

# mAutomotive and GSMA Connected Car Forum

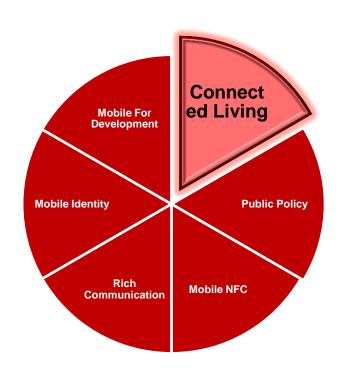
Francesca Forestieri,

Director mAutomotive project, Connected Living, GSMA

### GSMA Goal – Connected Living

# Leadership Team: AT&T, KT, Etisalat, Orange, Qtel, Telenor, Vodafone





Context

Market size

Market Issues

- The emergence of new connected devices and M2M brings an increased number of mobile connections and presents a new revenue opportunity to the mobile industry
- Educating the adjacent industries on mobile operators' capabilities and assets, to maximise the use of mobile and to ensure that the operator's role is not limited to a just a connectivity provider and builds on operator assets (like identity, security, billing, etc)
- 4 billion mobile connected devices beyond handsets by 2020. Target Mar 2013 = 700M
- US\$1 trillion revenue opportunity for Mobile Operators
- Largest markets are: Asia \$447 billion, Europe \$305 billion, North America \$241 billion Source for all sizing data: Machina

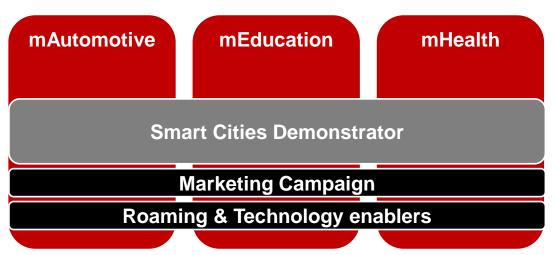
#### **3rd Party Service Providers**

 Service Providers delivering value added services, reducing the role of mobile operators to 'just' connectivity

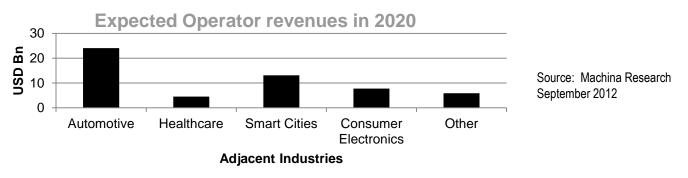
## Connected Living - Objectives, Structure and Forecast



- The Connected Living Programme is designed to:
  - Unlock the revenue opportunity from connecting adjacent industries, through new partnerships
  - Incentivise the launch of services beyond simple connectivity



 The programme is focused on 3 verticals - Automotive, Education and Health and in the delivery of Smart City demonstrators (through Mobile World Capital)



# mAutomotive Strategic Objective 1: Building Value-Added MNO Assets



#### Connecting Vehicles

Market standard for MNOs, with 38 OEMs providing embedded connectivity in their vehicles

Extending Connectivity Services (Core Operator Assets)

Supporting Extended M2M functionality (enhanced platform services, security, testing, etc.)

**Expanding Core Operator Assets** 

Providing New Value Add Services, based upon operator key capabilities (charging & revenue management) Complementary Sector-Specific Services

Providing New Value-Add Service Specialisations, which are Integrated Into Connectivity Management (e.g. Telematics Service Providers)

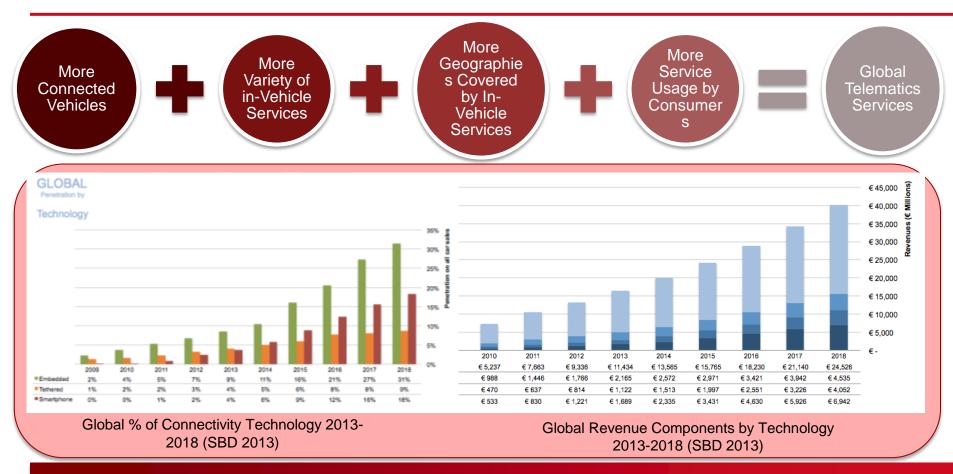
Clearly moves operators beyond core operator assets into competitive space of other automotive stakeholders

Places Operators as Core Competitors with Existing Stakeholders

May require acquisitions or leasing of infrastructure from other stakeholders

# mAutomotive Strategic Objective 2: Connected Vehicle Market Growth





#### What is the GSMA Connected Car Forum?



#### What is it?

The GSMA Connected Car Forum (CCF) is where automakers and mobile operators meet to:

- Share information and enable industry cooperation
- Resolve barriers to connected car deployment
- Speed the adoption of telematics and infotainment services.

#### Focusing on?

The GSMA CCF addresses cross-industry initiatives of international relevance that focus on telematics & infotainment services:

- Enablers for service deployment
- Operational improvements for services
- Business Development Opportunities for service deployment
- Regulations for mandatory telematics fitment

#### Results Oriented...

GSMA CCF members commit to laying the groundwork for connected cars becoming ubiquitous. Target figures include:

- More than 20% of global vehicle sales in 2015 to include embedded connectivity solutions
- More than 50% of global vehicles sales in 2015 to be connected (either by embedded, tethered connectivity or smart phone integration)

## Who participates in the GSMA CCF?

Leadership Team: KDDI, KPN, Orange, Softbank, Telecom Italia, Telenor, Vodafone





No other group focuses purely on resolving primary connectivity barriers and fostering opportunities for connectivity growth

#### **Automakers**:

Audi, BMW, Chrysler, Fiat, Ford, GM, Honda, Hyundai, Jaguar Land Rover, Mazda, Nissan, Peugeot, Renault, Toyota, Volvo, VW

#### Operators:

AT&T, Bell Canada, China Unicom, Deutsche Telecom, KDDI, KPN, KT, NTT Docomo, Orange, Rogers, Softbank, Sprint, Telecom Italia, Telefonica, Telenor, Telstra, Teliasonora, Turkcell, Verizon Wireless, Vodafone

## Why is the GSMA CCF unique?





Id. Barriers & Opportunities

Requirements & Use Cases

White Papers

Specifications & Guidelines

Trials & Proof of Concepts

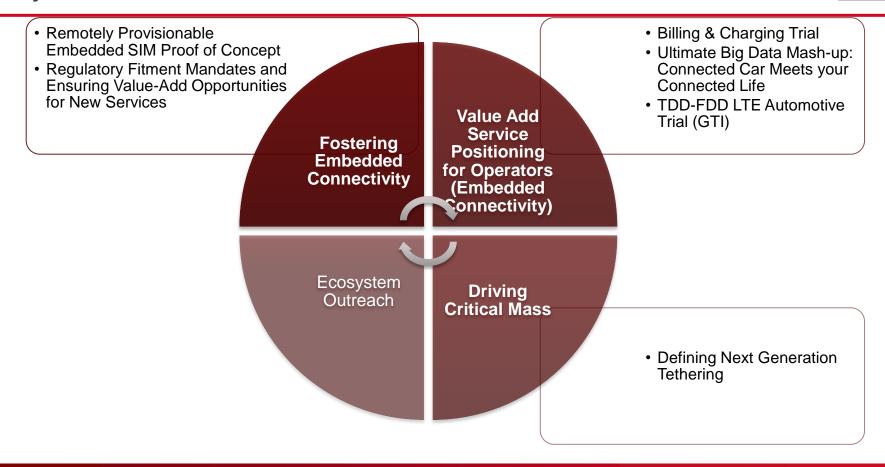
Not just a talk shop - pragmatic approach to solving common problems that both industries face

#### **High functioning forum**

- Unusual to get OEMs to gather, open up and share, with operators present
- Important source of new information for OEMs, driving participation

### Key Themes 2013-2014





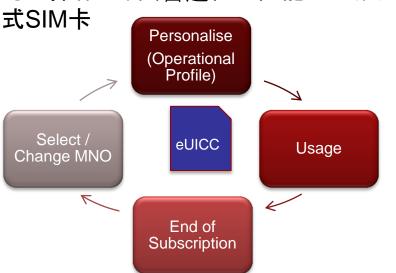
## Fostering Embedded Connectivity 1/2

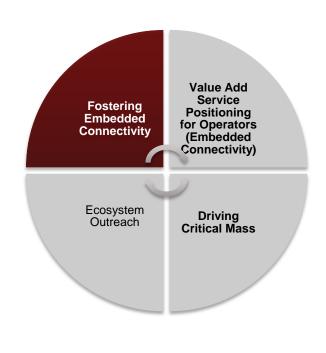


#### What are the key building blocks?

Remotely Provisionable Embedded SIM

可互操作的、具备远程配置能力的嵌入





## Fostering Embedded Connectivity 2/2

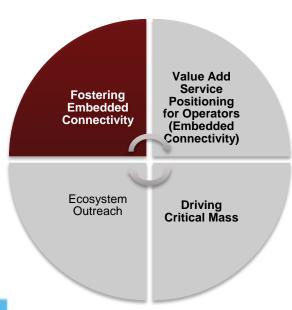


What are the key building blocks?

Regulatory Fitment







Ministério Denatran Das Cidades



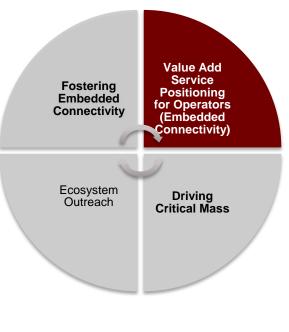
## Value-Add Propositioning for Operators 1/3



#### What are the key building blocks?

Charging 计费 & Billing 结算



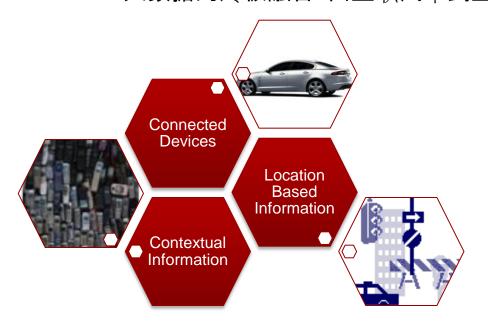


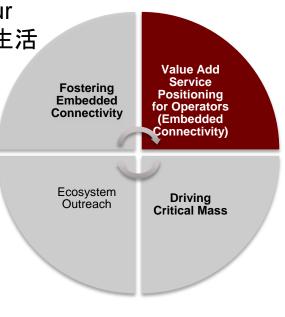
# Value-Add Propositioning for Operators 2/3



#### What are the key building blocks?

Ultimate Big Data Mash-up: Connected Car Meets your Connected Life 大数据的终极融合:由互联汽车到互联生活



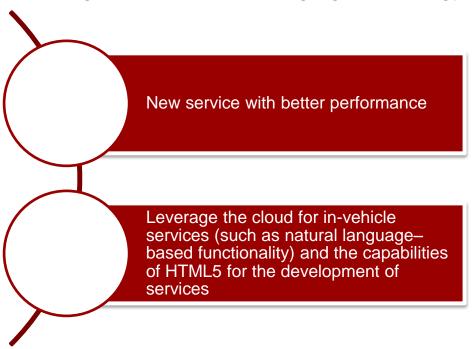


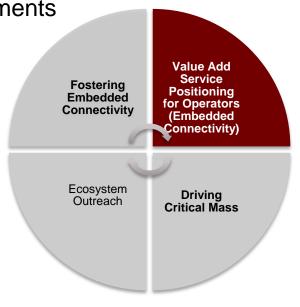
# Value-Add Propositioning for Operators 3/3



#### **Embedded LTE in the CAR**

Enabling new uses & leveraging technology developments





# Driving Critical Mass 1/2

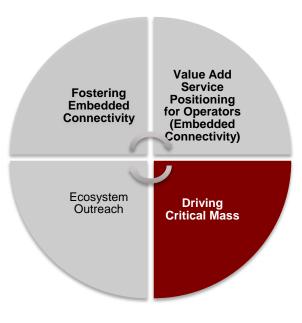


How can we expand business opportunities further? 怎样才

能进一步拓展业务发展机会?

Application development 应用程序开发





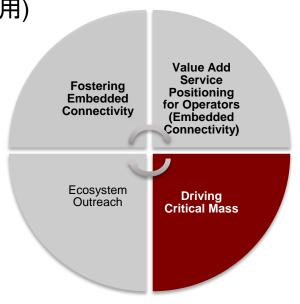
# Driving Critical Mass 2/2



#### What could make it more efficient?

Tethering (IP sharing) 手机网桥 (手机网桥的IP共用)

Connectivity Type	Embedded	Tethered (IP Sharing)	Smartphone Integration
Modem	Built-in	Brought-in	Brought-in
UICC ("SIM")	Built-in	Built-in/Brought- in	Brought-in
Intelligence/Ap plications	Built-in	Built-in	Brought-in
User Interface	Vehicle HMI	Vehicle HMI	In vehicle HMI OR Phone HMI



## Today's Panel will discuss...



- Requirements, challenges & opportunities for Connected Car Services
- Outlook to the Future:
  - What does China need to maximise the opportunity of the Connected Car?
  - What do operators need to help position themselves for value-add opportunities in this sector?

#### Panel:

- Edward Pleet, Ford
- Stefano Villanti, Qoros
- Mr Michael Huang, China Telecom
- Madam Huang Yuhong, China Mobile
- Mr Ma Yan Director, China Unicom
- Peter Zhou, Telematics@China
  Community (TCC)

Further Discussion for OEMs and MNOs in the afternoon, if you are interested in attending please contact Emma Kane.



For more information: <a href="https://www.gsma.com/connectedliving/mautomotive">www.gsma.com/connectedliving/mautomotive</a>

Or Contact: <u>mautomotive@gsma.com</u>

# Thank you