

PTOLEMUS Consulting Group

Usage-Based Insurance Supplier Ranking 2016

Presentation of headline winners

27th June 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 assessment, feasibility study, 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 / high risk 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

PAYD / PHYD 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

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

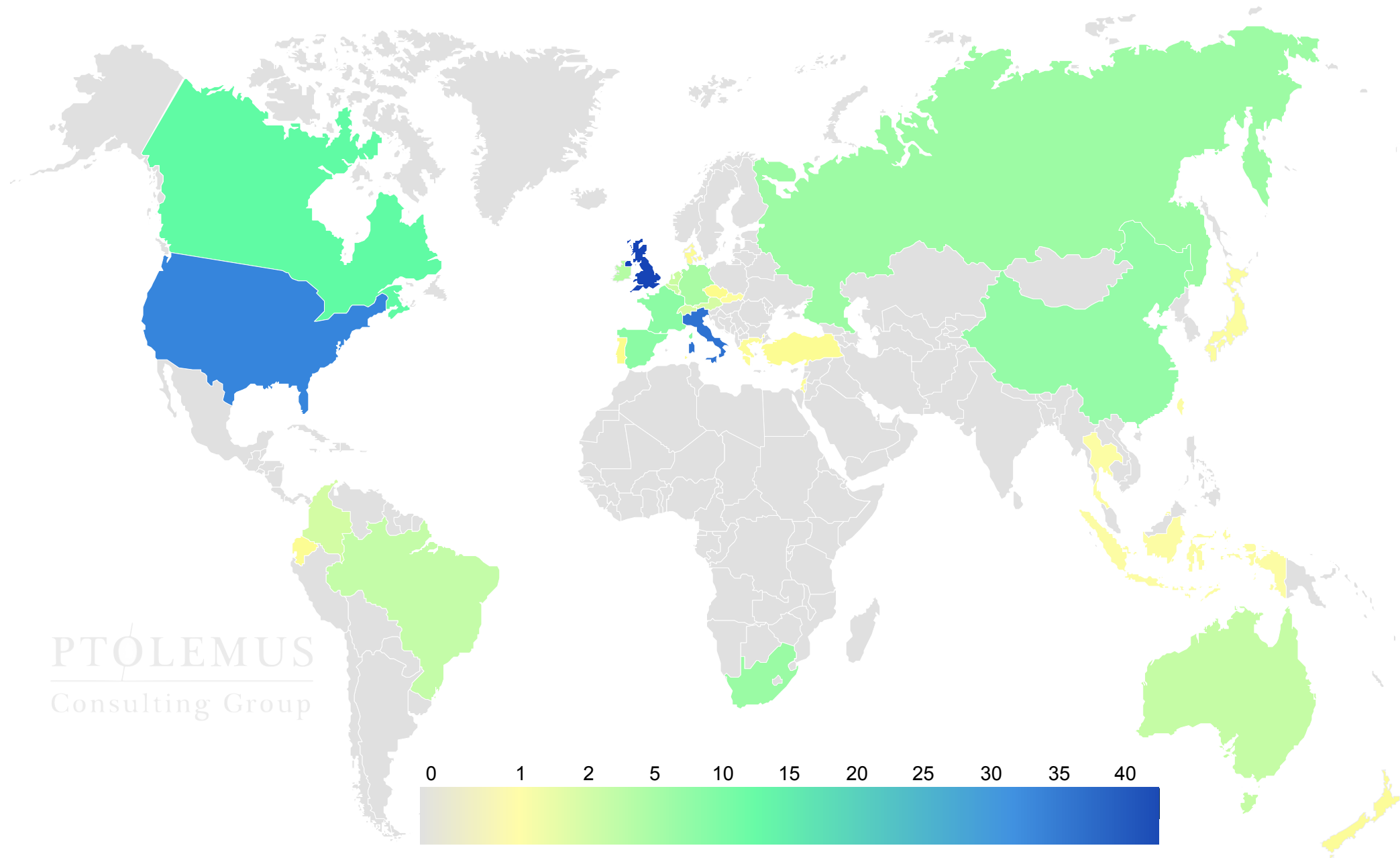


Banks & private equity investors

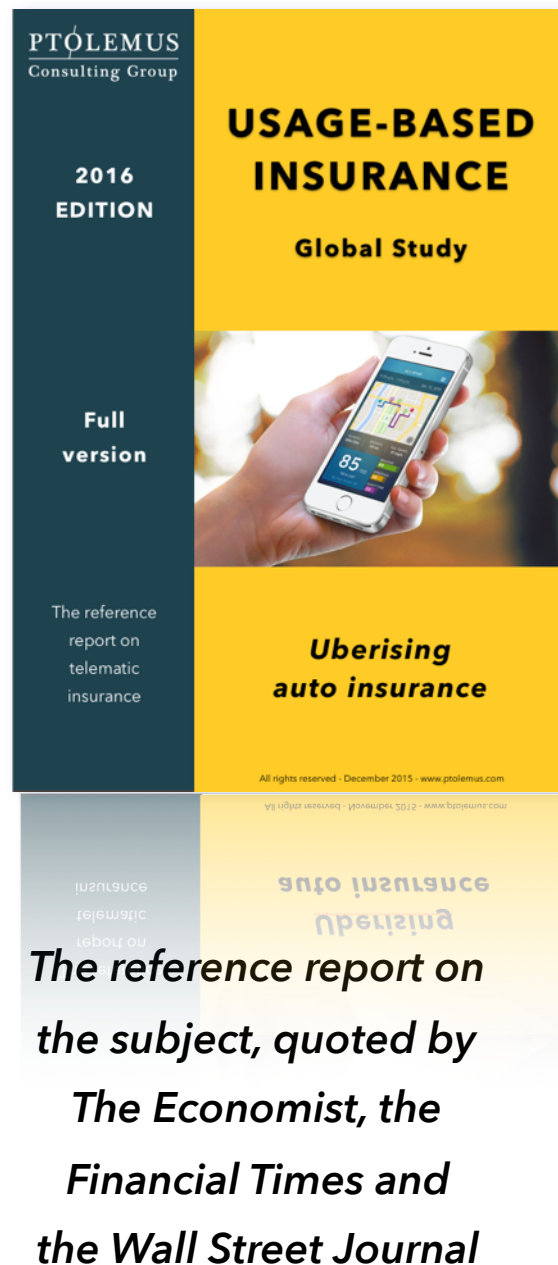


UBI has spread to the 5 continents

Number of active UBI programmes worldwide



The UBI Global Study has become the reference report

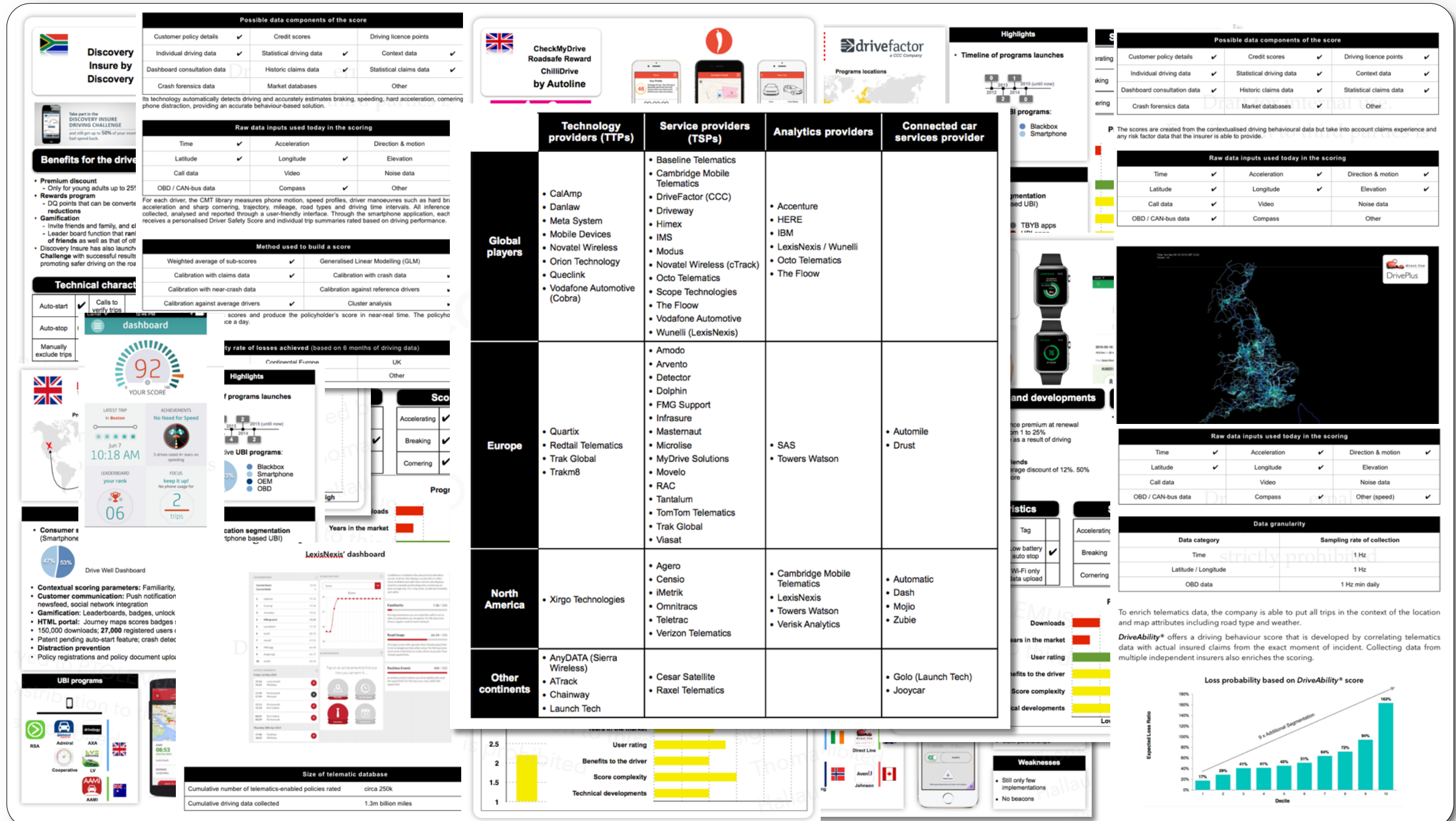


- **1100 pages of research using:**
 - 286 interviews in 28 countries
 - 5 years of research performed by 6 consultants in 4 countries
 - Insights from 25+ consulting projects
 - Our experience & vision of the ecosystem incl. OEMs and TSPs
 - 422 figures (charts, tables, etc.)
- **42 case studies** including Allianz, AllState, Carrot Insurance, Vodafone Auto, Ingenie, OnStar- Progressive, Discovery Insure, Liberty Mutual, Octo Telematics, Renault Amaguiz, State Farm, Unipol, Zurich
- **A handbook of 69 suppliers' solutions** including our own evaluation and ranking
- **28 insurance markets profiled**
- **2020 & 2030 market forecasts**
 - Canada, US, Latin America, Europe, Russia, South Africa, India, Chinese and Japan
 - Personal line / commercial line
 - Aftermarket / OEM
- **Analyses of the disruptive forces at play**
 - ADAS and autonomous vehicles
 - The eCall & ERA Glonass mandates
 - The rise of smartphone apps
 - Big Data & analytics
- **Targeted recommendations** for insurers, regulators, TSP, OEMs and operators

Based on interviews of more than 200 new companies in 30 countries including 86 insurers & brokers

Organisation	Country	Organisation	Country	Company name	Country	Sector	Company name	Country	Sector	Company name	Country	Sector	Organisation	Country
AAA Club Partner	USA	BMW	Germany	Market IP	Belgium		CLAL Insurance	Israel	General i	Generali France	France	General insurance	Telekom Austria Group	Austria
Achmea	USA	Bouygues Telecom	France	Marks & Spencer	UK		Clarion	Japan	In-car audio	Generali Group	Italy	General insurance	Telenor Connexion	UK
ADAC	Germany	Cambridge Mobile Telecom Inc.	USA	Marmalade Group	UK		CMA Claims	UK	Claims i	Genertel (Generali Group)	Italy	Consumer insurance	Telit	Italy
Admiral France - L'O	France			Masternaut	Europe		CNIL (Commission Nationale de l'Information et des Libertés)	France	Data protect	Geotab	USA		Telogis	USA
Admiral Insurance	France			Mercedes Benz	Germany		Co-operative Insurance	UK	General i	GirMotor	UK		Teradata Aster	USA
Ageas Continental Eu	France			Meta System	Italy		Cobra Automotive Tech.	Italy	TSP /	GMAC Insurance	USA		Texa	Italy
Agnik	Europe			Michelin	France		Cognizant	USA	Enterprise res	Good Technology	USA		The AA	UK
AIG	Europe			Mitsubishi Electric	Japan		Compagnie Générale d'Automatisme (CGA HBS)	France	Enginee	Google	USA		The Co-operative Insurance	UK
Aioi Nissay Dowa Insu	Europe			Mix Telematics	South Africa		Comparethemarket.com	UK	Online com	Greenroad Technologies	USA		The Floow	UK
Airmax Group	USA			Mobile Devices	France		Confused.com	UK	Online com	Groupama	UK		The Hartford	USA
ALD Automotive	France			Modus	USA		Continental	France	Tier-1 s	Grupo Nacional Provincial	Mexico		TomTom	Netherlands
Allianz	Japan			MOJIO	USA		Corporate Vehicle Observatory	France	Research	Hannover re	Worldwide		TomTom Business Solutions	UK
Allianz	Italy			Money Super Market	UK		Covea Group	France	General i	Harman	USA		Touring	Belgium
Allianz	South Africa			Montezemolo & Partners	Italy		Coverbox	UK	Consumer	Hastings Direct	UK		Toyota	Belgium
Allstate Insurance	France			Moody's	USA		Coverhound	USA	General i	HDI Gerling	Global		Toyota Insurance Management	Belgium
Alta Assurance	France			MORE TH>N	UK		Coyote	Europe	TI	HERE (formerly Navteq)	Worldwide		Toyota Insurance Management	UK
Amadeus Capital Par	USA			Motaguide	UK		Crédit Mutuel Arkea	France	Consumer	High Point Auto Insurance	USA		Trac Global	UK
Amaguiz (Groupan	Slovenia			Movelo	Sweden		cTrack (Digicore)	South Africa	TS	Himex (Evogi Group)	USA		Tracker	South Africa
American Family	Italy			MyDrive Solutions	UK		Cybit Masternaut	UK	TS	Hitachi	Japan		Traqueur	France
AnyDATA Corporati	Netherlands			Nationwide Insurance	USA		Daimler Fleetboard	Germany	TS	Hollard Insurance	South Africa		Trafficmaster	UK
Apicom	USA			Navteq / HERE	France		Daimler Insurance Services	Germany	OE	Honda	Japan		Transics	Belgium
Arval	Finland			navya	France		Danlaw	USA	TI	HopeRun Technology	USA		Travelers Insurance	USA
Association of Brit Insurers	USA			ND a Islandi Ehf	Island		Data Tec Co Ltd	Japan	OE	Hyundai	South Korea		Trimble MRM	USA
Atos	UK			NIS Gionass	Russia		Davis Instruments	USA	TI	ID Macif	France		TRL	UK
ATrack Technolog	France			Nissan Europe	Europe		DBV Winterthur	Germany	General i	IDM Trucking	USA		Uniq	Austria
Audiovox	France			Nissan Motor Corporation	USA		Delphi	USA	Tier-1 s	If Insurance	Sweden		Uralsib	Russia
Autoline	France			No Nonsense Insurance	N. Ireland		Denso	Germany	Tier-1 s	iGate	UK		US Department of Transport	USA
Autosaint (Fresh! Insu Group)	Italy			Nokia	Finland		Department of Transportation	USA	Gover	iGo4	UK		Vehcon	USA
Aviva (formerly Norw Union)	UK			Norton Rose	UK		Detector	Spain	TS	iKube	UK		Verizon Telematics	USA
Axa Assistance	France			Novacom Europe	Netherlands		Deutsche Telekom	Germany	MI	IMA	France		Viasat	Italy
Axa Belgium	USA			Novatel Wireless	Worldwide		Diamonds	UK	Insuranc	iMetrik Global	USA		Vivium (P&V Group)	Belgium
Axa Global P&C	France			NTT DoCoMo	Japan		Direct Line Germany	Germany	Consumer	IMS	Canada		Vodafone	UK
Axa Matrix Risk Const	Taiwan			NXP	Netherlands		Discovery Insure	South Africa	Consumer	Industrial Alliance	Canada		Volvo Cars	Sweden
Axa Re	USA			ÖAMTC	Austria		Disruptive Capital Partners	UK	Private ei	ICO (Information Commissioner's Office)	UK		Wireless Car	Sweden
Axa UK	Germany			OBd Experts	UK		Diva	UK	Insurance broker	Infrasure	UK		Wunelli	UK
Baseline telematic	USA			Octo Telematics	Italy		Dixon's	UK	Consumer electronics retail chain				Xirgo Technologies	USA
BGL Group Ltd	UK			OECD	France		Drive Power	USA	Data management provider				Young Marmalade	UK
Bird & Bird	UK												Zurich	Italy
BluO Fund	Europe												Zurich	UK
	UK												Zurich Financial Services	France
	UK													

Complemented by 78 company and solution profiles



From this research we analysed and ranked UBI suppliers

Four categories of shortlisted suppliers

- **21 Telematics Technology Providers (TTP)**
 - TTPs provide the technology, typically the black box or the OBD dongle to insurance or service providers
- **28 Telematics Service Providers (TSP)**
 - TSPs provide solutions to insurers to deploy and run UBI programmes. Those solutions can include their own device or subcontract to a TTP
- **9 Smartphone Service Providers (SSP)**
 - While TSPs often also offer smartphone-enabled services and programmes, SSPs focus primarily on smartphone-only UBI solutions to insurers
- **9 Analytics Solution Providers (ASP)**
 - ASP are independent companies or TSPs that provide additional intelligence and solutions to insurers to improve their risk analysis and scoring

	Telematics Technology Providers (TTPs)	Telematics Service Providers (TSPs)	Smartphone Service Providers (SSPs)	Analytics Solution Providers
Global players	<ul style="list-style-type: none"> • Calamp • Danlaw • Meta System • Mobile Devices • Novatel Wireless • Orion Technology • Queclink • Vodafone Automotive (Cobra) 	<ul style="list-style-type: none"> • Baseline Telematics • DriveFactor (CCC) • Himex • IMS • Modus • Novatel (cTrack) • Octo Telematics • Scope Technology • Vodafone Automotive • Wunelli (Lexis Nexis) 	<ul style="list-style-type: none"> • Cambridge Mobile Telematics • Driveway • The Floow 	<ul style="list-style-type: none"> • Accenture • HERE • IBM • LexisNexis / Wunelli • Octo Telematics • The Floow
Europe	<ul style="list-style-type: none"> • Bosch • Drust • Quartix • Redtail Telematics • Trak Global • Trakm8 	<ul style="list-style-type: none"> • Arvento • Detector • Dolphin • FMG Support • Masternaut • Microlise • RAC • Tantalum • TomTom Telematics • Trak Global • Viasat 	<ul style="list-style-type: none"> • Amodo • Infrasure • Movelo • MyDrive Solutions 	<ul style="list-style-type: none"> • SAS • Towers Watson
North America	<ul style="list-style-type: none"> • Delphi • Xirgo Technologies 	<ul style="list-style-type: none"> • Agero • iMetrik • Omnitrac • Teletrac • Verizon Telematics 	<ul style="list-style-type: none"> • Censio • DriveFactor (CCC) 	<ul style="list-style-type: none"> • Cambridge Mobile Telematics • Towers Watson • Verisk Analytics
Other continents	<ul style="list-style-type: none"> • AnyDATA (Sierra Wireless) • ATrack • Chainway • Launch Tech • SinoCastel 	<ul style="list-style-type: none"> • Cesar Satellite • Cobli • Location World • Raxel Telematics 		

In each supplier category, we used 15 specific criteria (1/2)

Methodology

- We have endeavoured to make an **independent judgment** on the ability of the shortlisted suppliers to provide superior UBI technology and/or services today
- The analysis is based on
 - Our existing expertise of the market and key players
 - A questionnaire sent to participating suppliers
 - Internal research and analysis
 - In-depth interviews with the suppliers and their partners
 - Feedback from insurance companies
- We have ranked suppliers through a specific set of criteria for each supplier category
- When suppliers could be included in several supplier categories, we entered them into each of the relevant categories

Telematics Technology Providers

1. Competitiveness based on **price** vs. feature, quality and reliability
2. Ability of the device to provide various means of **internet connectivity**
3. Technical **specification** of the device including processing power, storage, positioning methods and power consumption
4. Ability of the technical platform to work with **3rd party applications** and be remotely **upgradeable**
5. Level of possible **customisation**
6. Capabilities of the device to handle **diagnostic** queries
7. Quality and scope of the **driving data** recorded and registered by the device
8. Device's **crash detection** capabilities and reliability
9. Technical solution ability to **ID the driver**
10. Geographical **footprint** of the company and its regional focus
11. **Focus** the company has placed on Usage-based Insurance,
12. Supplier's long-term **sustainability**
13. **Innovative character** of the solution & the supplier as a whole
14. Number of **active programmes** globally and by region
15. Number of **active devices** globally and by region

In each supplier category, we used 15 specific criteria (2/2)

Telematics Service Providers

1. Richness, depth and quality of **scoring** capabilities including use of OBD data, on/off board scoring and external data sets
2. **Range of data** used for scoring from on-board libraries to VIN
3. Range of **features** available to insurers (from FNOL to SVR to social media integration)
4. Ability to offer **Value Added Services** alongside UBI (from eco-driving to post-accident services to Wi-Fi hotspot)
5. Ability & experience to provide **claims & accident management**
6. Level of service and quality of **support** provided
7. Degree of possible **customisation** and flexibility of **proposed integration models**
8. **Control over the hardware** part of the solution
9. **Ability to offer a competitive smartphone only solution today**
10. Geographic **footprint** and regional focus
11. **Focus** the company has placed on UBI and regionally, the share of its business coming from UBI
12. Supplier's long-term **sustainability**
13. **Innovative** character of solution and company as a whole,
14. Number of **active programmes** globally and by region
15. Number of **active subscriptions** globally and by region

Smartphone Service Providers

1. Ability to provide an **autostart** function and detect journeys accurately and consistently
2. Reducing the application's impact on the smartphone's **battery** when active as well as sleep mode
3. Capacity to **identify the driver** of the vehicle
4. Ability to differentiate between driving and being driven or traveling on another **transport mode**
5. Functionalities to minimise **driver distraction** embedded in the application
6. Solution including **image analytics** for accident management or/and registration and fraud prevention
7. Ability to detect & measure the severity of a **crash**
8. Ability to offer **Value Added Services** alongside UBI (from Points of Interests to navigation)
9. Ability to integrate with an **OBD** dongle as an option
10. Ability to integrate a Bluetooth Low Energy **beacon** as an option
11. Richness, depth & quality of the **scoring** capabilities including use of various sensors and external datasets
12. Experience of providing various **models** of UBI applications with different value propositions
13. **Innovative** character of solution and company as a whole
14. Number of **active programmes** globally and by region
15. Number of **active subscriptions** globally and by region

Global UBI supplier ranking 2016 - Technology Providers



Black boxes



OBD dongles

Global UBI supplier ranking 2016 - Telematics Service Providers



North American UBI supplier ranking 2016 - Technology Providers



North American UBI supplier ranking 2016 - Telematics Service Providers



European UBI Supplier ranking 2016 - Technology Providers



Black boxes



OBD dongles

European UBI supplier ranking 2016 - Telematics Service Providers



Black boxes



OBD dongles



Smartphone apps

Asian UBI supplier ranking 2016 - Technology Providers



Asian UBI supplier ranking 2016 - Telematics Service Providers



PTOLEMUS Source: PTOLEMUS Consulting Group 19

6 ways connectivity will disrupt insurance analysed

1- Big Datanalytics: future scores & actuarial models

- How to leverage telematics with analytics
- Which data to collect and what factors to rate
- How to use contextual information
- 10 detailed analytics supplier profiles

2- The impact of autonomous safety functions on the motor insurance industry

- Present & forthcoming autonomous functions affecting risk
- Speed of technology evolution and market uptake
- Analysis and forecast of the effect on UBI

3- Benefits and (lost) opportunities of telematics in accident & claims management

- Internal and external forces affecting the claims management sector examined
- Case studies of successful implementations and best-in-class usage of data in claims
- Recommendations to entice the claims departments

4- The advent of smartphone UBI as a major proposition

- Detailed assessment of the current mobile UBI initiatives worldwide - Key solution providers analysis
- Range of business models assessed and compared
- Technical capabilities and remaining constraints studied

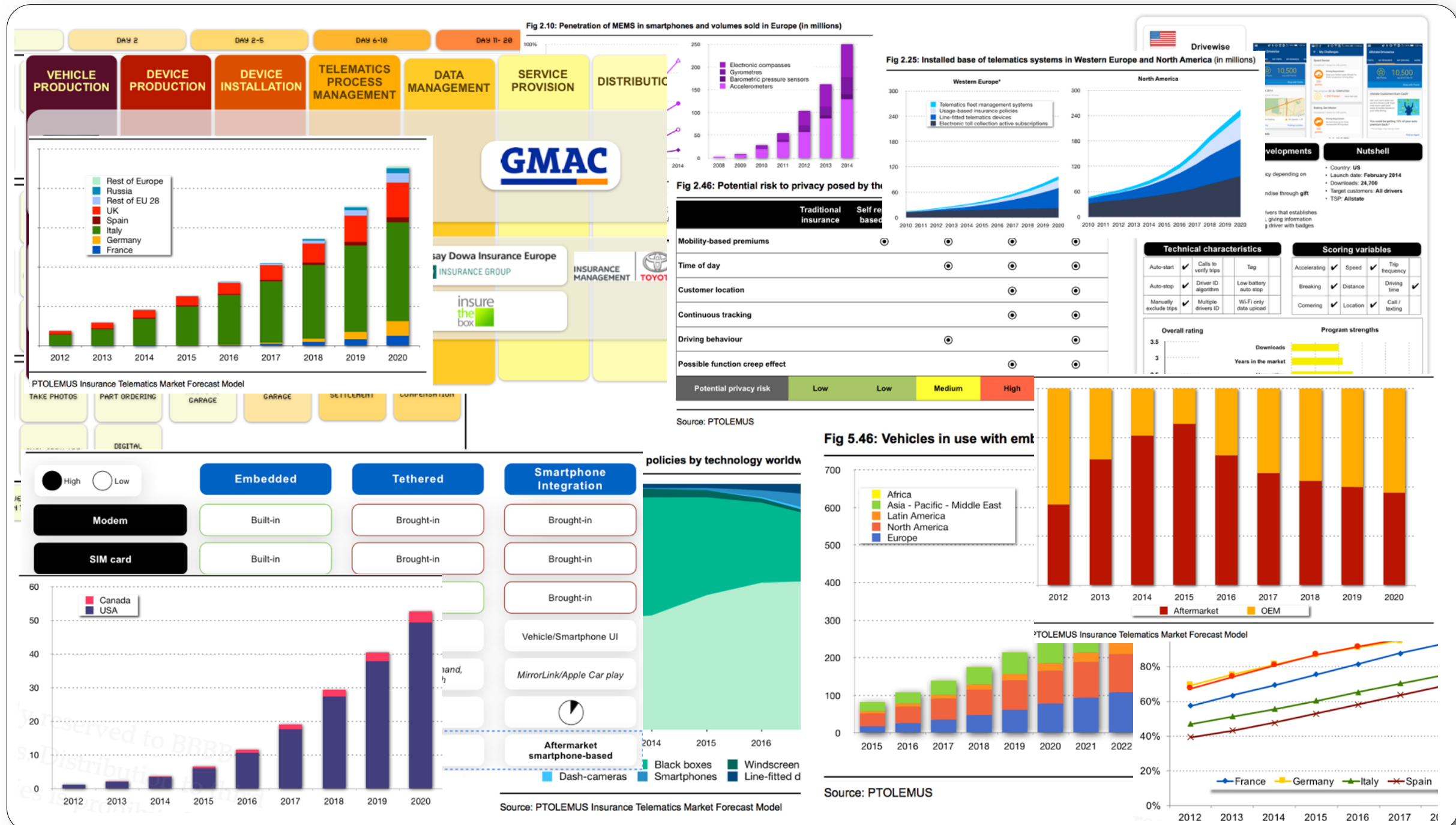
5- The present & future use of the OBD dongles and their data

- Overview of the OBD technology and its capabilities
- VAS and service augmentation opportunities explored
- Analysis of OBD data's main channels to market
- Assessment of the key independent connected car service providers

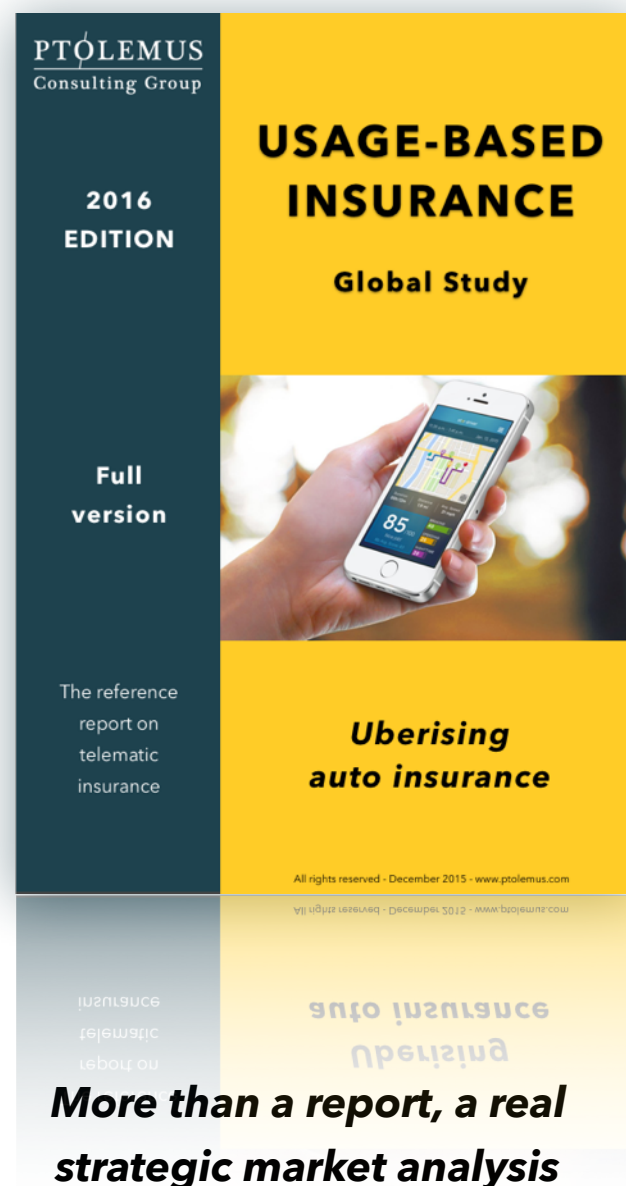
6- The fast changing role of car manufacturers

- Analysis of OEMs position on telematics services and UBI
- Assessment of the opportunities for insurers to use OEM data
- Likely models for insurance - OEM partnerships
- OEM data distribution strategy recommendation

Illustrated by 422 figures validating each statement



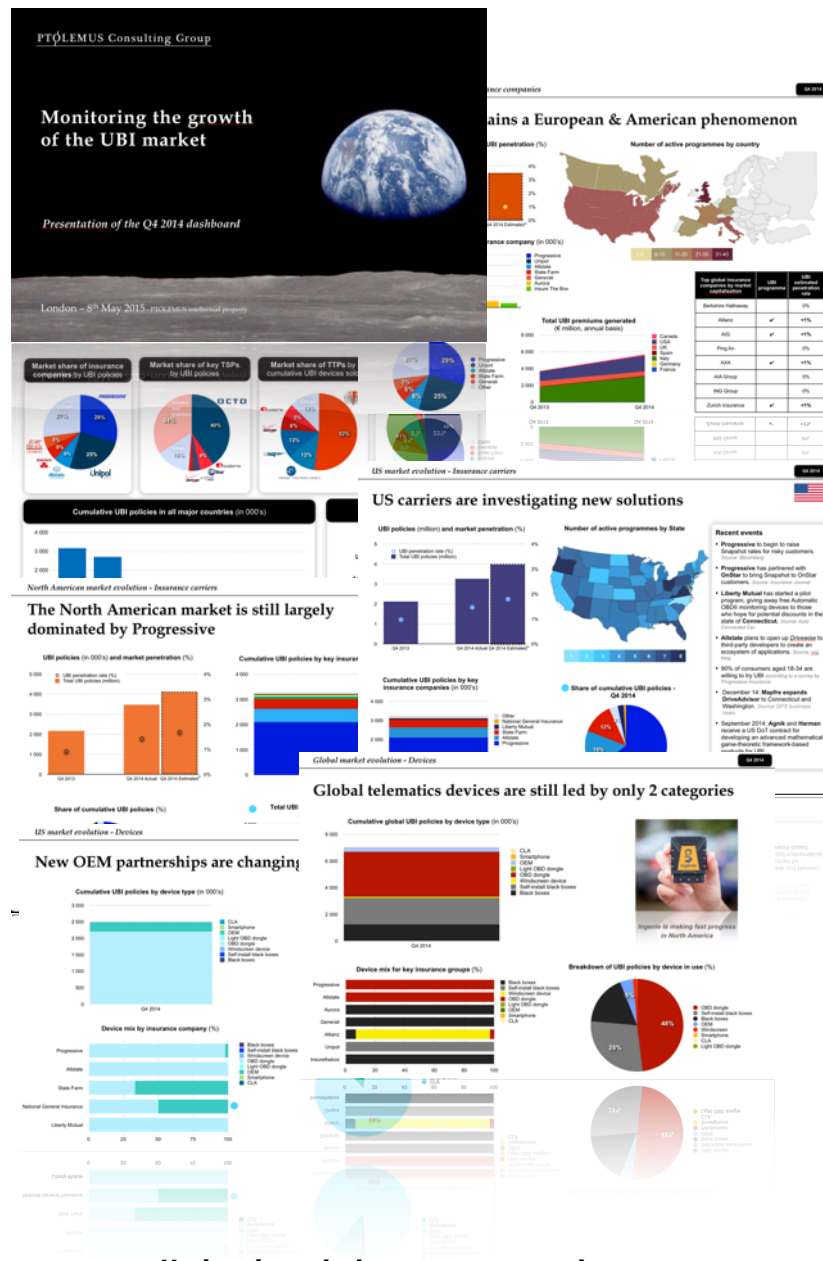
The UBI Study is a searchable PDF document that can be used by the whole company, worldwide



Reports	Full Study	Full Study with 2020 & 2030 market forecasts
Contents	<ul style="list-style-type: none"> • 900+-page study (PDF format, password-protected) • 50 TSP and TTP company profiles • 30 country profiles 	<ul style="list-style-type: none"> • 900+-page study (PDF format, password-protected) • Market forecasts outputs with graphs (Excel format, password-protected) • 50 TSP and TTP company profiles • 30 country profiles
Company-wide licence	€ 6,995 <i>Approx. \$7,685</i>	€ 7,995 <i>Approx. \$8,784</i>

For more information and to order the study, contact us at thomas@ptolemus.com

We now issue a quarterly dashboard of the UBI market



All the hard data you need to define & adjust your strategy

- 60-page barometer of the global UBI industry
 - Covers 170 companies
 - Covers the US, Canada, Benelux, France, Germany, Italy, Spain, the UK, Australia, China, and other Asian countries
 - Issued on a quarterly basis
 - 250+ charts, tables & figures
- Leverages both public information & primary research
 - A large set of public information collected from conferences, desk research, etc.
 - Supplemented and validated by primary research & data (Interviews, supplier questionnaires, own market forecasts, etc.)
- Brings all key market news
- Estimates UBI volumes and sales for all main players
 - Insurance companies
 - TSPs
 - Technology providers
- Deciphers key market trends
 - UBI penetration
 - Number of programmes
 - Mix by business model (PAYD, PHYD, TBYB, etc.)
 - Market share of all main insurers, TSPs and device makers
 - Technology mix (Black boxes, OBD dongles, apps, etc.)
 - Business line mix
 - Segment mix (Young drivers, mature drivers, etc.)
 - Channel mix aftermarket / OEM

PTOLEMUS Consulting Group

Strategies for Mobile Companies

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