

ITS Driving for a Better Life

智能交通赋能幸福美好生活

Reforming Transport, Transforming Cities

William Sabandar ITS Indonesia







ITS Indonesia Rises to the Challenge

ITS Indonesia is a platform for the development of smart mobility and the development of a digital transportation ecosystem, which supports economic growth and recovery, equitable mobility, and environmental sustainability.



Action Plan ITS Indonesia



Digital Transformation for Transport Development



Integrated Urban Transport System



Electric Transport



Smart Driving & Logistics



Safety & Healthy Mobility



Our Commitment is to advance Indonesian Transport System as the backbone of transforming cities

Focusing on Customers Needs

ITS Themes 2020 - 2023

- 1 Smart Mobility Development
- 2 Digital Transportation Ecosystem Development
- 3 Supporting Economic Recovery and Growth
- Supporting Social Justice in Mobility Sector
- Supporting Environment Sustainability



Urban Commuters

Users of Urban
Public Transport as
enabler of urban
activities



Business & Leisure Travelers

Users of Public Transport Service in Tourism



New Normal Households

Users of Public Transportation Service for logistics





Artificial Intelligence 5G Network

Autonomous transport

Building Information System

Bio-Smart

Digital station

Tetra System

Super App

Metaverse

Modular Train

IoT

Smart Maintenance

Digital Twin

Automation & Robotic

TECHNOLOGY

Region

Jakarta

TERRITORY

Asia Pacific

World

National

2022: ITS to expand its role...

- to be responsive to increasingly rapid technological developments
- to understand the transformation of the latest mobility models and behaviour
- to move from Jakarta metropolitan areacentric to other cities in Indonesia
- to take a more significant role both in the Asia-Pacific region and the world

TRANSFORMATION

Mode Integration

Road pricing

Buy the service

Shared Mobility

Account Base Ticketing

Touch-less economy

Mobility as a Service

Transit Oriented Development

Green transportation

Health Protocol

EV Charging station



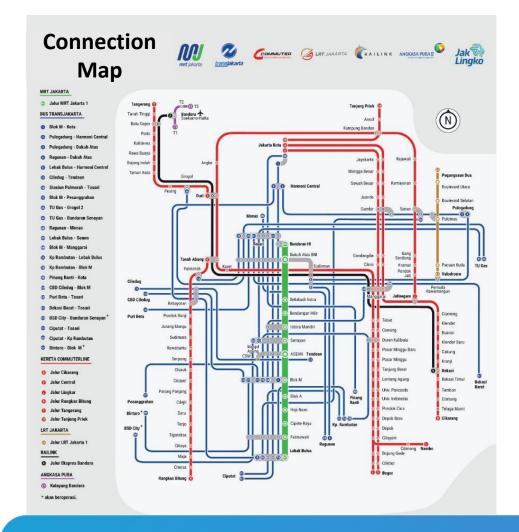








Integrated Public Transportation System





DUKUH ATAS BNI STATION



TRANSIT PLAZA LEBAK BULUS



INTEGRATED URBAN RAILWAY JV PT MRT JAKARTA AND PT KAI



PARK N RIDE LEBAK BULUS



INTEGRATION WITH TRANSJAKARTA ASEAN STATION



INTEGRATION OF BUNDARAN HI STATION WITH TRANSJAKARTA





Physical Integration between Modes of Transportation

1. The CSW
The Integration between TransJakarta bus stop and
MRT Jakarta ASEAN Station



2. Tanah Abang Station
Revitalization and area planning of existing
Tanah Abang Station











Service Integration

Feeder







Trunk











service integration makes it easier for people to travel from the first mile to the last mile





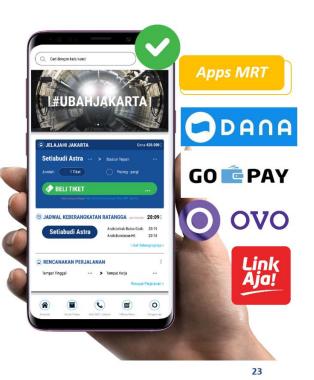
Integrated Payment System











2022

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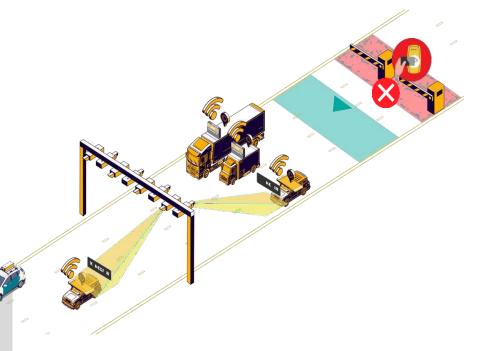
ITRS and Electric Vehicle Ecosystem







Multi Lane Free Flow (MLFF) based on a global navigation satellite system (GNSS) will be implemented from this year until 2023



President Joko Widodo conducts groundbreaking of electric vehicle industrial factory PT HKML Battery Indonesia

Collaboration between all stakeholders in EV ecosystem for the success of EV implementation in 2030





Electric Bus in Jakarta



100 electric buses launch in 2022





Bali







Bali Electric Vehicle Ecosystem in Support of G20

- 1. Collaboration between ITS Indonesia and EV partners supported by Minister of Transportation and Governor of Bali.
- 2. Electric Vehicle Showcase by Grab Indonesia, Hyundai Motors and Toyota Astra Motor
- Pilot initiative in Bali



















Electric Vehicle Ecosystem in Bali

- 1. PT PLN encourages the electric vehicle ecosystem in Indonesia by building a number of public electric vehicle charging stations. The realization of the charging station that has been built has reached 190 units by 2021, while this year's target is to build 580 units
- Toyota Astra Motor inaugurated the operation of the EV Smart Mobility project in Nusa Dua, Bali, March 2021. This car can be used by the public and tourists to support ecotourism in Bali.
- 3. As a concrete step to support the implementation of G20 Indonesia in Bali, Grab, handed over a unit of GrabCar Electric powered by Hyundai to the Provincial Government of Bali.

2022 CHENGDU

New Capital Nusantara









ITS Application Plan in the New Capital

The transportation systems that will be developed at IKN are:

- Air transportation, airport development will be carried out carrying the Aerotropolis concept that is smart, integrated, and pays attention to environmental ethics.
- Sea transportation, the use of autonomous ships for passenger and goods ships will be developed, the smart port concept and the traffic separation scheme (TSS).
- Land transportation facilities will be developed for pedestrians, bicycles, battery-based electric vehicles, and autonomous vehicles for bus transportation.

18TH ITS ASIA PACIFIC FORUM

CHENGDU



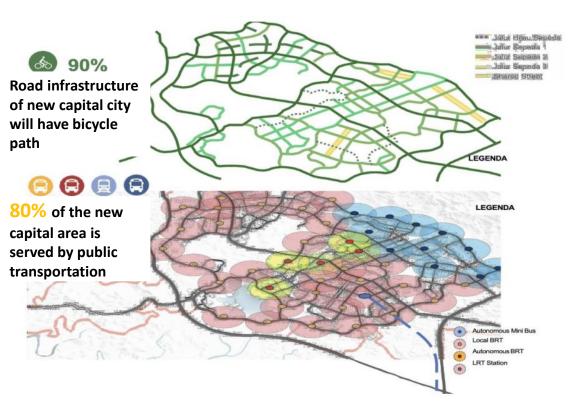


Framework of ITS in the New Capital City

Implementing ITS in the National Capital to realize safe and affordable, circular, low-carbon, comfortable and **VISION** efficient transportation through technology and innovation Consistent with the national Build sustainable and integrated Focus on results, make a real transportation master plan and the transportation infrastructure n in the contribution to solving significant **GOAL** national intelligent transportation physical, functional, system and future transportation challenges at IKN management system institutional integration 1. Target level: promote the application of ITS technology to build a transportation system in the new capital city effectively and efficiently LEVEL 2. Strategy level: building transportation system institutions and governance and allocating budget for ITS implementation in IKN, developing human resources in ITS field, research and development in ITS field, IT pilot project planning, developing implementation, evaluation, standardization, ITS integration. ITS-6 ITS-7 ITS-2 ITS-1 ITS-3 ITS-4 ITS-5 ITS-8 Advanced Commercial ITS Advanced Traffic Incident Electronic Traveller Autonomous GOAL **Parking** Public Vehicle Management Driving Management Payment Information Management Transportation Operation Control System System System System System System System Application of ITS in the nation's capital (2022 – 2026) **TARGET**

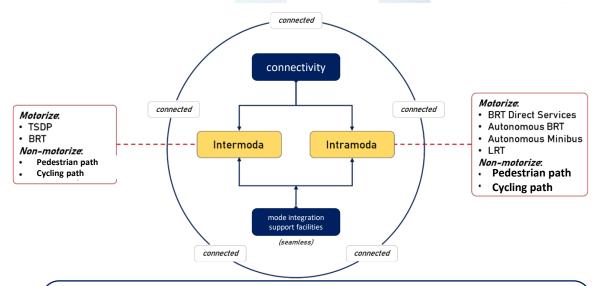


Infrastructure Plan for Land Transportation of the New Capital City



Green mobility policy and green infrastructure for the new capital

- 1. Pedestrian & bicycle path and public transportation connectivity.
- 2. Design a road network with priority for pedestrians and cyclists
- 3. Applying the principles of sustainable and green mobility
- 4. Transit-Oriented Development (TOD) on the transport node with a radius 400-800m reach.
- 5. Sustainable Infrastructure



The direction of land transportation development can be connected or can connect nodes of activities starting from the network and also existing transportation services

Further Collaboration





Opportunity for Collaboration

- ITS Indonesia facilitate collaboration for the private sector/business entities and the public to play a role in developing smart transport system in Jakarta, Bali and the new capital through the Government-Business Entity Cooperation Financing scheme.
- ITS Indonesia will create an ITS Hub, an incubator for various projects that will be carried out in the new National Capital.





THANKS

