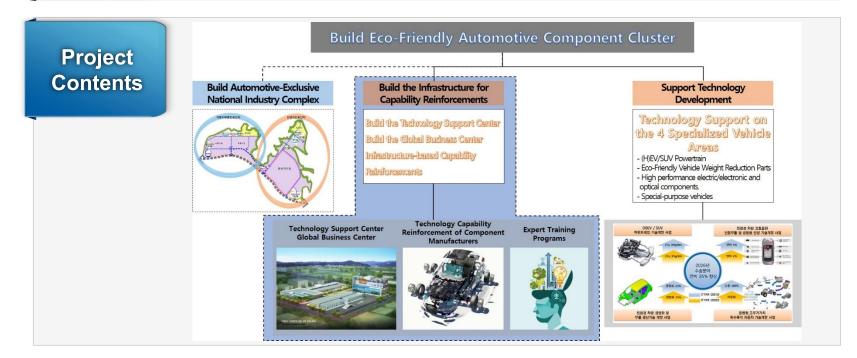


▲ From Hyundai-Kia Homepage data (unit: number of units/person)

3. Eco-Friendly Automotive Component Cluster Establishment Project

3. Eco-Friendly Automotive Component Cluster Establishment Project -Summary

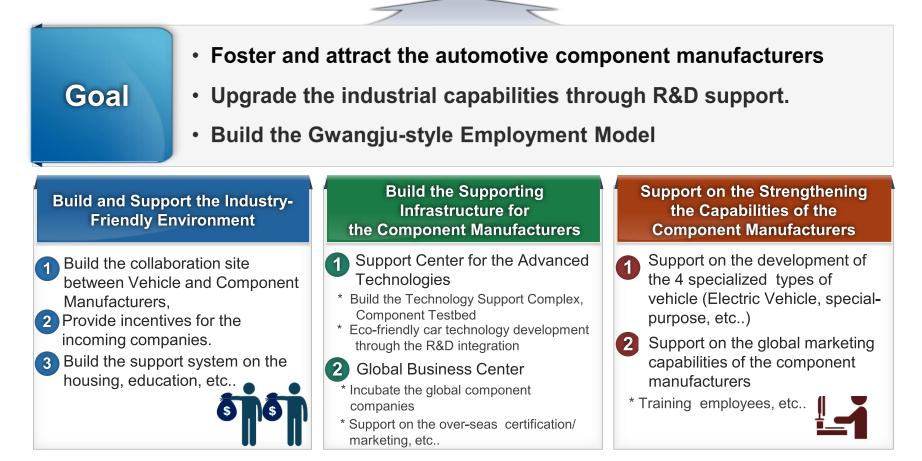
Goal	Build Eco-Friendly Automotive Component Cluster
Project Period	2016 ~ 2021(6 years)
Project Entities	Ministry of Trade, Industry and Energy, Gwangju City, Gwangju Institute of Green-Car Advancement, Component Manufacturers
Location	BitGreen National Industrial Complex in Gwangju (4 mil m²)
Expenditure	303 Billion Won (Central Government 143.1, City 140.5, Private Sector 19.4)



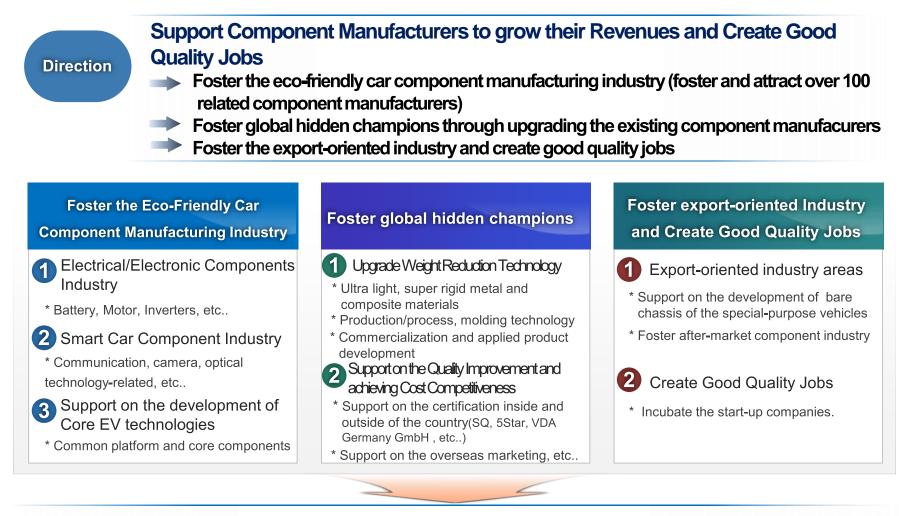
3. Eco-Friendly Automotive Component Cluster Establishment Project - Vision and Goal

Building the Pioneering City of Eco-Friendly Car

(Upgrade the Eco-Friendly Automotive Component Industrial Structure by Cluster Construction)



3. Eco-Friendly Automotive Component Cluster Establishment Project - Project Directions



Make the workers content with their jobs realizing economically well-to-do community through Automotive Industry Valley.

4. Going Forward: Gwangju Automotive Industry

4. Going Forward: Gwangju Automotive Industry - Electric Vehicle

Foster Electric Vehicle Industry, especially on the areas Gwangju is doing and can do well

Pioneer the Niche EV Market

 Niche EV market that the local companies can be competitive, e.g. small utility electric vehicles



Smart surface cleaner



Agricultural EV



Lift



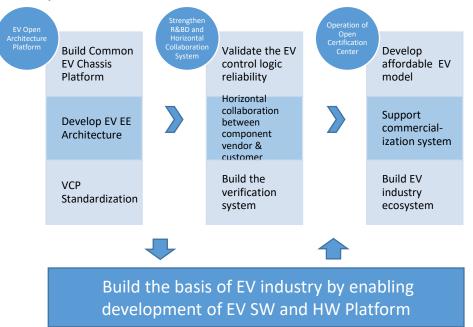
Transportation for the mobility handicapped



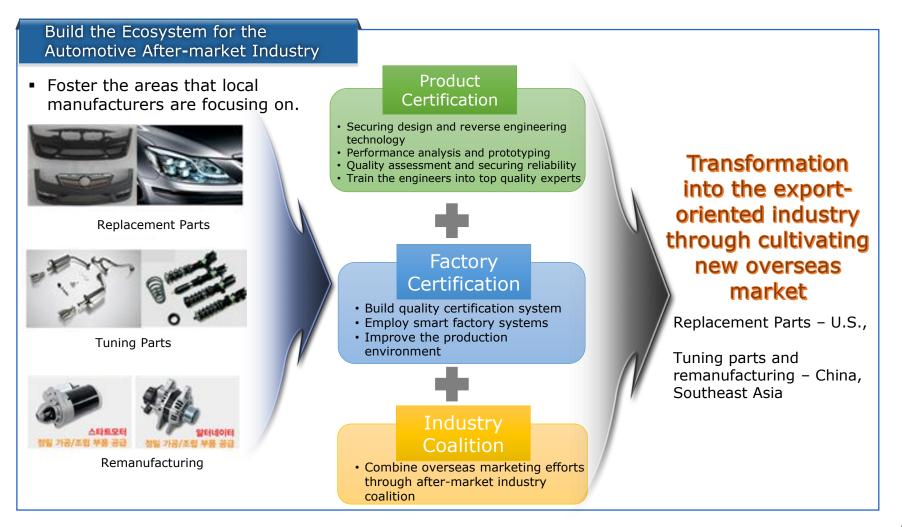
4-wheel drive

Build the Open EV Platform

 Build the Common EV Platform with modularization, standardization of EV to acquire the base ready for EV market expansion.



Foster Automotive After-Market Industry - 52 members in Gwangju after-market council

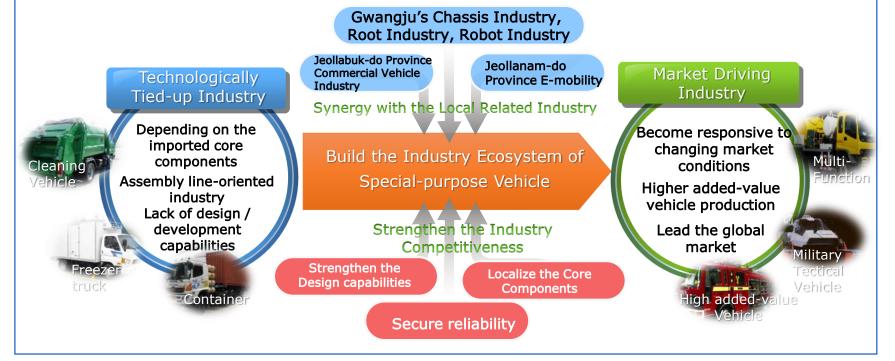


4. Going Forward: Gwangju Automotive Industry – special-purpose Vehicle

Foster Special-Purpose Vehicle Industry - Build Export-oriented Industry Cluster

Special-Purpose Vehicle Industry

- Transform the existing technologically tied-up industry into the higher value-added, market-leading, export-oriented industry.
 - Reinforce the global competitiveness (in-house design capabilities, localization of core components, securing reliability/durability)
 - Leveraging the local related industry (chassis, commercial vehicles, EV, etc..)



4. Going Forward: Gwangju Automotive Industry – Gwangju Automotive Industrial Valley

By building Gwangju Automotive Industrial Valley, we will bring Renaissance of the Automotive Industry in Gwangju!

Technology Support for Automotive-exclusive Build the base for Eco-Build **Eco-Friendly National Industry Friendly Automotive** Automotive Cluster Cluster **Component Cluster Component Cluster** Build **Automotive** Industrial Valley Basic material manufacturing industry Research and development, educational facility motive maker complex nce and culture complex ponent complex port exclusive port eme park, Convention

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Thank you for listening!

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