

PTOLEMUS Consulting Group

# Usage-based Insurance Global Study 2016



*Presentation of the 3<sup>rd</sup> 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.)
- **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
- **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
- 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](mailto: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](mailto: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](mailto: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](mailto: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	Organisation	Country	Company name	Country	Sector	Company name	Country	Sector	Company name	Country	Sector	Organisation	Country
AAA Club Partners	USA	BMW		Market IP	Belgium		CLAL Insurance	Israel	General Insurance	Generali France	France	General Insurance		
Achmea		Bouygues Telecom		Marks & Spencer	UK		Clarion	Japan	In-car audio	Generali Group	Italy	General Insurance		
ADAC		Cambridge Mobile Telematics Inc.		Marmalade Group	UK		CMA Claims	UK	Claims	Generel (Generali Group)	Italy	Consumer Insurance		
Admiral France - L'Océan Assurances				Masternaut	Europe		CNIL (Commission Nationale de l'Information et des Libertés)	France	Data protection	Geotab	USA		Telekom Austria Group	Austria
Admiral Insurance				Matmut Assurances	France		Co-operative Insurance	UK	General Insurance	GirMotor	UK		Telenor Connexion	UK
Ageas Continental Europe				Mercedes Benz	Germany		Cobra Automotive Tech.	Italy	TSP	GMAC Insurance	USA		Telit	Italy
Agnik				Meta System	Italy		Cognizant	USA	Enterprise resourcing	gocompare.com	UK		Telogis	USA
AIG				Michelin	France		Compagnie Générale d'Automatisme (CGA HBS)	France	Engineering	Good Technology	USA		Teradata Aster	USA
Aioi Nissay Dowa Insurance				Mitsubishi Electric	Japan		Comparethemarket.com	UK	Online comparison	Google	USA		Texa	Italy
Airmax Group				Mix Telematics	South Africa		Confused.com	UK	Online comparison	Greenroad Technologies	USA		The AA	UK
ALD Automotive				Mobile Devices	France		Continental	France	Tier-1 supplier	Groupama	UK		The Co-operative Insurance	UK
Allianz				Modus	USA		Corona Direct	Belgium	Broker	Grupo Nacional Provincial	Mexico		The Flood	UK
Allianz				MOJIO	USA		Corporate Vehicle Observatory	France	Research	Hannover re	Worldwide		The Hartford	USA
Allianz				Money Super Market	UK		Covea Group	France	General Insurance	Harman	USA		TomTom	Netherlands
Allstate Insurance				Montezemolo & Partners	Italy		Coverbox	UK	Consumer Electronics	Hastings Direct	UK		TomTom Business Solutions	UK
Alta Assurance				Moody's	USA		Coverhound	USA	General Insurance	HDI Gerling	Global		Touring	Belgium
Amadeus Capital Partners				MORE THAN	UK		Coyote	Europe	TI	HERE (formerly Navteq)	Worldwide		Toyota	Belgium
Amadeus Capital Partners				Motquote	UK		Crédit Mutuel Arkea	France	Consumer Electronics	High Point Auto Insurance	USA		Toyota Insurance Management	Belgium
Amaguiz (Groupama)				Movelo	Sweden		cTrack (Digicom)	South Africa	TE	Himex (Evogi Group)	USA		Toyota Insurance Management	UK
American Family				MyDrive Solutions	UK		Cybit Masternaut	UK	TE	Hitachi	Japan		Trac Global	UK
American Family				Nationwide Insurance	USA		Daimler Fleetboard	Germany	TE	Hollard Insurance	South Africa		Tracker	South Africa
Amovelo				Navteq / HERE	France		Daimler Insurance Services	Germany	OE	Honda	Japan		Traqueur	France
ANIA				navya	France		Danlaw	USA	TI	HopeRun Technology	USA		Trafficmaster	UK
ANWB				ND a Islandi Ehf	Island		Data Tec Co Ltd	Japan	OC	HUK-Coburg	Germany		Transics	Belgium
AnyDATA Corporation				NIS Glonass	Russia		Davis Instruments	USA	TI	Hyundai	South Korea		Travelers Insurance	USA
Aplicom				Nissan Europe	Europe		DBV Winterthur	Germany	General Insurance	IBM	USA		Trimble MRM	USA
Arval				Nissan Motor Corporation	USA		Delphi	USA	Tier-1 supplier	ID Macif	France		TRL	UK
Association of British Insurers				No Nonsense Insurance	N. Ireland		Denso	Germany	Tier-1 supplier	IDM Trucking	USA		Uniq	Austria
Atos				Nokia	Finland		Department of Transportation	USA	Government	If Insurance	Sweden		Uralsib	Russia
ATrack Technology				Norton Rose	UK		Detector	Spain	TE	iGate	UK		US Department of Transport	USA
Audiovox				Novacom Europe	Netherlands		Deutsche Telekom	Germany	MI	iGo4	UK		Vehcon	USA
Autoline				Novatel Wireless	Worldwide		Diamonds	UK	Insurance	iKube	UK		Verizon Telematics	USA
Autosaint (Fresh! Insurance Group)				NTT DoCoMo	Japan		Direct Line Germany	Germany	Consumer Electronics	IMA	France		Viasat	Italy
Aviva (formerly Norwich Union)				NXP	Netherlands		Discovery Insure	South Africa	Consumer Electronics	iMetrik Global	USA		Vivium (P&V Group)	Belgium
Axa Assistance				ÓAMTC	Austria		Disruptive Capital Partners	UK	Private Equity	IMS	Canada		Vodafone	UK
Axa Belgium				OBD Experts	UK		Diva	UK	Insurance	Industrial Alliance	Canada		Volvo Cars	Sweden
Axa Global P&C				Octo Telematics	Italy		Dixon's	UK	Consumer electronics retail chain	ICO (Information Commissioner's Office)	UK		Wireless Car	Sweden
Axa Matrix Risk Consulting				OECD	France		Drive Power	USA	Data management provider	Infasure	UK		Wunelli	UK
Axa Re				ADAS - MVCM									Xirgo Technologies	USA
Axa UK				Broker									Young Marmalade	UK
Baseline telematics				General insurance									Zurich	Italy
BGL Group Ltd													Zurich	UK
Bird & Bird													Zurich Financial Services	France
BluO Fund														

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

<b>I. 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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





# Complemented by 78 company and solution profiles

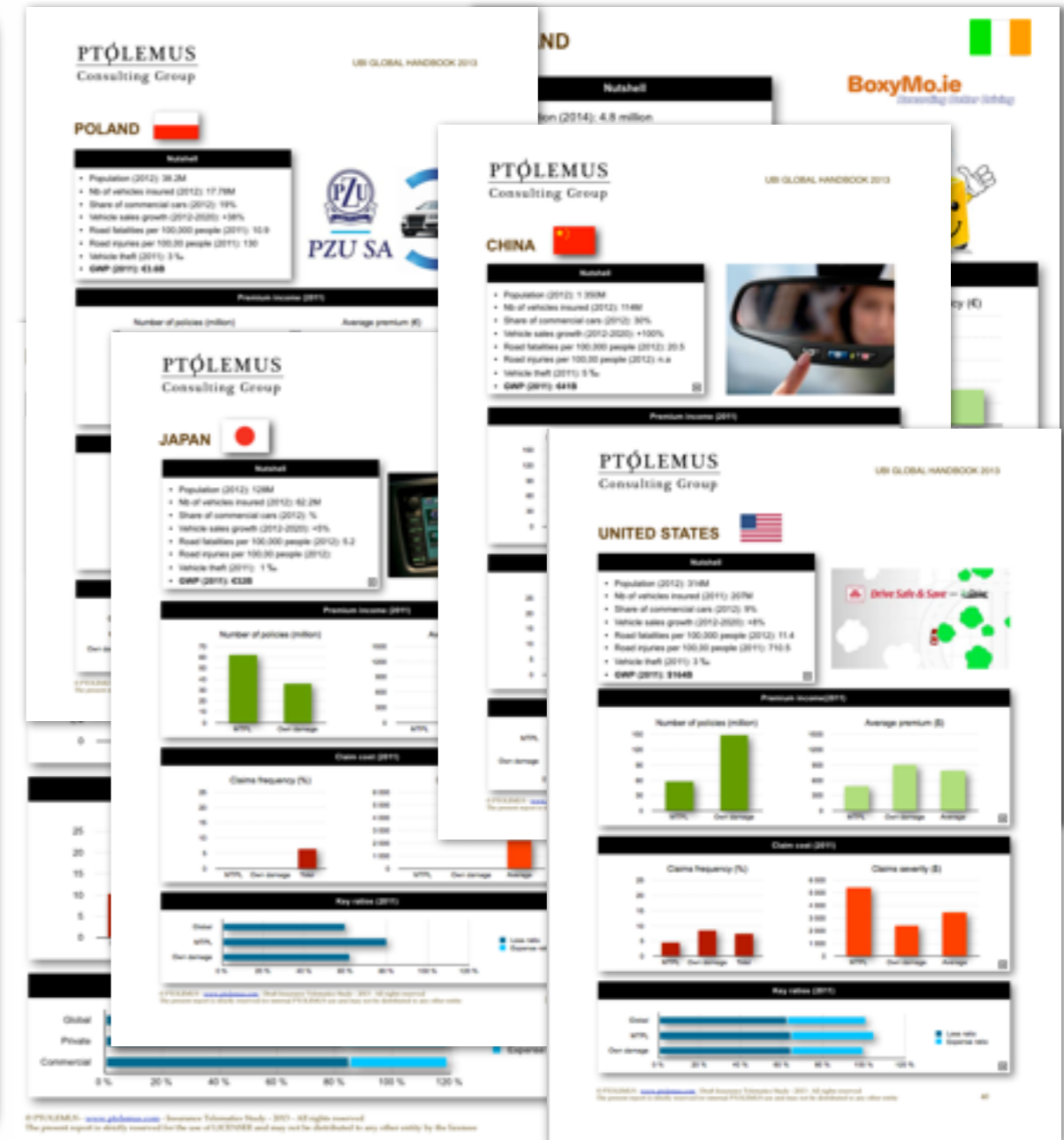
The collage includes several key elements:

- Discovery Insure by Discovery:** A dashboard showing a score of 92 and various driving metrics.
- CheckMyDrive Roadsafe Reward:** A mobile app interface for reward-based driving.
- drivefactor:** A mobile app interface for driving analysis.
- Raw data inputs used today in the scoring:** A table listing inputs like Time, Acceleration, Direction & motion, Latitude, Longitude, Elevation, Call data, Video, Noise data, and OBD / CAN-bus data.
- Method used to build a score:** A table listing methods like Weighted average of sub-scores, Generalised Linear Modeling (GLM), and Calibration with crash data.
- Global players:** A list of technology providers (TTPs) including CalAmp, Danlaw, Meta System, Mobile Devices, Novatel Wireless, Orion Technology, Queclink, and Vodafone Automotive (Cobra).
- Service providers (TSPs):** A list of service providers including Baseline Telematics, Cambridge Mobile Telematics, DriveFactor (CCC), Driveway, Hinx, IMS, Modus, Novatel Wireless (cTrack), Octo Telematics, Scope Technologies, The Floor, Vodafone Automotive, and Wunell (LexisNexis).
- Analytics providers:** A list of analytics providers including Accenture, HERE, IBM, LexisNexis / Wunell, Octo Telematics, and The Floor.
- Connected car services provider:** A list of connected car services providers including Amodo, Anvento, Detector, Dolphin, FMG Support, Infura, Masternaut, Microise, MyDrive Solutions, Movelo, RAC, Tantalum, TomTom Telematics, Trak Global, and Viast.
- Europe:** A list of European providers including Quartix, Redtail Telematics, Trak Global, and Trakmb.
- North America:** A list of North American providers including Xingo Technologies, Agero, Censio, iMetrik, Omnictracs, Teletrac, and Verizon Telematics.
- Other continents:** A list of providers for other continents including AnyDATA (Sierra Wireless), ATrack, Chainway, and Launch Tech.
- Size of telematics database:** A bar chart showing cumulative driving data collected (1.3m billion miles) and cumulative number of telematics-enabled policies sold (since 2008).
- Less probability based on DriveAbility® score:** A bar chart showing the relationship between DriveAbility score and the probability of an accident.

# 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

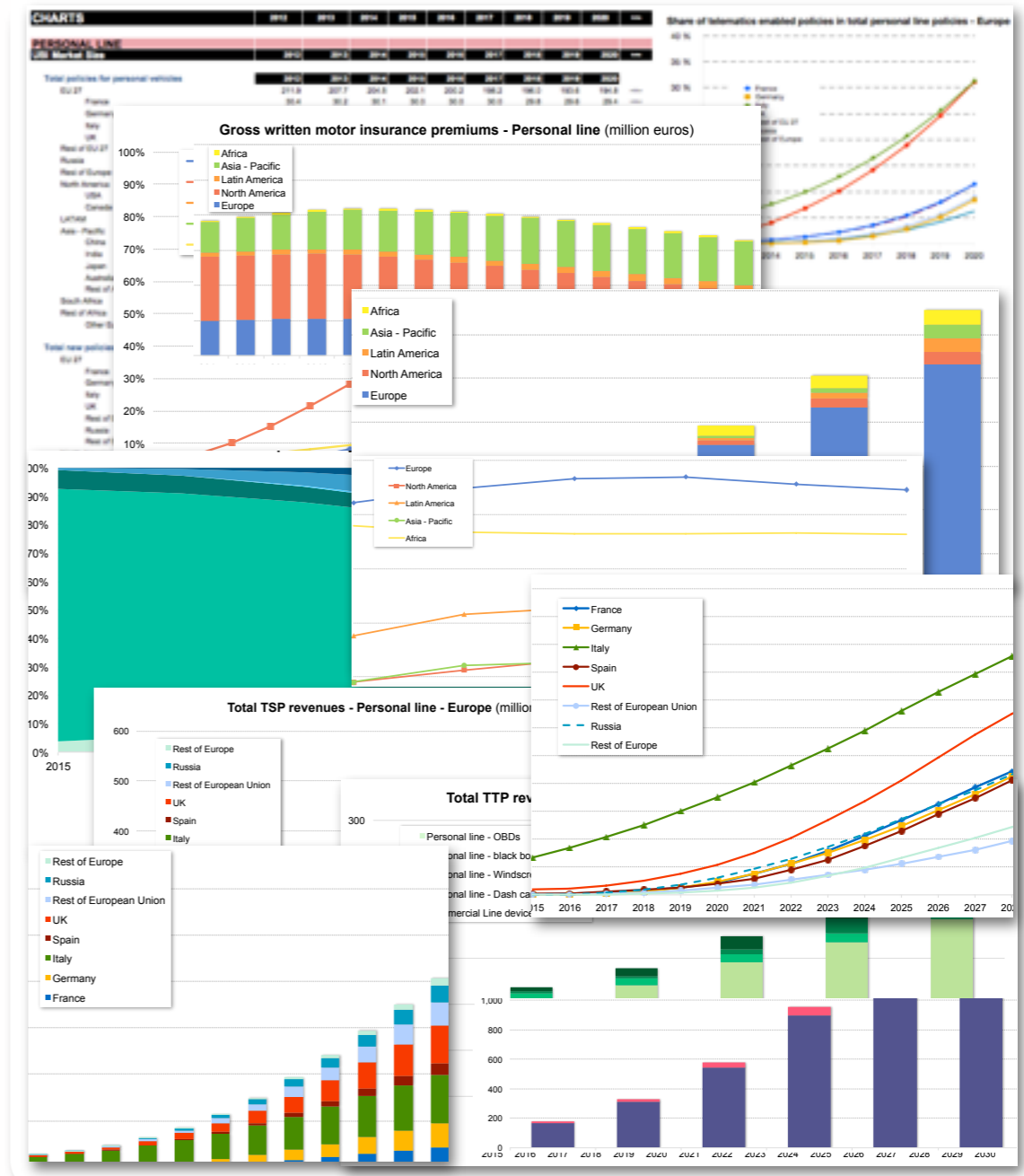
## Market forecasts to 2020 and 2030

- 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



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



**More than a report, a real strategic market analysis**

Reports	Full Study	Full Study with 2020 & 2030 market forecasts
<b>Contents</b>	<ul style="list-style-type: none"> <li>• 900+-page study (PDF format, password-protected)</li> <li>• 50 TSP and TTP company profiles</li> <li>• 30 country profiles</li> </ul>	<ul style="list-style-type: none"> <li>• 900+-page study (PDF format, password-protected)</li> <li>• Market forecasts outputs with graphs (Excel format, password-protected)</li> <li>• 50 TSP and TTP company profiles</li> <li>• 30 country profiles</li> </ul>
<b>Company-wide licence</b>	<p><b>€ 6,995</b> Approx. \$6,595</p>	<p><b>€ 7,995</b> Approx. \$7,495</p>

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

# We also 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, 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, TBYB, 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](http://www.ptolemus.com)

For more information, contact Thomas Hallauer at  
[thallauer@ptolemus.com](mailto: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

