



## **ITS: eCall – Door Opener for General Telematics in Passenger Cars**

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5th CLEPA Automotive Aftermarket Conference

# Agenda



**1 eCall Facts & Figures**

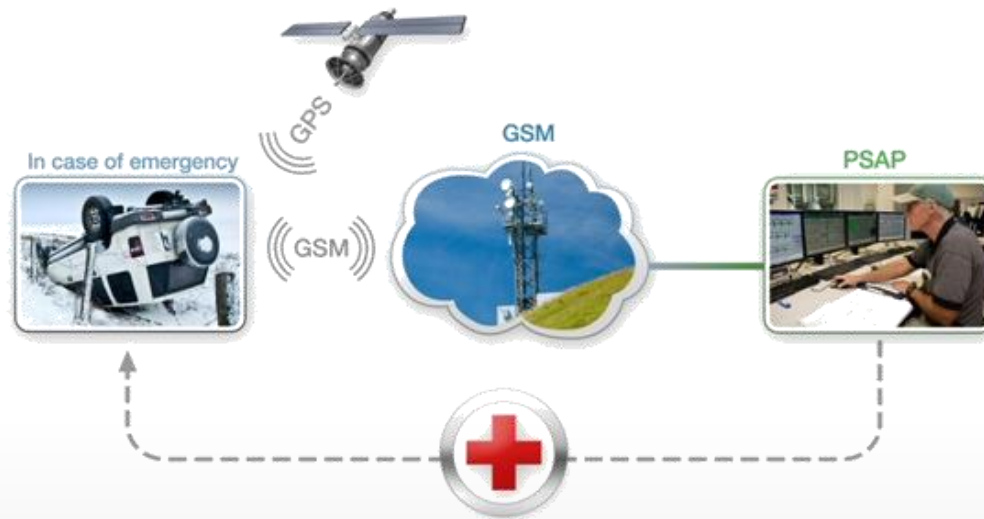
**2 eCall within the Big Picture of "ITS"**

**3 ITS and the Aftermarket**

**4 Challenges and Opportunities for the Aftermarket**

# eCall Facts & Figures

## eCall: Functionalities and Legislation

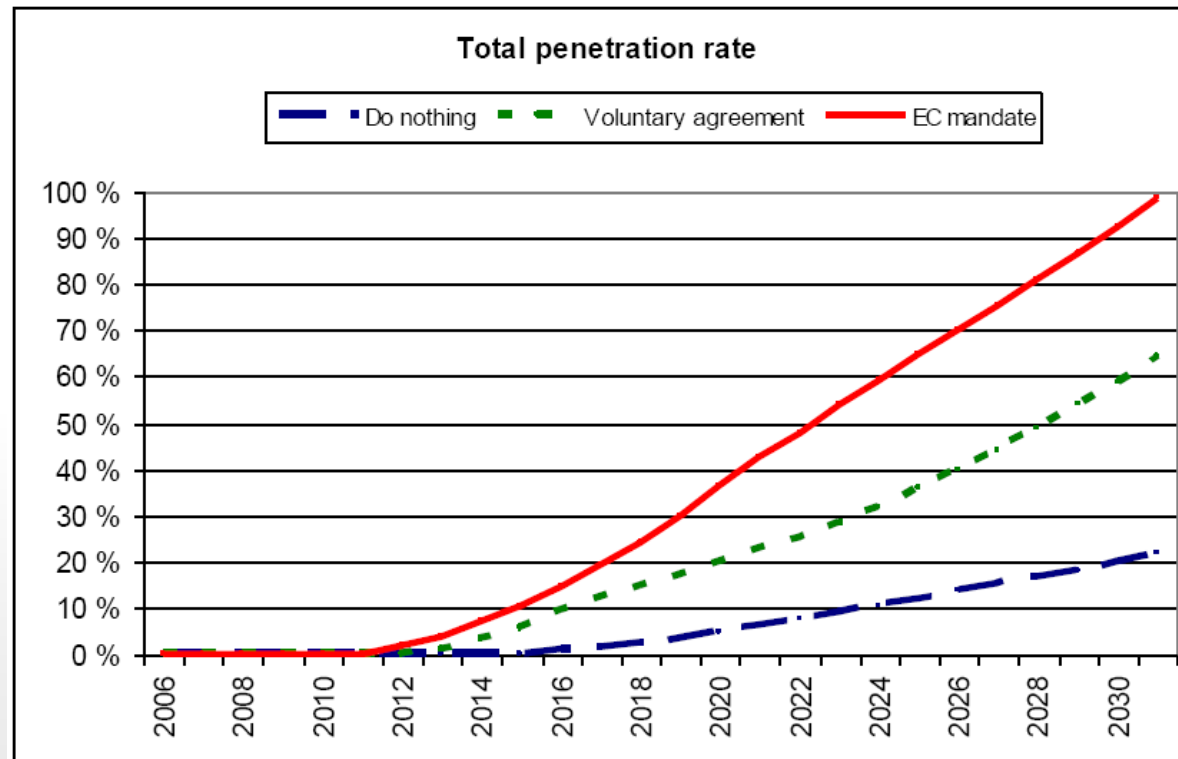


### eCall Legislation Proposal for Type approval by the EU Commission

- › Legislation proposal submitted in June 2013
- › Fully functional eCall service rollout throughout EU by 2015 (Oct.)
- › eCall mandatory for new PV and LCV models in 2015 (Oct.)
- › Additional emergency and/or added value services possible
- › Still subject to approval by Council and Parliament

# eCall Facts & Figures

## eCall to Boost Number of Cars With Telematic Units



EU Commission projection show: eCall legislation will be a gamechanger

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# Global Challenges

## Traffic Collapse is One of the Global Challenges



### Water Crisis



Over the last **50 years** the human population has **nearly tripled!**

### Peak Oil



**2020**, the peak of production of copper, gold and oil

### Medical Supply



In Germany alone, there are **12,000 vacancies** for physicians

### Species Extinction



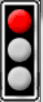
Certain species that human beings **depend upon for food supply** are going to extinct

### Climate Change



People from different cultures will either have to **work together or face mutual destruction**

### Traffic Collapse

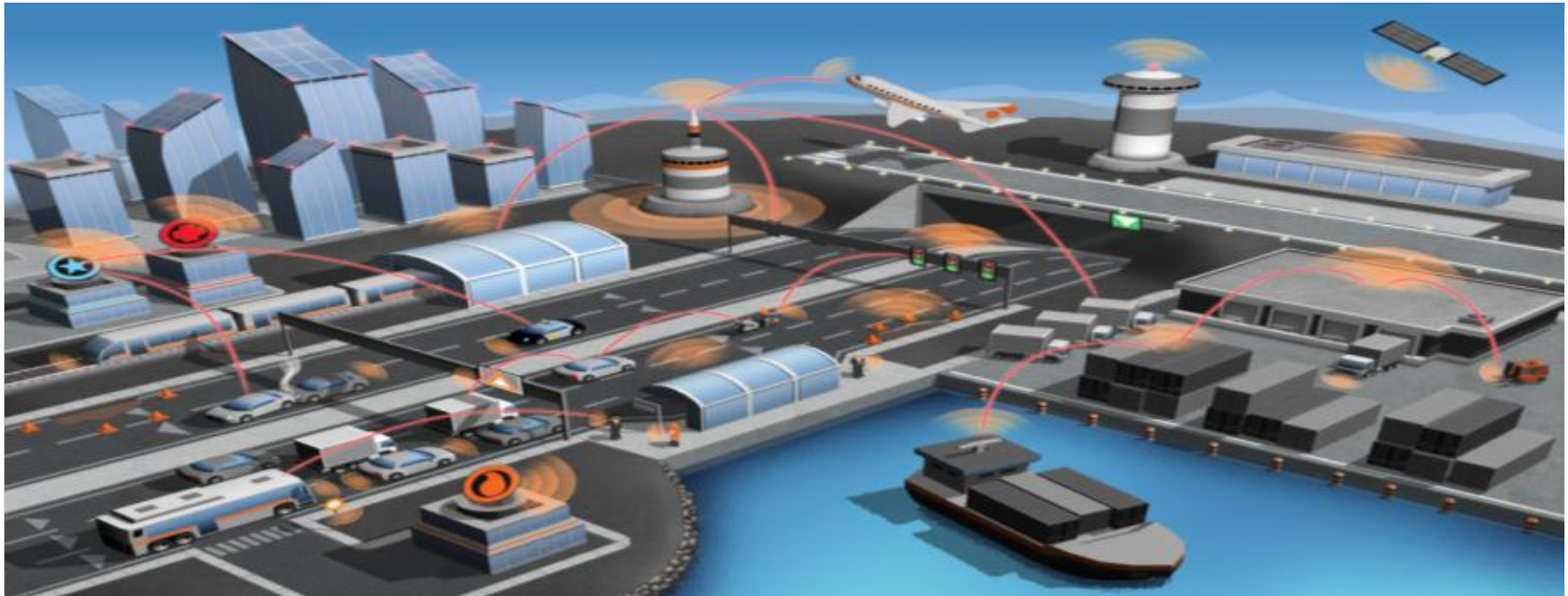


Average one-way commuting time in mega-cities **70-84 minutes**



# ITS Definition

## ITS is Required to Solve the Traffic Collapse



### Intelligent Transportation System (ITS) Definition\*

ITS is the creation of a **data network** between **transport infrastructure, vehicles and users** by using information and communication technology.

It is more than in-vehicle products. The intelligent transportation system is only possible if a **representative quantity of data is collected, linked and processed**. Hence a high quality information is provided as a service in real-time.

### ITS Targets

Save Costs

Save Time

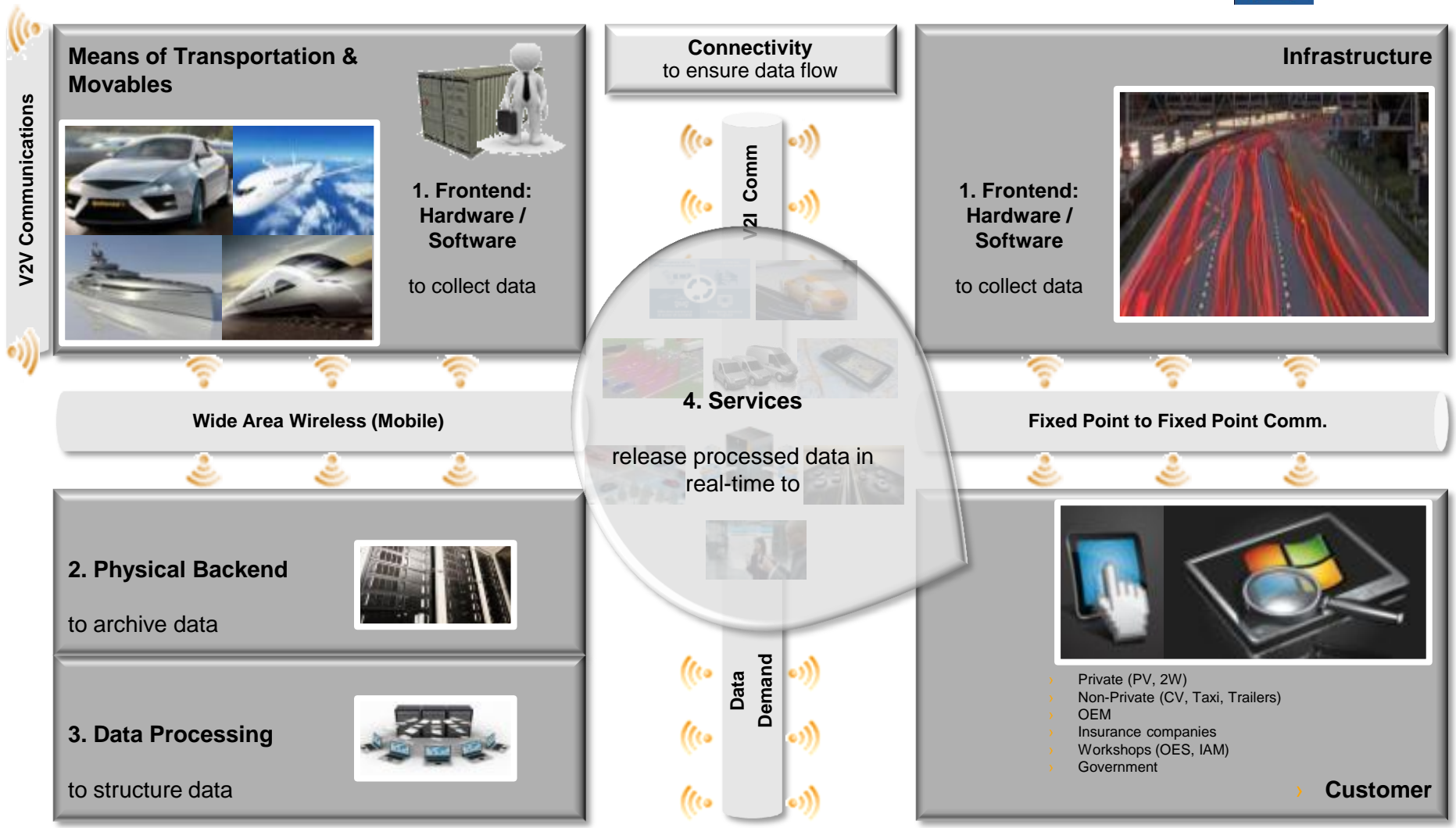
Protect Life

Protect Environment

\*Source: European Telecommunications Standards Institute (ETSI)

# ITS Value Chain (Architecture)

## Data is the Basis of the ITS Value Chain











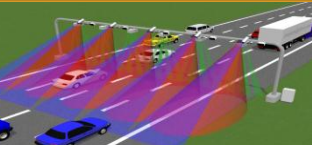


# ITS Business Sectors

## Continental Currently Active in 5 Business Sectors



### Business Sectors as derived from ITS America\*

<p><b>Archived Data Management</b></p>  <p>Improvement of transportation through <b>archiving &amp; sharing</b> of data</p>	<p><b>Commercial Fleet Operations &amp; Logistics</b></p>  <p>Implementation of <b>products &amp; services</b> facilitating <b>transportation policies</b></p>	<p><b>Emergency Management</b></p>  <p>Realization of <b>reactive assistance</b> for <b>emergency situations</b></p>	<p><b>Maintenance Management</b></p>  <p>Application of <b>vehicle parameters</b> followed by <b>reactive services</b></p>	<p><b>Advanced Public Transportation Systems</b></p>  <p>Development of <b>efficient public transport services</b></p>
<p><b>Advanced Traffic Management System</b></p>  <p>Employment of technologies enhancing <b>traffic flow</b> and <b>congestion problems</b></p>	<p><b>Advanced Traveller Information System</b></p>  <p>Utilization of essential <b>traffic information</b></p>	<p><b>Safety &amp; Security</b></p>  <p>Appliance of <b>safety &amp; security</b> in-vehicle technologies</p>	<p><b>Traffic Payment</b></p>  <p>Deployment of <b>toll</b> or other <b>payment options</b></p>	

\*2011, SIZING THE U.S. AND NORTH AMERICAN INTELLIGENT TRANSPORTATION SYSTEM MARKET

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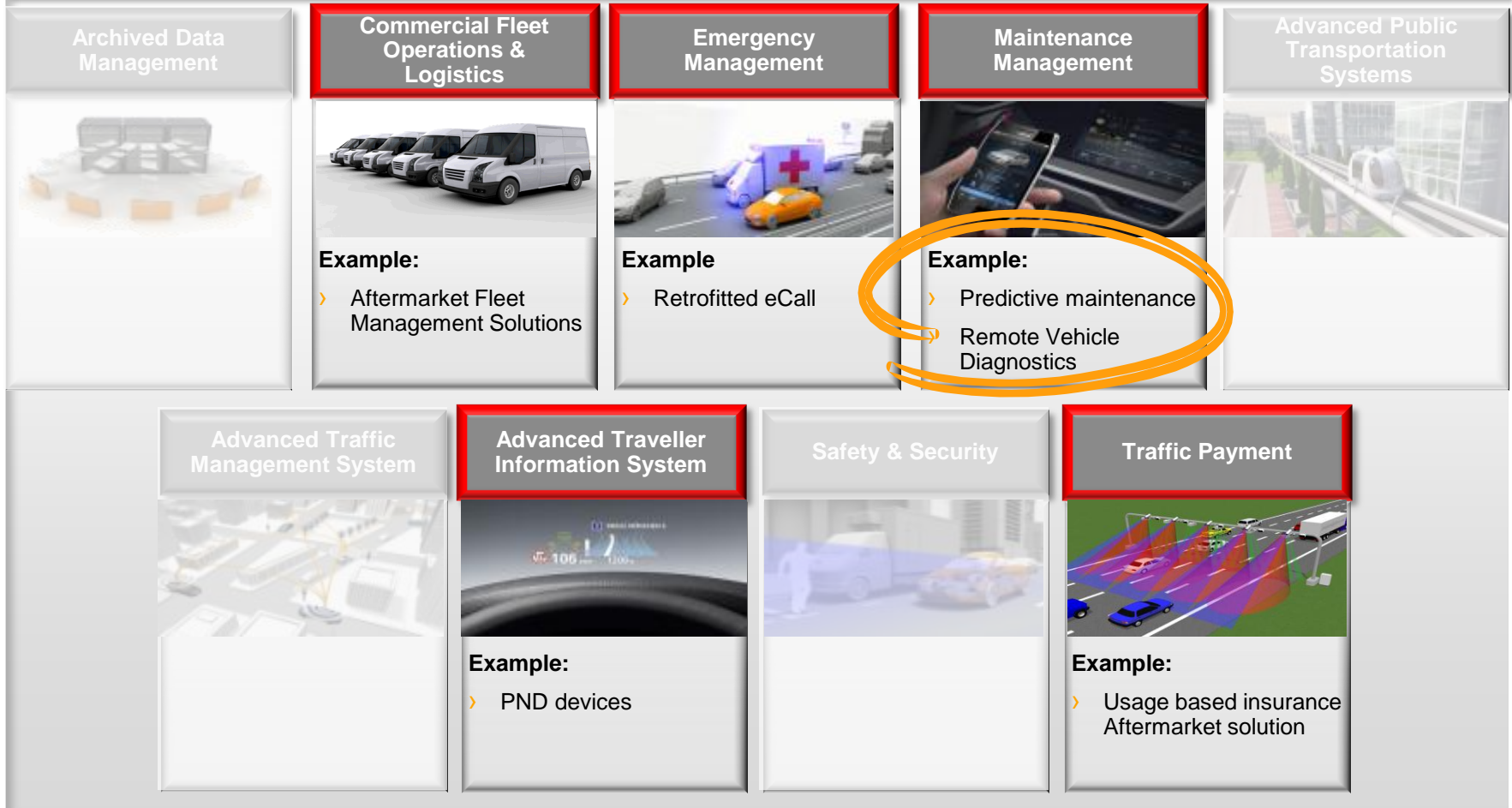
**4 Challenges and Opportunities for the Aftermarket**

# ITS Business Sectors

## 5 ITS Business Sectors Relevant to Aftermarket



Business Sectors as derived from ITS America\*



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# ITS Maintenance Management

## Bluetooth Dongle: System Overview



# ITS Maintenance Management

## Bluetooth Dongle: Services and USPs



### B2C

- › B-Call
- › Information about
  - › Service interval (Maintenance / Oil)
  - › Error codes / activity recommendation
- › Eco-Driving
- › Guidance to workshop
- › Customized offers

### B2B

- › Generate new customers
- › Improved customer relationship management
- › Improved efficiency in workshop
- › Gathering vehicle data / analysis



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# A 40 € bn market

## IAM Facing Challenge of Strong OEM Positioning



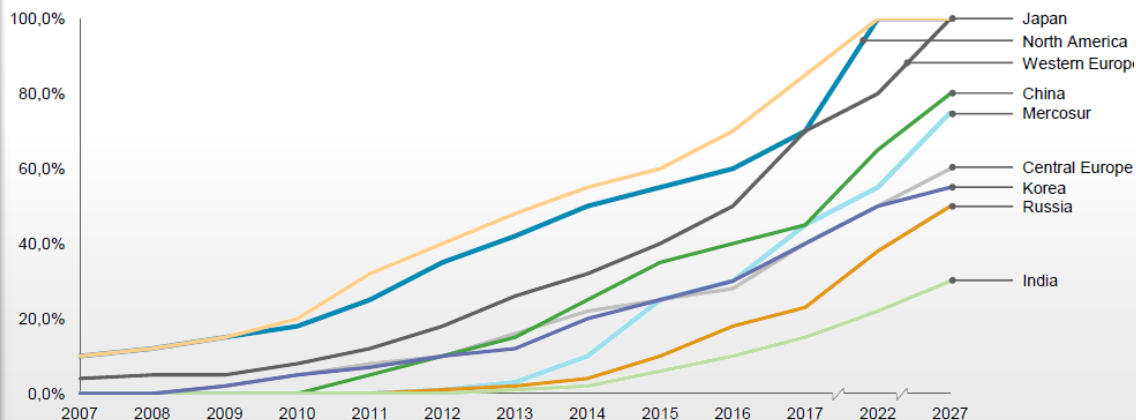
### Status Quo

- › OEM embedded telematics are essentially **closed systems with unique software**
- › Thus, the **OEMs have complete control over in-vehicle data** as of right now.

### Future Prospects

- › OEMs increasingly integrating embedded telematics (**every new car connected in 2025**):

Market fitment/penetration rates of smartphone and embedded connectivity units fitted to newly-assembled passenger cars and light vehicles, 2007-2027, (%)



If this forecast is accurate, IAM solutions will not be relevant to new vehicle owners by 2025 in NA and Europe

- › Legislations for eCall could strengthen OEMs positioning even further if open access not granted

\* © Oliver Wyman | Connected Cars Battle Fields

# Risks & Opportunities for Aftermarket

## Business Opportunities for Both the OE and IAM



### Risks & Challenges

- › OEMs gatekeeper to customer data
- › OE fitted telematics dominate the market
- › eCall legislation not protecting 3<sup>rd</sup> party interests
- › Aftermarket only short to medium-term solution until “every new car connected” in 2025

### Opportunities

- › As long as OE fitment rate is still low and demand for connected services high → business opportunities for Aftermarket
- › Increased installation rate of telematic units as a potential for added Value services
- › ITS can secure an open door towards the aftersales customers (parts & services)

# Required Actions

Open Choice & Fair Competition has to be ensured



## 1. Ensure that the eCall telematic unit is indeed an interoperable and open-access platform

Necessity to address critical passages in current EU proposal such as: *“The eCall in-vehicle system shall be accessible to all independent operators free of charge and without discrimination at least for repair and maintenance purposes.”*

## 2. Set technical standards for telematic units in order to enable 3<sup>rd</sup> party applications

## 3. Ensure restriction free access to in-vehicle information data by 3<sup>rd</sup> parties

Car Diagnostics data....

**>>> The future of the connected car business starts now, be a part of it, or see others passing you**

**Thank you**  
for your attention!