DATANG TELECOM TECHNOLOGY & INDUSTRY GROUP -



Contents





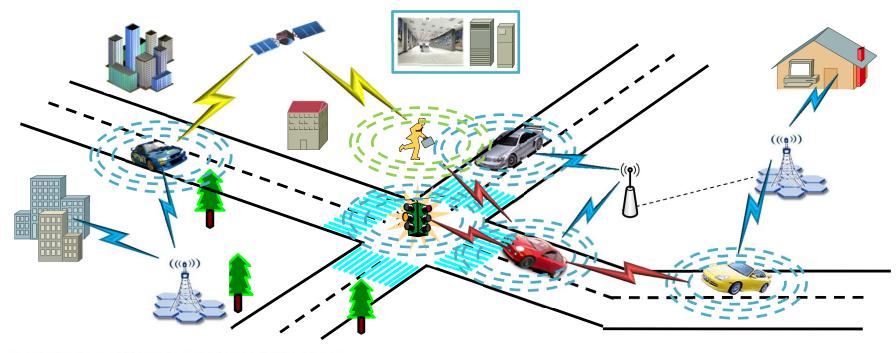
3

LTE-V: system solution and prototype

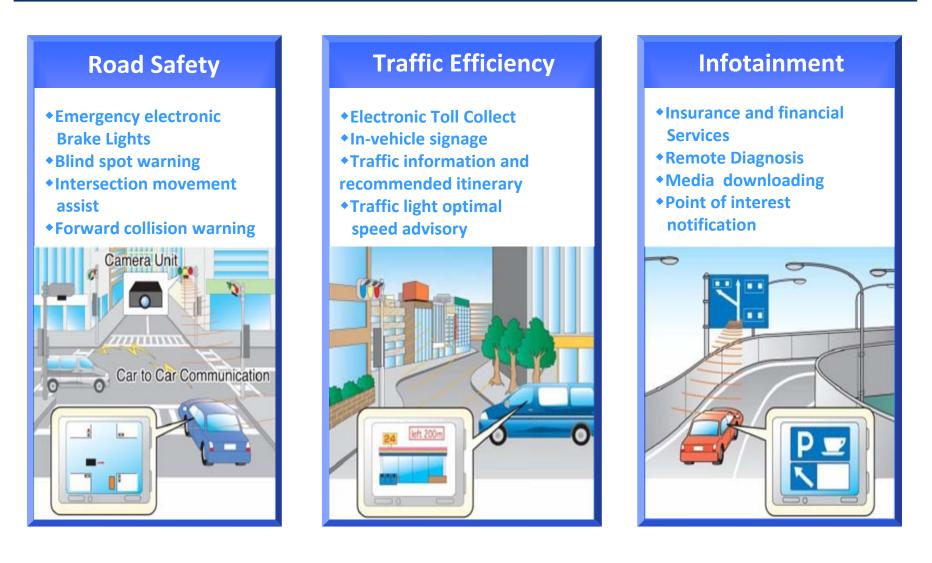
Datang's practice on connected vehicles

Connected Vehicles -- Concept

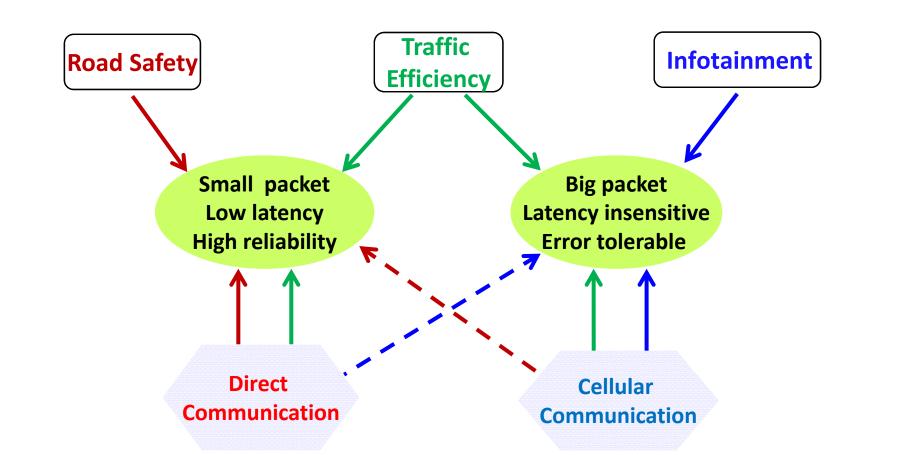
Connected Vehicles: Systems include advanced information, communication, sensor and control technologies, which can collect and exchange information among vehicles and roadside units. By cooperation and sharing information, the systems can improve the safety, sustainability, efficiency and convenience of our transportation network. It is the extension of IOT in ITS field.



Applications of Connected Vehicles



Communication Requirements of Applications



Diverse applications lead to various requirements
Single communication technology can not meet all kinds of requirements

Contents

Applications and requirements of connected vehicles

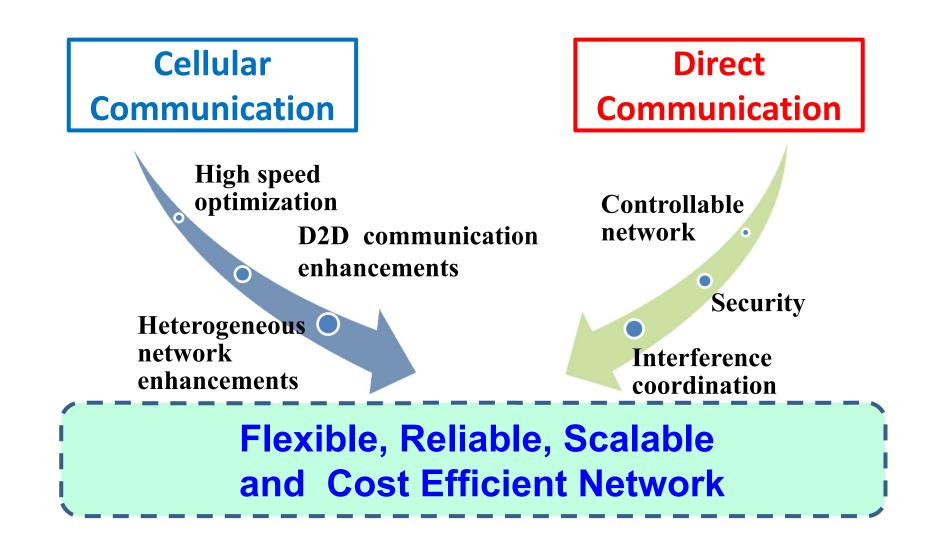




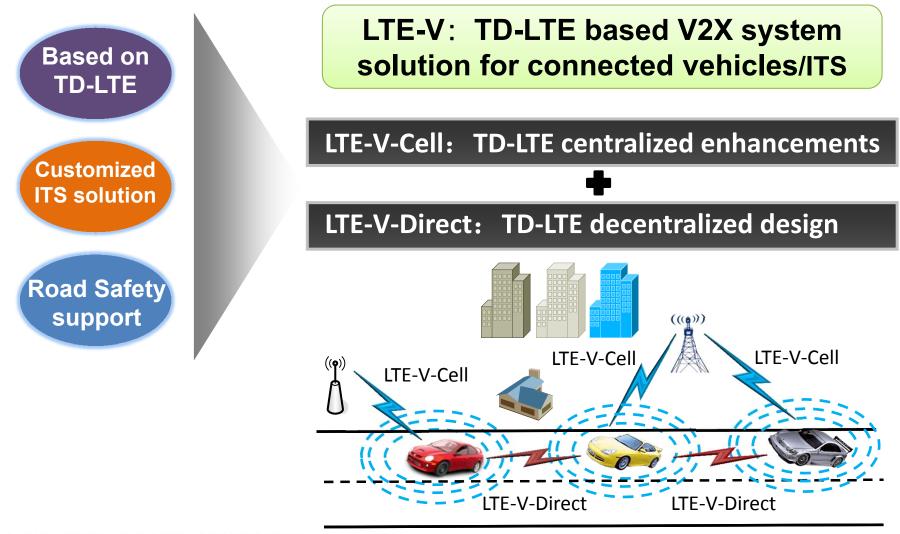
2

Datang's practice on connected vehicles

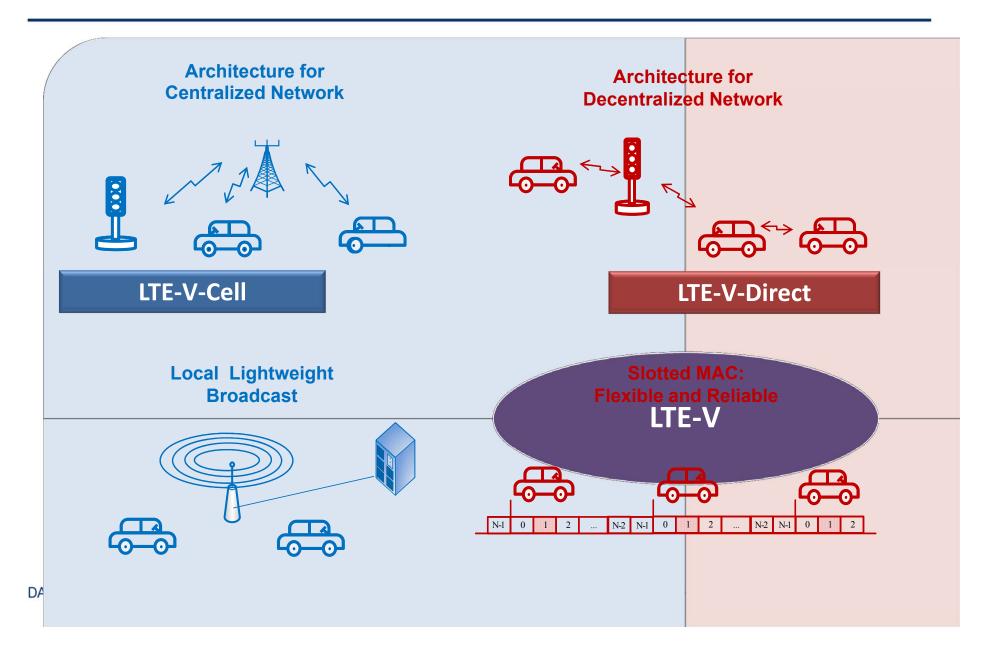
Evolution of Communication Technologies



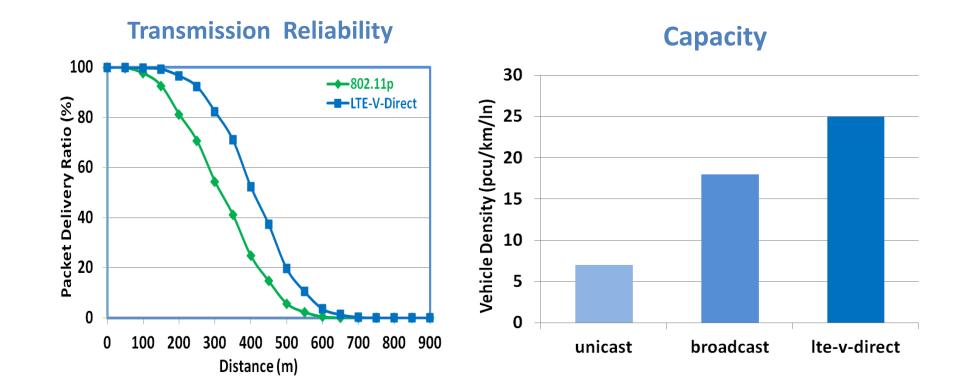
Overview of LTE-V



LTE-V: Key Technologies



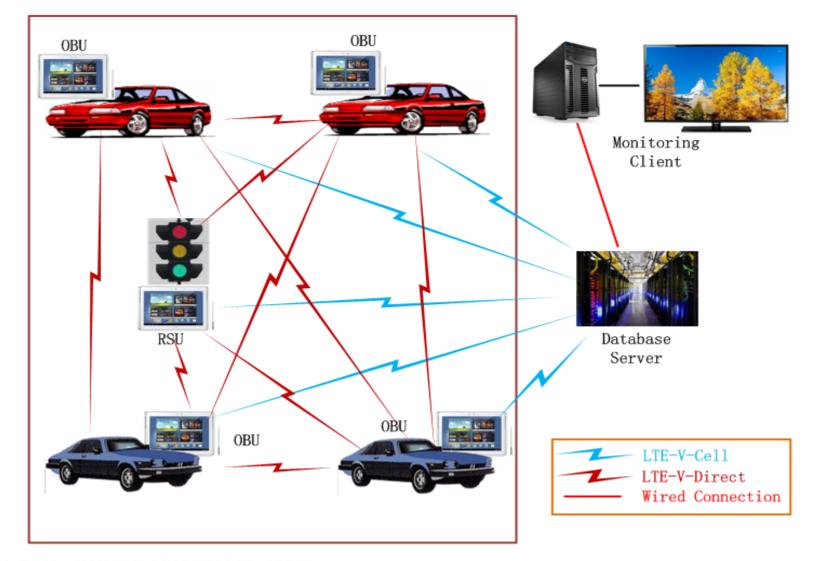
LTE-V: Performance



15~25% higher than IEEE 802.11p

257% higher than unicast39% higher than broadcast

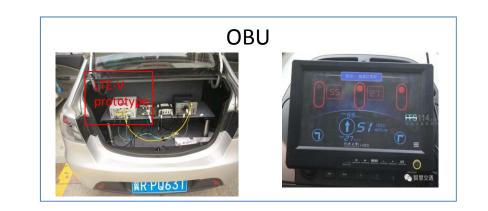
Architecture of Prototype System

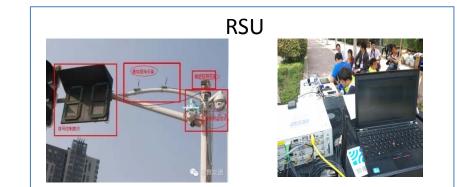


LTE-V Demo



- Partners: Tsinghua university, Chang An automaker
- Equipments: 9 OBU nodes and 3 RSU nodes with LTE-V devices

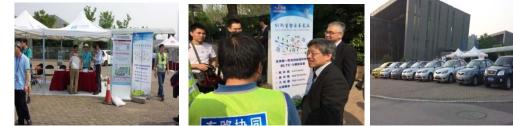






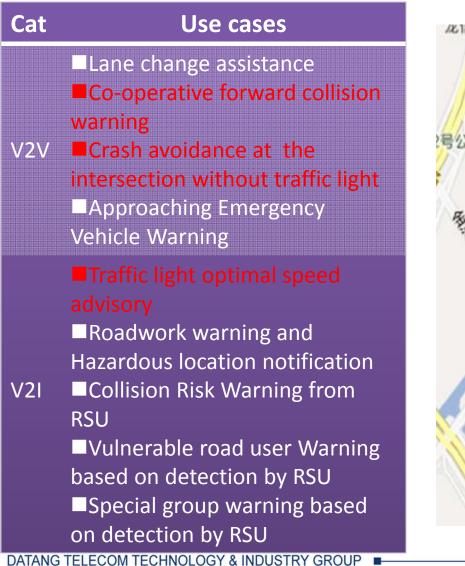


Real Road Demo



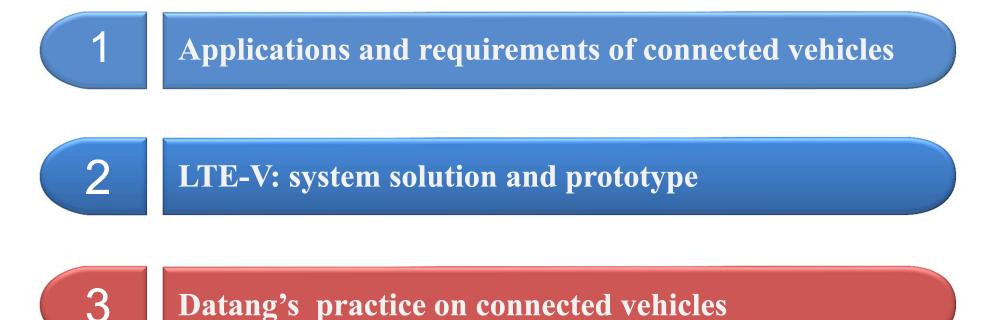
DATANG TELECOM TECHNOLOGY & INDUSTRY GROUP

Use cases supported by LTE-V Demo





Contents

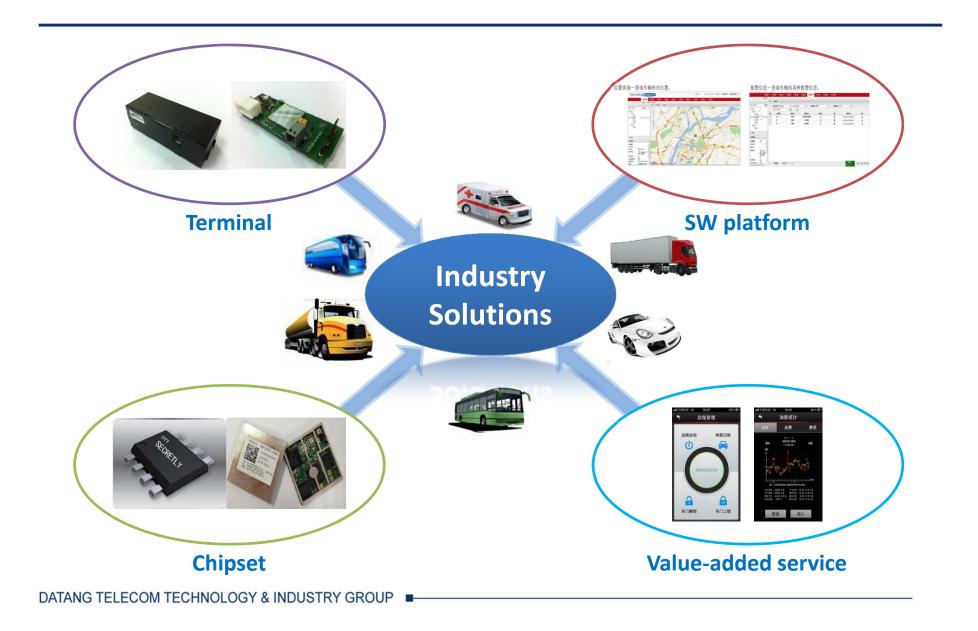


Overview of Datang Group

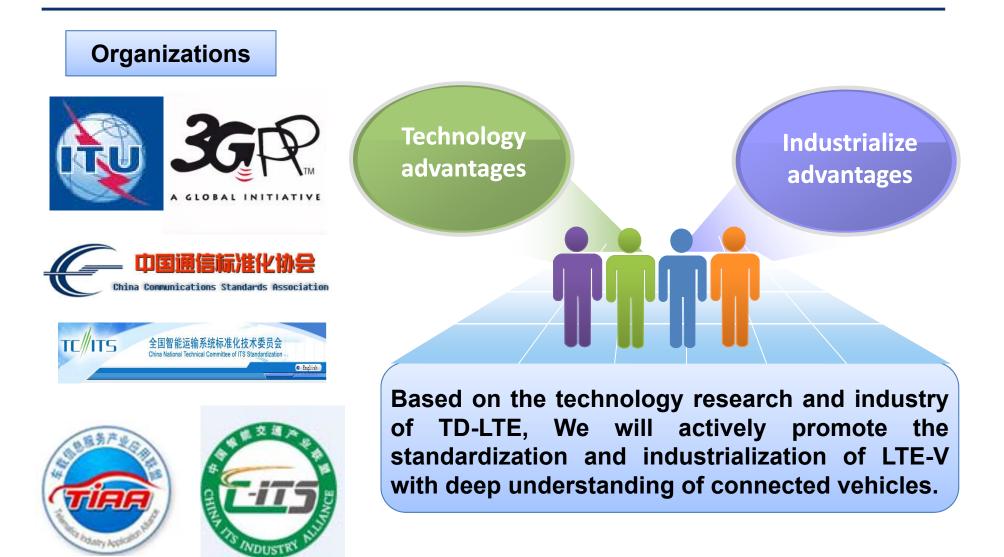
- A Chinese high-tech enterprise, focusing on information communications technology, equipment and solutions;
- Three Subsidiaries are listed on Shanghai, Shenzhen, New York & Hong Kong stock exchanges;
- ■Total number of patents is over 14000, with annual growth rate of 38%;
- Proposed TD-SCDMA international 3G standard, leading TD-LTE/TD-LTE-Advanced international 4G standard and future 5G research.



Products of connected vehicles



Promoting Standardization and industrialization of LTE-V



THANH YEL

