



# Building digital societies in Asia: Making transportation smarter

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August 2015

# Digital societies and smart transportation

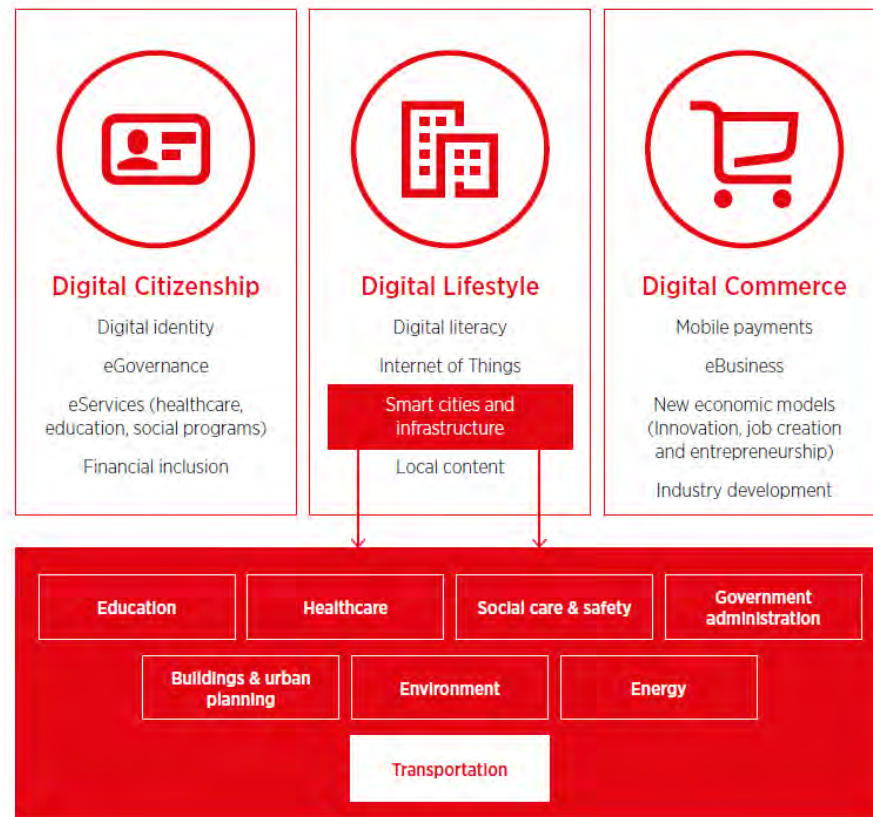


## What is a digital society?

Interaction between governments, businesses and citizens via digital technologies

Social and economic benefits around efficiency and productivity gains

Improved wellbeing and living standards of citizens



# Global transportation challenges

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- The number of motor vehicles is expected to grow from 1.2 billion today to 2.5 billion by 2050



- Commuters spend an average of eight days stuck in traffic each year. This wastes at least \$1 trillion of global GDP



- CO<sub>2</sub> emissions from transportation are expected to grow from 25% to 33% of the total by 2050



- Nearly 1.3 million people die in road accidents each year, equivalent to one person every 25 seconds

# Intelligent Transportation Systems as a Solution

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- More efficient and cost-effective transportation solutions are emerging: **ITS is one of the most significant**

ITS refers to

a proven set of strategies for advancing transportation, safety, mobility and environmental sustainability

by integrating communication and information technology applications

into the management and operation of transportation systems across all modes of transport

- The main stakeholders involved in the implementation of ITS are:
  - Connectivity providers
  - Automotive and electronics industries
  - Governments
  - Transport authorities
  - Research and academia
  - Commuters

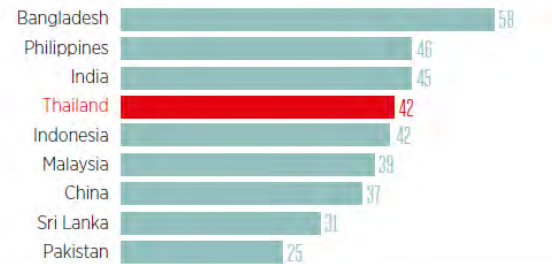
# Transportation challenges in Thailand



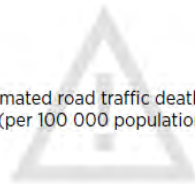
- In Thailand the average one-way commute time is approximately 40 minutes per journey



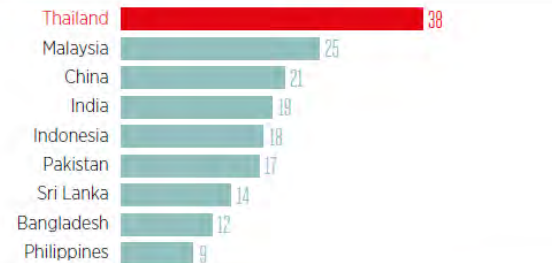
Average one-way commute time (minutes)



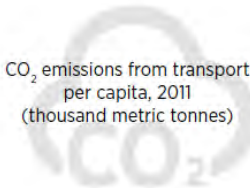
- Thailand suffers from an average of 38 road deaths per 100,000 inhabitants per year



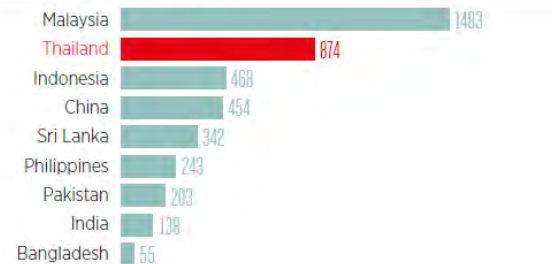
Estimated road traffic death rate (per 100 000 population)



- Thailand ranks among the top 10 Asian countries in terms of highest levels of CO<sub>2</sub> emissions per capita due to transportation



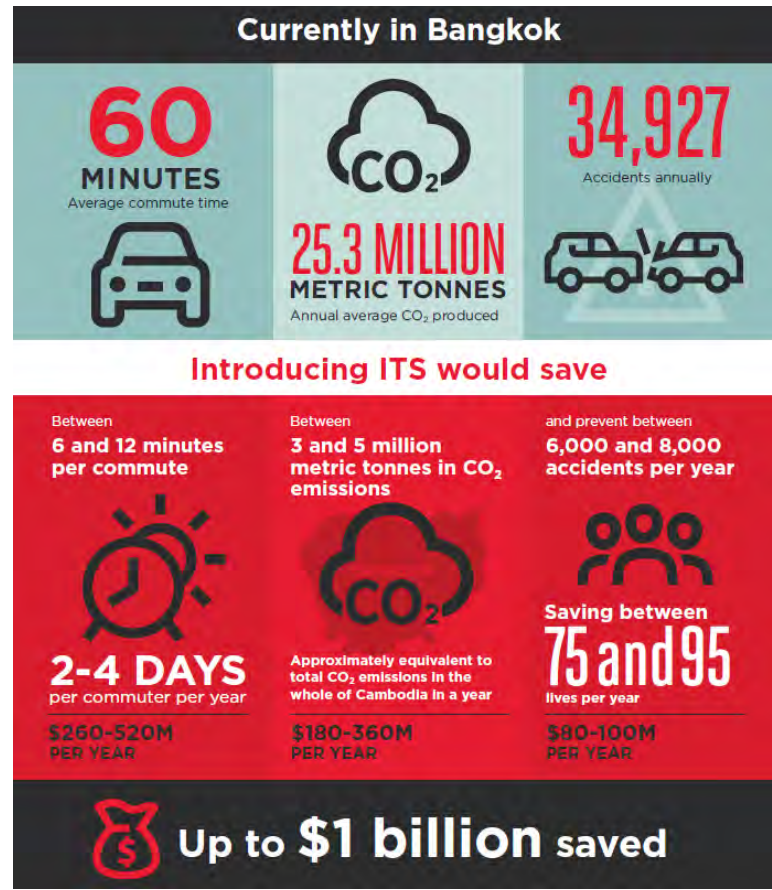
CO<sub>2</sub> emissions from transport per capita, 2011 (thousand metric tonnes)



Source: GSMA Intelligence, Numbeo, World Health Organisation, Thailand Pollution Control Department, Ministry of Natural Resources and Environment



# Bangkok – a case for implementing ITS





Thank you

August 2015