

ITS Development and Deployment in China

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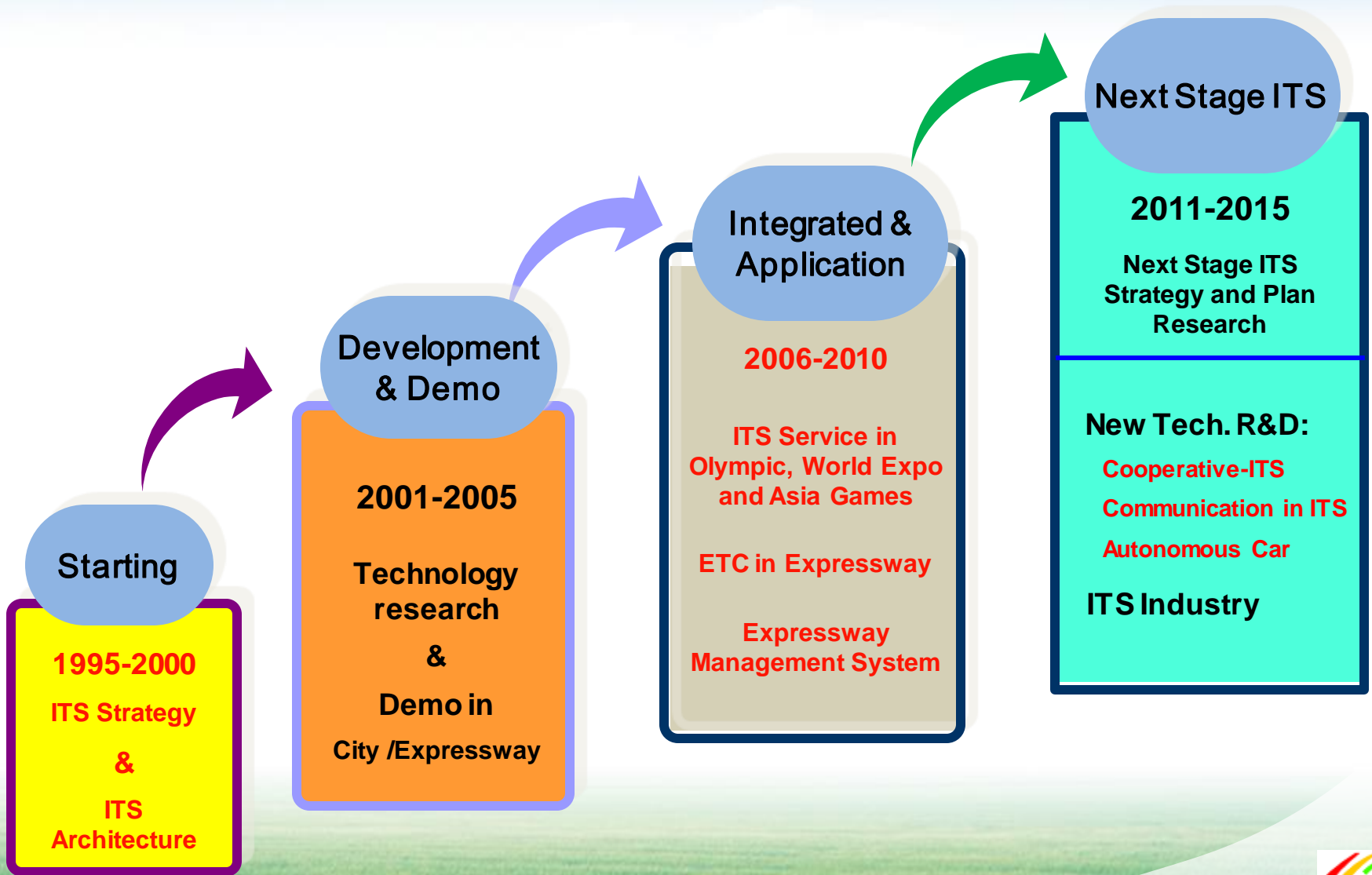
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Content

- ◆ Present Situation of ITS in China
- ◆ Strategy and Plan in Next Stage
- ◆ Policy and Step - Related ITS Deployment

I. Present Situation of ITS

1.1 20-Year Look Back in China



❖ Top View of ITS in China

- The National ITS Strategy has been generated
- National ITS Architecture and National ITS Standard Framework have been established
- Many ITS technologies have been applied in China and created new industries
- National and local ITS application system promote safety, flexible, and environmentally safe movement of people and goods
- Enterprises have become the main role in the ITS development

1.2 Current Status of ITS in China

❖ Traffic Information Services

- Become Popular
- Smart phone, Car-navigator, Website, VMS, Broadcast, ...

❖ Car Navigator

- Cumulative sales of on-board units: 65 million

❖ Market size of Car Navigation

- About 30 billion USD in 2015 (navigator, phone, map...)

❖ ETC

- ETC cover the total national expressway network
- More than 12,000 ETC lanes have been built
- 38 million ETC users
- ETC usage rate in Beijing: about 40-45%

❖ Network Reservation Taxi/Car Service

- Taxi hailing, Express, Private car service,
 - DiDi: more than 10 million orders per day
 - Uber: Reservation car service in 60 cities



❖ City Traffic Control Center

- Established in 256 Cities
- Monitoring Camera: 51 thousand

❖ Smart Public Transport and Service

- Smart Card: issued more than 430 million
- Smart Bus System: 26 cities have launched

❖ The Use of GNSS Big Data

- Traffic Index Service via GNSS and statistical data
- Spring Festival passenger transport forecast and service

❖ Commercial Vehicle Monitoring System

- National Platform has been built
- Online Commercial vehicle more than 2 million

❖ Online Ticket Booking (2015)

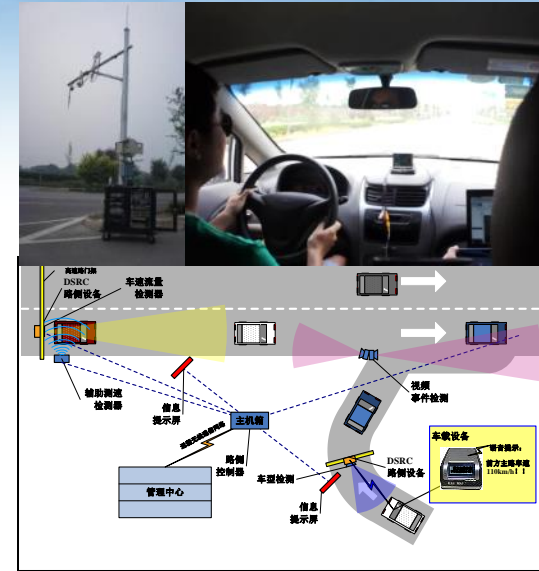
- Air : the online penetration rate is 59.2%
- Train : the online penetration rate is 70.5%
 - Via website: 42.7%
 - Via smart phone App: 27.8%



1.3 R&D in Recent Years

(1) Cooperative ITS

- Cooperative system for Highway Ramp Safety, in Beijing-Tianjin Expressway (2012)
- Technology Development on Vehicle and Road Cooperation (2011-2015)
 - On board system, Road side system, Communication and control, Integration



(2) Automated Vehicle Research

- Theory Research and Tech development
 - Research in cognitive computing of visual and auditory information
- Car Manufacturer Development
 - CHANGAN SAIC BAIC FAW



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https://www.yunbaogao.cn/report/index/report?reportId=5_2277

