Vehicle Network Application based on BeiDou/GPS



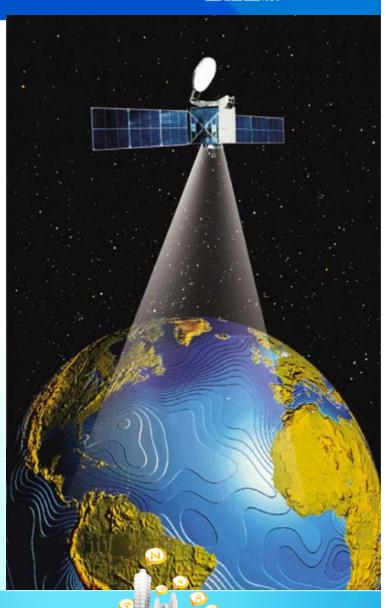
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Content



- The current statues of vehicle network industry
- Cloud platform of vehicle network service
- Conclusion



Vehicle Network Applications

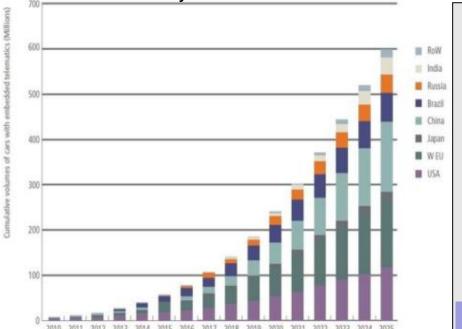




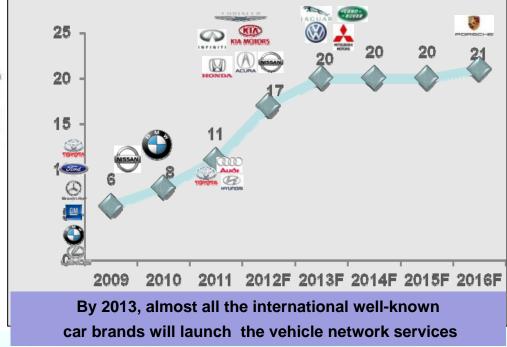
Global Market Situation of Vehicle Network



Cumulative increase in the number of the car with vehicle network systems



The rapid growth of the global vehicle network solutions



- Till 2011 the applications market scale of vehicle network reached 423.13 Billion
- 2012, The loading rate of vehicle network system in the developed countries is more than 25%
- ■Till 2025, there is expected to have more than **100 Million** vehicles equipped vehicle network system

 Source: MIIT Car Information Alliance



2/3 of the car in North America in 2012 to provide vehicle network services

Source: Internal Analysis

The market of China vehicle network grows rapidly



























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More and more car makers and system venders begin the development or application of vehicle network services

Industry scale Initially formed

Industrial Alliances are formed

■ Widely market demand

Vehicle network Application

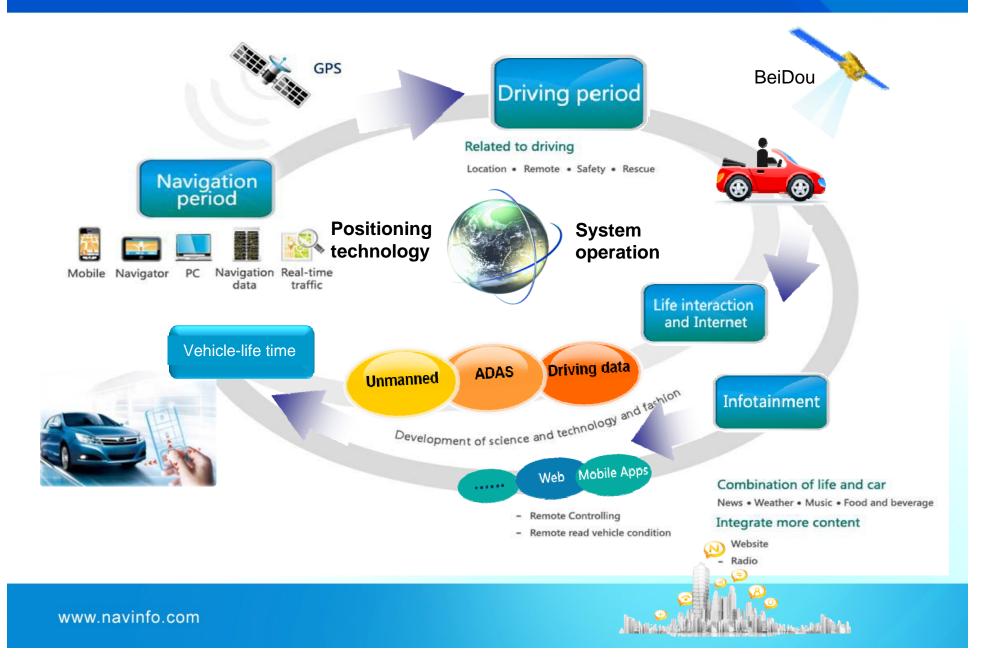
Industry standard and business model are in investigation

- ■In 2011, China vehicle network market scale reached **6.02 Billion** RMB, the year-on-year growth rate is **31.7%**, and took the **1.4%** share of the international market
- ■In 2012, it is expected that about **3**% equipped with vehicle network service
- Expected in 2015, nearly 10% of the cars will be installed with vehicle network services

Source: MIIT Car Information Alliance

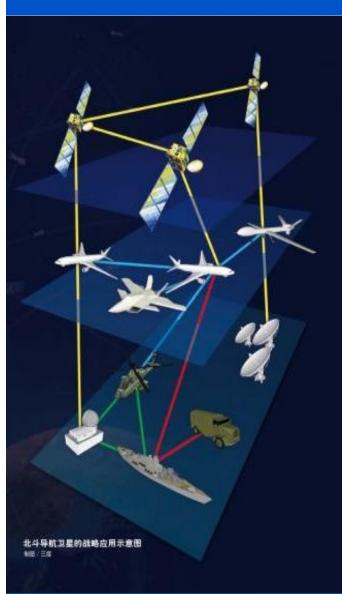
Higher requests on positioning technology





BeiDou industrialization drives the development

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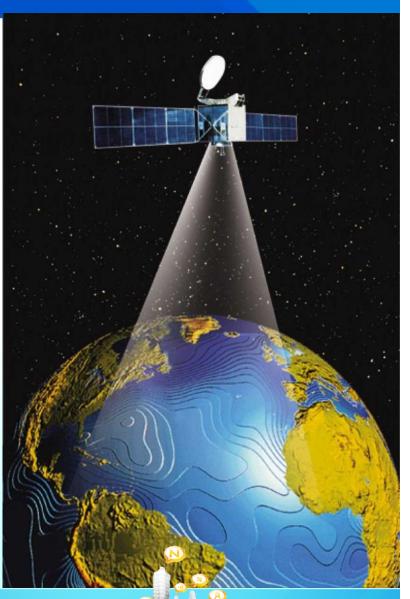


BeiDou and GPS, the dual system will make the positioning more accurate, the system running more stable; will promote the development and wider use of vehicle network industry.

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Cloud platform of vehicle network service





Map Positioning

Location

Direction

Guidance

Traffic

Cloud data operation and Cloud service platform

The open and modular Cloud platform of vehicle network service







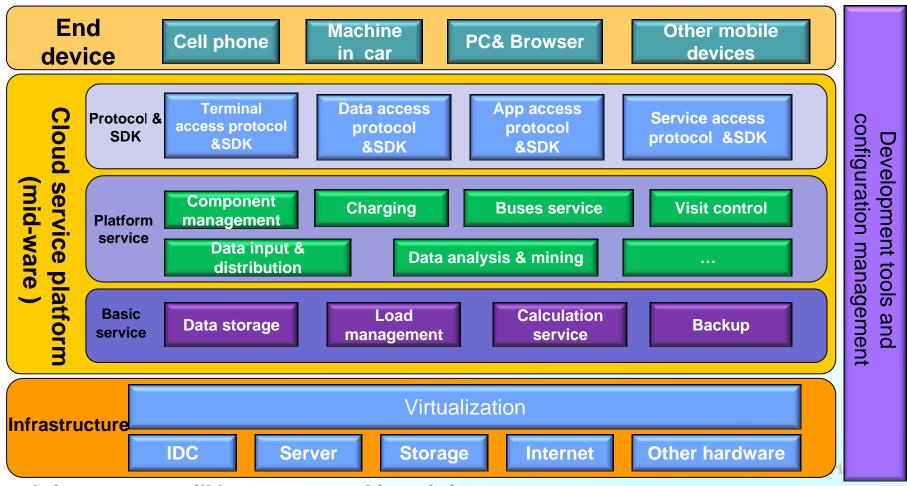






Cloud structure of vehicle network service





- Infrastructure will be constructed in unit form
- Infrastructure unit will be constructed in accordance with the regions (Beijing, Shanghai, Guangzhou, Chengdu) gradually.

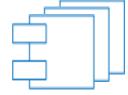
Key technology of the Cloud platform





The open three-layer service protocol standard

- Data access and distribution based on location
- Content, such as news, access and distribution
- Service access and distribution
- APP access and distribution





Open and modular service Cloud platform

Cloud mid-ware

 Cloud services middleware achieves high-quality Cloud service system with high concurrency, high access and distribution

Open data access and distribution

- Multi-source data access and
- technology integration system
- Evaluation system of data credibility
- Evaluation system of service Quality



Open public component library

- Basic services component library
- Business services component library
- Third-party distribution components library



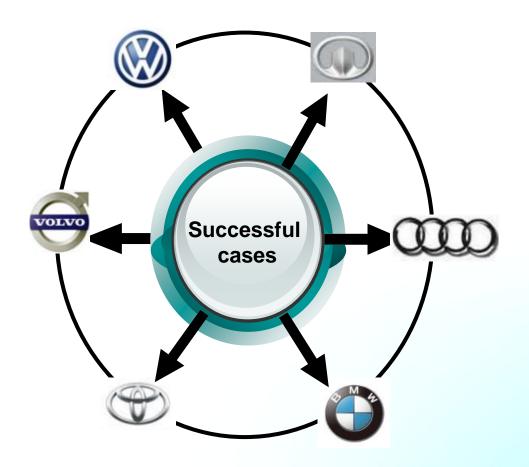
Global cooperation

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Key cases





Tier1 role::

- 1)Development of full set of T service
- Backend, Mobile App, Web Portal
- Content integration and service delivery
- Call Center Client Website
- 2) System integration, operation and maintenance
- 3) Co-operation

Tier2 role::

Provide GIS service and some content service

- •POI online searching
- Online map service
- •Geocoding and reserve geocoding service
- SendToCar service





Close cooperation among different parties









Conclusion...

- 1. Vehicle network market is growing rapidly in China and has huge potential;
- 2. BeiDou and GPS, the dual system will make positioning more accurate and system more stable; and will promote the development and wider use of vehicle network industry;
- 3. Hope to strengthen international cooperation and industrial chain based on the Cloud platform of vehicle network and to jointly develop the China market



Thank you!

