



Center for Development of Technology and Industry - Automotive (CDTI-A Molina)

The 3rd Asia Automobile Institute Summit
December 3rd – 4th, 2014
IMPACT Muang Thong Thani, Thailand



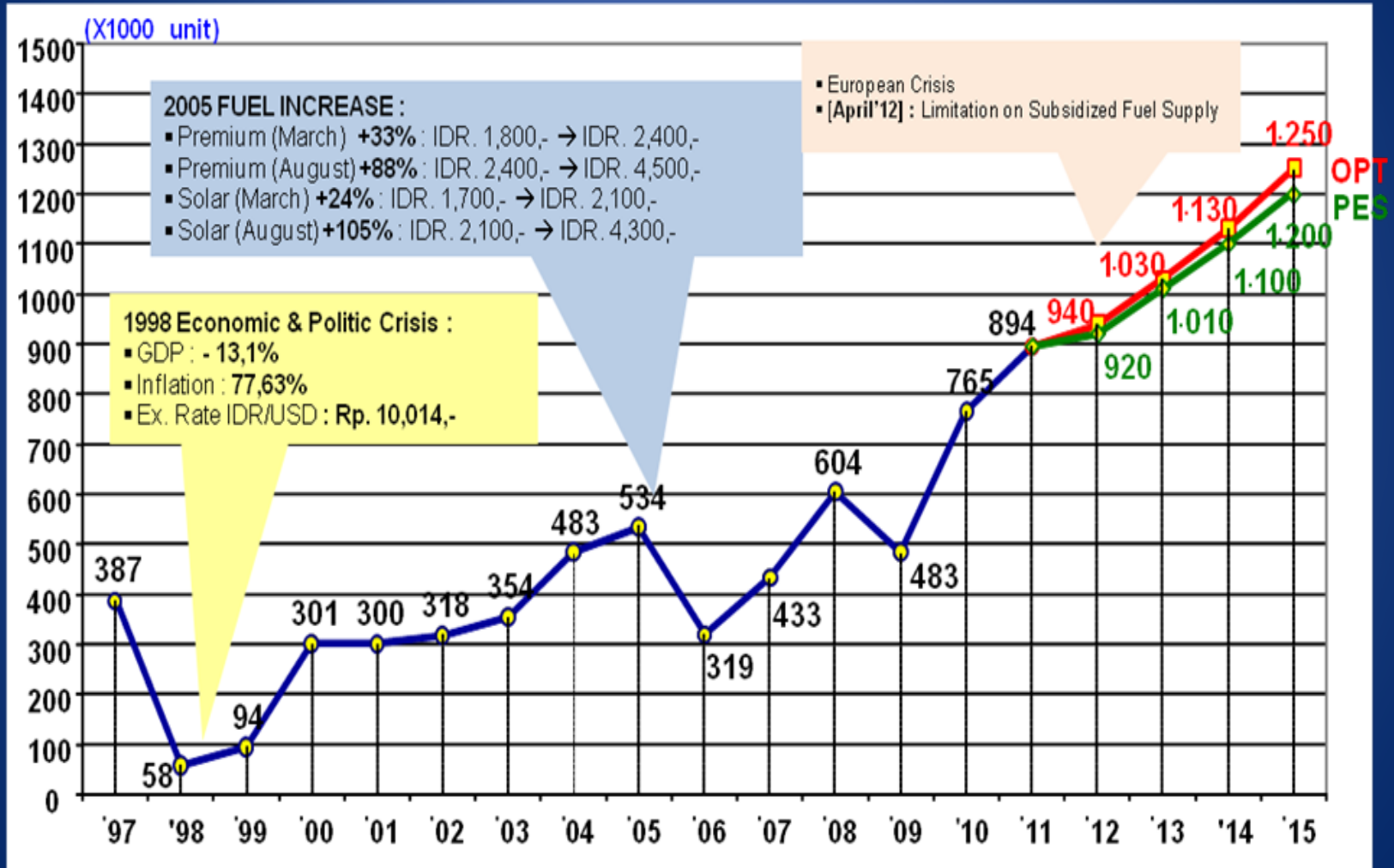


Contents

- Background
- Vision and Mission
- Landscape
- Organization and Management
- Funding Scheme



Background : Domestic Market and Forecast for 1997-2015 (Gaikindo)

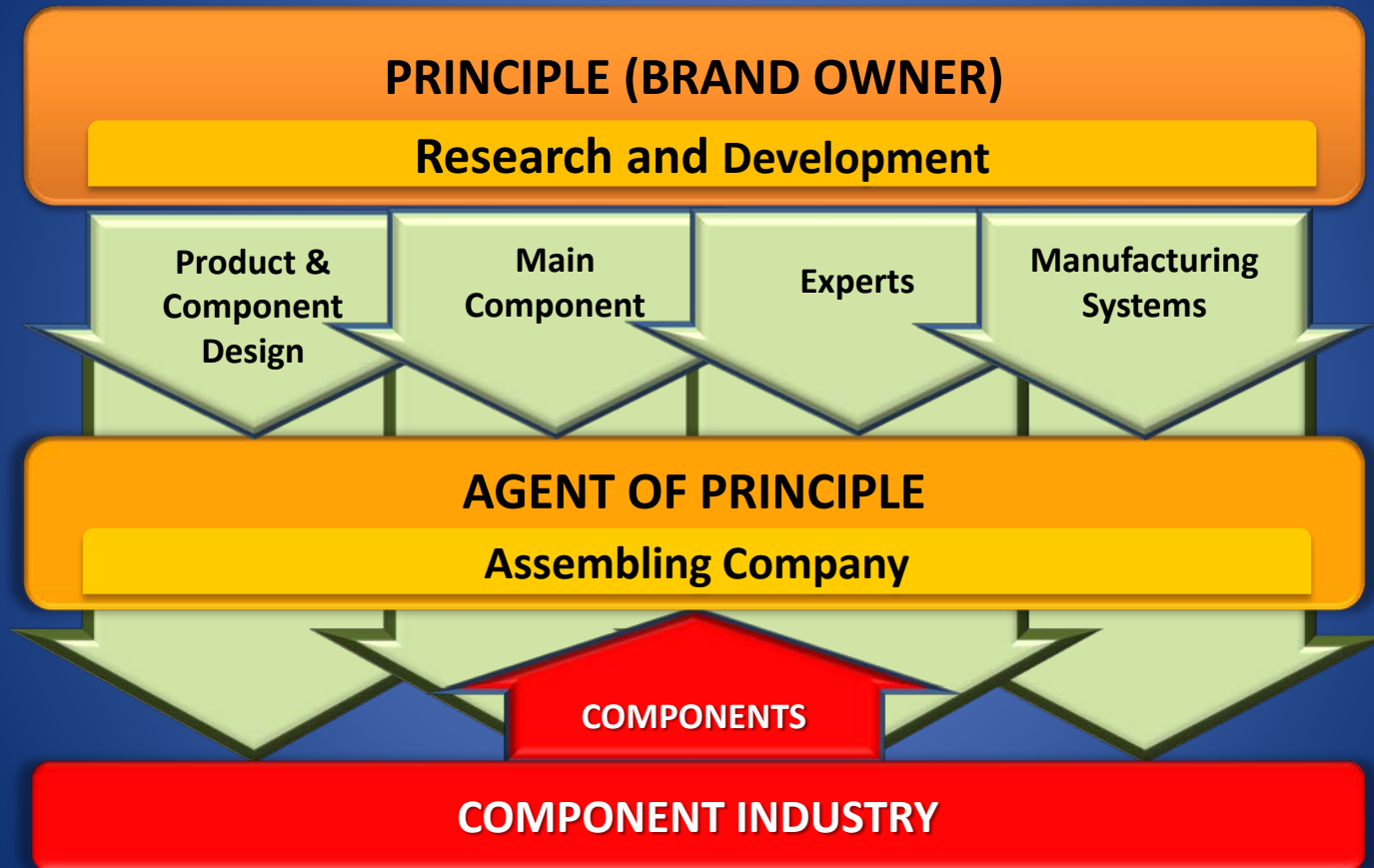


Note:

Domestic market growth assumptions in 2012 to 2013, 2013 to 2014, 2014 to 2015 = 10%



Background : Recent Condition of Automotive Industry



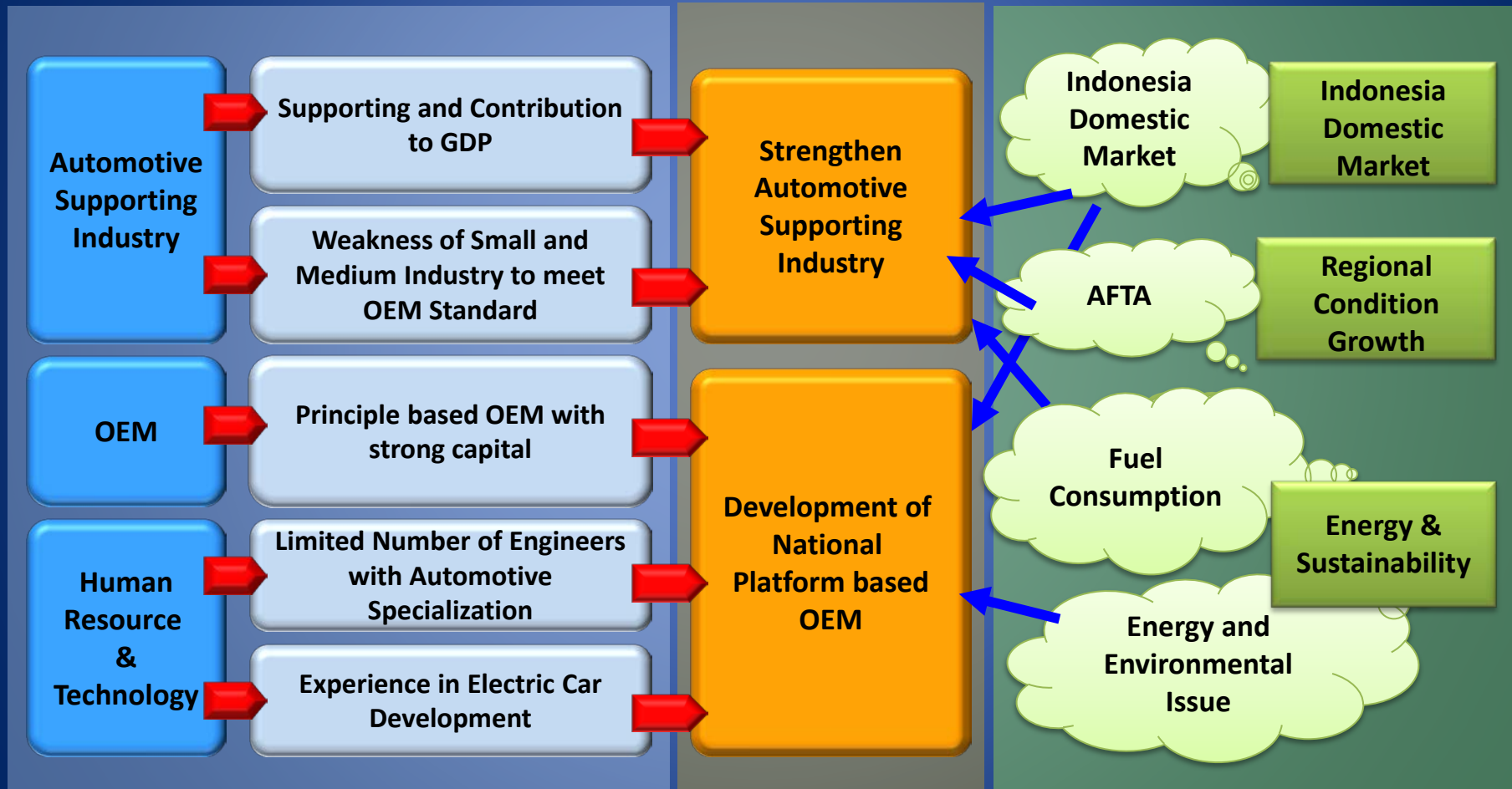


Background : Reasoning to Develop CDTI-A

Internal Factors

Reasoning

External Factors





Background : Automotive Product with National Platform

**Domestic
Automotive
Industries**

**Automotive
Product
with National
Platform**

**Capability
Of Nation**

TECHNOLOGY

**HUMAN
RESOURCES**

REGULATION

CAPITAL

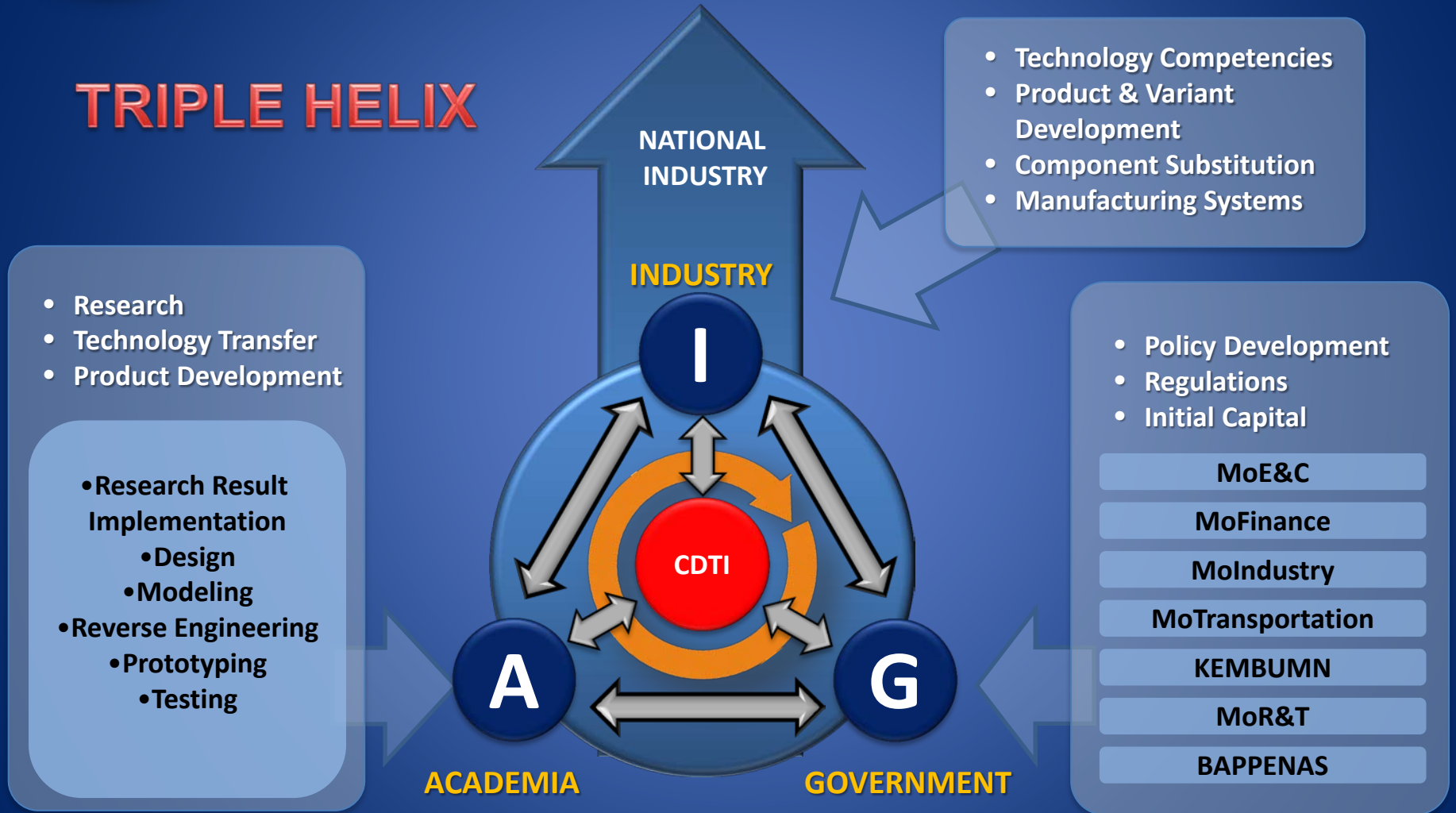
CDTI-A

- Perpres No. 28 tahun 2008
National Industry Policy
- Permenperin No. 123 / M-
END/PER/10/2009
Development of Automotive
Industry Cluster



VISION: ROLE OF CENTER FOR DEVELOPMENT OF TECHNOLOGY AND INDUSTRY (CDTI)

TRIPLE HELIX





VISION: TRIPLE HELIX

- “In knowledge-based societies, the interaction among a Triple Helix of university-industry-government is the source of innovation and development” (*Etzkowitz-Dzisah, 2008*)
- ‘Triple helix’ is a terminology used to give a name to the concept of interaction University – Government – Industry, which has a synergy in the development of capacity and a function of Science & Technology for country development processes. (*Saswinadi Sasmojo AIPI, 2011*)

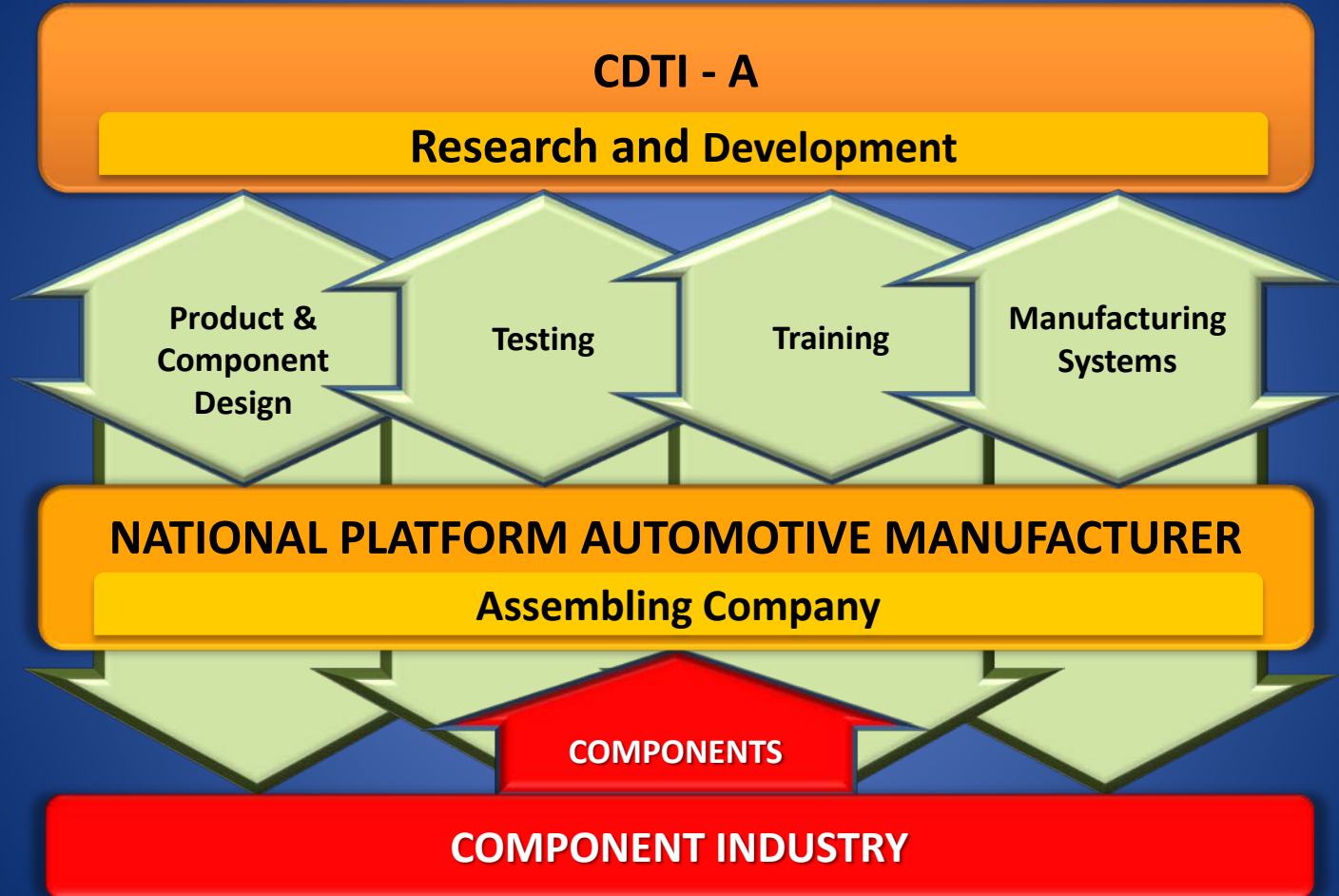


VISION: CDTI-A

- To be an Engineering and Development Institution to support an achievement of National Automotive Industry as a World Class Industry.



Mision: CDTI-A Proposal



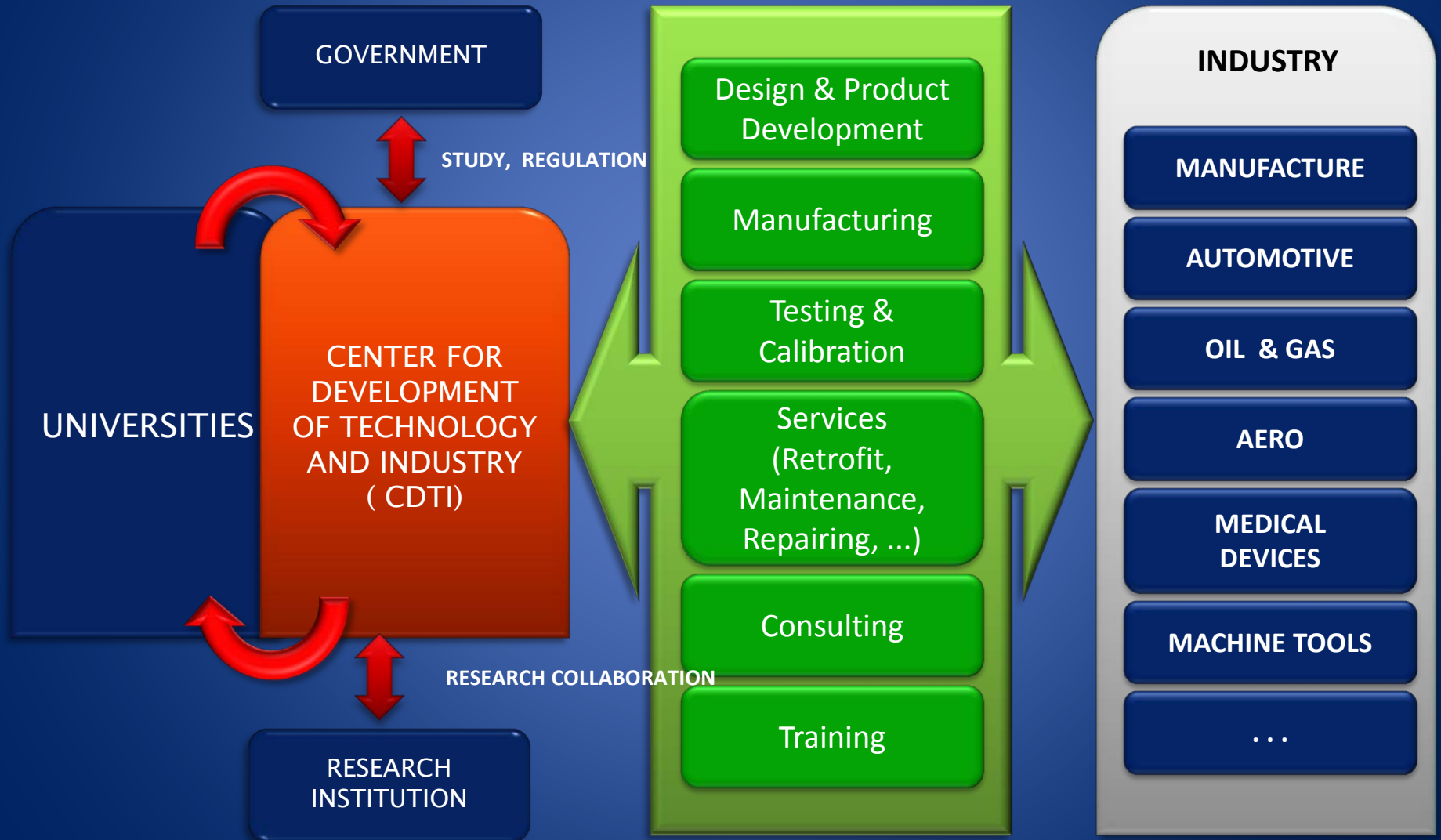


Mision

- To develop a human resource in the automotive field based on grading system
- To develop technology (national platform) in design, manufacturing, and testing of automotive product and its component
- To develop a special production equipment for the national automotive industry

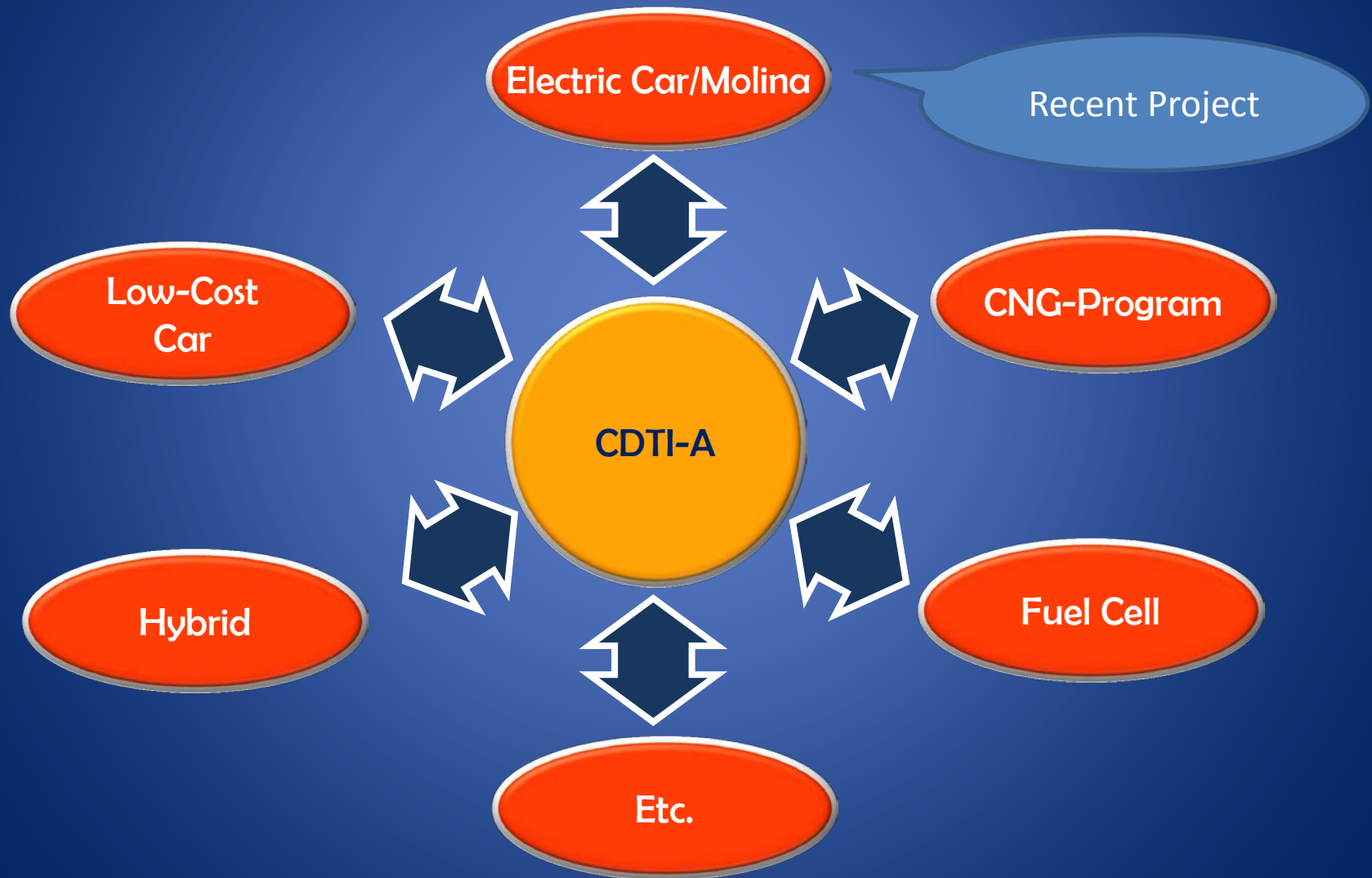


Landscape: CDTI ACTIVITIES





Landscape: A Special CDTI has been planned





Landscape: Main Component and Scope of Activities

Components

Structure
(Chassis & Vehicle Body)

Drive train
(ICE, Hybrid, Electric)

Transmission System

Electric & Control

Tires

Suspension System

Brakes System



Activities

Design

Modeling & Prototyping

Product Development

Reverse Engineering

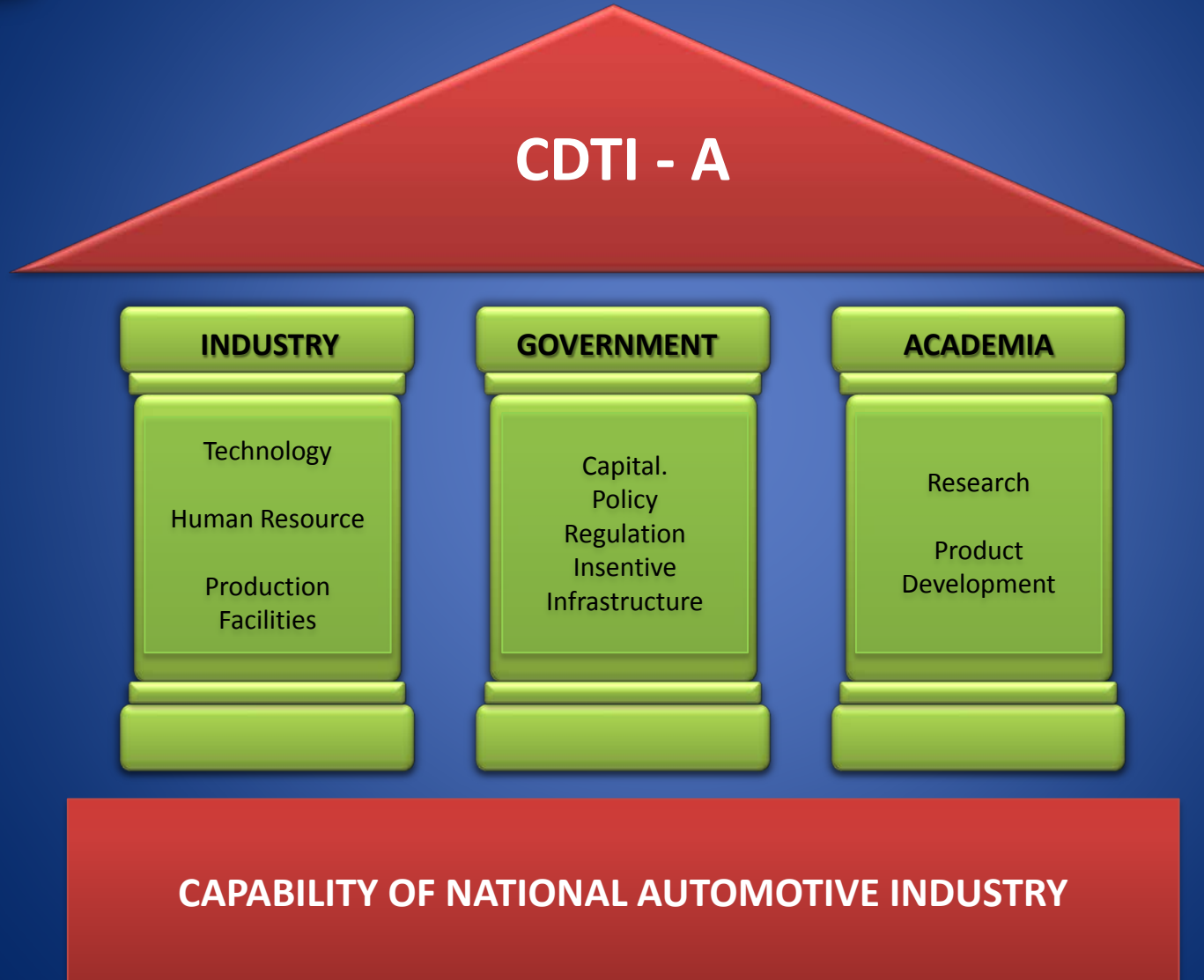
Manufacturing

Testing

Research



Organization : Structure





Organization: Management and Governance

Ministry of Education
and Culture

Management Comitte

Technical Comitte

Secretariat

Energy Storage

Electronic & Controller

Traction and Conversion

Platform & Chasis

Product Development

Standardization & Testing

Electric Motor

Body & Interior

Manufacturing Process

Utility

Safety & Environment

Ergonomy

Production Feasibility

Steering Comitte
DG of Higher Education

DG of High Tech. Industry

Head of BPPT

Head of LIPI

Deputy of Energy, Logistics, and
Transportation (Kemen BUMN)

Deputy of Science & Technology
Application (Kemenristek)

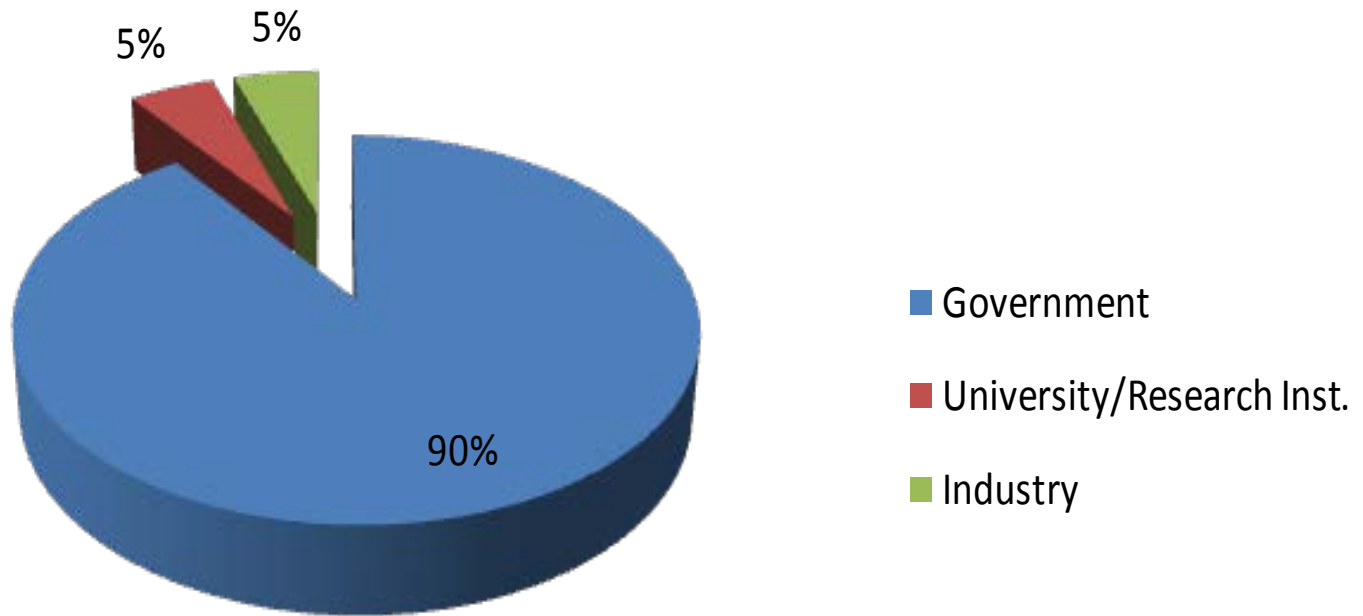
Agency for R & D (Kemenhub)

Indonesian Endowment Fund
for Education (Kemenkeu)



Funding: Electric Car Project - Phase I

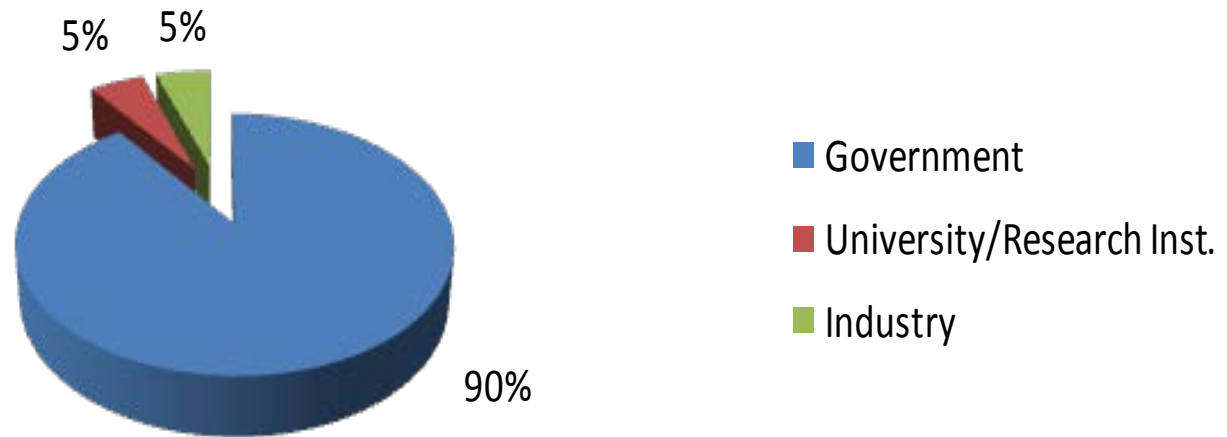
Design and Development Phase





Funding: Electric Car Project - Phase II

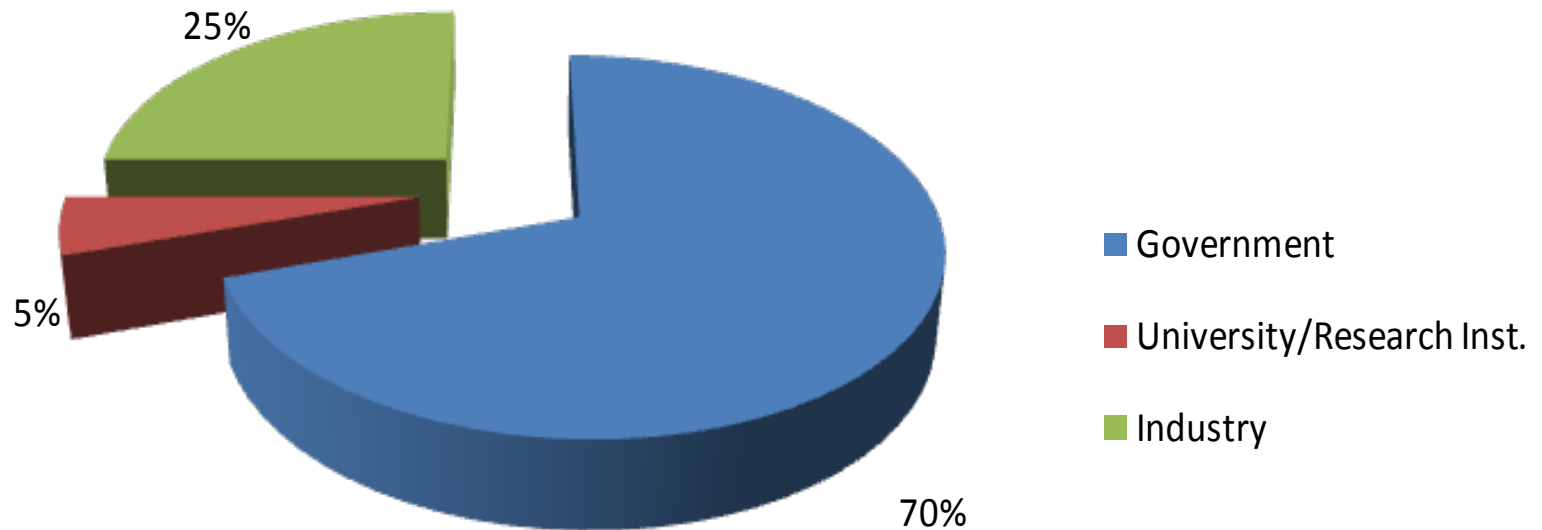
Prototyping and Preparing Industrialization Phase





Funding: Electric Car Project - Phase III

Technology Transfer Phase





THANK YOU

