

PTOLEMUS Consulting Group

# **The Connected Mobility Global Forecast**

*Quantifying future connected car services*

April 2016 - PTOLEMUS intellectual property



# The consulting & research firm for the connected world

## Our consulting services

### Strategy definition

Vision creation, strategic positioning, business plan development, board coaching & support

### Investment assistance

Strategic due diligence, market & technology assessment, M&A, post-acquisition plan

### Procurement strategy

Specification of requirements & tender documents, launch of tenders, supplier negotiation & selection

### Innovation management

Value proposition definition, product & services development, architecture design, assistance to launch

### Business development

Partnership strategies, detection of opportunities, ecosystem-building, response to tenders

### Implementation

Deployment plans, complex project & programme management, risk analysis & mitigation strategy

## Our fields of expertise

### Car infotainment & navigation

Connected services (Traffic information, fuel prices, speed cameras, weather, parking, points of interest, social networking), driver monitoring, maps, smartphone integration, smartphone-, PND- or embedded navigation,

### Usage-based charging

Connected insurance, road charging / electronic tolling, fleet leasing & rental, car sharing, Car As A Service, etc.

### Telematics & Intelligent Transport Systems

ADAS, connected vehicle, crowd-sourcing, fleet management, eCall, bCall, SVR, tracking, vehicle data analytics (OBD / CAN-bus), VRM, V2X, xFCD

### Positioning / Location enablement

### M2M & connectivity

# We help clients across the mobility ecosystem...

## Analytics providers



## Automotive manufacturers & suppliers



## Mobile telecom operators



## Applications providers



## Telematics solution providers



## ITS operators, regulators & fleets



## Device / location suppliers



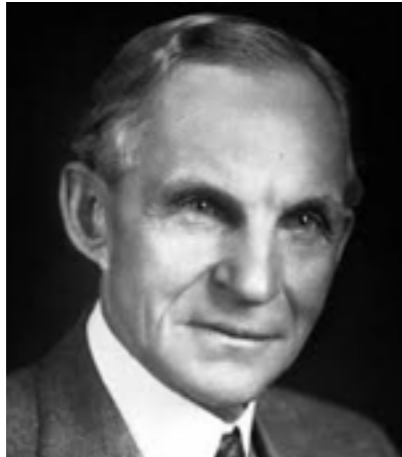
## Insurers, aggregators & assistance providers



## Banks & private equity investors



# From the automotive world to the connected mobility world



*“There is one rule for the industrialist and that is: make the best quality goods possible at the lowest cost possible”*

Henry Ford, Founder

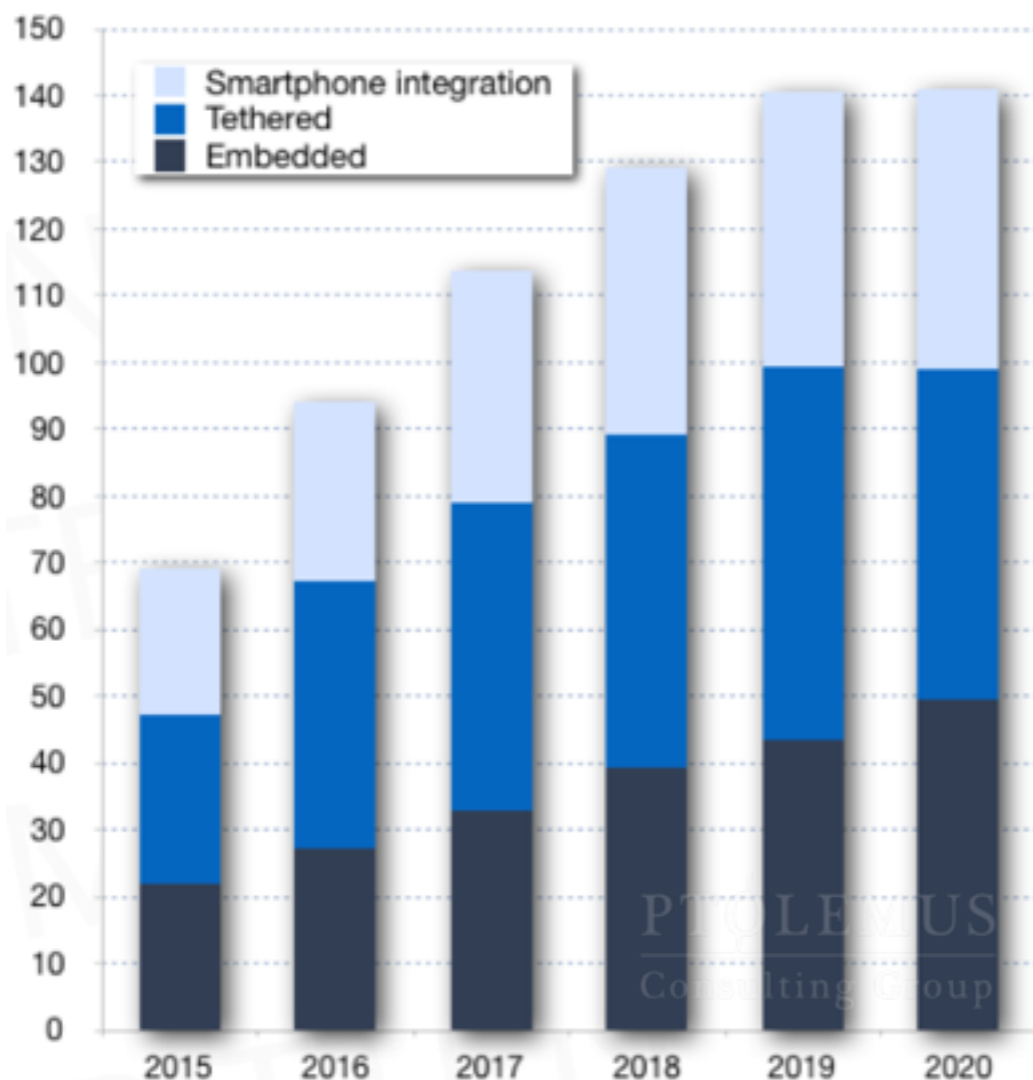


*“We are driving innovation in every part of our business to be both a product and mobility company”*

Mark Fields, CEO

## Cars are increasingly connected, making it easier to bring new services to drivers

New connected vehicles sold globally (million)



- The number of newly produced connected vehicles will double between 2015 and 2020
- Broadband is reaching the car, encouraged by mobile network operators
- 4G / LTE networks are now commercially available in **143 countries**
- The eCall and ERA Glonass mandates in Europe and Russia will **accelerate embedded connectivity in new vehicles**

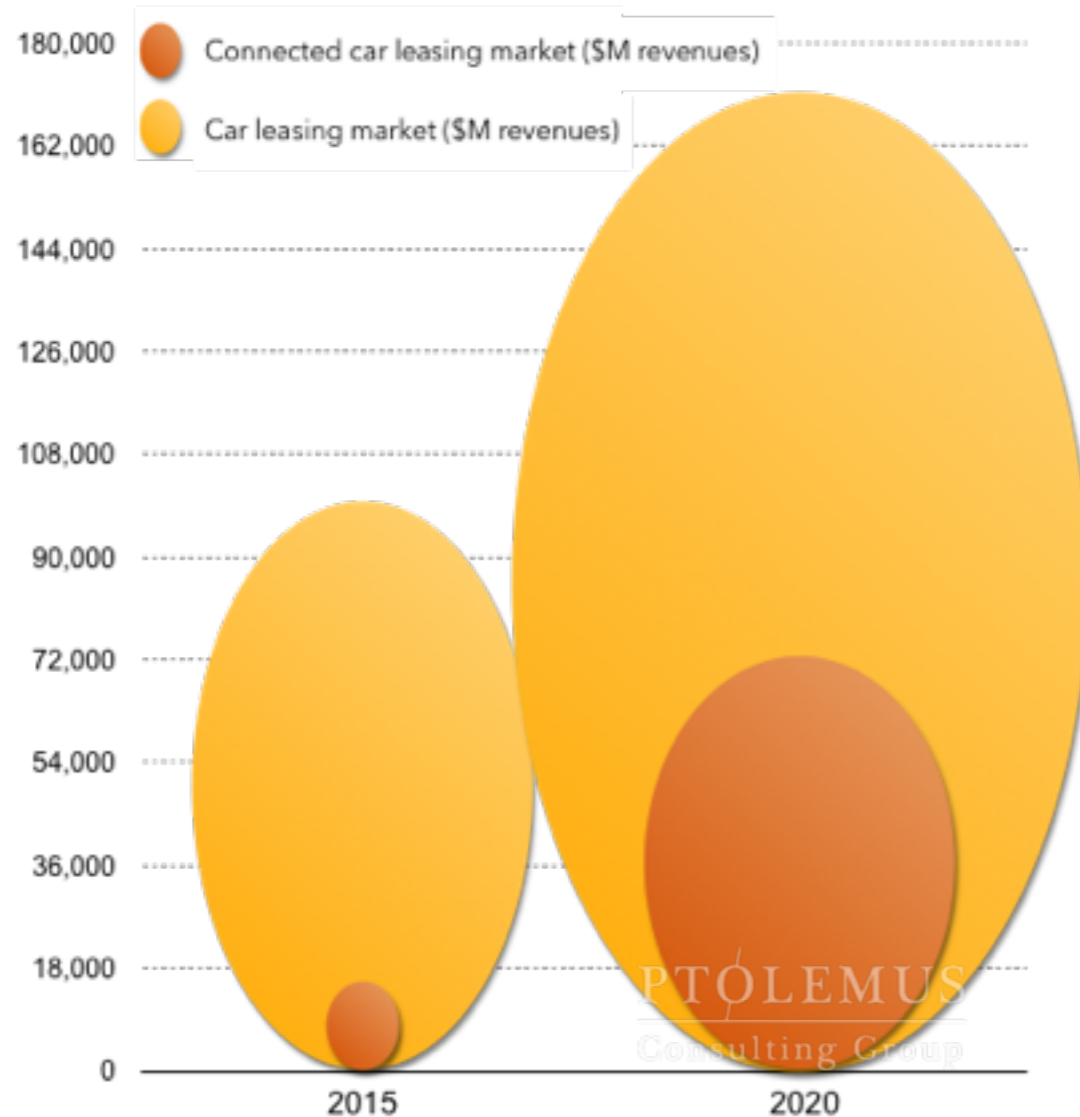
# By 2030, connected cars will have become the norm

Passenger cars with embedded connectivity in Europe (million)



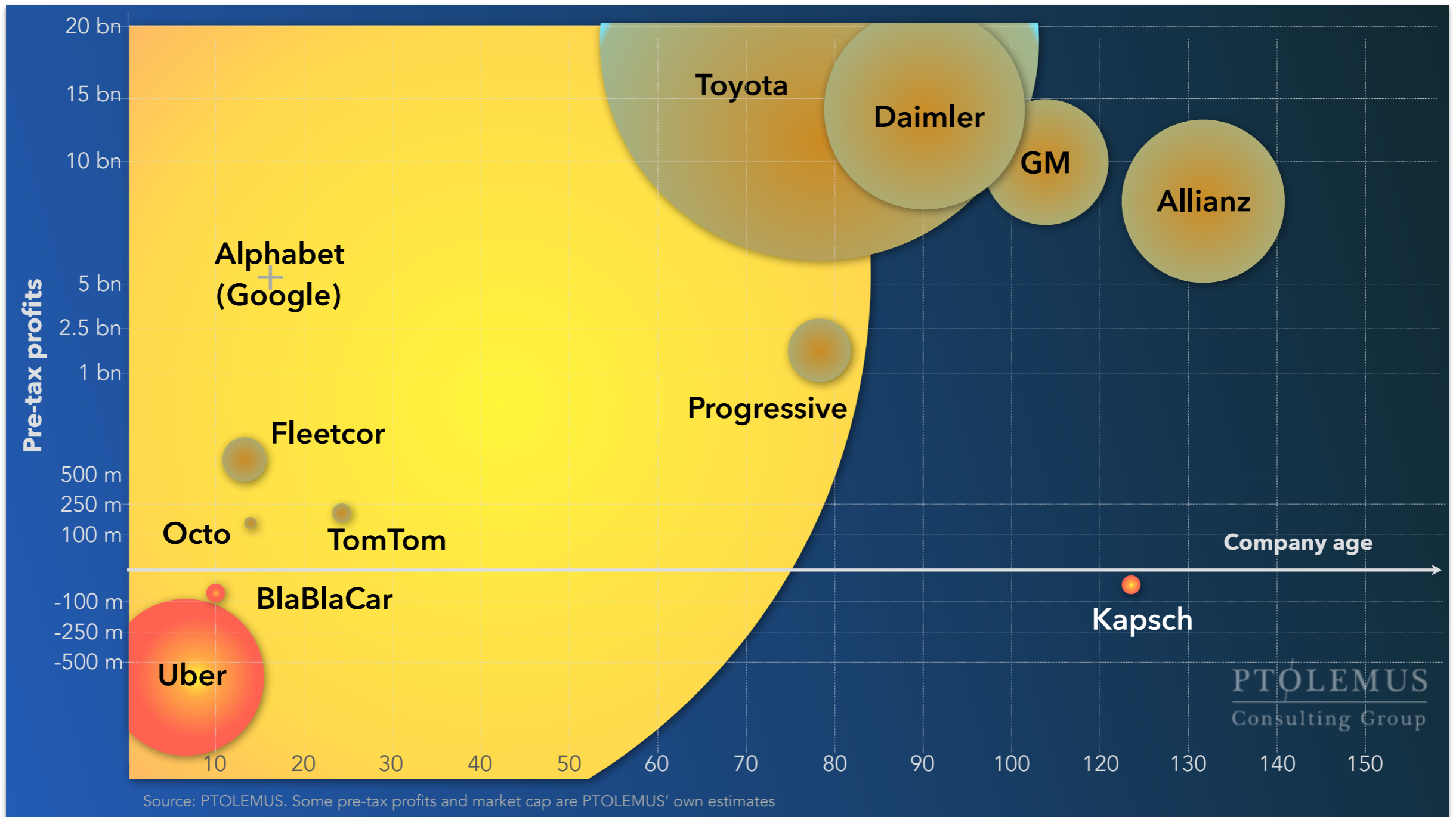
# The connected share of mobility services is growing rapidly

## Revenue forecasts for the leasing industry



- By 2020, connected car mobility services will equip **650 million cars** (400 million in the aftermarket) and generate **\$350 billion** in revenues
- As exemplified with the leasing sector, the growth of the connected services will **accelerate the whole sector**
- While most OEMs have mobility offerings, their share of the connected mobility services market will decrease
- In 2020, **aftermarket providers** will generate 84% of all service revenues
- None of the 14 services we assess will be **provided individually**
- At the centre of this growth is the **ability to access driver and car data**

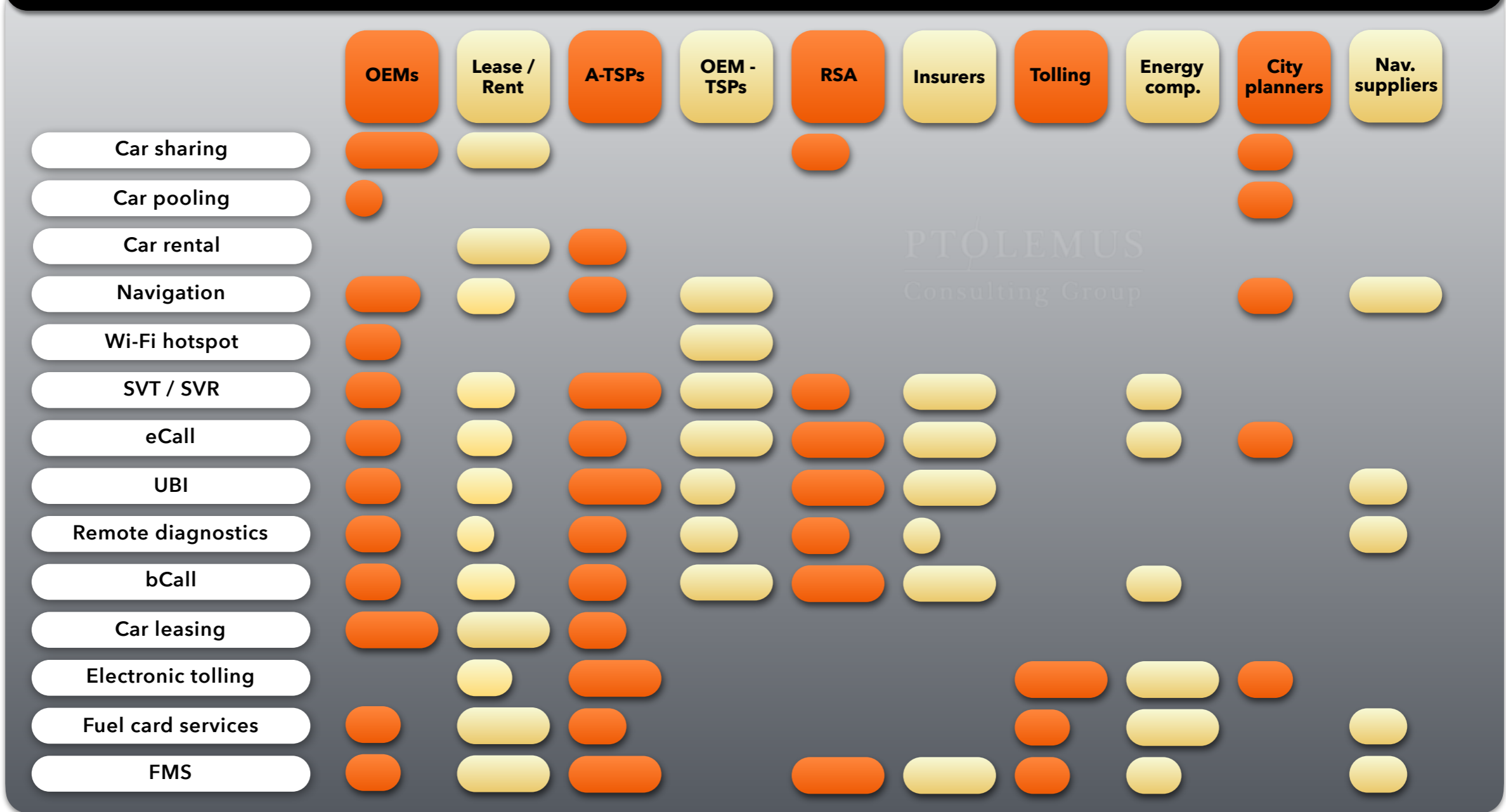
# In a few years, mobility start-ups have become more valuable than traditional players





# Car makers, leasers and telematics service providers offer the largest range of mobility services

Presence of different stakeholders in mobility services



# The Connected Mobility Forecast examines how connectivity is revolutionising 14 car services



# It brings the most comprehensive analysis of connected mobility markets ever published



## 220-page analysis of 14 mobility markets

- The future evolution of the complete connected mobility sector analysed
- 75 charts encapsulating the essence of the mobility market evolution
- 18 countries and areas covered

## 14 analyses of mobility services worldwide including

- Delivery, service and business models
- Devices & technologies used
- The value chain for each service
- Regulatory and competitive environment
- All major current and future market trends in each market
- 650 stakeholders mentioned
- All key mergers & acquisitions
- Connectivity uptake in each region
- Key volume & revenue drivers

## Global, regional and country-wide volume & revenue forecasts

- Bottom-up forecasts of 14 connected services and their underlying markets
- Revenues generated for both Mobility Service Providers (MSPs) and their Connected Solutions Providers (CSPs)
- Number of connected cars by service measured and forecast across 18 global markets along with service penetration rates

## 4,200-line market forecast output data sheet including:

- The total addressable market in volume and value seen from the MSP and the CSP perspective
- The total underlying volumes and revenues by country
- The volume and revenue bottom-up forecasts for MSPs and CSPs
- The split between OEM and aftermarket volumes & revenues

# A report written by an international team of recognised experts

## Frederic Bruneteau, Managing Director, Brussels



- 20 years of experience including 17 years of experience of the mobility domain
- 12 years of strategic advisory with **Arthur D. Little**, **BNP Paribas**, **SFR Vodafone** and **TomTom**
- One of the world's foremost experts in the field of telematics, quoted by numerous publications such as *The Economist* and *Reuters*.
- Spoke at 35 international conferences on the subject.

## Mathieu Noël, Senior Consultant, Paris



- 6 years of experience in the automotive industry covering technical, strategy, marketing and business development, including 4 years in consulting.
- Performed more than 20 assignments in the automotive, insurance and assistance industries.
- Expert in the fields of vehicle data, fleet management and UBI

## Alberto Lodieu, Senior Consultant, Paris



- 6 years of experience in strategic and operations consulting in Europe and Latin America
- Performed more than 20 assignments in the banking, insurance & transportation industries.
- Led our recent Autonomous Vehicle analysis

## Thomas Hallauer, Director of Research, London



- 12 years of marketing & research experience in the domain of telematics and location-based services.
- Expert in new products and services in the telematics, motor insurance, electronic tolling and positioning industries.
- Held management responsibilities with **Mobile Devices**, a telematics platform provider and with **TU Automotive**.

## Denis Gavrilov, Associate Partner, Moscow



- 10 years of strategic and operational experience in insurance within international and local companies in Russia
- Expert at designing digital and telematics products for insurance companies such as Allianz and Vazhno

## Philippe Brousse, Business Analyst, Brussels





- Experience of strategy consulting
- 7 assignments performed in fleet management, UBI, emergency services
- Recently built our UBI and Autonomous Vehicle forecasts

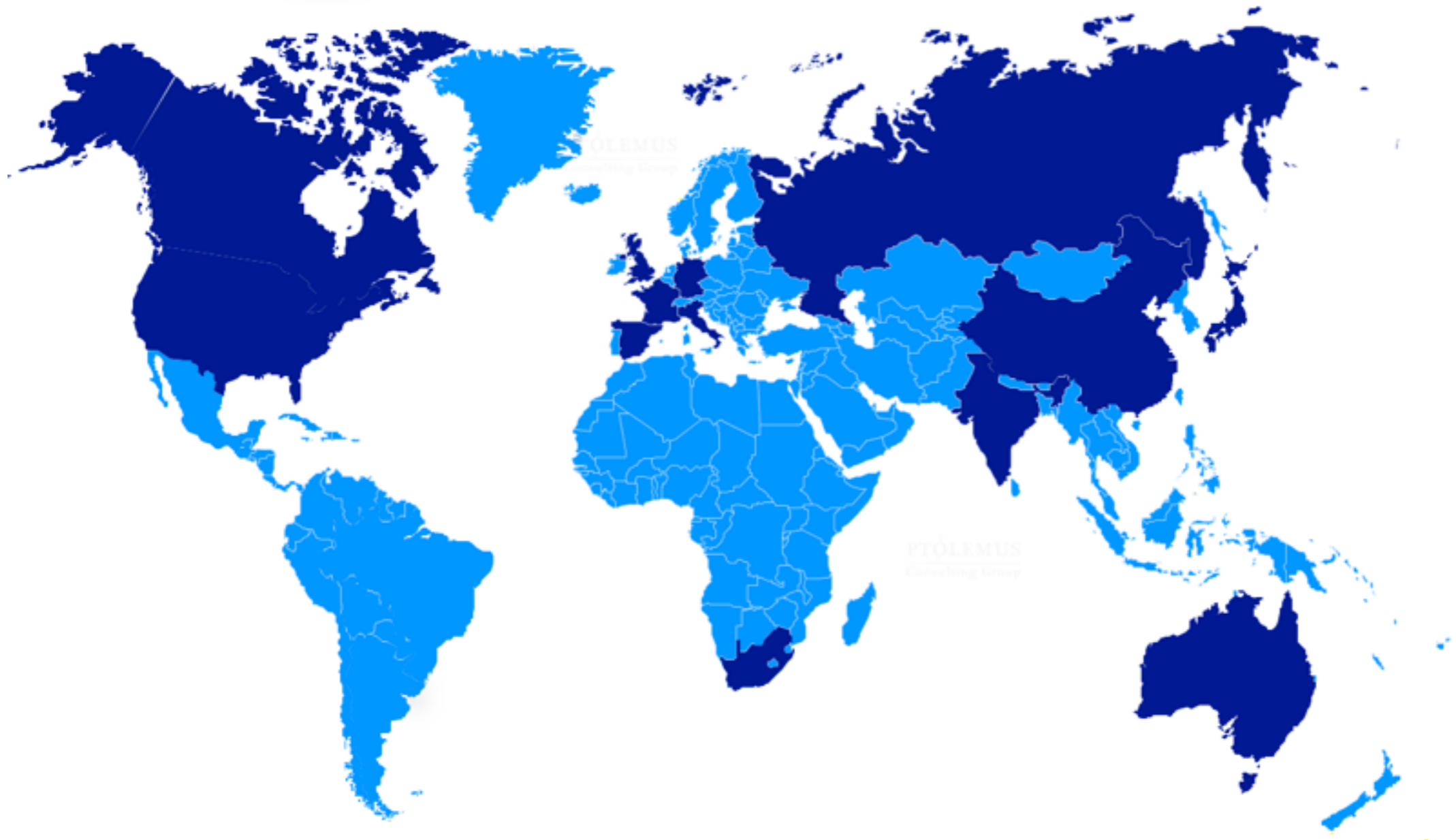
## Justin Hamilton, Business Analyst, London



- 3 years of experience within the transportation, road user charging and connected mobility markets
- Assignments performed in roadside assistance, UBI and fleet management

# The analysis and the forecasts cover the whole world and 18 specific countries

 Country-by-country analysis  Regional analysis



# The report assesses the total addressable market and geographical spread of 14 services

The Connected Mobility Global Forecast 2016 includes for each service:

- World maps identifying the **location and penetration of services**
- The **total addressable market** in volume and value seen from the Mobility Service Provider (MSP) and the Connectivity Service Provider's (CSP) perspective
- **Main players** for each service identified and listed
- **Complete value chain** for each service
- Comprehensive list of **relevant mergers and acquisitions** over the past 5 years



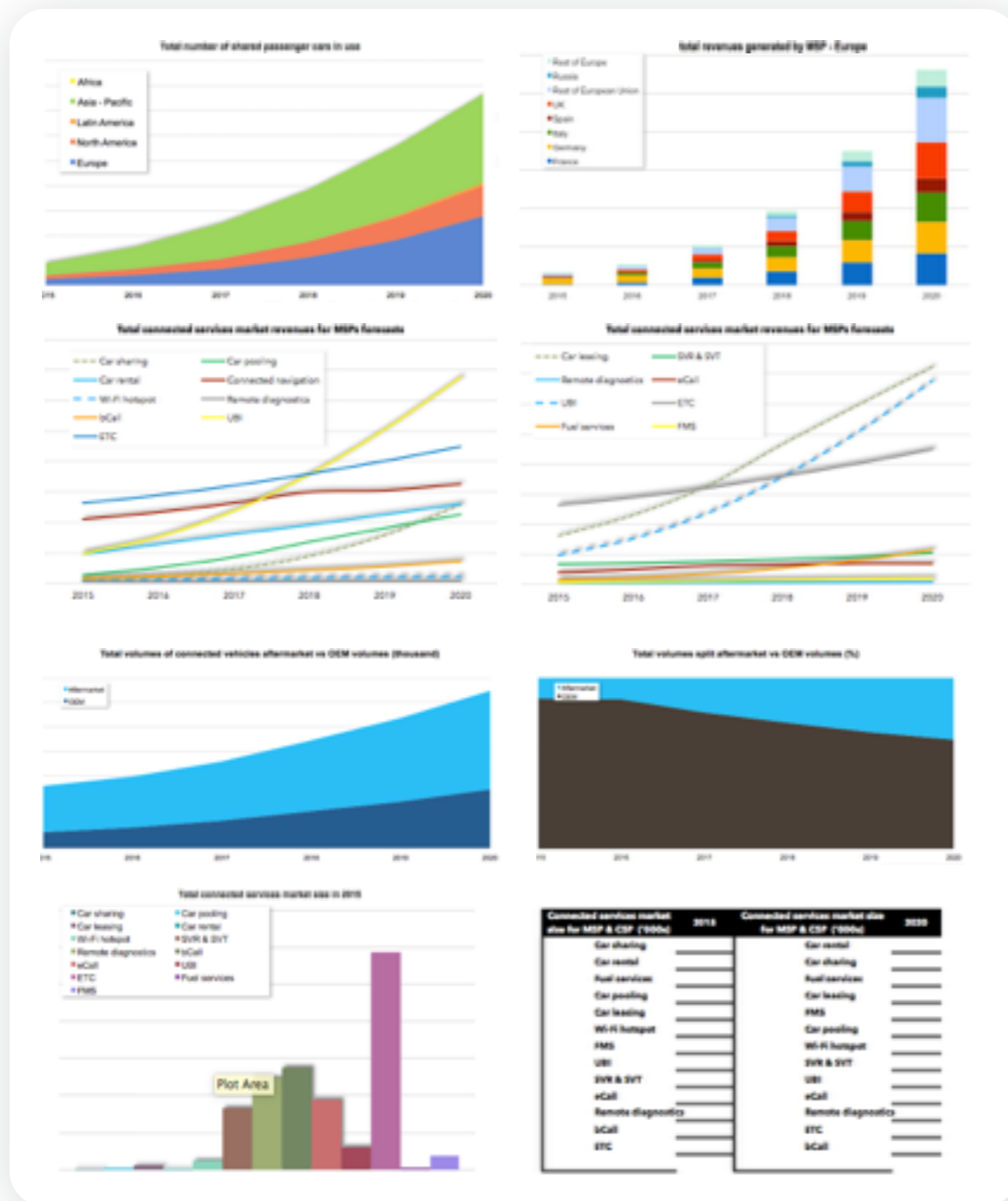
# Each service is analysed in a qualitative handbook with detailed market trends and conclusions



For each of the 14 mobility services, the Forecast provides:

- Definitions, typical applications & devices in use
- High level **technical architecture**
- Current **market trends and major market movers**
- **Future trends** based on a close analysis of each market
- Regulatory evolutions
- Level of **service adoption by region**
- Case studies

# The Forecast also comprises an Excel file containing over 200 graphs, 5,000 calculations and 4,200 lines of outputs



The Connected Mobility Global Forecast 2016 is provided with the underlying data sheet.

The Excel document includes **the output of the 14 forecasts for 18 geographical markets.**

The **4,200 line workbook** includes (for each service):

- The total underlying **volumes and revenues per country**
- The **volume and revenue forecasts** for the MSPs and the CSPs
- The **split between OEM and aftermarket** volumes and revenues



# The Forecast gives you a decisive edge when making decisions on the emerging mobility services market



Reference volumes and forecasts for the emerging mobility market

| Complete document with 2015-2020 market forecasts |  |
|---|--|
| <b>Contents</b>                                   | <ul style="list-style-type: none"> <li>• 225-page market forecast (PDF format, password-protected)</li> <li>• 14 mobility services analysed, including 100+ charts and graphs</li> <li>• Total addressable market - volume &amp; value for each service</li> <li>• 5 year bottom-up forecasts of market units &amp; revenues</li> <li>• 4,200+ lines of outputs &amp; 200+ graphs</li> </ul> |
| <b>Company-wide licence</b>                       | <p><b>€ 4,995</b><br/>Approx. \$5,646</p>  |

For more information and to order the forecast, contact [thomas@ptolemus.com](mailto:thomas@ptolemus.com)

# Understand the revolution of 14 car services in 18 countries



PTOLEMUS Consulting Group  
Strategies for Mobile Companies

Brussels - Boston - Chicago - Hanover - London  
Milan - New York - Moscow - Paris

[contact@ptolemus.com](mailto:contact@ptolemus.com)

[www.ptolemus.com](http://www.ptolemus.com)

@PTOLEMUS

