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Source: Datang Microelectronics Technology Co., Ltd

Title: Personal information security and protection

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	China	

Personal information security and protection

Yong Wang
Vice President, Datang



Agenda

1. Background

- connected cars bring convenience together with new risks

2. Law & Regulations

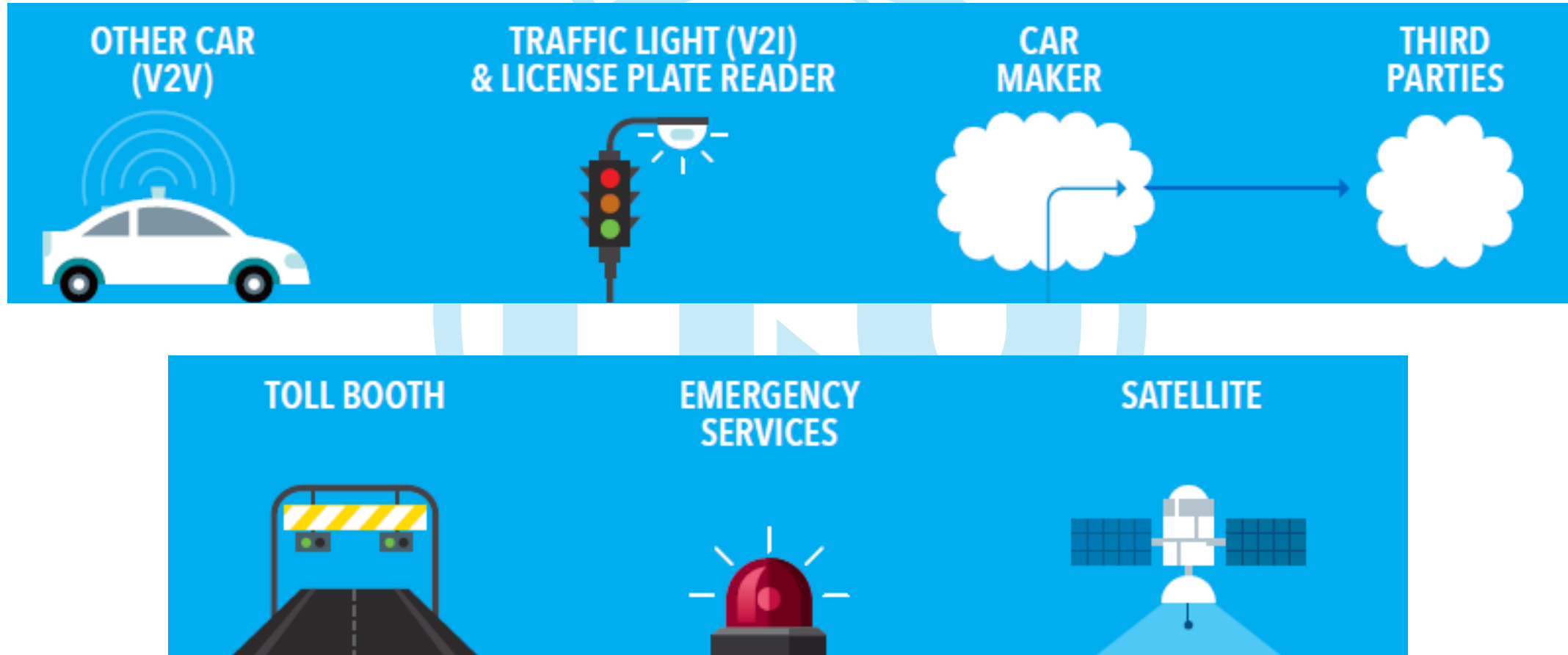
- Governments have taken actions in personal information protection.

3. Protection

- Current solutions and some recommendations

Connected cars generate more and more data

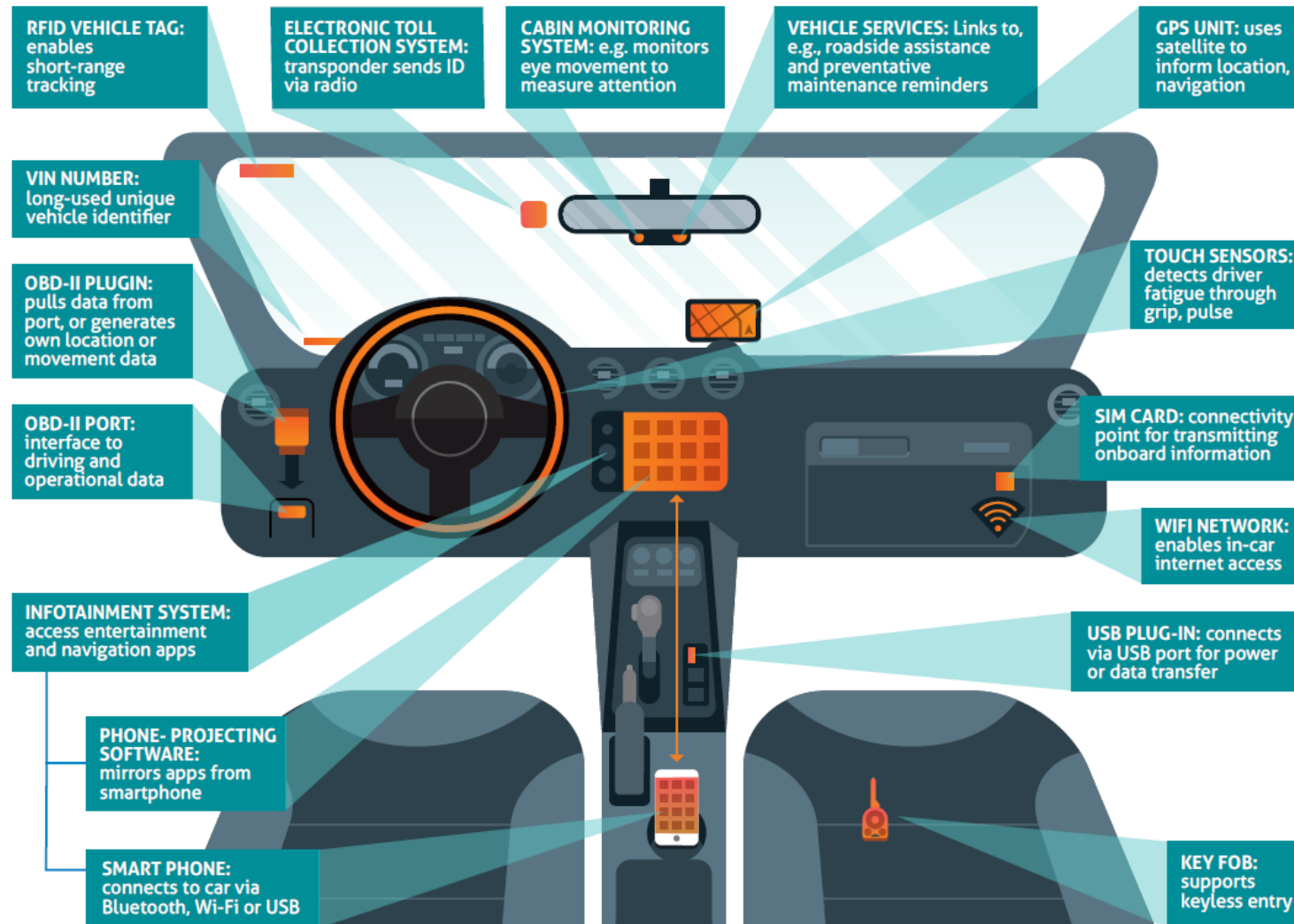
- ❑ Some data receiver



Source: 2017_0627-FPF-Connected-Car-Infographic-Version-1.0

Connected cars generate more and more data

❑ The data generated inside a car



Connected cars generate more and more data

□ Definition of personal privacy data

ISO/IEC 29100(**Information technology — Security techniques — Privacy framework**):

- Bank account or credit card number
- Biometric identifier
- Gender
- GPS position
- GPS trajectories
- IP address
- Location derived from telecommunications systems
- National identifiers (e.g., passport number)
- Personal e-mail address
- Personal identification numbers (PIN) or passwords
- Personal interests derived from tracking use of internet web sites
- Personal or behavioral profile
- Personal telephone number
- Product and service preferences

Connected cars generate more and more data

▣ Cases in vehicles

Fast growing intelligent vehicles make the Internet integration accelerate.

	Multimedia	Maps	Browser	Cellphone	Plug-in Devices	...
User ID	O	O	O	O		...
User activities	O	O	O	O	O	...
User history	O	O	O	O		...
User preferences	O		O	O	O	...
Payment	O			O		
...

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Law & Regulations

❑ United States

- **United States Privacy Act,**
- **the Safe Harbor Act**
- **and the Health Insurance Portability and Accountability Act.**



Law & Regulations

❑ United States

- **Personal data in your car**, a consumer guide released by National Automobile Dealers Association and the Future of Privacy Forum.
- **Transparency:** Manufacturers will provide you with clear and concise privacy policies.
- **Affirmative Consent For Sensitive Data:**
 - “geolocation” (where you are);
 - “biometric” (physical or health information about you or your passengers);
 - and driver behavior data.
- **Limited sharing with government and law enforcement**



Law & Regulations

❑ European Union

- **Principles and protection of data**
(pseudonymization or full anonymization, etc.)
- **Highest-possible privacy settings by default**
- **Explicit, informed consent**



Law & Regulations

❑ People's Republic of China

- **Cybersecurity Law of the People's Republic of China**, effective since June 2017.
- The principles of legality, propriety, and necessity.
- Prevent personal information from leaking, being destroyed, or lost.



中华人民共和国 网络安全法

含草案说明

Baidu 百度

中国法制出版社

Law & Regulations

❑ Republic of Korea

- **Personal Information Protection Act**

- Minimum collection
- No denial of services
- Clear notification of opt-out of automated collection
- Notification of collection from third parties
- Etc.



Personal Information Protection Commission




Korea Communications
Commission

Law & Regulations


□ Japan

- **Personal Information Protection Act**
- Different terms for data controller: business operator
- Purpose limitation
- Accuracy
- Access & correction



Personal Information Protection Commission

The Personal Information Protection Commission (PPC) was established on January 1, 2016, changed from the Specific Personal Information Protection Commission.



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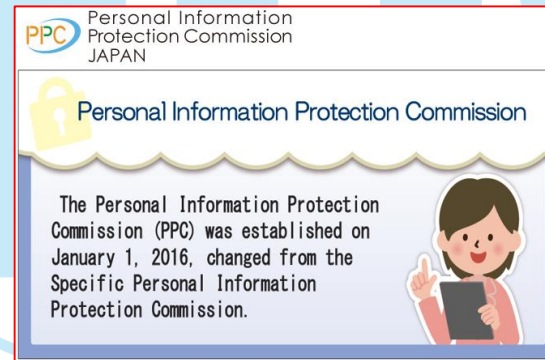
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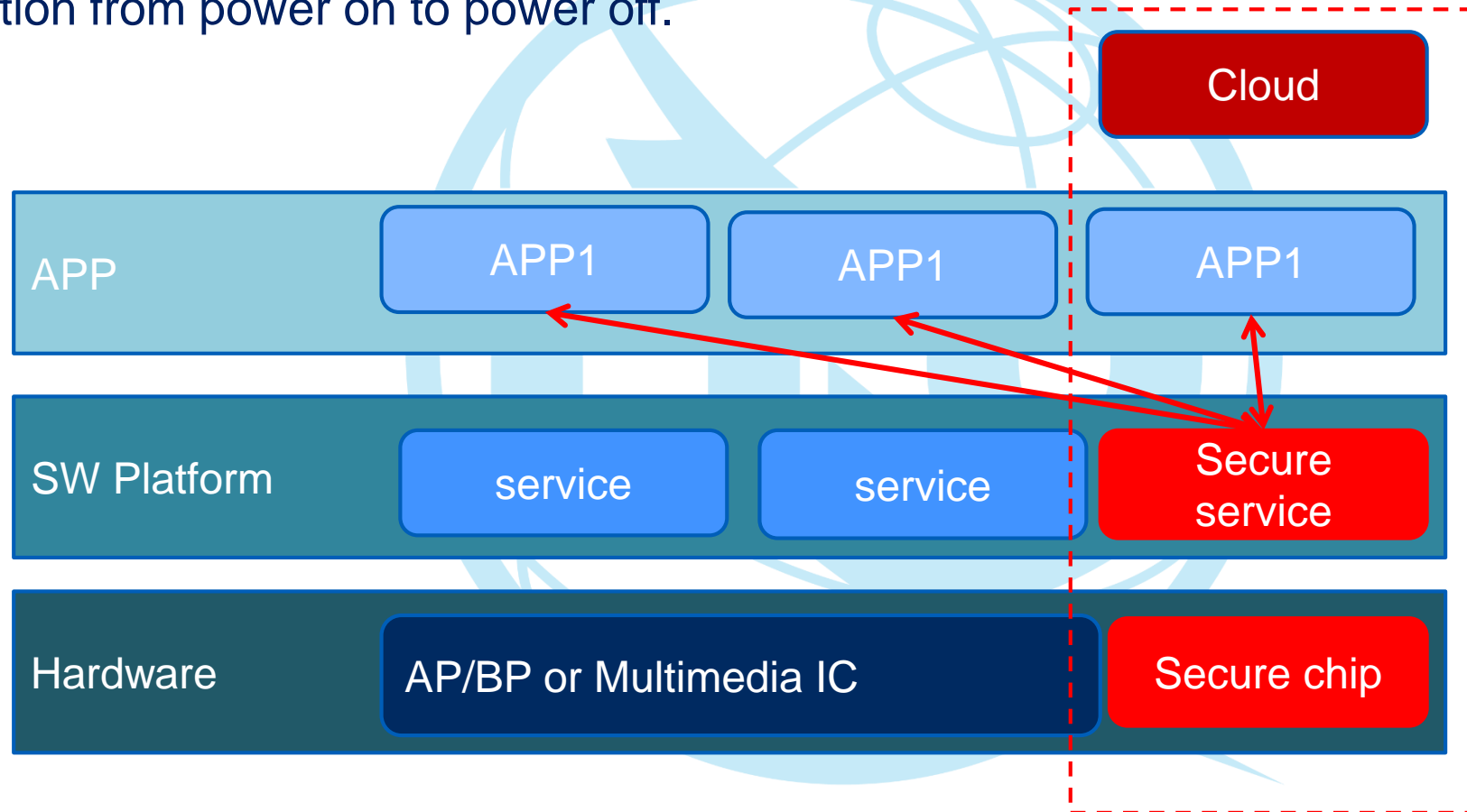
Protection

- ❑ Distributing: Strictly following regional laws when distributing information.



Protection

- ❑ **Process & Storage:** Encryption covering all private information of various applications. Protection from power on to power off.



A large, light blue, faded ITU logo is centered in the background. It features a globe with latitude and longitude lines, and the letters 'ITU' in a bold, sans-serif font. Two curved arrows, one at the top and one at the bottom, point towards the center of the globe.

Thanks for listening