1.5 Million-Car Project



Fukuoka - Location





"The Gateway to/from Asia"

Population

- 5 million / Fukuoka prefecture
- 15 million / Kyushu

Climate

- Mild with a moderate amount of rainfall
- Average annual temperature: 18 C



GDP of Fukuoka: € 156 billion

GDP of Kyushu: € 432 billion

Major industries

- Transportation equipment
- Electrical equipment and components
- Iron and Steel
- Machinery
- Chemical



1.5 Million-Car Project

~ Toward the realization of a world-leading automobile production & development base ~

- Concentration of automakers: Toyota, Nissan, Daihatsu
- Annual production capacity: Over 1.5 million
- Engine factories: Toyota, Daihatsu
- Hybrid vehicle component factory
- HR development in the auto industry
- Next-generation automobile R&D base
 - Promoting the development of senior-friendly automobiles
- Design development base
 - R&D of vehicle, production control technologies
 - R&D of embedded software for automobile, ICs





1.5 Million-Car Project

~ Toward the realization of a world-leading automobile production & development base ~



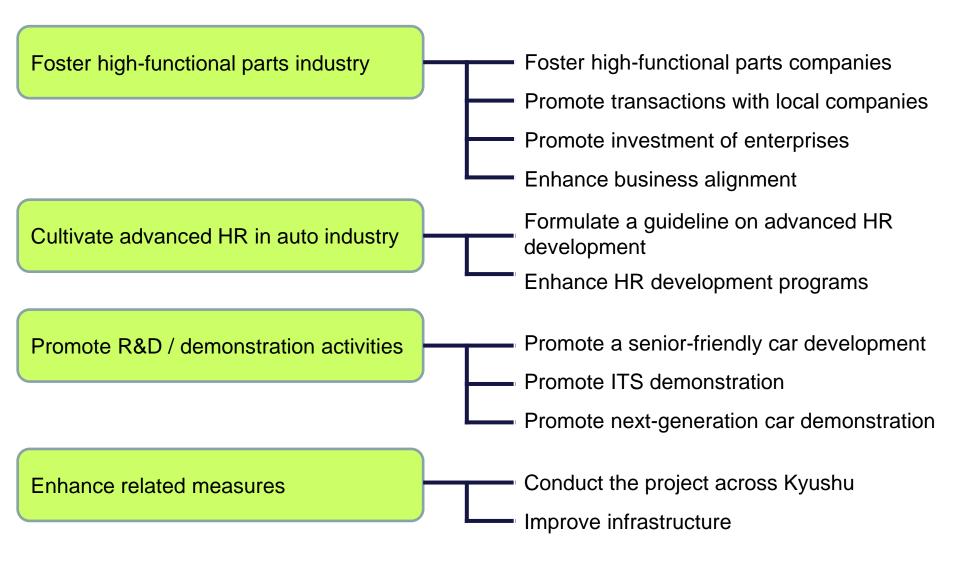
Target 2: Procure 70% of parts within the region

Target 3: Become a hub of highly qualified human resources

Target 4:Become a center of R&D and demonstration activities for
next-generation automobiles



1.5 Million-Car Project - Overview





1.5 Million-Car Project - Production volume

Production volume of four-wheel vehicles

	2004	2005	2006	2007	2008	2009	2010
Nissan Motor Kyushu Plant	510,000	420,000	350,000	400,000	360,000	310,000	410,000
Nissan Shatai Kyushu	-	-	-	-	-	5,000	60,000
Toyota Motor Kyushu	250,000	310,000	410,000	440,000	290,000	340,000	270,000
Daihatsu Kyushu	40,000	170,000	250,000	290,000	310,000	340,000	340,000
Total	800,000	910,000	1,010,000	1,130,000	960,000	990,000	1,080,000



1.5 Million-Car Project - Engine plants, suppliers

• Engine, CVT, Transaxle plants

Company	Factory (start operation)	Production item		
Toyota Motor Kyushu	Kanda No.2 plant (Apr. 2008)	Engine		
Toyota Motor Kyushu	Kokura plant (Aug. 2008)	Transaxles for hybrid car		
Daihatsu Kyushu	Kurume plant (Aug. 2008)	Engine		
Akashi Kikai Industry	Kyushu plant (Oct. 2009)	CVT		

Concentration of automobile-related companies

850 automobile-related companies in Fukuoka/Kyushu

FY	2002	2003	2004	2005	2006	2007	2008	2009	Total
Number of companies newly entered	2	6	10	11	20	21	20	2	92



1.5 Million-Car Project - R&D

- R&D of vehicle, production control technologies
 - Toyota Technical Development Fukuoka R&D Center
 - Toyota Production Engineering HQ and Fukuoka Technical Center
 - NCS Kyushu Office

- R&D of embedded software & ICs
 - CATS Embedded Software Laboratory
 - Denso Techno Fukuoka Technical Center
 - Aisin comCruise Fukuoka Technical Center, Kitakyushu Laboratory
 - ECS Kitakyushu Lab
 - New Japan Radio Kitakyushu Design Center



TPEC Fukuoka



• Foster manufacturing engineers of SMEs

Conduct training programs to develop skilled engineers and technicians in basic manufacturing techniques.

* Molding, Plating, Rubber manufacturing, Plastic, 3D design, Module

Foster highly-skilled human resources

Universities in Fukuoka conduct specialized course for automotive science, digital engineering, automotive system engineering and car electronics.

• Foster younger people, high school students

Provide technical high school students practical educations to learn basic skills and principles, while implementing internship programs in companies located in Fukuoka.



Internship program at Nissan



1.5 Million-Car Project - New manufacturing technology

- New manufacturing technology development
 - Complex servo press processing method for head restraint
 - Heat-resisting material for power train using magnesium alloy castings
 - Rapid isothermal forging technology of aluminum alloy for massproduction
 - Slide parts for power train using low-temperature thermal spraying technology
 - High-precision micro fabrication technology for deep hole nozzle using tool wear sensing method
 - High lubricity automotive wiper
 - Noncontact, on-machine and automatic compensation type grinding system



1.5 Million-Car Project - Business networking

- Promote transactions with local companies
 - Appointment of entry support advisors
 - Business matchmaking to expand trade in auto parts
 - New technology and processing method exhibition
 - Strengthen regional networks





Senior-friendly car development project

- Automobile is necessary for elderly people as means of daily transportation, in particular in countryside without public transport.
- At the same time, automobile is a key device for social participation and fulfilling life throughout our lifetimes.



Automobile from a senior driver's standpoint is required!

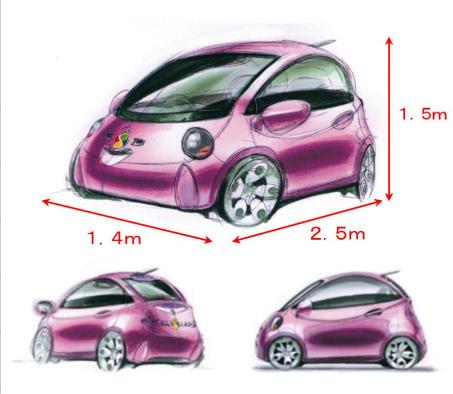
Governors' association

- Analysis of current situation of senior drivers
- Survey analysis of dissatisfactions and requests of senior drivers with existing cars
- Propose a new concept of senior-friendly cars to automakers etc.



< Spec of senior-friendly car >

Dimension	Length: 2.3 - 2.8 m Width: 1.3 - 1.4 m Height: 1.5 - 1.6 m				
Capacity	2 persons				
Max. speed	less than 60 km/h				
Range	approx. 60 km				
Weight	less than 700 kg				
Power source	Electricity				
Max. power	10 kW - 20 kW				



Body design example



Hydrogen highway

Hydrogen vehicles have freedom of operation



Based on water electrolysis using solar power





Based on by-product hydrogen supplied through pipeline



1.5 Million-Car Project - Hydrogen highway











FCEV installation initiative

- Development of hydrogen stations
- Incentives for FCEV purchase, use and parking
- Setting goals for the number of FCEV







See you in Fukuoka!

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