# Strategic Finance and Investment by JEXWAY

19 March 2015 Koji KURODA

President

Japan Expressway International Co.,Ltd.



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# 1. Role of Road Traffic in 21st Century

The 1st Industrial Revolution



The 2nd Industrial Revolution

A great contribution to economic growth



The 3<sup>rd</sup> Industrial Revolution

# From GDP to GNH

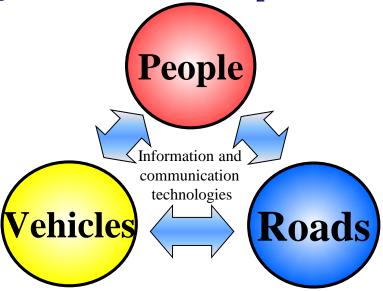
Maximize the happiness of the people by securing safety and comfort with information technology.



#### 2. For the 3rd Industrial revolution in Road

ITS is designed to integrate people, roads and vehicles in order to resolve road traffic problems such as traffic congestion, traffic accidents, environmental degradation and assets management..

- Traffic congestion time loss: 5 billion hours per year
- Traffic accidents: 660,000 accidents resulting in 4,400 fatalities(FY2012)
- Environmental degradation: 20% of all CO<sub>2</sub> emissions from transport sector





(Source:MLIT)

### 3. Value-Sustainable-Highways: Maintenance

#### ITS/ICT Technology on Expressway Maintenance

- make full use of an ICT technique and check-up road assets effectively.
- maintain the assets in a healthy state several decades later.



Pavement inspection using High-Speed Road Measurement Vehicle



Tunnel inspection using High-Speed Concrete-crack Measurement Vehicle

# 3. Value-Sustainable-Highways: Against Earthquake

The anti-earthquake bridge design regulation revised based on large-scale damages due to the Hyogo-ken Nanbu Earthquake(1995,M7.3).

Thanks to the revised regulation, no large scale damages observed in the Great East Japan Earthquake on 11 March 2011,





(Damages by the Hyogo-ken Nanbu Earthquake in 1995)





### 4. Environment-Friendly Road

#### ITS Spot Service(continued)

#### Dynamic Route Guidance

 Provide wide-area traffic congestion data to enable car navigation systems to select routes smartly



# Safety Driving Support

 Reduce close-call experiences by alerting drivers in advance



#### ETC

 Reduce congestion at expressway toll booths



#### Other services

- Cashless payment : e.g. Drive-through payment
- Internet access: Regional tourist and facilities information is available at roadside rest areas.



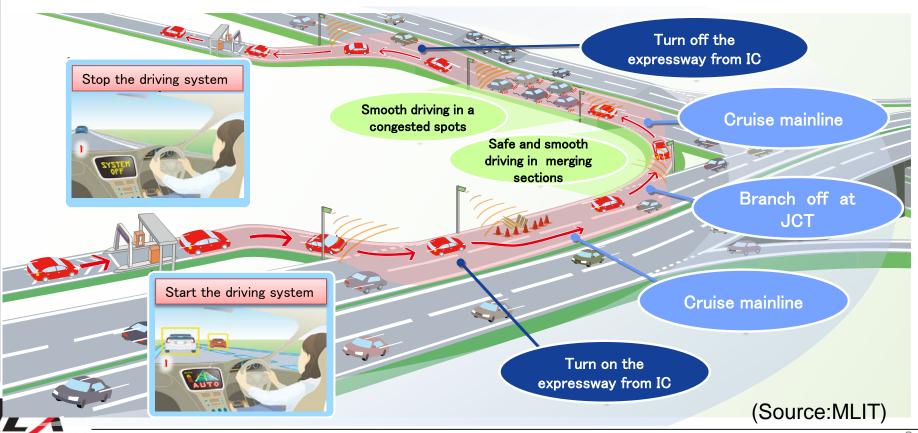


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(Source:MLIT)

# 4. Environment-Friendly Road

-Auto Pilot System will make a great contribution to reduction of congestion, traffic accidents and environmental loading (by early 2020s).



# The Future Times

Thursday, March 19, 2055

Two men injured by a traffic accident on Hirokoji Blvd for the first time in the decade. A virus is detected in the OBU.

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# 5. Strategic Finance and Investment by JEXWAY

1. The 3rd Industrial revolution

2. The Value-Sustainable, Resilient, and Environment-Friendly Road

3. Enhance GNH

