

Thriving with Transport & Urban Systems in Post Covid Era: Indonesia Perspectives

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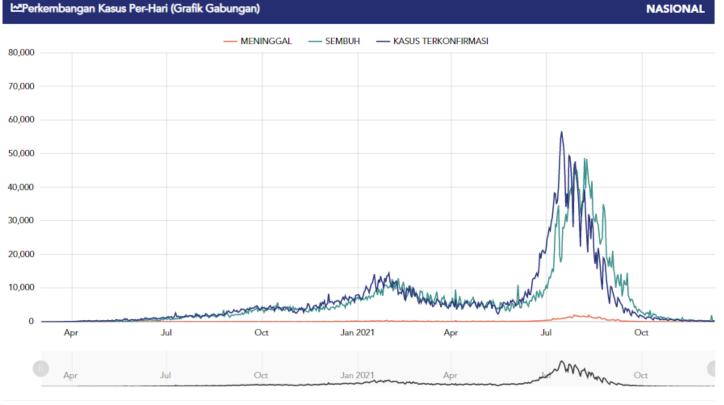
# How good do we learn from pandemic Covid-19 to change our transport behaviors...and thrive with it.

SUTANTO SOEHODHO

Universitas Indonesia

TASK FORCE T2 - G20

# Pandemic Covid-19 Condition in Indonesia



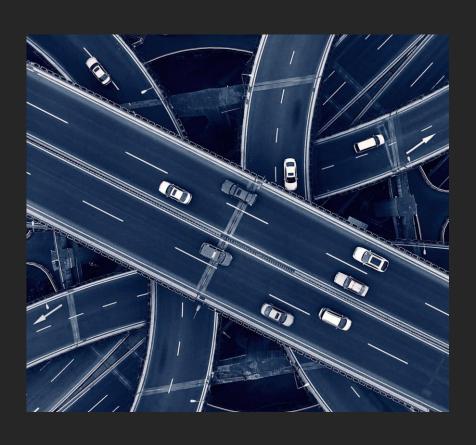






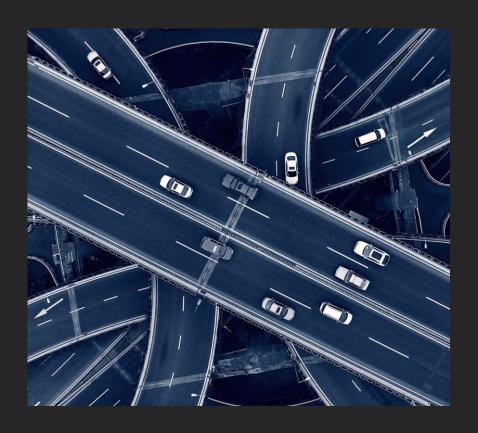


# Future Urban Expediency



- Less urban face-to-face activities
- Less office space required
- More working space required
- New urban trip patterns
- Flexible working hours
- Optimal last miles of person trips and goods movements
- More urban amenities for better life designed with smart atmosphere

## Transport Impacts on Economy



	<b>Total Energy Consumption</b>
Indonesia	43.11% (2020)
USA	
China	20.00% (2020)
	<b>Total Emission</b>
Indonesia	
USA	
China	

#### ICT Replacing People Movement

- New Pattern of Office Based Works (hybrid online-offline, product-based rather than timebased system, productivity rather than production)
- Reducing Person Trips
- Improving Traffic Performance
- Energy Efficiency
- Improving Environmental Quality





#### People Transport





#### PRIVATE-PUBLIC TRANSPORT;

SEAMLESS, INTERMODE,
INTERNETWORK,
RENEWABLE AND
ENVIRONMENTALLY
FRIENDLY ENERGY,
SMART ENFORCEMENT; EENFORCEMENT



#### SMART PUBLIC TRANSPORT;

SMART PLANNING AND OPERATION, SMART FINANCING, INTEGRATED PRICING POLICY NOT ONLY TICKETING, AFFORDABLE AND COMFORTABLE

#### Goods Movement /Physical Distribution /Logistics









Smart Supply-Chain Management

**No-Empty Backhaul** 

Integrated Transport-Warehouse Operation







Sound Last Mile Deliveries

Digital Logistics Data and Information Management

Real-time Optimization Process

# Financing Transport Sector

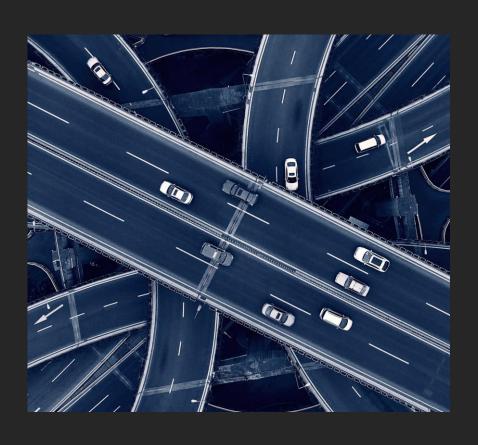


Public-Private-Partnership (BOT, BTO, BOO, VGF, AP, etc.)

Strategic Financing for Infrastructures and Facilities

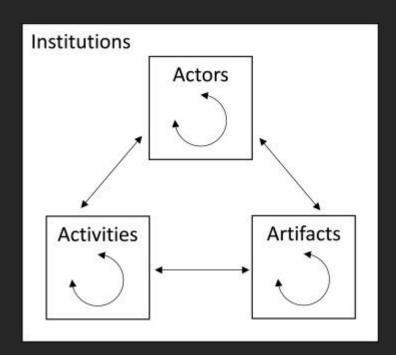
Earmarking Scheme of Fundings

## Future Transport Perspectives



- oPromoting more use of public transport and non-motorized transport (e.g., , bicycle paths, more incentive for public transport users and more disincentives for private vehicles)
- **Promoting more use of green and renewable energy**
- Obevelopment of more seamless goods movements (e.g., sea-toll)
- Digitalization and electrification of vehicle operations (e.g., e-enforcement, electric buses, digital logistics system operation)

## Transport Innovation Ecosystem



An innovation ecosystem is the evolving set of actors, activities, and artifacts, and the institutions and relations, including complementary and substitute relations, that are important for the innovative performance of an actor or a population of actors. (Ove Granstand & Marcus Holgersson, 2020)

How all related stakeholders work, in harmony, in the context of co-evolving, competition, and collaboration.

Safety issues could be the peak of iceberg to comprehend appropriate actions and resources onto transport system (e.g., system, technology, financing, management, control, etc.). (Sutanto Soehodho, 2021)