



Transportation Research Position in Indonesia Nowadays

Director General Research and Development Agency

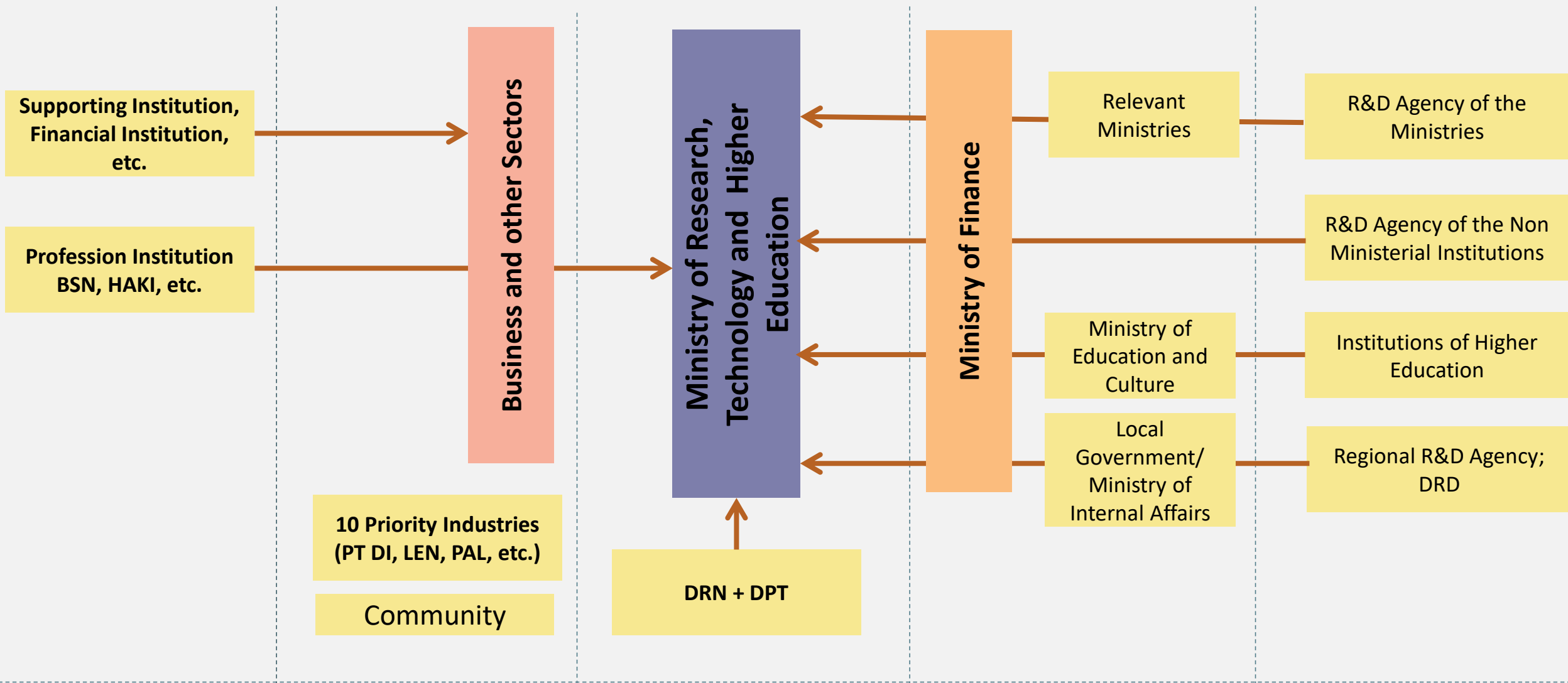
International Conference of Research and Inovation

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Position of Transportation R&D Agency towards Other Governmental Research Agencies

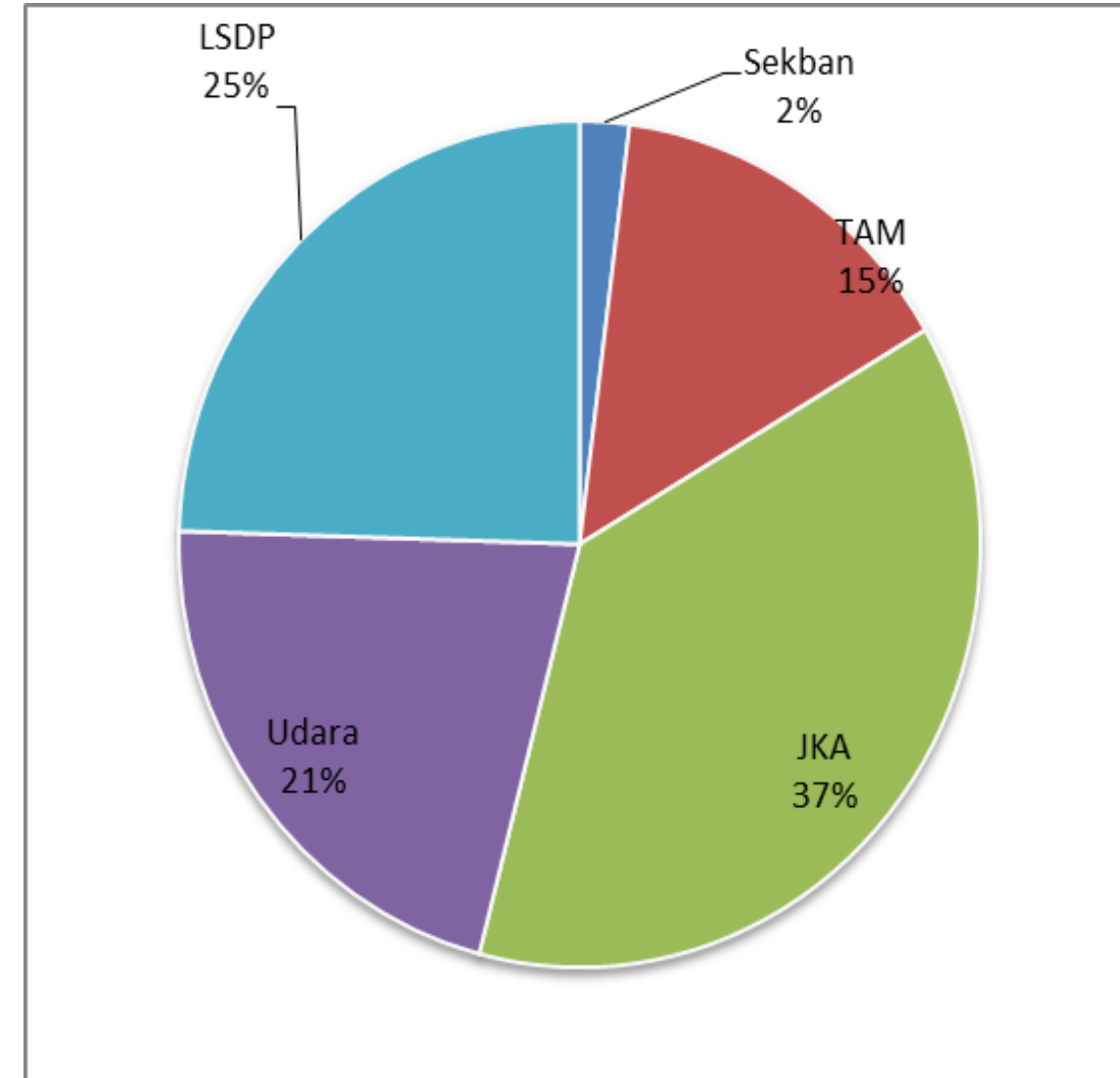


Profile of Transportation R&D Agency

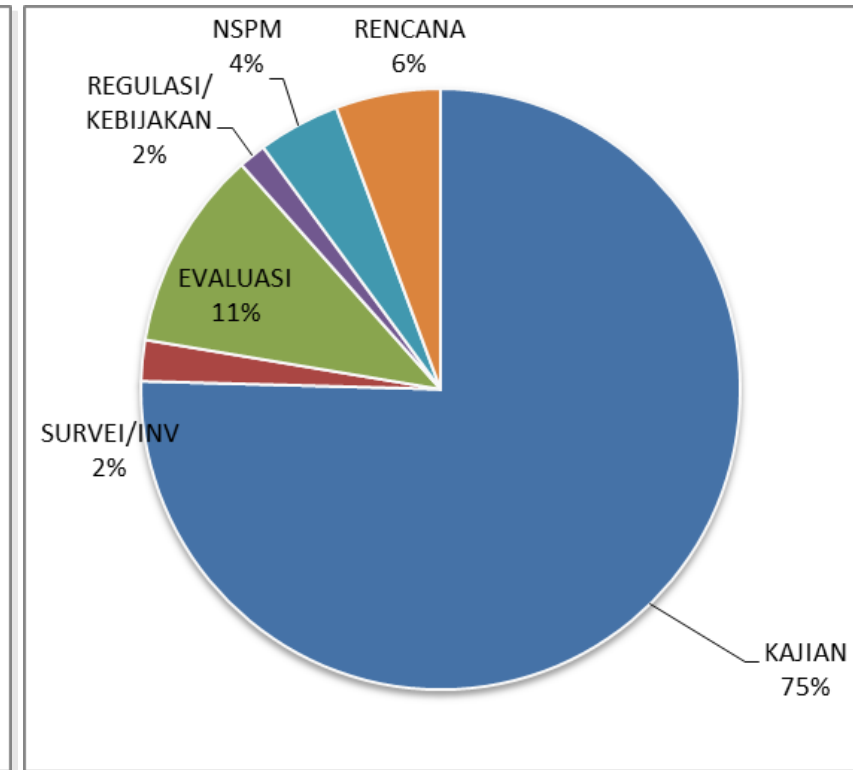
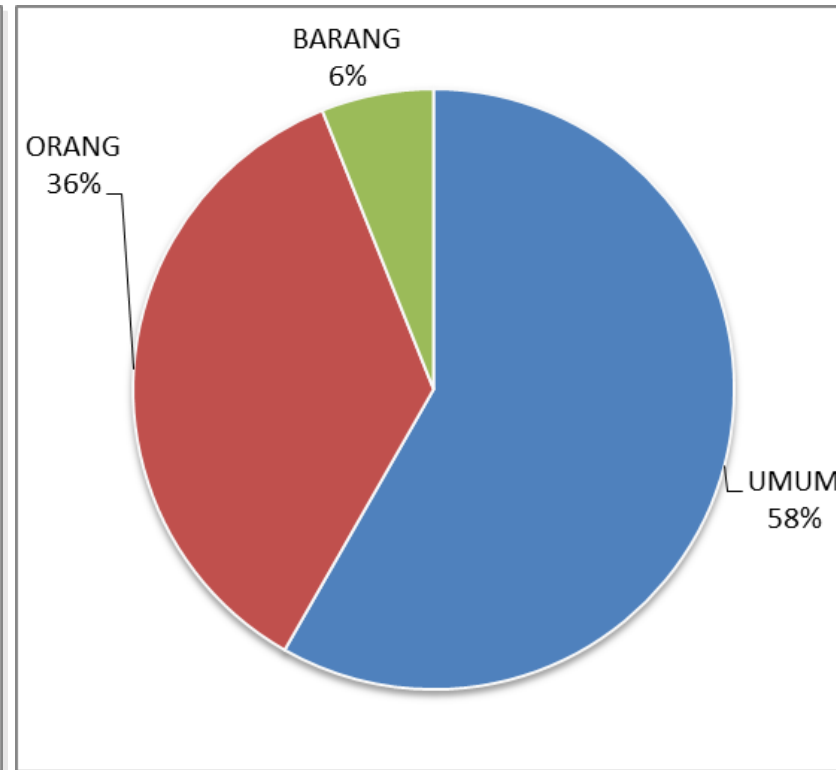
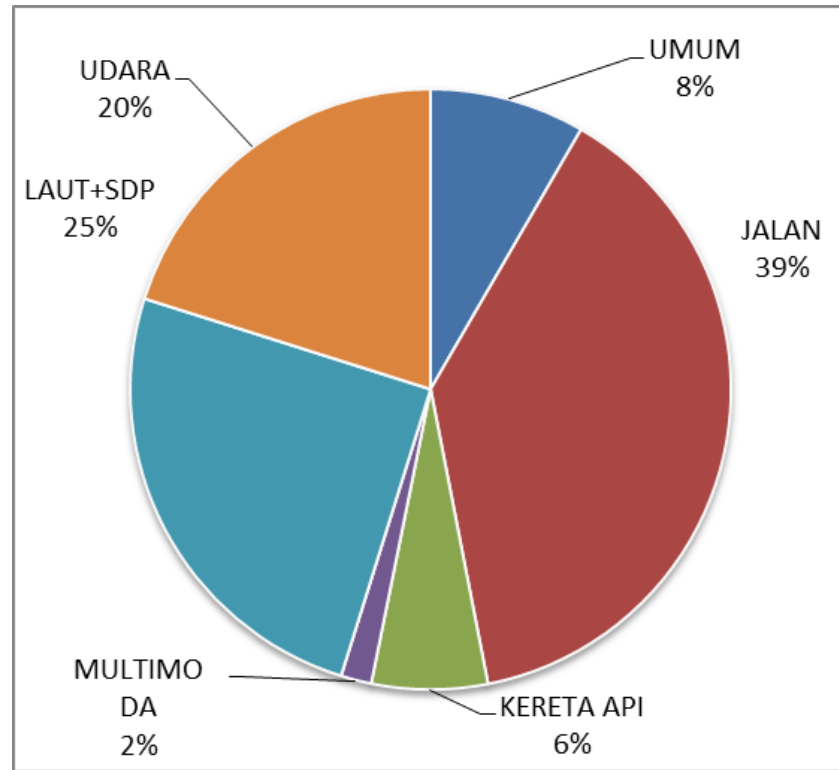


- During 2015-2018, more than 750 research activities have been carried out in R&D through 4 Centers and 1 Secretariat
- The largest portion is at the center of the road and railroad, followed by the sea and the air

WORKING UNIT	2015	2016	2017	2018
Secretariat of the Agency	9	2	2	2
R&D Center for Intermodal Transportation	46	20	23	21
R&D Center for Road and Railway	119	60	60	44
R&D Center for Air Transportation	68	48	26	20
R&D Center for Sea, River, Lake and Crossing Transportation	51	49	45	40



Profile of Transportation R&D Agency



- The largest portion of research are at road, sea, air and railway transportation respectively
- Research on passenger transportation is more than on freight transportation
- Research profiles in the form of studies of various aspects occupy the largest portion

Indications of Research Topics



Integration

How transportation infrastructure and services are integrated to achieve maximum utilization

Competition

How to ensure that transportation infrastructure is able to be a driver of competitiveness

Smart Technology

The use of technology to ensure the best transportation services

Inclusivity

It is highly important in the Indonesian context where inequalities still need attention

Sustainability

Relating to the balance between economic development, community justice and environmental preservation

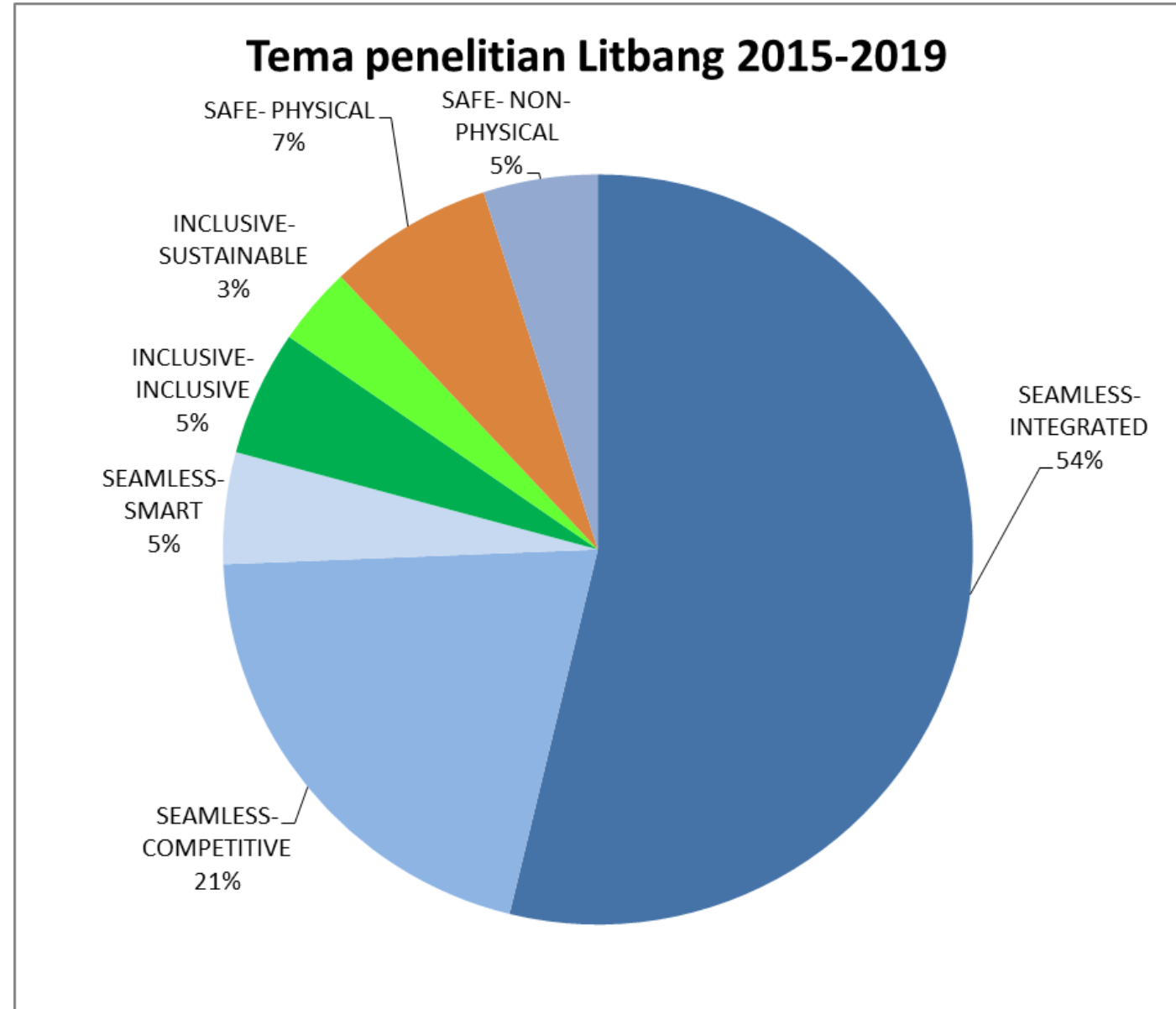
Safety and Security

The mandate of transportation safety and security as one of the goals of transportation management

Mapping of Research Topics 2015-2019 based on Research Tree



- During 2015-2019 the research topics in R&D were mostly focused on **seamless** branch, with a percentage of 80%, 54% for research related to integrated transport and 21% for competitive
- 12% for **safe** branch
- Only 8% for **inclusive** branch



Integration of Research Actors in Transportation Field



Research an Technology Focus	Main Factor			
	Ministry/Institution	LPNK	Perguruan Tinggi	Swasta/ Lainnya
Food-Agriculture	Ministry of Argiculture Ministry of Reaseach, Technology and Higher Education, Ministry of Marine Affair KKP, Ministry of Environment and Forestry , Agraria/BPN	BPPT, LIPI, BATAN, BAPTEN, BPOM	Public Universities/ private collages related	PTPN, Indofood, Indonesia Stated Owner Food, and related parties
New energi nd renewable energy	ESDM, Kemenperin, PUPR, LHK, DPDT2, KKP, Kemenhub, Kemenristekdikti	BATAN, LIPI, BAPETEN, BPPT	Public Universities/ private collages related	Industri yang bergerak disektor energi
Health-medicine	Kemenkes, LHK, Kemeperin	BPOM, LPK, BPPT	Public Universities/ private collages related	PT. Biofarma, indofarma, Medica, Desa dan Pihak Terkait
Transportation	Kemenhub, Kominfo	LAPAN, BPPT	Public Universities/ private collages related	PT. DI. PT. LEN INDUSTRI, INKA, PT. PAL, and related partties
Information Technology dan Communication	Kominfo, PUPR, Kemenhan	LIPI, BPPT, BIG, Ministry of Tourism and Creative Economy Ministry of Argiculture Ministry of Reaseach, Technology and Higher Education,	Public Universities/ private collages related	INTI, CMI, SOLUSI, and related partties



BPPT

- Formulation and implementation of policies on technology and innovation

Industry

- Innovation of applied technology
- Business Development

Public Universities

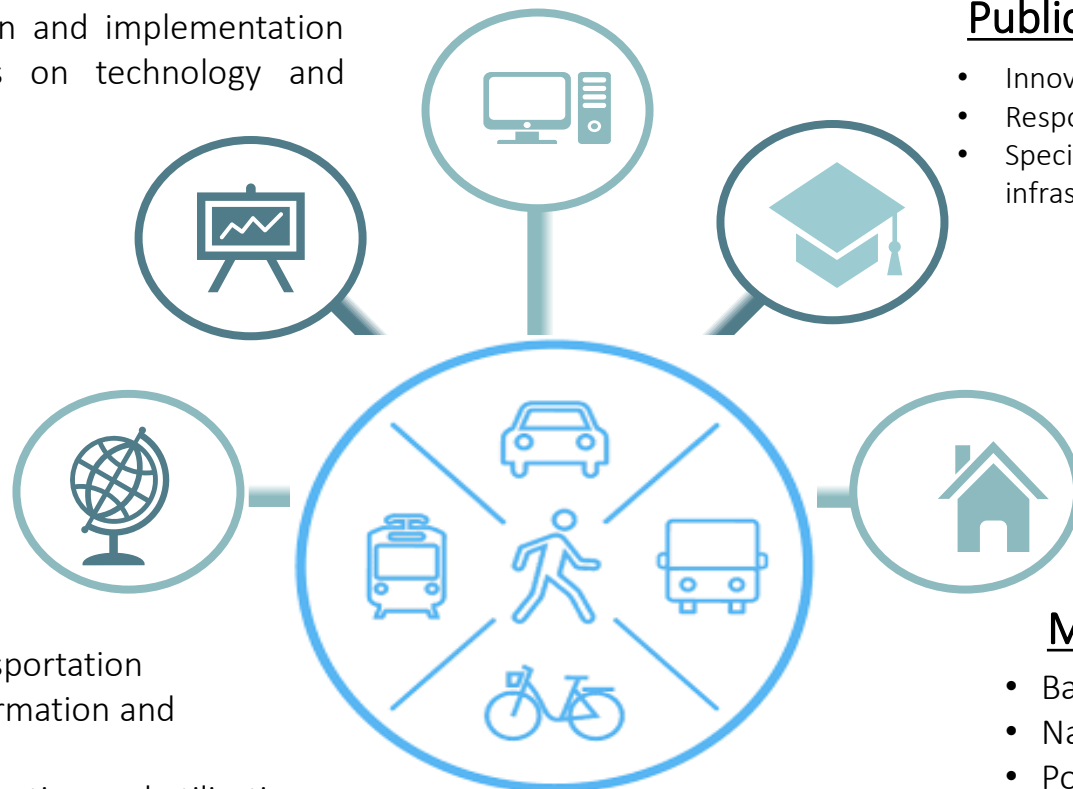
- Innovation & technology
- Response to community needs
- Specific flagship research (transport infrastructure)

LIPI

- Energy and transportation
- Technology, information and communication
- Technology innovation and utilization of science and technology

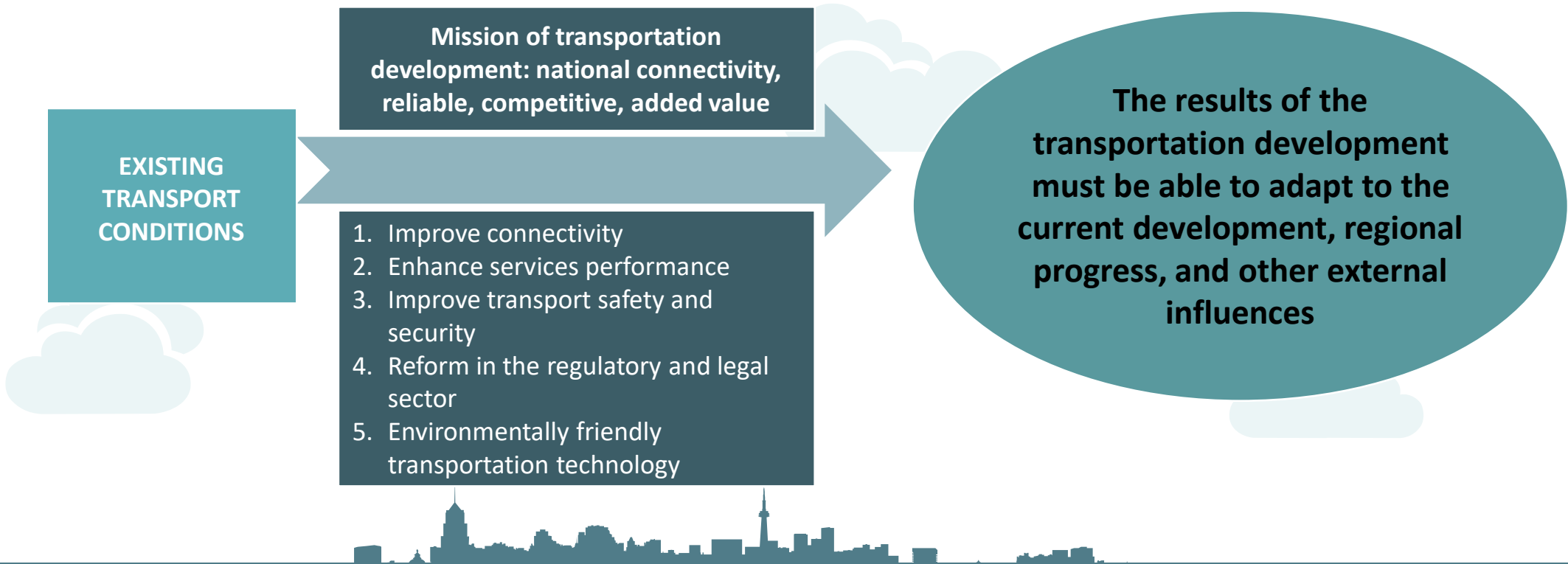
Ministry/Institution

- Basic policy
- National Strategic Issues
- Policy Implementation



- The government through Law No. 11 of 2019 encourages collaboration/partnerships with local/foreign stakeholders to conduct research in a "technology transfer" forum
- The higher and more varied community mobility have resulted in the emergence of various transportation problems which have to be solved by various cross-sectoral approaches

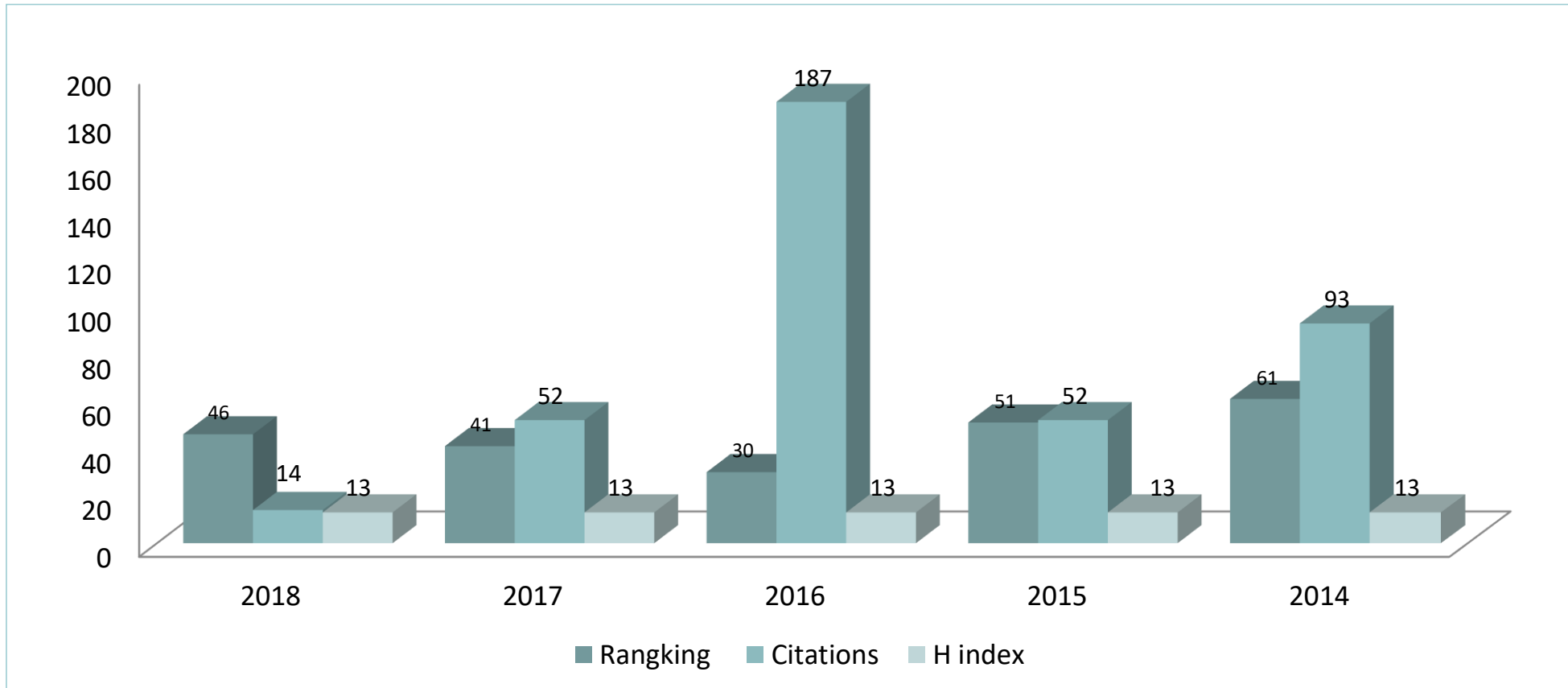
Direction of the Implementation of Transportation Development



NATIONAL TRANSPORTATION SYSTEM

1. Enhancing national transportation services
2. Developing transport safety and security
3. Fostering transportation business.
4. Improving the quality of human resource and science and technology
5. Maintaining and improving the quality of the environment and saving the utilization of energy
6. Enhancing the provision of fund for transport development
7. Improving the quality of public administration in the transport sector

International Ranking for the Publication of Indonesian Transportation Journal in the World



Sumber: SCImago Intitutions Rangkins

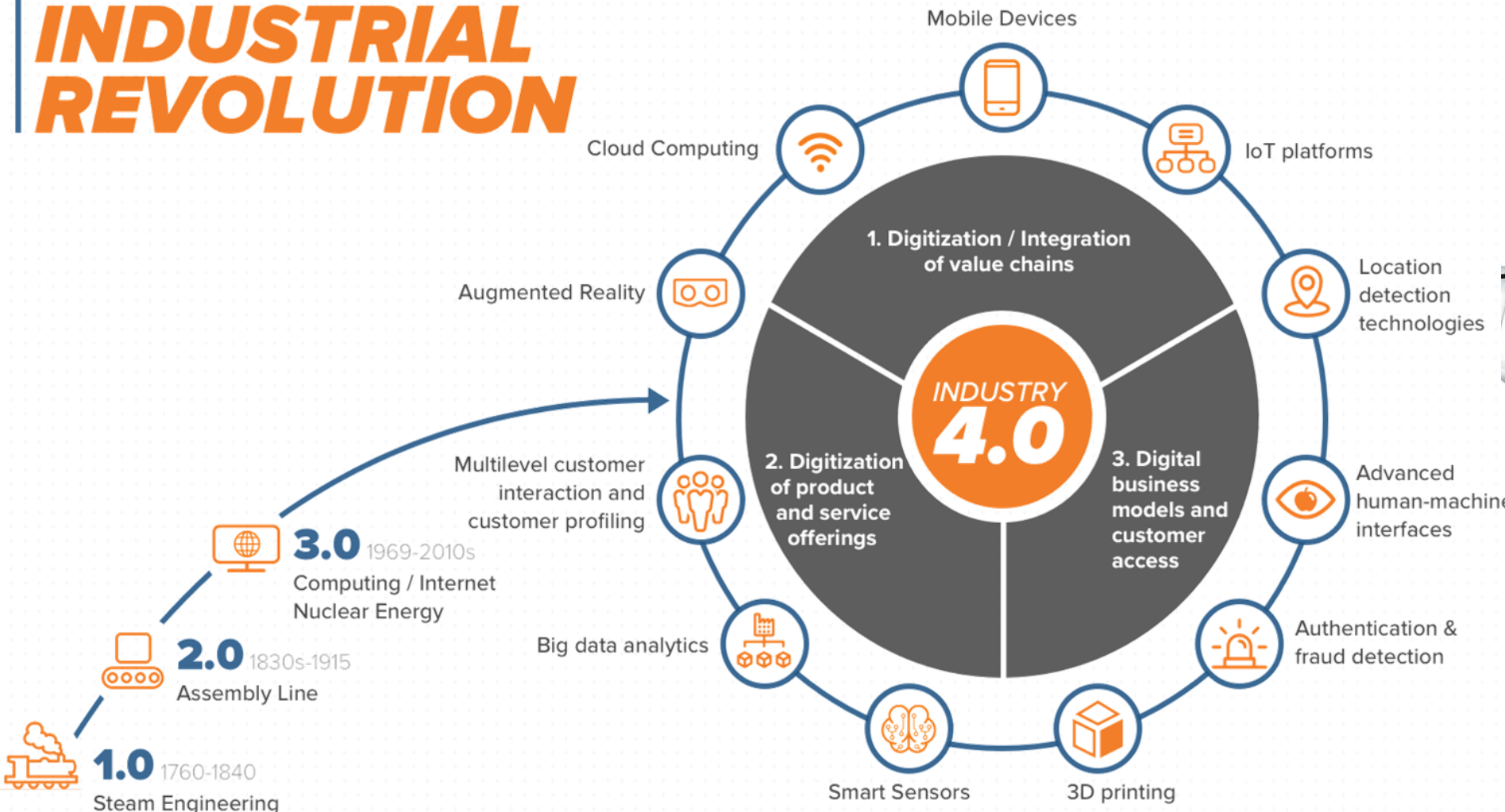
- Tahun 2018, in ASIA Regional The Indonesian International Transportation Journal ranks 11th

4.0 Challenge



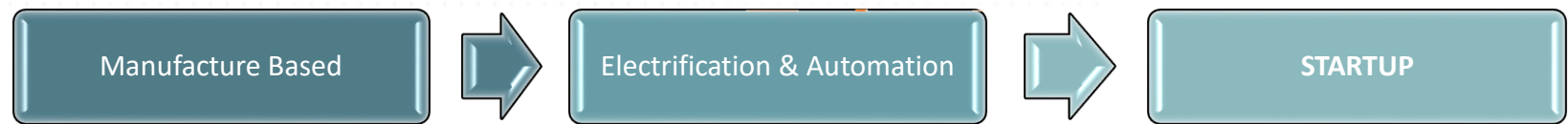
THE DAWN OF THE

FOURTH INDUSTRIAL REVOLUTION

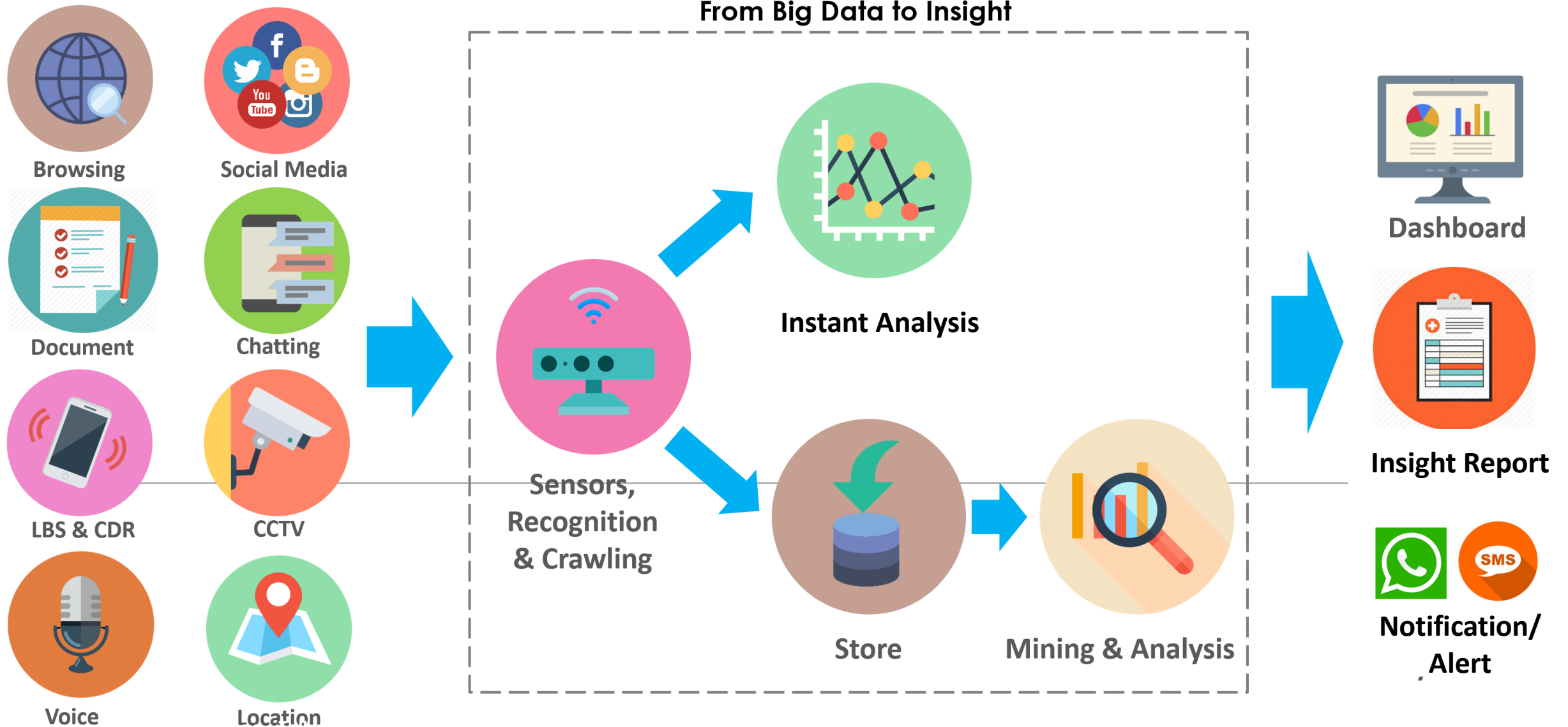


Paradigm Shifting

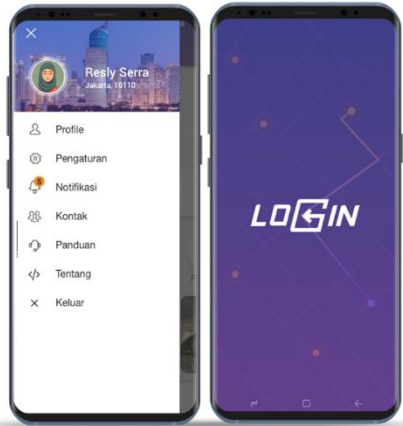
BUSINESS TREND SHIFTING



Utilization Social Media and Online Data for Analyzing and Monitoring Transportation Issues



Transhub Challenge

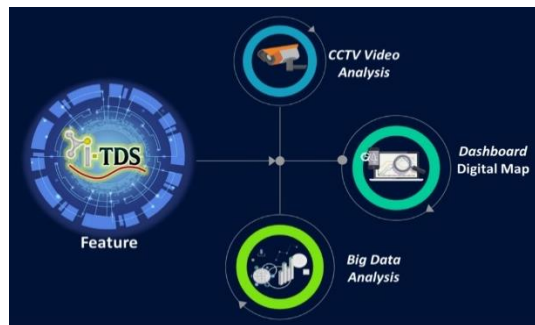
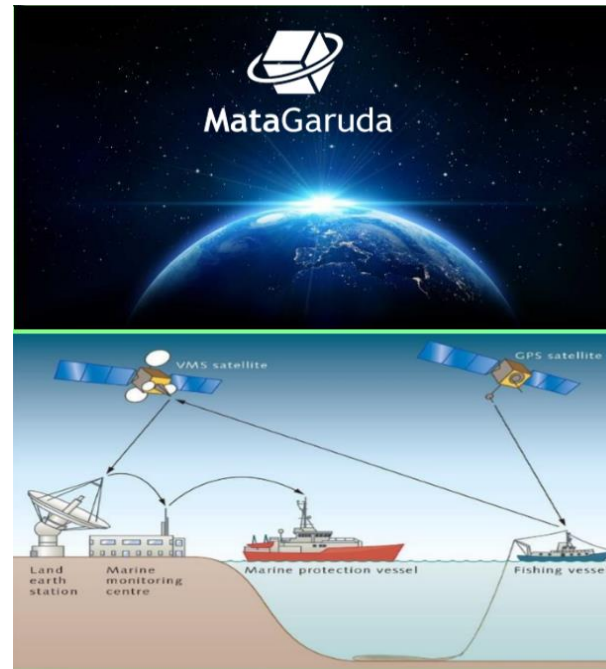


LOGIN

Aplikasi layanan logistik end to end via darat yang mampu mengintegrasikan berbagai jasa pengiriman logistik.



Bike Sharing 5.0+ Creating Integrated Digital Transportation Ecosystem In Jakarta



i-TDS

Digital technology, engine applications, which are engaged in CCTV video analysis and big data analysis to provide solutions for transportation system management.



CON SECURE

Integrated application give services to users In the **THIRD HAND OF SHIPPING** As well as **INSURANCE CORPORATION DOCUMENT PROCESSING**



Virtual Reality



Thank You

Ministry of Transportation
Republic of Indonesia