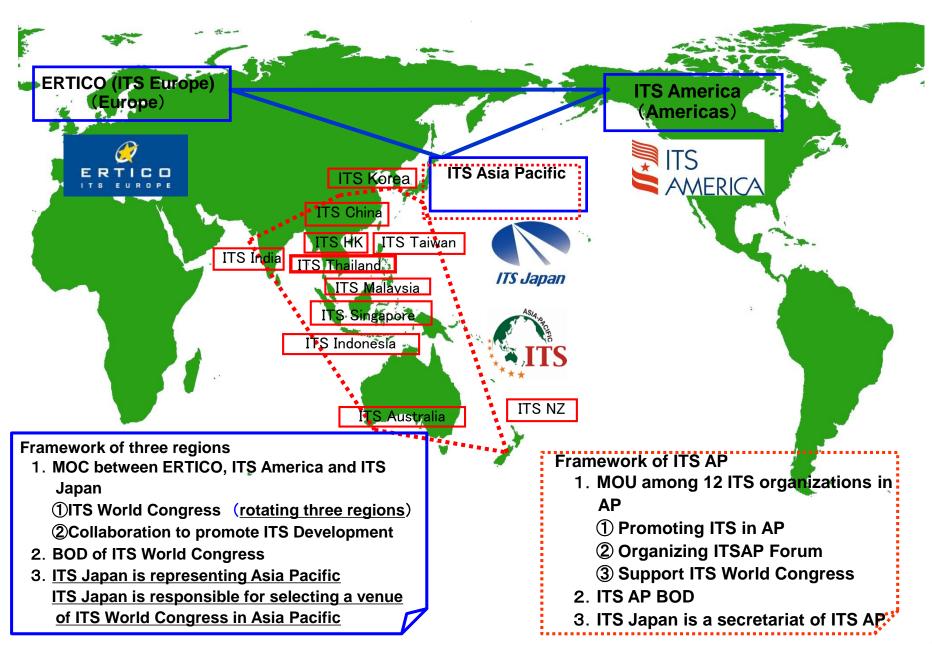
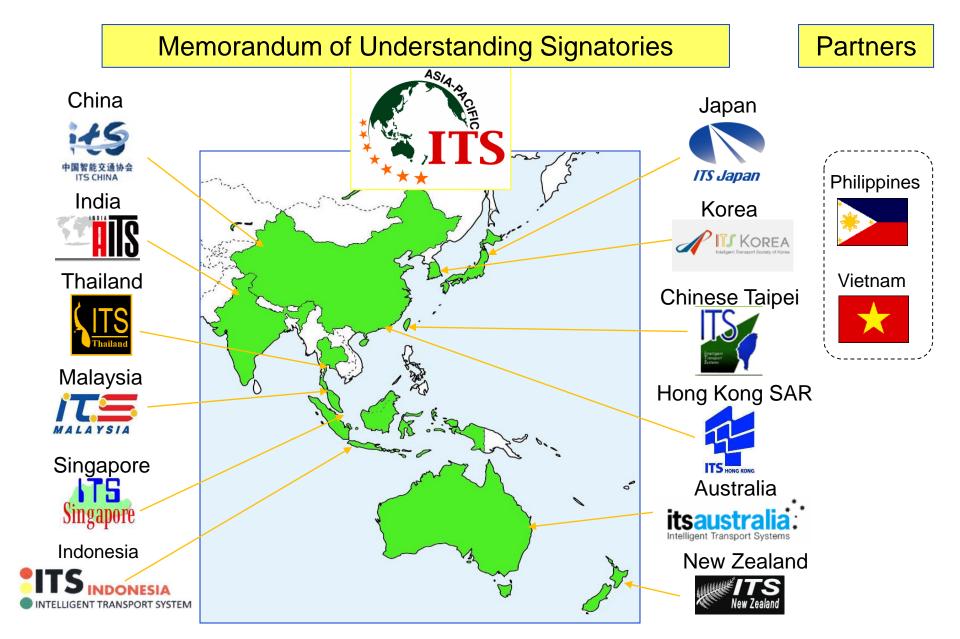
ITS: Global Context

Framework for the International Activity



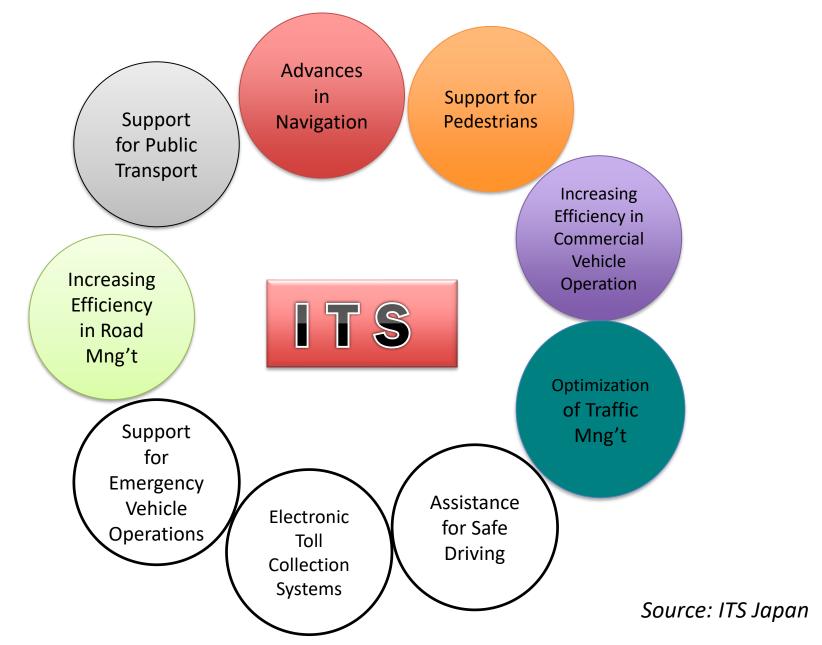
ITS Organizations in Asia-Pacific



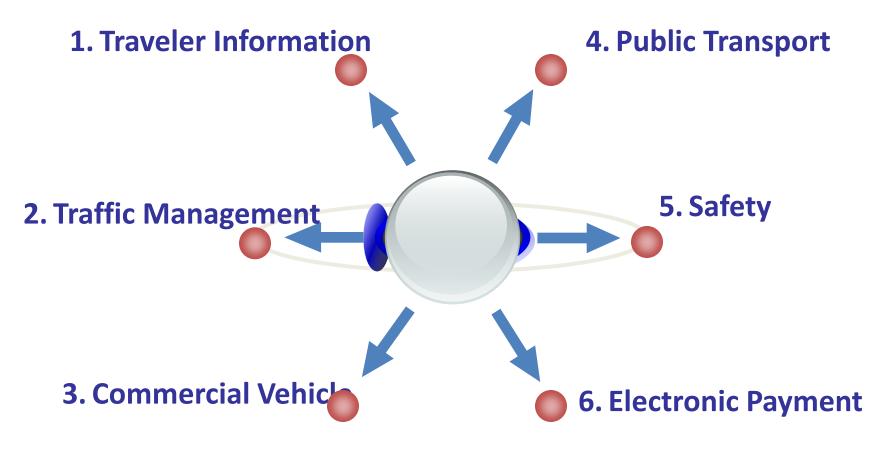
ITS in ASEAN Countries

Country	Year Established	Model
Singapore	2001	Private sector
Thailand	2005 (started as a Forum)/2008	Academe
Malaysia	1999/2008	Private sector
Indonesia	2011	Government

9 Areas of ITS Deployment: Japan



6 Areas of ITS Development/ Deployment: Thailand



Current ITS themes

- Intelligent, connected and automated vehicles
- Big data analytics
- Sustainable smart cities
- Multimodal transport of people and goods
- Safety for drivers and vulnerable road users
- Policies, standards, and harmonization
- Innovative pricing and TDM
- Cybersecurity and data privacy

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH)
METROPOLITAN MANILA DEVELOPMENT AUTHORITY (MMDA)

MEGA MANILA REGION HIGHWAY
NETWORK INTELLIGENT TRANSPORT
SYSTEM (ITS)
INTEGRATION PROJECT

RAIN VAT MERSTALL

JULY 2013

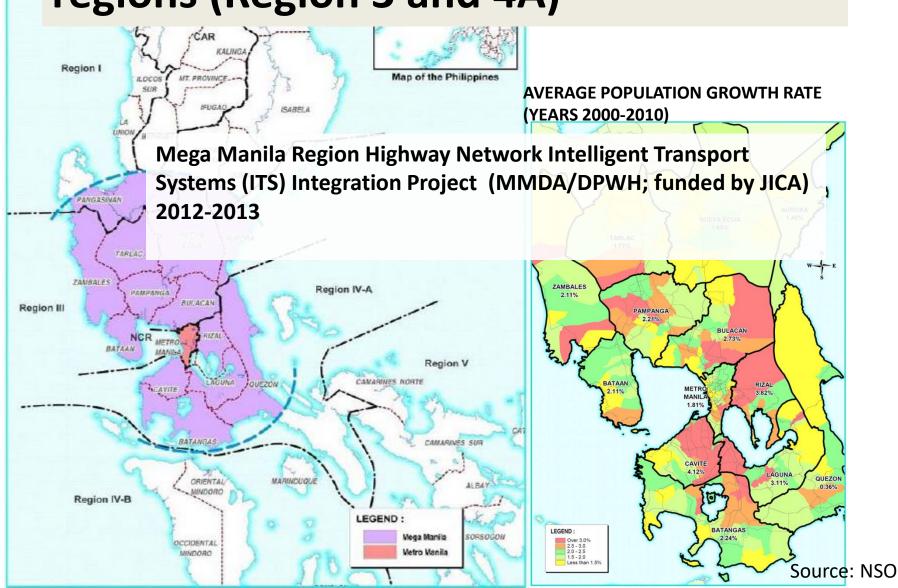
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

CTI ENGINEERING INTERNATIONAL CO., LTD ORIENTAL CONSULTANTS CO., LTD METROPOLITAN EXPRESSWAY CO., LTD MITSUBISHI RESEARCH-INSTITUTE, INC.

JR 13-155 (2)

Towards Development of ITS Framework

ITS Master Plan for Metro Manila +2 regions (Region 3 and 4A)



ITS Goals and Services

Major Transport Problems

Metro Manila

- Serious Traffic Congestion
- Limited Traffic Information
- Road Crash
- Aggravation of Environment
- > Bad Driving Manner
- Violation of Traffic Rules and Lack of Enforcement
- Paralyzed Traffic by Floods

Mega Manila

- Traffic Congestion
- Limited Traffic Information
- Bad Driving Manner and

Lack of Enforcement

- Paralyzed Traffic by Floods
- Low Rate of ETC Users on

Expressway

> Independent Operation By Each Toll Operator

Overall Goals of ITS Services

Congestion

To provide Safe,
Comfortable, and Less
Frustrated Travel
To Contribute for Sound
Environment

To Reduce Traffic

Targets of ITS Services to Achieve Development Visions

Metro Manila

- Improvement of Mobility
- Sound Environment
- > Safe and Comfortable Life
- with Less Road Crash
- > Reseliency to Natural Disaster

Mega Manila

> Faster and More Reliable

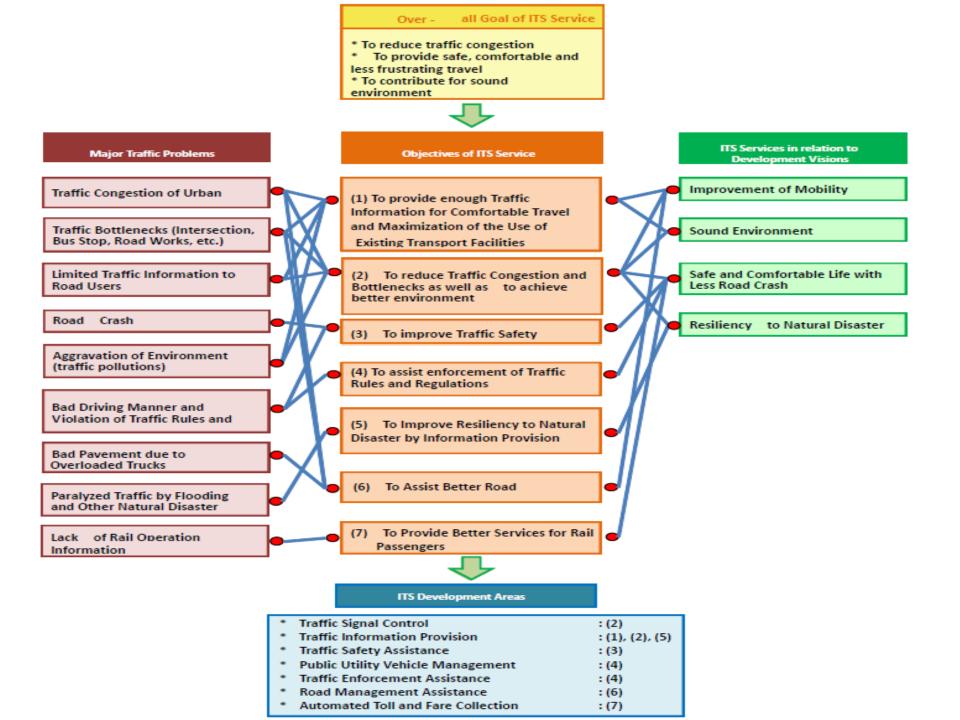
Travel

Safer and More

Comfortable Travel

- > Economical Travel
- > Environmentally Sound

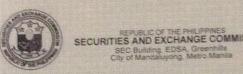
Travel



ITS Development Areas	ITS User Service
1. Traffic Signal	(1) Advance Traffic Control System at Intersections to improve
Control	traffic efficiency at intersections
	(2) Emergency Vehicle Priority System for safer lives of people
2. Traffic Information Provision	(3) Upgrading of Traffic Information Collection and Provision
Provision	System on real-time basis for faster and comfortable travel and to maximize the use of existing road facilities
	(4) Events Information Provision System to reduce traffic
	congestion at and around event sites
	(5) Route Guidance System to direct drivers to less congested
	routes to maximize the use of existing road facilities
	(6) Information Provision System for Temporary Traffic
	Bottlenecks to achieve less frustrating trips and to reduce traffic
	congestion at temporary traffic bottlenecks
	(7) Traffic Management System at Large-scale Shopping Malls to reduce localized traffic congestion
	(8) Parking Space Information Provision System to improve traffic
	flow in CBDs and for better road user service
	(9) Commercial Vehicles Location System for more orderly trips of
	commercial vehicles
3. Traffic Safety	(10) Danger Warning System to reduce road crashes to improve
Assistance	traffic safety
	(11) Pedestrian Safety Support System to reduce road crashes (12) Weather Condition and Prediction Information Provision
	System for safer travel and to improve resiliency to natural
	disaster.
4. PUV Management	(13) Bus operation Monitoring and Control System to reduce traffic
	congestion at bus stops and to eliminate illegal bus operations
	(14) Rail Operation Information Provision System for better
	passenger services
5. Traffic Enforcement Assistance	(15) Traffic Rules Surveillance and Control System to achieve smooth traffic flow and to reduce road crashes
Assistance	(16) On-street Parking Control to improve traffic capacity for
	smoother traffic flow
	(17) Over Speeding Control System reduce road crashes
	(18) Overloaded Truck Control System to provide better surfaced
	roads.
6. Road Management	(19) Upgrading of Road Condition Information Collection to
7 Toll/Fore Collection	improve Road Management and to Secure Service Level
7. Toll/Fare Collection	(20) Road Pricing System to reduce cars on the roads for smoother traffic flow
	(21) Common Ticketing System for easier transfer.

Prerequisite to successful ITS implementation

- Strong ICT
- Strong R&D
- Based on need; not a technology push
- Strong gov't. industry academe linkage
- Gov't. convinced that ITS is the way forward



COMPANY REG. NO. CN201505534 COMPANY TIN 008-986-637

CERTIFICATE OF INCORPORATION

KNOW ALL PERSONS BY THESE PRESENTS:

This is to certify that the Articles of Incorporation and By-Laws of

INTELLIGENT TRANSPORTATION SYSTEMS ASSOCIATION OF THE PHILIPPINES, INC.

were duly approved by the Commission on this date upon the issuance of this Certificate of Incorporation in accordance with the Corporation Code of the Philippines (Batas Pambansa Blg.68), and copies of said Articles and By-Laws are hereto attached.

This Certificate grants juridical personality to the corporation but does not authorize it to undertake business activities requiring a Secondary License from this Commission such as, but not limited to acting as: broker or dealer in securities, government securities eligible dealer (GSED), investment adviser of an investment company, close-end or open-end investment company, investment house, transfer agent, commodity/financial futures exchange/broker/merchant, financing company, pre-need plan issuer, general agent in pre-need plans and time shares/club shares/membership certificates issuers or selling agents thereof. Neither does this Certificate constitute as permit to undertake activities for which other government agencies require a license or permit.

As a registered corporation, it shall submit annually to this Commission the reports indicated at the back of this certificate.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the seal of this Commission to be affixed at Mandaluyong City, Metro Manila, Philippines, this 19 to day of March, Twenty Fifteen.

FERD AND B. SALES
Director
Company Registration and Monitoring Department

Creation of ITS Philippines organization in March 2015.

ITS Organization

 AIM: bring together the professional interests of those in public and private organizations, practitioners, academicians and researchers related to ITS, and create opportunities for networking and interaction.