

VIETNAM TRAFFIC SAFETY FOR 2 WHEELERS: CHALLENGES AND STRATEGIES

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Content

- Vietnam Demographic-Society and Transportation System
- Traffic safety in Vietnam
- Strategies and Measures for 2 wheelers and electrical bikes in Vietnam traffic up to 2020,
- Q&A

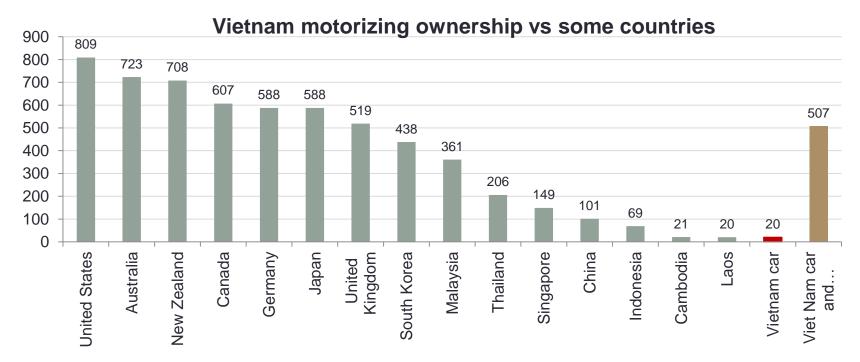
Vietnam Economic Conditions, Demographic-Society, and Environment

Economic:

- Stable growth at high rate (6% p.a 2000-2014) and will continue in the future (Govt.'s target > 6% p.a., 2015-2020)
- Successful in poverty alleviation (Percentage of households with income of under national poverty line 2005/2013 = 22% / 7,8%)
- GDP: 2000 USD per capital
- Demographic and Society
- Fast and high risk of uncontrolled urbanization by illegal migration [Urban population 19% (1986) ->25% (2002) ->34% (2012)].
- Gradually increasing of social gaps and conflicts;
- Environment
- Declining air quality in major cities: motorized traffic is the main polluter;
- Increasing energy consumption and CO2 emissions (25.8%/year, 1990-2005)

Motorization in Vietnam

Car ownership (car/1000 people)



- Motorizing vehicles increase at rapid speed (annual growth rate is 7.3% for motorcycles and 6.3% for cars, 300.000 cars and more than 3 millions motorcycle newly registered every year (data for 2014), which is equal to 850 new cars and 9000 new motorcycles every day)

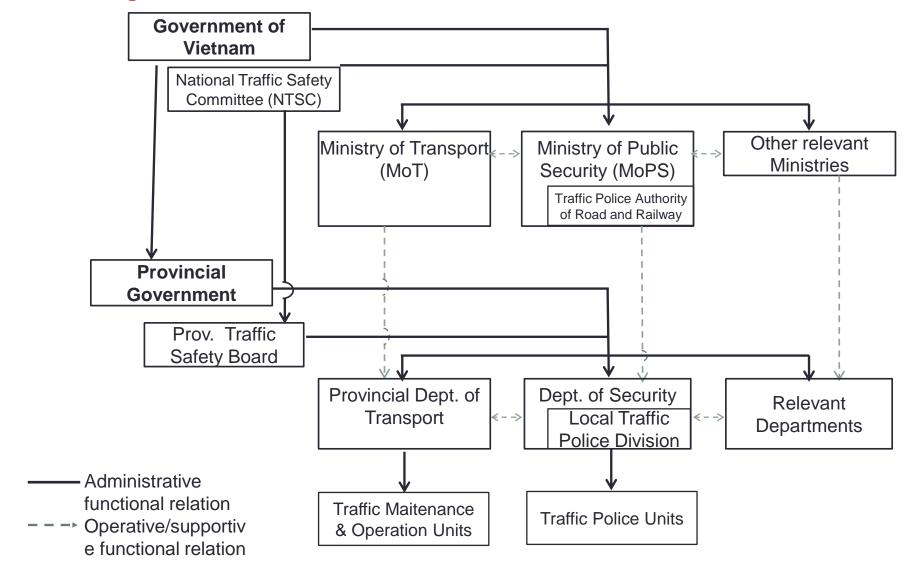
 Road density: 0.3 km/km2 and 1.12 km/1000 people

Vietnam National Statistics Office, Other country data for 2010-2014 period 2014

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Traffic safety in Vietnam

NTSC Organization



Transport System Management Policies

Transport infrastructure:

- Transport Infrastructure is improving but still over-loaded;
- Restructuring of investment toward other modes, but road is remaining dominant;
- Road Maintenance Fund (RMF) starts its importance;
- PPP investment and operation (Road, IWT, Aviation, Maritime and Rail);
- Clear prioritization in infrastructure development;

Vehicle management policies

- Easing of policies on domestic road vehicle industries;
- More consideration on vehicle quality management;
- Keeping high access price for individual motorized vehicles;

Commercial Transport Services

- Decentralization in Administration: Privatization
- Transport Market Restructure: Enhancing capacity and quality of Aviation (LCC) Railway, Inland Waterway, Coastal and Maritime
- Comprehensive Incentive Program on public transport investment and operation;
- IT application in commercial transport administration (GPS Monitoring device is required for all commercial vehicles)

Resolution of Government 88/NQ-CP dated 2011

- Aimed at 5 major areas of traffic safety:
 - 1. Road Traffic Safety
 - Control the drinking drivers;
 - Maintain and improve the wearing helmet; Enforce the teenagers in motorcycle driving;
 - Educate traffic safety in the schools;
 - Improve the traffic safety emergency;
 - Improve the traffic safety culture propaganda;
 - Enhance the management of commercial transport business;
 - Improve traffic management, traffic control, and safety of transport infrastructure;
 - Improve traffic inspection and enforcement;
 - Improve the management in driving training and test;

Resolution of Government 88/NQ-CP dated 2011

- 2. Railway Safety
- 3. Aviation Safety
- 4. Maritime Traffic Safety
- 5. Inland waterway Safety
- ...and strengthen the institutional management efficiency:
 - □ Improve the institutional management efficiency from the Central Government to the Local;
 - □ Continue to enhance National TSC and Local TSC:
 - □ Capacity Development for traffic safety from Central to Local Agencies

Significances of implementation:

- □ Reduced ~2,400 fatalities during 4 years, from 11,395 (2011) to 8,996 (2014);
- □ Reduced ~9,000 injuries during 3 years, from 33,411 (2012) to 24,417 (2014);

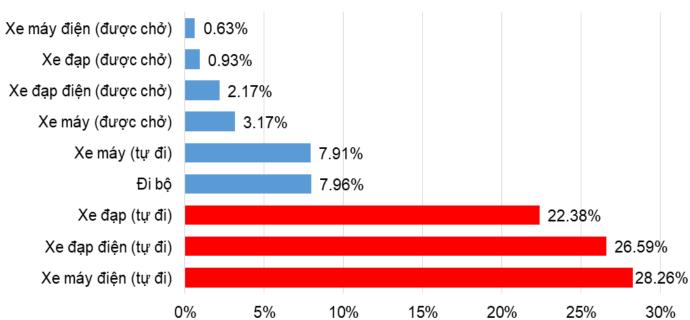
The use of 2 wheelers

- Population: 90 millions (National Population and Housing Survey, 2014)
- Relative young population (94,7% of population < 64 years old)
- Motorbikes: closed to 46 million registered, → 1 motorbikes per 2 people
- 96% of Vietnam motorbike market belongs so these 4 manufacturers: Honda, Yamaha, Suzuki, Piaggio.
- On average, 3 million new motorbikes sold annually in VN; by 2020, the total number of motorbikes in circulation could be up to 60 million.
- Motorbikes in no doubt is the most popular mean of transportation in Vietnam
- 80% of population uses motorbikes everyday
- Closed to 70% road accidents involved motorbikes



Case study on Hanoi highschool traffic accidents





High school students are the most vulnerable road users in Hanoi:

- ≥90% road crash victims are high school students;
- ➤ Death ratio per 100.000 high school students due to traffic accidents in Hanoi is rather high compare to other cities in South East Asia.

Main causes included: error while passing, error while changing lanes, wrong lane, speeding...55% of traffic accidents caused by motorbikes and electric bikes

Causes of these shortcomings

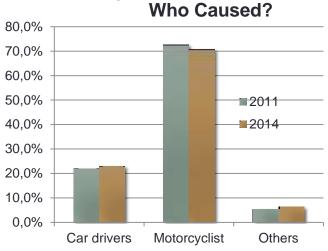
Infrastructures

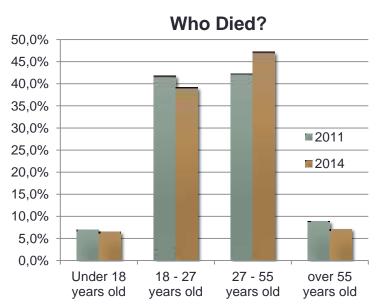
- Separate lanes for bicycles: not available
- School zones
- Violations of pavement usage
- > Drop off area: not available

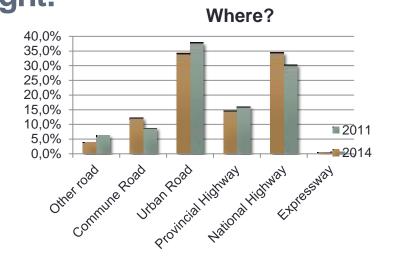


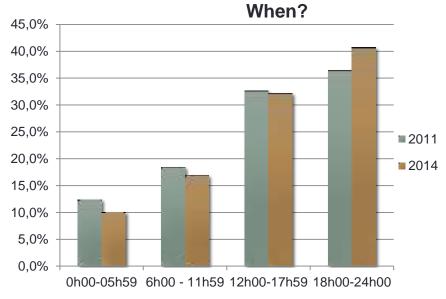


Traffic accident in Vietnam Motorcyclist – Rural- Youth- Night!

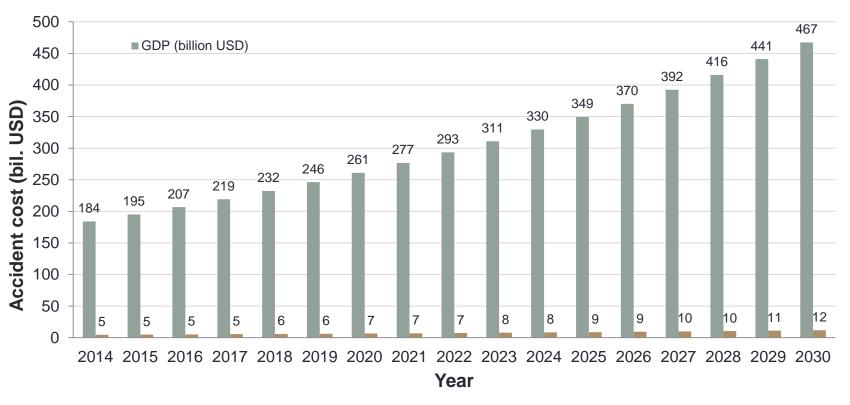








Traffic accident in Vietnam Costs



- Based on assumptions: GDP growth 6% annually and traffic accident cost accounts for 2.5% of GDP.
- Accident cost per year: 5-12 billion USD, total traffic accident cost 2015-2030 period: 130 billion USD!

Sources: Based on initial inputs in WHO Global Status Report of Road Safety 2013 and Vietnam National Statistics Office 2014

Good Practice: Vehicle Free Street - Hoan Kiem Lake!







Good practice: Helmets

Since 15/9/2007: Helmets must be worn for motor cyclers on ALL national highways Since 15/12/2007: Helmets must be worn for motor cyclers on ALL ROADS including city roads







Challenges: 2 wheeler Users

Awareness

- Road law is still unofficial in the education program in schools;
- Unaware on the traffic law, especially road law;
- Naturally make violations: Signal violation; Lane violation; ...

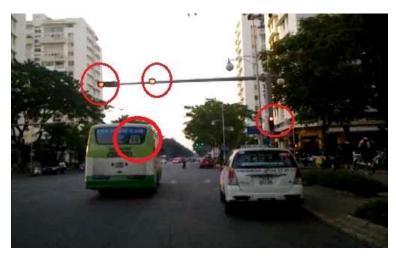
Custom

- One of the top countries in the world consume alcohol (wine and beer);
- Popular drinking and using vehicles;

Road user behavior

- Uncooperative or selfish;
- "Young phenomenon" in driving behavior;
- Road users make violation because of the others make violation;





Challenges: Others

- Motorization (Motorcycles and Cars)
- Law enforcement capacity
- Traffic Safety Education and Promotion
- Infrastructure capacity and safety
- Technologies (Database & Coordination)
- Resources (Financial and Human)





STRATEGIES

- Alternatives for Individual motorized vehicle travel
 - Improvement of public transport services
 - Strengthen of Sharing transport services
 - Active mobility promotion (walking, cycling)
- Control usage of car and engine motorcycles
 - Vehicle quality control (technical and emission standards)
 - Driving & Parking Pricing
 - Driving & Parking right Control
- Safer mobility environment
 - Infrastructure Maintenance Management System (safe road surface traffic markings, signs & signals...)
 - Designated lane and parking spaces for motorcycles and E-bike
 - Provision & protection of space for walking and cycling
 - Real time traffic monitoring & information systems

STRATEGIES

- Integrated Traffic Safety Database
 - Accident data
 - Driver data
 - Vehicle data
 - Infrastructure data
- Smarter enforcements
 - CCTV & automatic enforcement camera
 - Smart devices for policemen
- Reliable post-crash services
 - 30 minutes ambulance service standard
 - Pre-hospital treatment skill development
- Smarter traffic education
 - Comprehensive traffic safety education program for school system
 - Interactive traffic safety education methods
 - Social Network Based traffic safety campaign and education (TV, Video, Radio, KOL messages)

STRATEGIES: Alternative Modes for IMV Improvement of Walking Environment



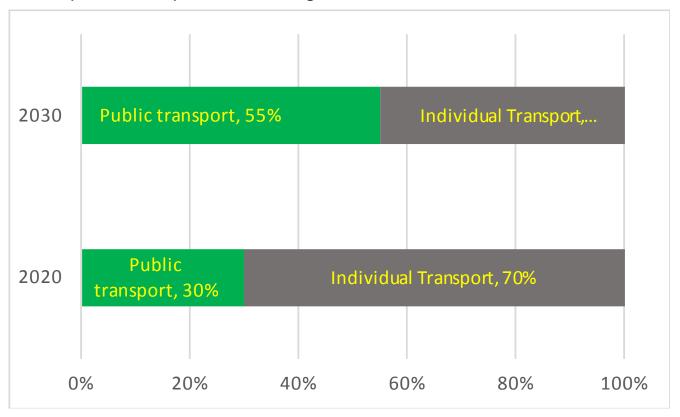






STRATEGIES: Alternative Modes for IMV Strengthening Public Transport Services

- Longdistance and regional public transport improvement (Double 20): 80% travellers can access to public transportation within 20 minutes (by foot, bike, motorcyle taxi, local feeder services) & with waiting tie less than 20 minutes for replacing of long distance car & motorycle trips
- Urban public transport improvement (500m/10minute): 80% urban activities are within 500m walking distance to public transport with waiting time less than 10 minutes.



Strategies: Individual vehicle management

- Motorcycle Usage Control
 - Emission Test for Motorcycle (2018)
 - Motorcycle Inspection (2020)
 - Designated Motorcycle Restricted Zone (2030)
- Car Usage Control
 - Parking Control (Odd-Even Plate Number, I-Parking 2017)
 - Parking Pricing(2018)
 - Congestion Charging (2020)
 - Designed Car Restricted Zone (2030)

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Strategies: Traffic Safety Education

- Traffic Safety Education:
 - Road users;
 - School Children;
 - Public.

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Strategies: Post-crash services improvement

- □ First-aid posts,
- Rescue stations

Thank you for your kind attention

