

PTOLEMUS Consulting Group

Usage-based Insurance Global Study 2016

Presentation of the 3rd edition

January 2016 - PTOLEMUS intellectual property



PTOLEMUS is the first strategy consulting firm focused on telematics and geolocation

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

Not just the most comprehensive report on UBI, but the biggest ever written study on telematics



The reference report on the subject, quoted by The Economist, the Financial Times and the Wall Street Journal

- **1000+ 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

4 of the 8 authors of this report combine 60 years of experience in the automotive, telematics and connected services

Frederic Bruneteau, Managing Director, Brussels (fbruneteau@ptolemus.com)



Mr. Bruneteau has accumulated nearly 20 years of experience including 17 years of experience of the mobility domain and 8 years of strategic and financial advisory for companies such as Arthur D. Little, BNP Paribas, SFR Vodafone and TomTom.

He has become one of the world's foremost experts in the field of telematics, quoted by numerous publications such as *The Economist* and *Reuters*. He has spoken at more than 20 international conferences on the subject.

Matthieu Noël, Consultant, Paris (mnoel@ptolemus.com)



Matthieu Noël has gained 6 years of experience in the automotive industry covering technical, strategy, marketing and business development, including more than 4 years in consulting.

Mr Noël has performed more than 20 assignments in the automotive and telematics industries. He understands the business and strategic implications of new technologies in the mobility eco-system and can adapt quickly to new industries and situations.

Sergio Tusa, Associate Partner, Milan (stusa@ptolemus.com)



Sergio Tusa has gained over 20 years experience in the telematics, location-based services and automotive domains.

Before PTOLEMUS, Sergio held management responsibilities with Magneti Marelli (Fiat Group), Cobra Automotive, Nokia, Tele Atlas and Philips. He has led several insurance telematics and stolen vehicle recovery projects, for clients such as Cobra, Ferrari, Fiat and Renault/Volvo Trucks.

Thomas Hallauer, Director of Research & Marketing, London (thallauer@ptolemus.com)



Thomas Hallauer has gained 12 years of marketing experience in the domain of telematics and location-based services. He is an expert in new products and services notably in the telematics, motor insurance, electronic tolling and positioning industries.

Before PTOLEMUS, Thomas held management responsibilities with Mobile Devices, a leading provider of telematics technology platform and devices and with FC Business Intelligence (Telematics Update).

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

Organisation		Country	Company name			Country	Sector	
BMW	Bouygues Telecom	Cambridge Mobile Telecom. Inc.	Company name	Country	Sector	Company name	Country	Sector
			Company name	Country	Sector	Company name	Country	Sector
AAA Club Partners	USA		Market IP	Belgium		Generali France	France	General insurance
Achmea			Marko & Spencer	UK		Generali Group	Italy	General insurance
ADAC			Marmalade Group	UK		Generel (Generali Group)	Italy	Consumer insurance
Admiral France - L'O			Marmalade	Europe		Gesitab	USA	
Assurances			Matmut Assurances	France		GHI Motor	UK	
Admiral Insurance			Mercedes Benz	Germany		GMAC Insurance	USA	
Ageas Continental Eu			Meta System	Italy		Secompass.com	UK	
Agnik			Michelin	France		Good Technology	USA	
AIG			Mitsubishi Electric	Japan		Google	USA	
Aioli Nissay Dowa Insu			Mix Telematics	South Africa		Ognizant	USA	Enterprise res
Airmax Group			Mobile Devices	France		Compagnie Générale d'Automatisme (CGA HDS)	France	Engineer
ALD Automotive			Mobileye	Israel		Comparethemarket.com	UK	Online com
Allianz			Modex	USA		Confused.com	UK	Online com
Allianz			MOJIO	USA		Continental	France	Tier-1 s
Allianz			Money Super Market	UK		Corona Direct	Belgium	Bro
Allstate Insurance			Montemurlo & Partners	Italy		Corporate Vehicle Observatory	France	Research
Altima Assurance			Moody's	USA		Coveo Group	France	General i
Amadeus Capital Par			MORE TH-N	UK		Coverica	UK	Consumer
Amaguiz (Groupan			Motorcar	UK		Coverhound	USA	General i
American Family			Myelo	Sweden		Coyote	Europe	TT
AnyDATA Corporati			MyDrive Solutions	UK		Crédit Mutuel Arkea	France	Consumer
Aplicom			Nationwide Insurance	USA		eTrack (Digicom)	South Africa	TS
Arval			Navteq / HERE	France		Cybil Mastermout	UK	TS
Association of Brit			navys	France		Deimler Fleetboard	Germany	TS
Insurers			ND a Islandi Ehf	Iceland		Daimler Insurance Services	Germany	DE
Atos			NIS Glencoe	Russia		Danlen	USA	TT
ATrack Technolog			Nissan Europe	Europ		Data Tec Co Ltd	Japan	OE
Audiovox			Nissan Motor Corporation	USA		Davis Instruments	USA	TT
Autoline			No Nonsense Insurance	N. Ireland		DBW Winterthur	Germany	General i
Autosaint (Fresh! Insu			Nokia	Finland		Delphi	USA	Tier-1 s
Group)			Norton Rose	UK		Dense	Germany	Tier-1 s
Aviva (formerly Norw			Novacom Europe	Netherlands		Department of Transportation	USA	Govern
Union)			Novatel Wireless	Worldwide		Detector	Spain	TS
Axa Assistance			NTT DoCoMu	Japan		Deutsche Telekom	Germany	MP
Axa Belgium			NXP	Netherlands		Diamonds	UK	Insurance
Axa Global P&C			ÖAMTC	Austria		Direct Line Germany	Germany	Consumer
Axa Matrix Risk Const			OBD Experts	UK		Discovery Insura	South Africa	Consumer
Axa Re			Dele Telematics	Italy		Disruptive Capital Partners	UK	Private ex
Axa UK			OBCD	France		Diva	UK	Insurance broker
Baseline telematic			ADAS - MYCOM			Dioc's	UK	Consumer electronics retel. chain
BGL Group Ltd			Broker			Drive Power	USA	Data management provider
Bird & Bird			General insurance					
BluO Fund								

Organisation	Country
Telekom Austria Group	Austria
Telenor Connexion	UK
Telit	Italy
Telogis	USA
Teradata Aster	USA
Texa	Italy
The AA	UK
The Co-operative Insurance	UK
The Floom	UK
The Hartford	USA
TomTom	Netherlands
TomTom Business Solutions	UK
Touring	Belgium
Toyota	Belgium
Toyota Insurance Management	Belgium
Toyota Insurance Management	UK
Trac Global	UK
Tracker	South Africa
Traqueur	France
Trafficmaster	UK
Transics	Belgium
Travelers Insurance	USA
Trimble MRM	USA
TRL	UK
Uniqa	Austria
Uralsib	Russia
US Department of Transport	USA
Vehcon	USA
Verizon Telematics	USA
Viasat	Italy
Vivium (P&V Group)	Belgium
Vodafone	UK
Volvo Cars	Sweden
Wireless Car	Sweden
Wunelli	UK
Xirgo Technologies	USA
Young Marmalade	UK
Zurich	Italy
Zurich	UK
Zurich Financial Services	France

The main document is 810 pages of analysis, examples, case studies, forecasts and recommendations

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6 ways telematics will disrupt insurance analysed

1- **BIG DataAnalytics: the future scores and actuarial models**

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

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

- Present and forthcoming autonomous functions affecting insurance
- Speed of the technical evolution and emergence prediction
- Analysis and forecast of the effect on UBI

3- **The benefits and (lost) opportunities of telematics in accident and 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 mobile-based UBI becoming the default proposition**

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

5- **The present and future usage of the OBD dongle and its data**

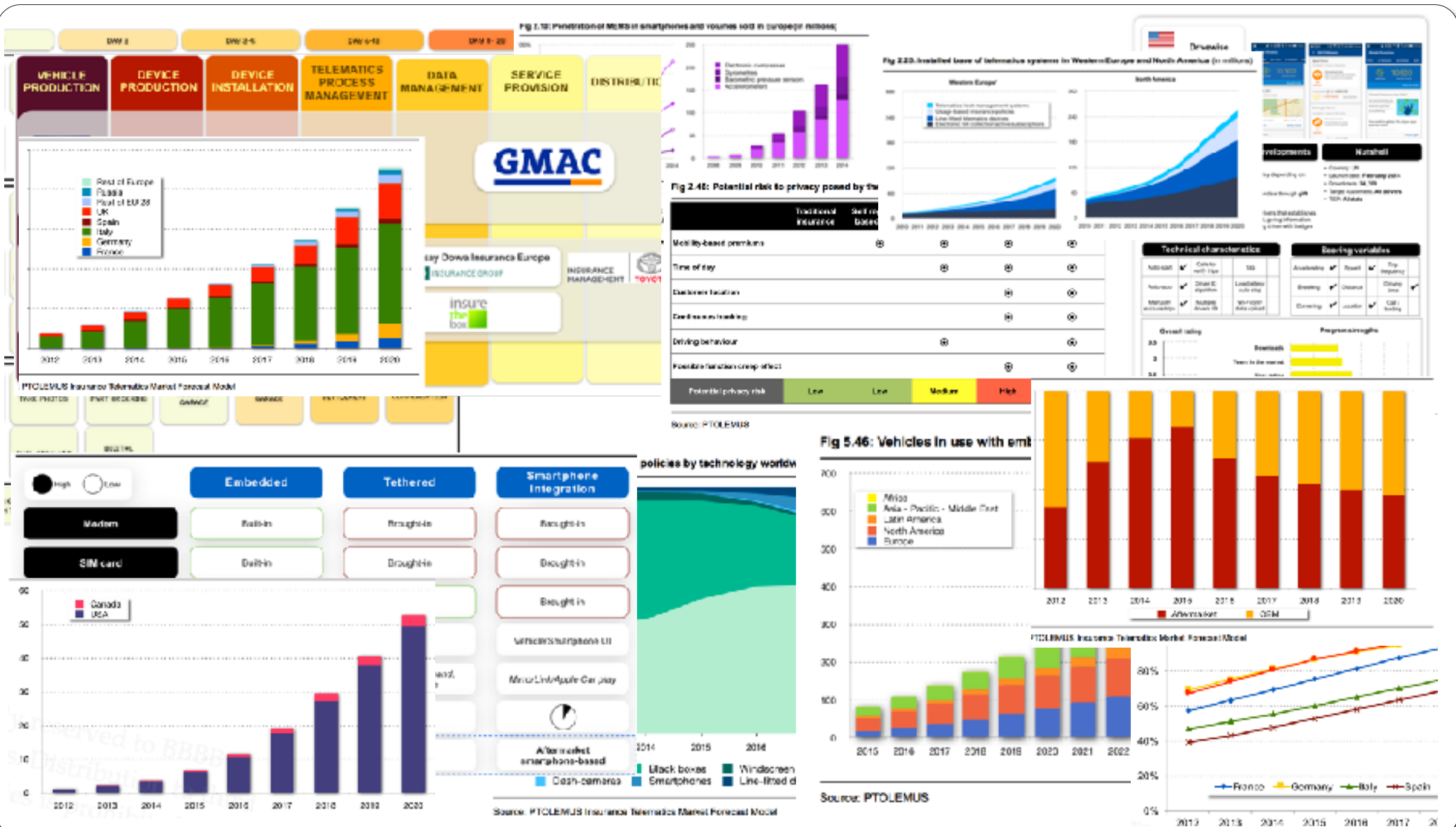
- Overview of the OBD technology and its capabilities
- VAS and service augmentation opportunities explored
- Analysis of OBD data's main channels to market
- Assessment of the key independent connected car service providers.

6- **The rapidly changing role of car manufacturers in the UBI market**

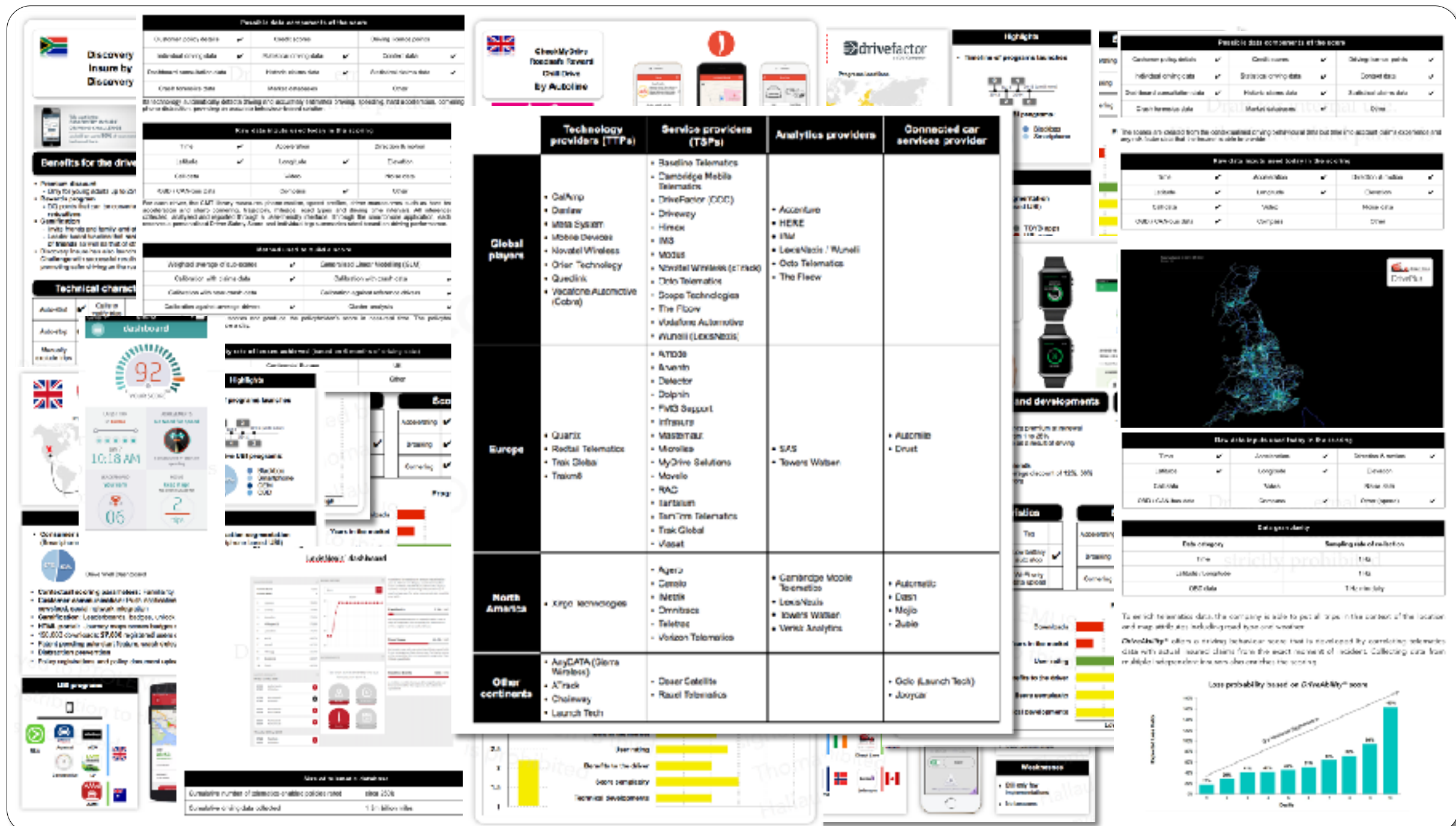
Analysis of the current OEMs position on telematics services and UBI.

Assessment of the opportunities for insurers to use OEM data
Likely models for insurance - OEM partnerships.
OEM data distribution strategy recommendation

Illustrated by 422 graphs validating each statement



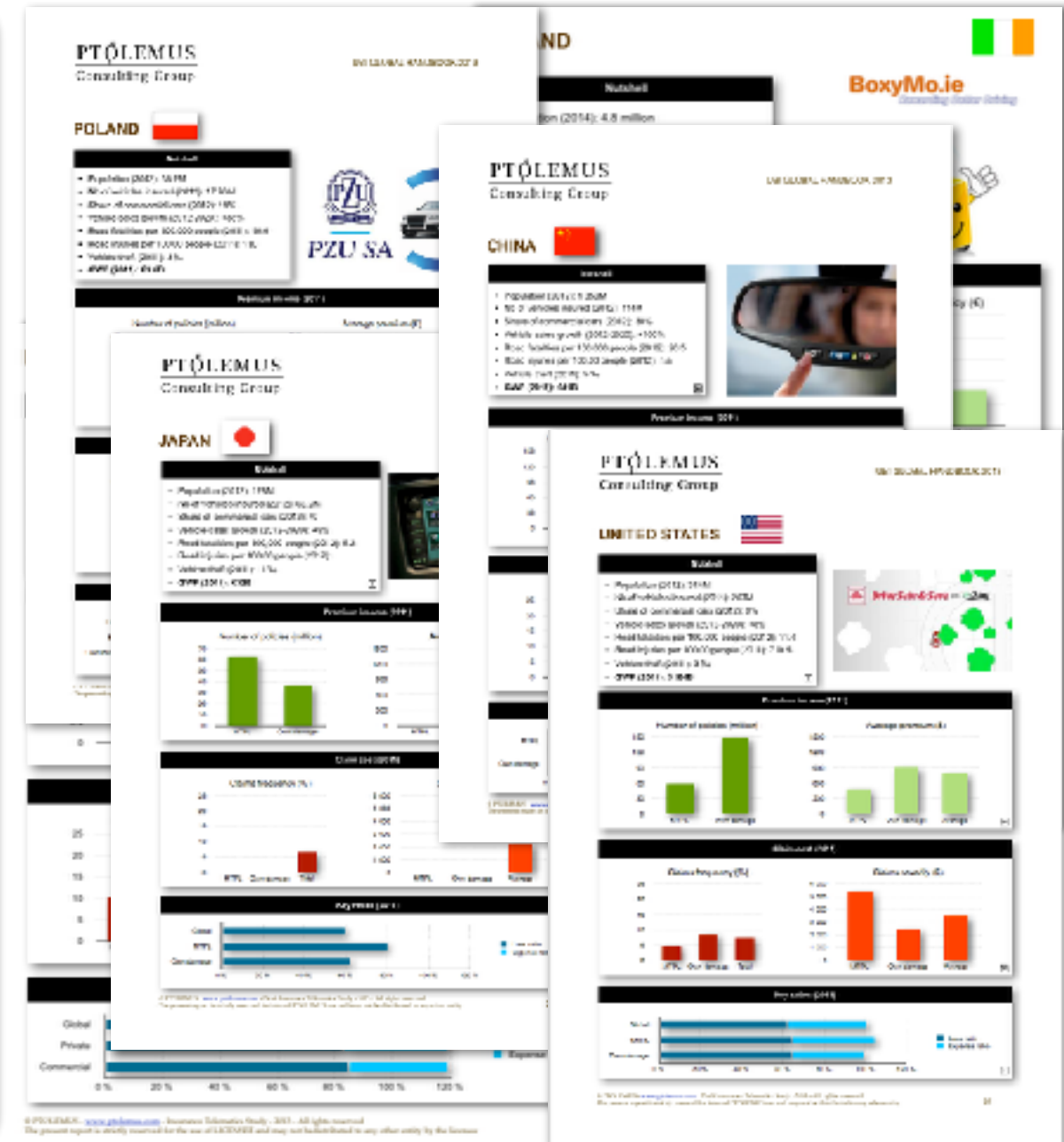
Complemented by 78 company and solution profiles



A worldwide comparison of key geographical markets

28 countries analysed in depth

- Critical rating data includes
 - Gross written **premiums**
 - Number of **policies**
 - Cost of **claims**
 - Loss and expense **ratios**
- Influential **economic parameters** and **UBI activity** analysed
- **Environment factors** presented such as:
 - Claims frequency and severity
 - Vehicle **density**,
 - **Theft** rate or
 - Cultural factors
- **Readiness index** for each national market



The first insurance market forecast to estimate the impact of autonomous safety functions

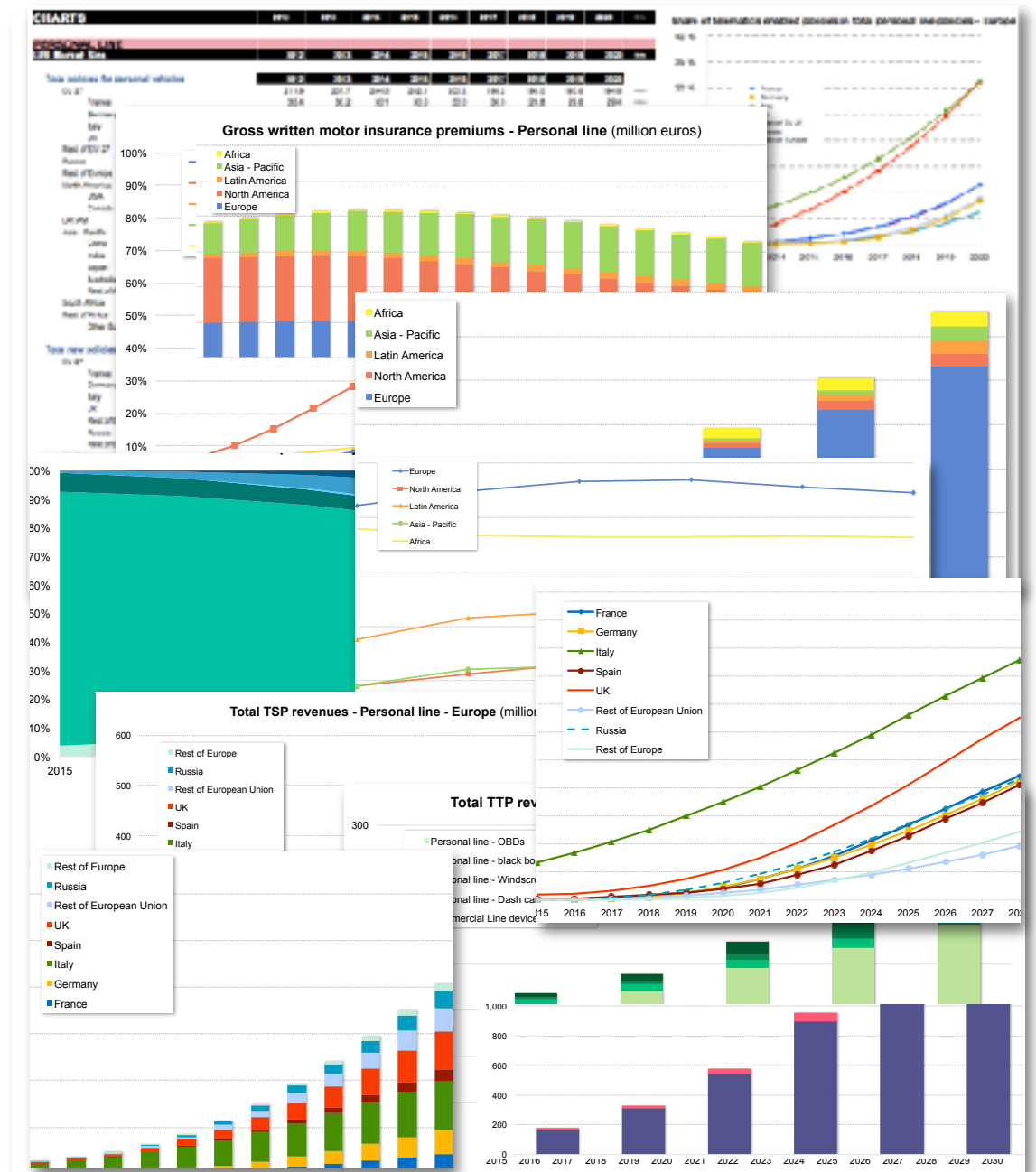
Market forecasts to 2020 and 2030

- Over 2400 line Excel sheet based on our 6000-line bottom up model using more than 2500 lines of inputs.
- Updated until January 2016 with the latest available market figures compiled from interviews and secondary research

Split by geography, technology and business models

- 16 areas including USA, Canada, France, Germany, Italy, UK, Japan, China, India, Brazil, South Africa, Russia, LATAM, etc.
- 7 technologies (line-fitted OBUs, professionally installed and self installed black boxes, light OBD dongles, connected OBD dongles, windscreen devices & CLAs, smartphones)
- Differentiated by channels and segments: aftermarket / OEM, personal / commercial, channels...
- **The impact of ADAS & autonomous cars on premiums**

Market size (volumes & revenues) for insurers, TSPs, TTPs, OEMs and MNOs



The legal landscape explained by legal experts

- Identify the regulatory drivers that will influence your UBI strategy, including:
 - The **requirement on insurers** regarding data management and protection
 - The **eCall, ERA Glonass** and **EOBR** mandates
 - The **Viberto** Judgement
 - The **European Data Protection Directive** progress
 - The **privacy regulations** and industry best practices
 - The **patents** in place and current **Intellectual property** litigation proceedings



This report has one objective: helping insurers transform Big Data **copper** into Analytics **gold**



- Analysis of the pricing and data management policies of the **27 largest UBI programmes** including :
 - Admiral, Allianz, Allstate, American Family, AXA, Generali, Desjardins, Direct Line Group, State Farm, The Hartford, UnipolSai, Uniqa and Zurich
- Based on **40 in-depth interviews** with Telematics Service Providers (TSPs), analytics providers and insurers
- **5 interviews transcribed:** Nationwide, Insurethebox, LexisNexis Wunelli, Octo Telematics and The Floow
- Illustrated by case studies from companies using advance analytics such as: Progressive, Generali, Insure the box and many more
- Profile and review of **10 advanced analytics suppliers** active in UBI
 - Accenture, Cambridge Mobile Telematics, Cognizant, HERE, IBM, IMS, SAS, Verisk Analytics and Willis Towers Watson
- Findings and recommendations **validated by 150 academic papers** and journals
- All that in a **340+ page document** with over 150 graphs and tables
- Resulting in **20 best practices** including recommendations on how to record and process driving data, score drivers and interact with them.

Download the 90-page abstract today at www.ptolemus.com/cia-abstract

The CIA report is a searchable pdf document that can be used by the whole company, worldwide



Reports	Connected Insurance Analytics Report Only
Contents	<ul style="list-style-type: none"> • 340-page study (pdf format, password-protected) • 10 company profiles • 20 best practices • Recommendations to insurers and analytics providers
Company-wide licence	<p>€ 3,995</p> <p><i>Approx. \$4,350</i></p>

For more information and to order the update if you already have the UBI Global Study 2016, contact me at fbruneteau@ptolemus.com

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



Reports

Full Study
with 2020 & 2030 market forecasts

Contents

- 1,200+-page study (PDF format, password-protected)
- Bottom-up 2015-30 market forecasts outputs with graphs (Excel format, password-protected)
- 69 company profiles (Analytics suppliers, TSPs, TTPs, start-ups)
- 30 country profiles

Company-wide licence

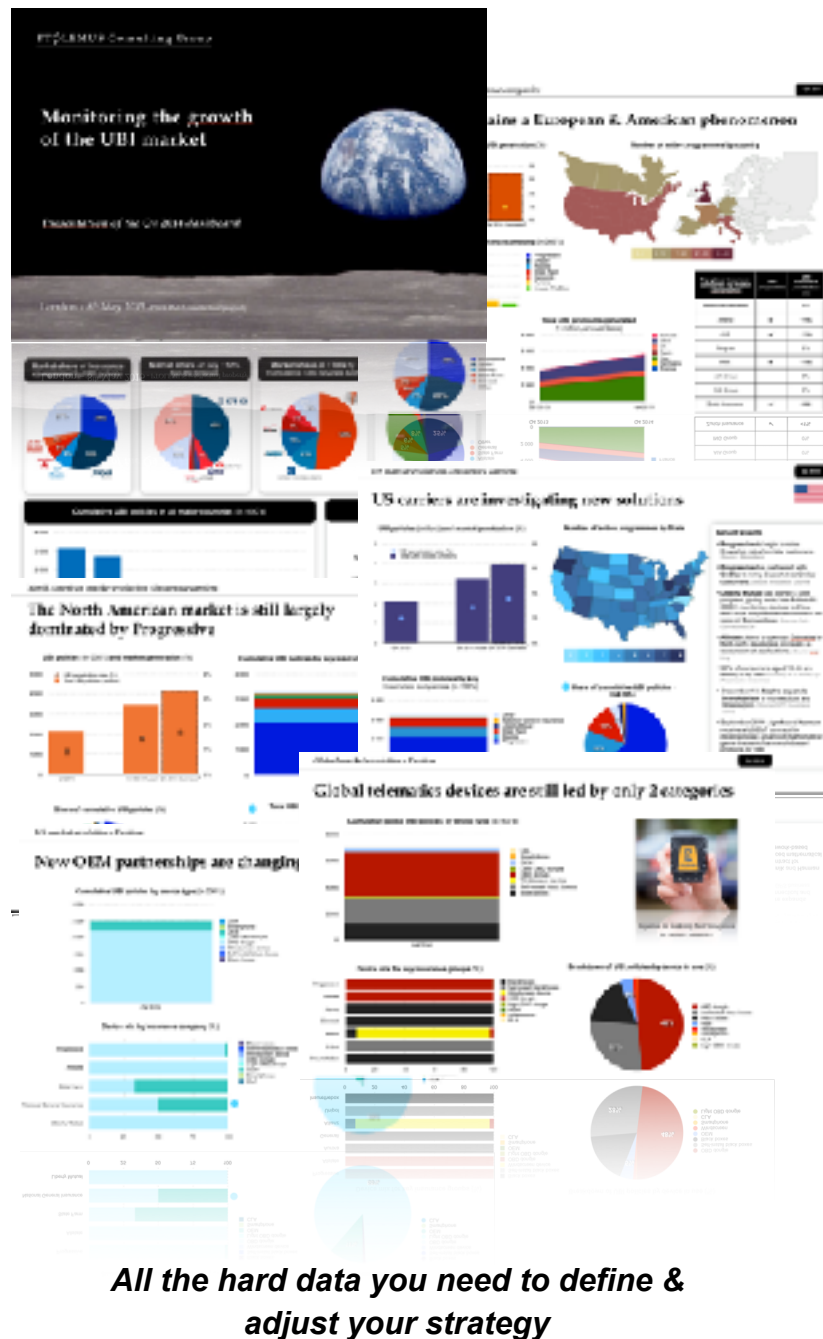
€ 8,990

Approx. \$10,300

Now also
includes the
CIA report

For more information and to order the study, contact fbruneteau@ptolemus.com

We also issue a quarterly dashboard of the UBI market



- **60-page barometer of the global UBI industry**
 - Covers 170 companies
 - Covers the US, Canada, France, Germany, Italy, Spain and the UK
 - Issued on a quarterly basis
 - 190 charts, tables & figures
- **Leverages both public information and 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 most important market news**
- **Estimates UBI volumes and sales for all main players**
 - Insurance companies
 - TSPs
 - Technology providers
- **Deciphers the key market trends**
 - UBI penetration
 - Number of programmes
 - Mix by business model (PAYD, PHYD, TBYP, etc.)
 - Market share of all main insurers, TSPs and device makers
 - Technology mix (Black boxes, OBD, apps, etc.)
 - Business line mix
 - Segment mix (Young drivers, mature drivers, etc.)
 - Channel mix aftermarket / OEM

PTÓLEMUS Consulting Group
Strategies for Mobile Companies

Brussels - Chicago - Paris - London -
Hannover - Milan - Boston

www.ptolemus.com



For more information, contact Thomas Hallauer at
thallauer@ptolemus.com

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

