



# Transportation Research Position in Indonesia Nowadays

**Director General Research and Development Agency**

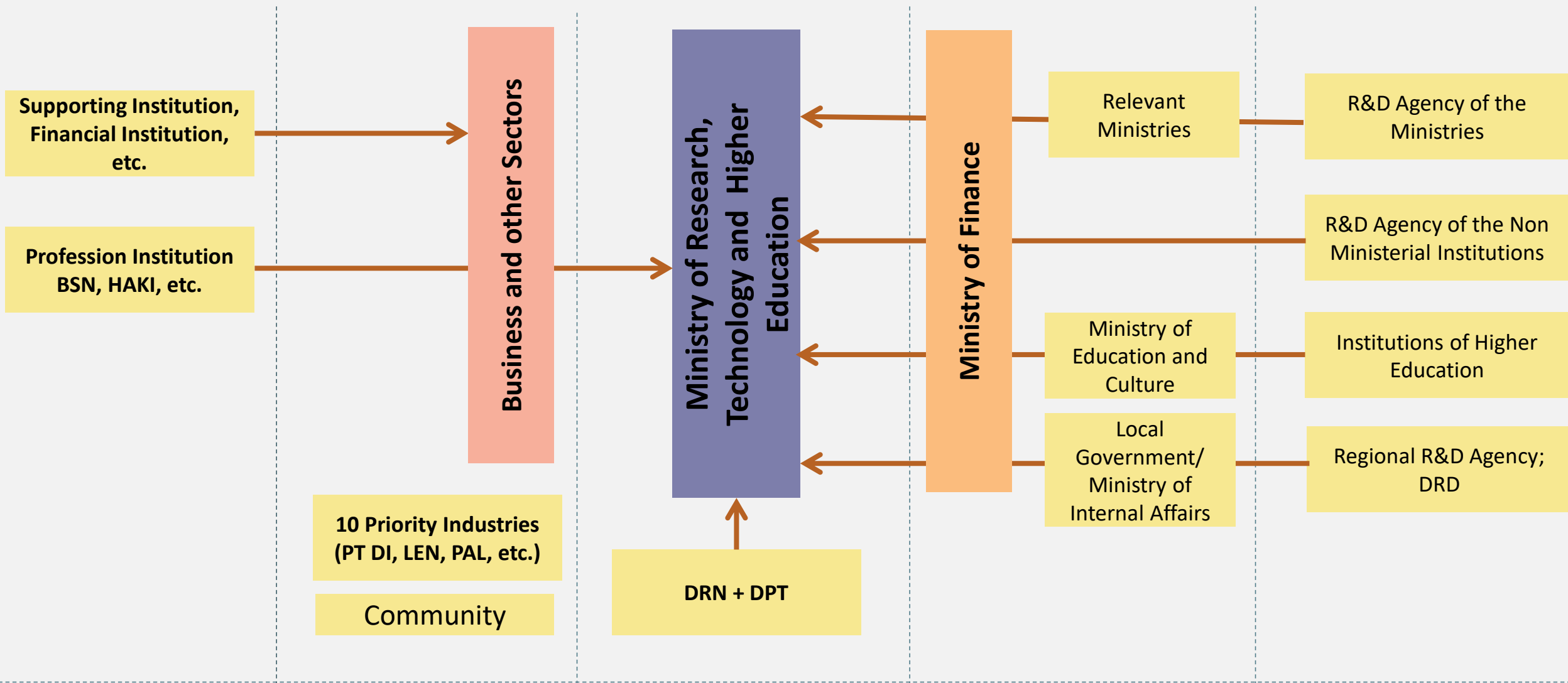
**International Conference of Research and Inovation**

Jakarta, 13 November 2019

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

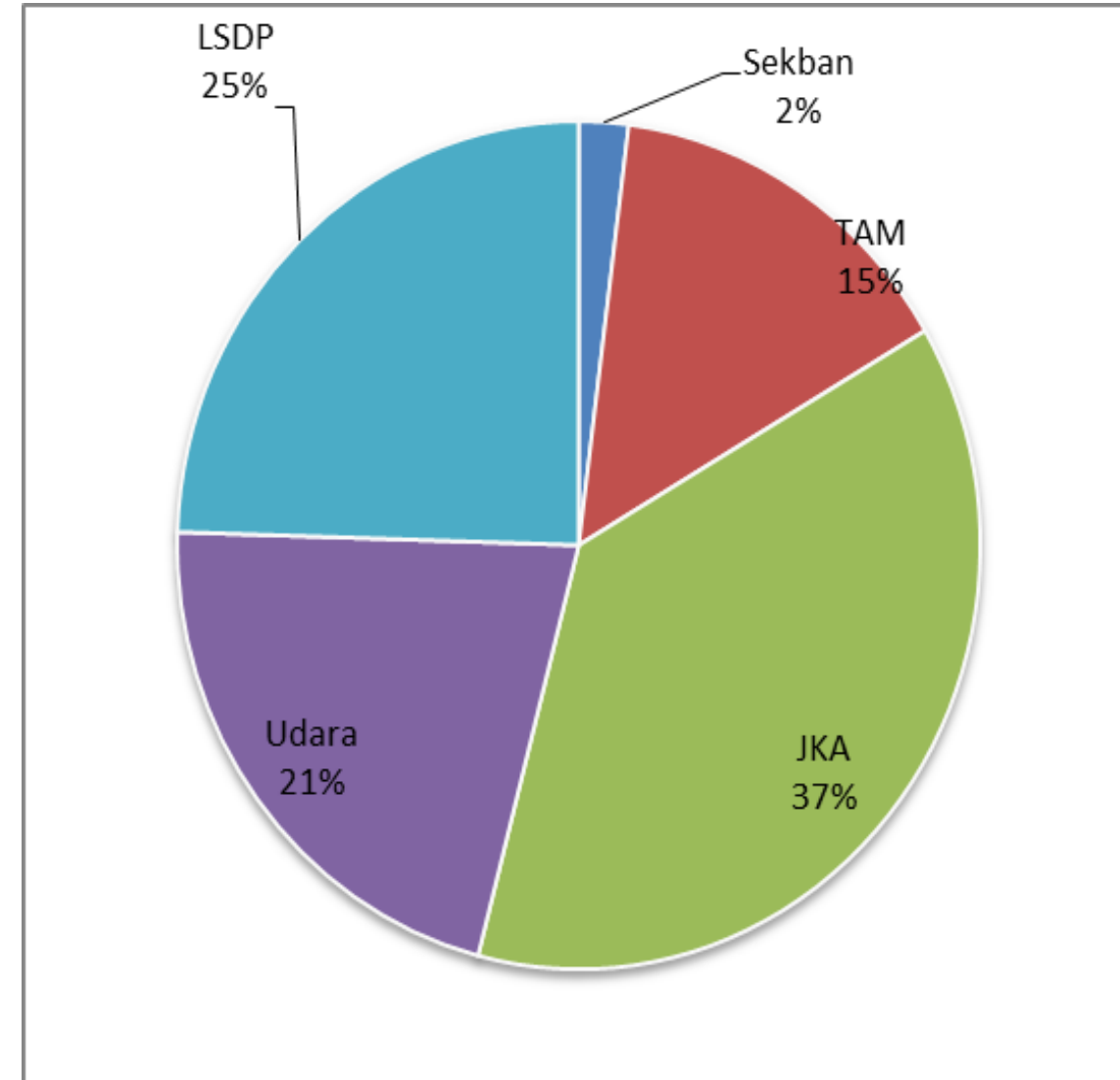


# Profile of Transportation R&D Agency

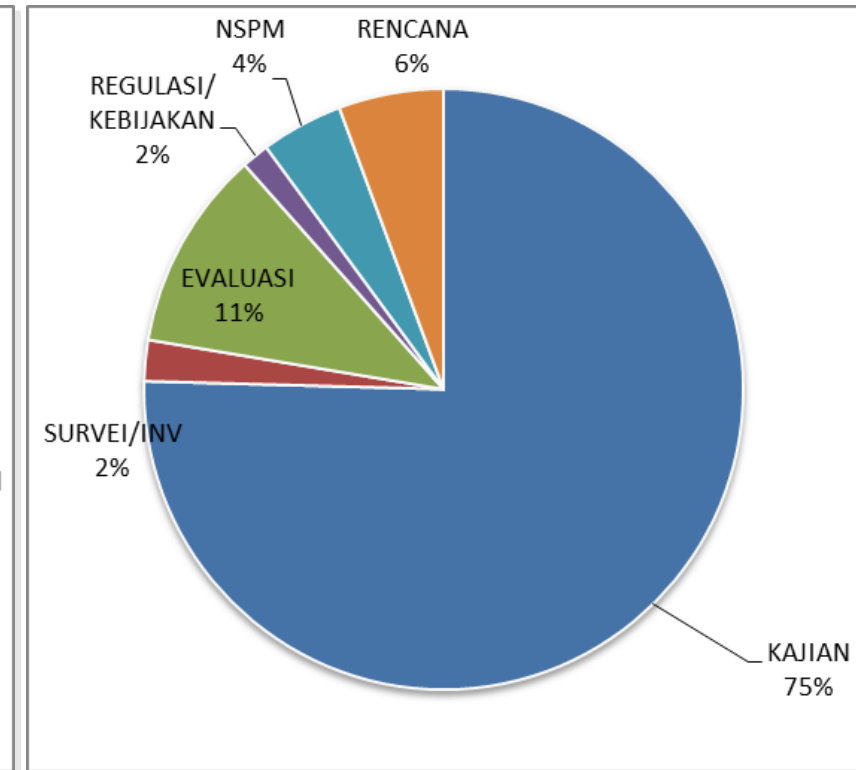
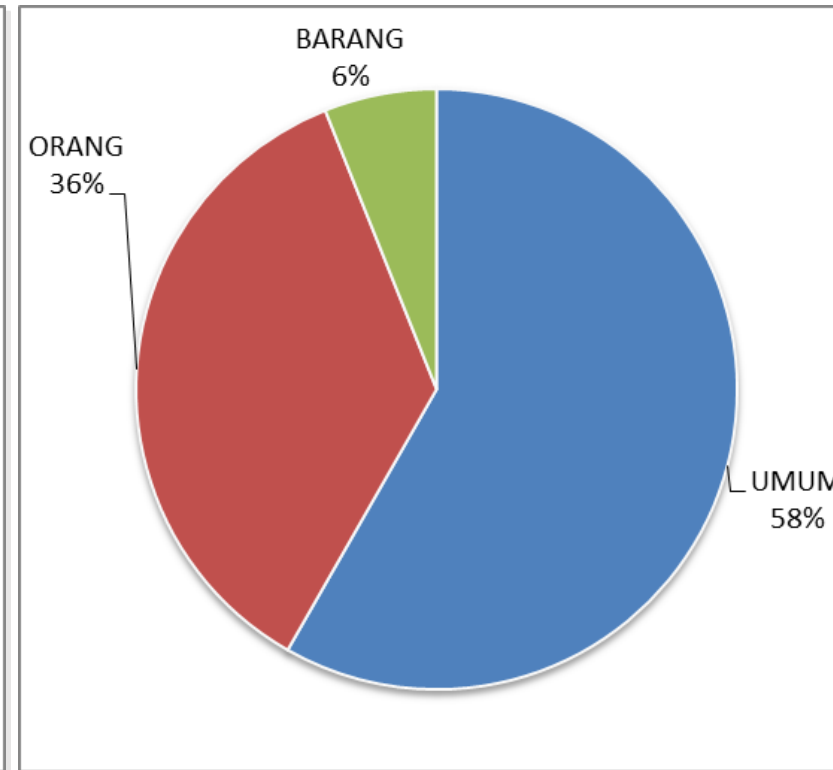
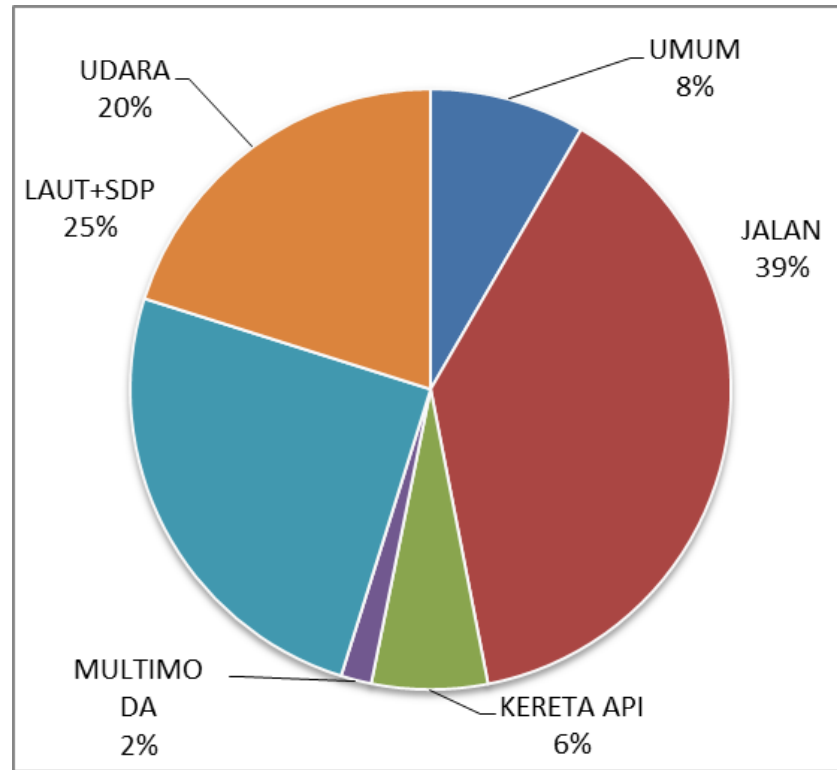


- During 2015-2018, more than 750 research activities have been carried out in R&D through 4 Centers and 1 Secretariat
- The largest portion is at the center of the road and railroad, followed by the sea and the air

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

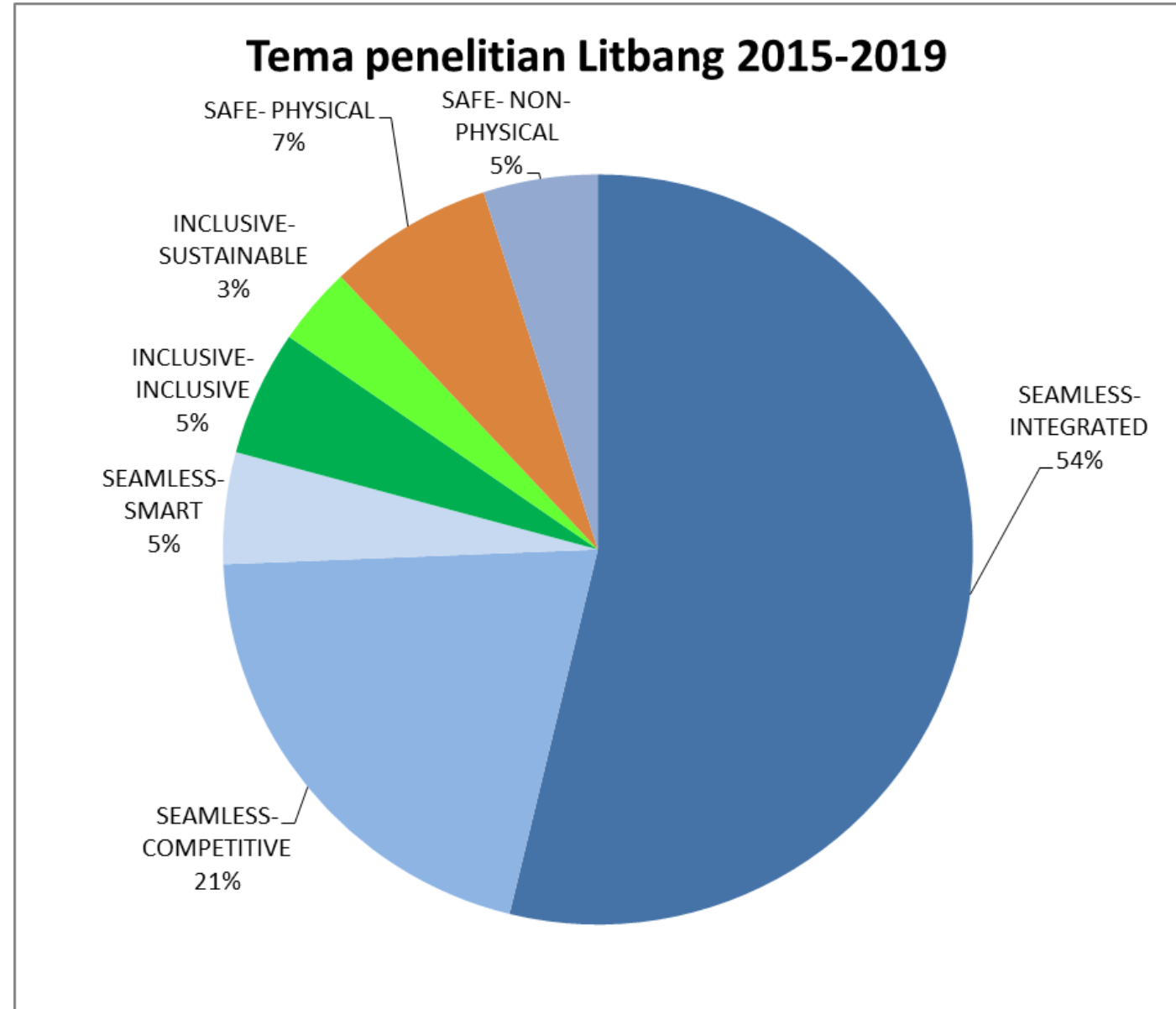
## Safety and Security

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

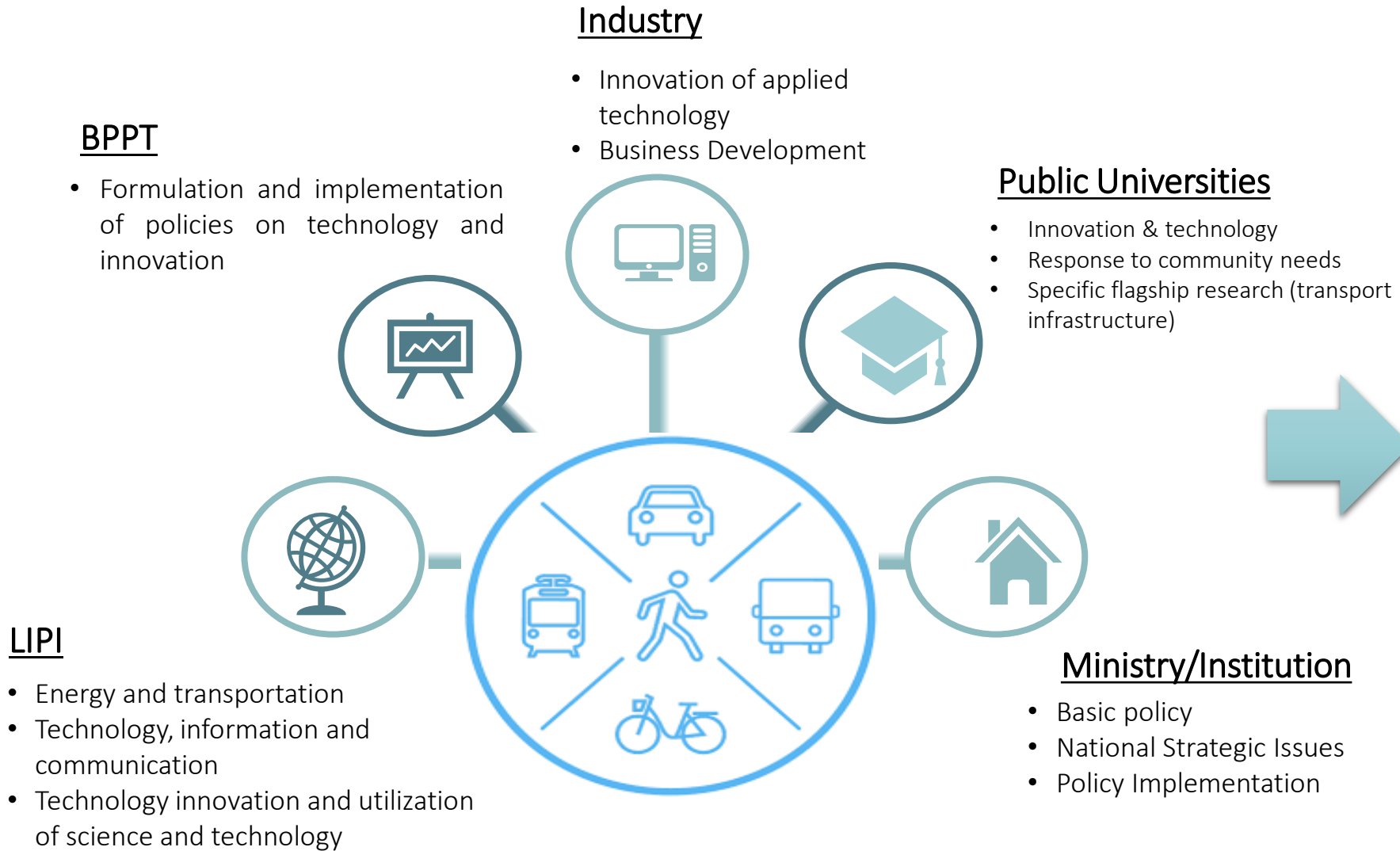


# Integration of Research Actors in Transportation Field



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 energyi 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

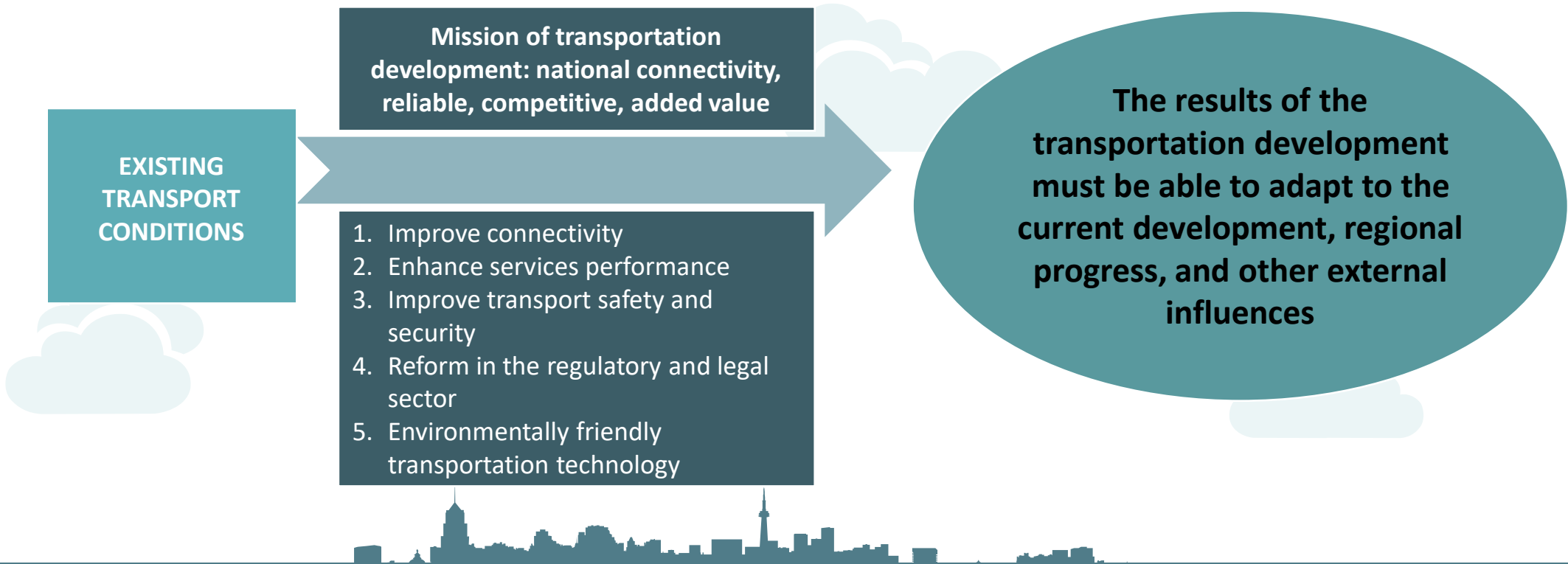




• The government through Law No. 11 of 2019 encourages collaboration/partnerships with local/foreign stakeholders to conduct research in a "technology transfer" forum

• 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

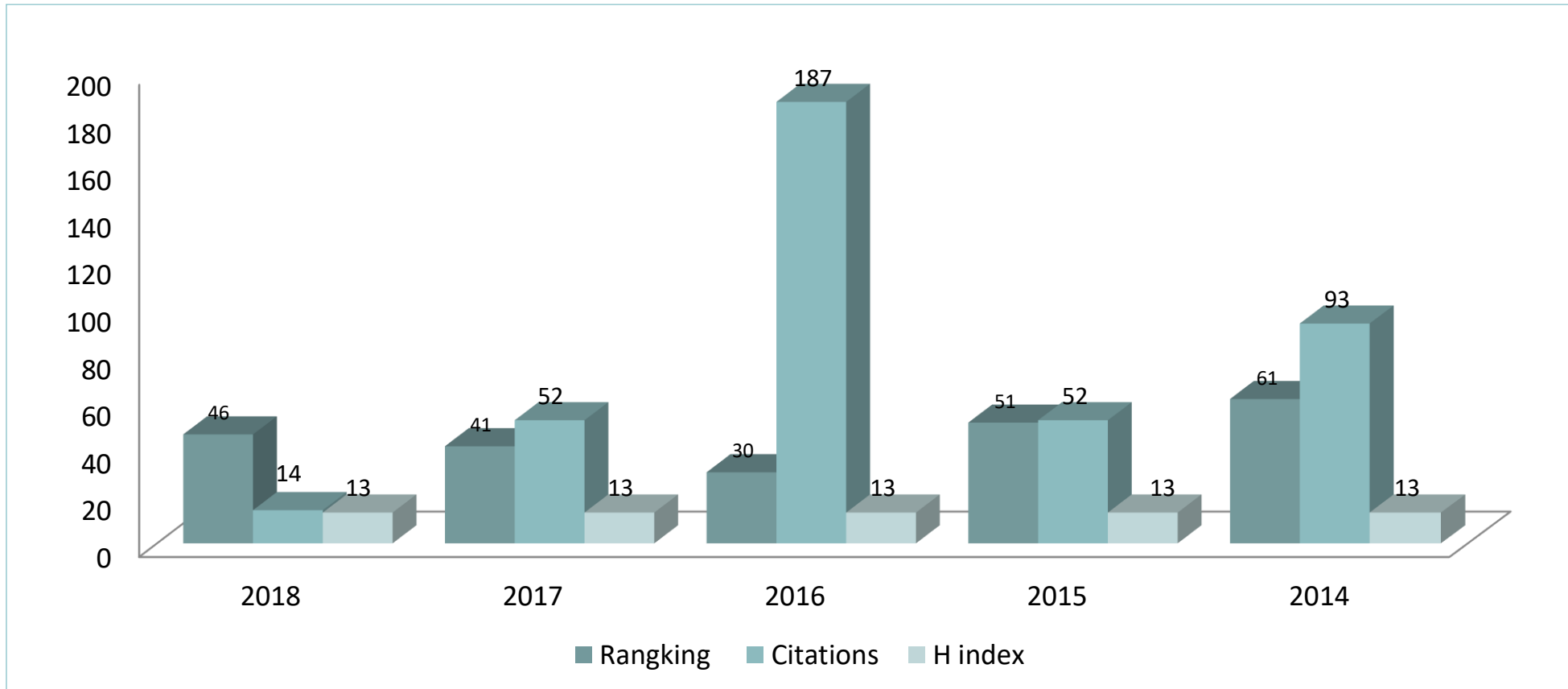
# Direction of the Implementation of Transportation Development



## 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

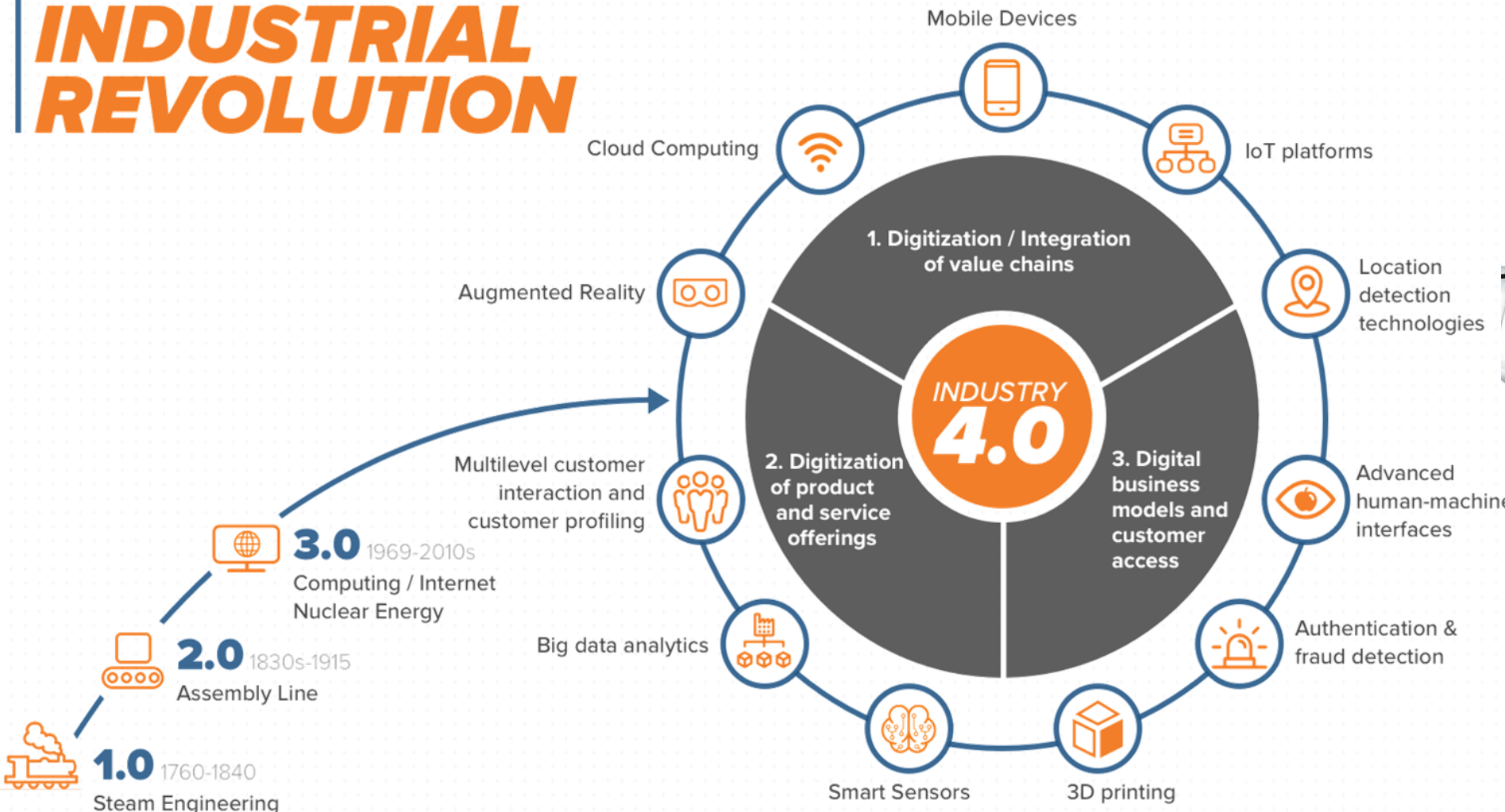
- Tahun 2018, in ASIA Regional The Indonesian International Transportation Journal ranks 11th

# 4.0 Challenge



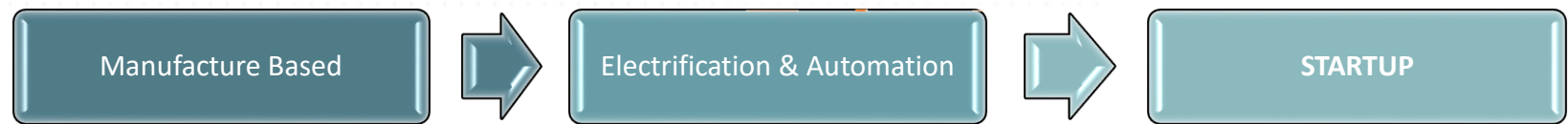
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## FOURTH INDUSTRIAL REVOLUTION

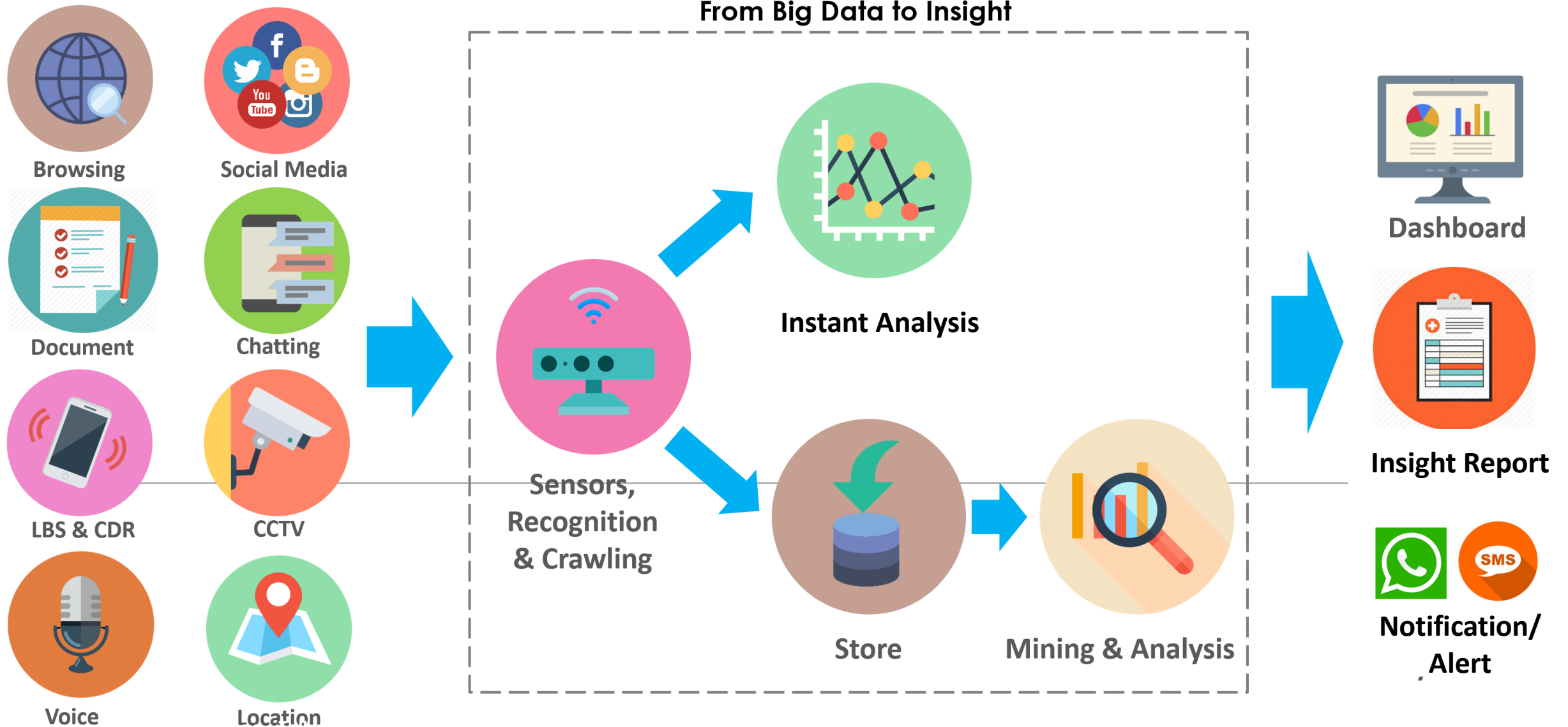


## Paradigm Shifting

### BUSINESS TREND SHIFTING



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



# Transhub Challenge

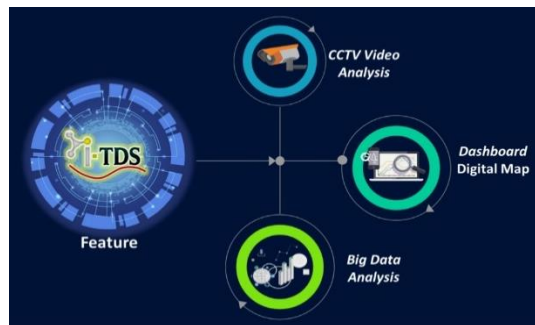
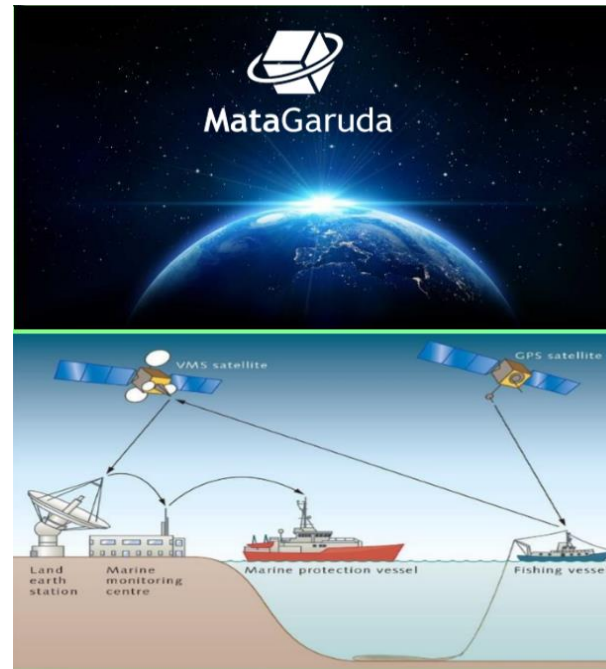


**LOGIN**

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

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Ministry of Transportation  
Republic of Indonesia