PTOLEMUS Consulting Group

Usage-based Insurance Global Study 2013



The reference report on Telematic Insurance

PTOLEMUS is a strategic consulting firm focused on the connected vehicle and LBS markets

Our consulting services

Strategy definition

New market entry
Business plan
development,
board coaching
and support

Investment Evaluation

Due diligence Market assessment Feasibility studies

Procurement strategy

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

Innovation management

Product & services development, roadmap definition, project management & launch, patent strategy

Business development

Partnership strategies, response to RFPs, lobbying

Implementation

Project & programme management, risk analysis & mitigation strategy

Our fields of expertise

Mobile content and social networking

Application stores, crowd-sourcing, etc.

Navigation & location-based services

Maps, traffic, fuel prices, speed cameras, parking, etc.

Usage-based charging

PAYD / PHYD insurance, Road User Charging, PAYD car leasing & rental

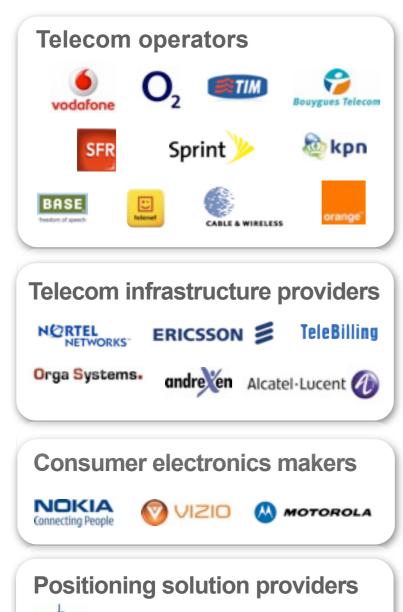
Telematics & Intelligent Transport Systems

Connected car, tracking, fleet management, eCall, bCall, Stolen Vehicle Recovery, Car As A Service, connected train, etc.

Positioning / Location enablement

M2M & connectivity

We have already helped a wide range of actors in the connected vehicle and insurance sectors

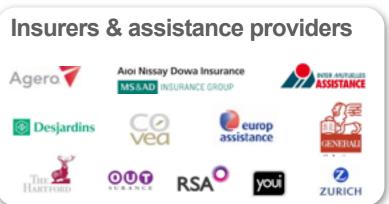








- Partners in Brussels, Paris, London, Hamburg and Milan
- +50 years of experience in mobile
- +100 years of experience in telematics

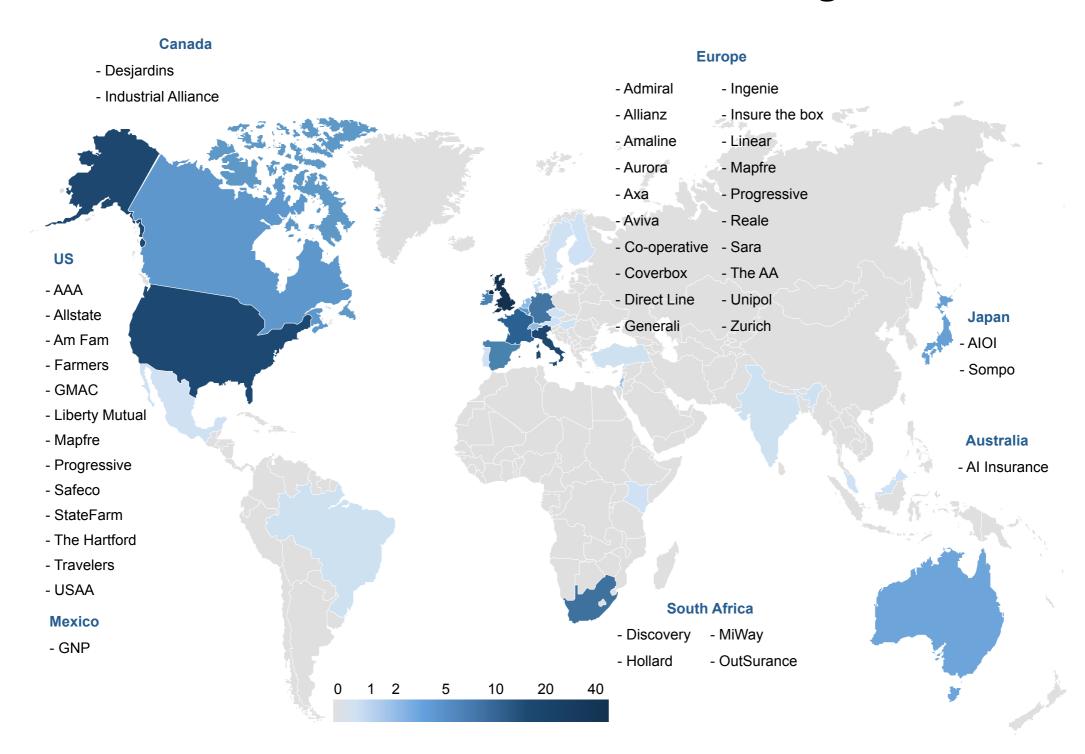








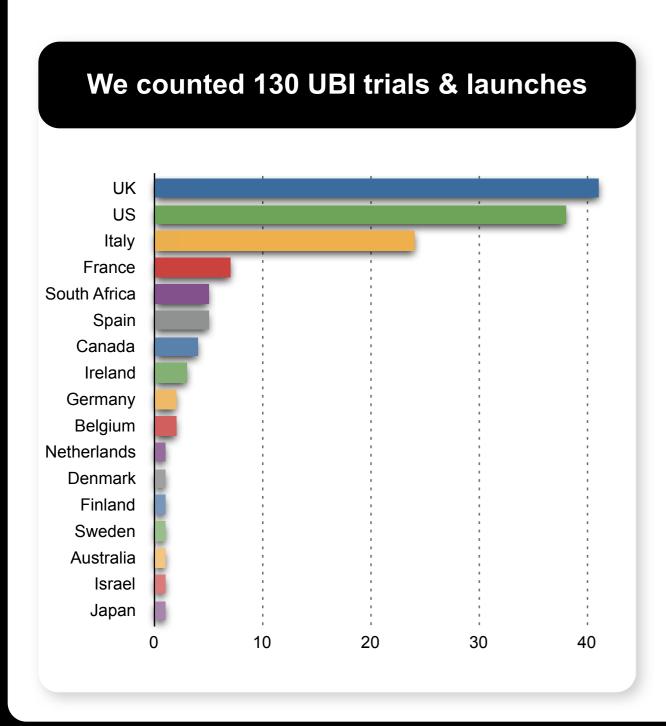
The market for telematics insurance is now global





Source: PTOLEMUS

The number of trials and services has doubled since last year



The trial phase is now over

- 53 trials worldwide (83% in PAYD)
- 112 programmes launched (95 in the consumer line)
- Success stories in multiple countries, notably Italy (Unipol), Spain (Mapfre), Canada (Industrial Alliance, Desjardins), the UK (Insurethebox, Co-operative), Austria (Uniqa) and the US (Progressive & State Farm)
- Overall, we estimate **UBI policies** at
 5 million (worldwide)

The peak and disillusionment phases are behind us ABI publishes good practice guide EC published Autoline eCall delegated launches 1st act to mandate smartphone eCall by **Test-Achats** solution 2015 gender ruling Amaguiz 1st OEM launches 1st policies European OBD solution in Launch of Commission **Norwich Union** Europe decides to Insure The Box launches PAYD mandate in the UK offer Toyota & eCall Aioi launch Progressive reaches 1 M Norwich PAYD on Monti law Union stops Launch of Toyota's Gimplementation cum. UBI Towergate PAYD Zurich Coverbox by Book & Aviva launch launches Fleet customers Cobra Wunelli programme Intelligence PHYD offer **PAYD** commercial Unipol & insurance Aurora launch Progressive launches **OEMs** freeze Octo's solution The AA and eCall devices Admiral launch MyRate, 1st NYC & PHYD offers PHYD offer Qualcomm Massachussets Groupama investigate PAYD launches launches Amaguiz PAYD / PHYD Norwich Union MAIF & launches PAYD solution models system MACIF launch Moody's Gender ruling trial unsuccessful becomes recommends telematics applicable usage-based ÖSA launch Renault insurance Progressive telematics offer launches Progressive pilots TripSense renames commercial line in Germany MyRate PAYD **UBI** program Snapshot programme Discount

Disillusionment

2009

2010

2008



Technology

trigger

2005

2004

Unipol trial of Octo's solution

2003

Maturity

2013

2012

Enlightenment

2011

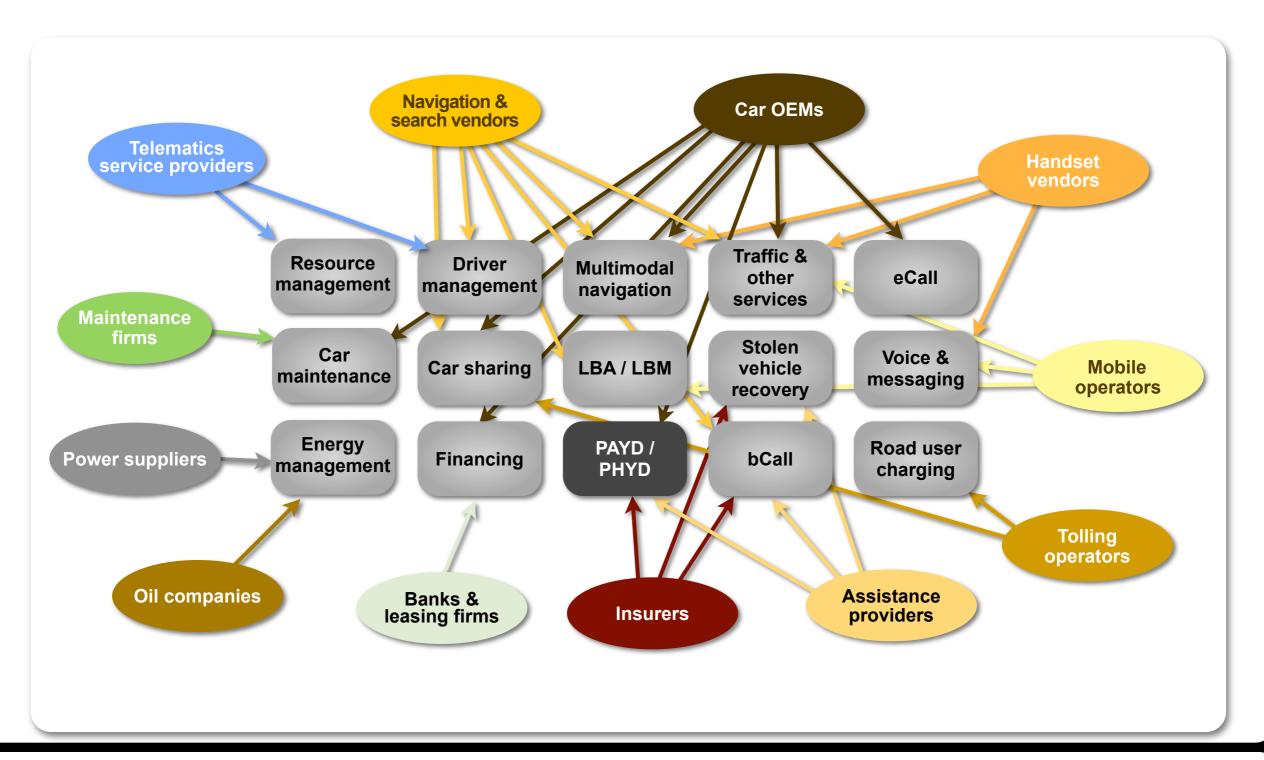
2006

Peak of

expectations

2007

New players are entering the connected vehicle services battle



The variety of devices used is growing









Line-fitted



Semi-embedded system



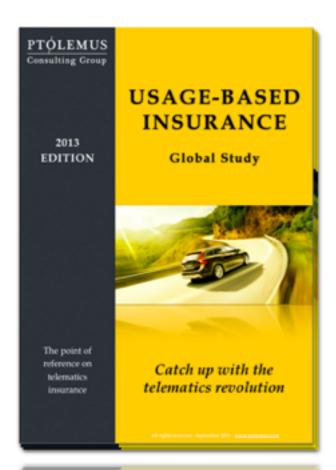
Fixed

Removable

Portable

Possible technologies for vehicle connected services

To make sense of its chalenges and opportunities we painted a truly comprehensive picture of the UBI market





- 770 pages of rigorous analysis of the PAYD / PHYD market based on
 - 201 interviews in 18 countries
 - 330 figures and charts
 - 3 years of hands-on experience
 - Our knowledge of the ecosystem incl. OEMs and TSPs
- 38 case studies including Allianz, Amaguiz, Cobra, Coverbox, Insurethebox, Ingenie, OnStar, Hollard Insurance, Insurethebox, Liberty Mutual, MAIF-MACIF, Norwich Union, Octo Telematics, Progressive, Quindell, State Farm, Unipol, Uniqa, Zurich
- A strategic analysis of the value chain evolution including
 - The impact of eCall
 - The role of the smartphone
 - The new patents and partnerships

- A handbook of 45 suppliers' solutions including our own evaluation & ranking
- 10-year market forecasts
 - Country forecasts for Canada, China, France, Germany, India, Italy, Japan, Russia, South Africa, the UK and the US
 - Bottom-up estimates of the number of policies for each insurer in the US, the EU and in South Africa
- Telematic insurer market models
 - Markets' readiness to UBI for 20 countries
 - The analysis* of the insurer's business model in 6 countries
 - A complete set of recommendations to insurers, regulators, TSP, OEMs and operators



The 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 founded the PTOLEMUS Consulting Group on the conviction that pervasive location and connectivity would revolutionise the business of mobility.

He has 18 years of experience in 12 countries with companies such as **TomTom**, **SFR Vodafone**, **Arthur D. Little and BNP Paribas**.

Mr. Bruneteau has performed a dozen assignments on insurance telematics, notably the due diligence of Octo Telematics and the definition of an international UBI strategy & business plan for a large insurance group.

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



Mr. Noël has gained 4 years of consulting experience primarily helping clients in the automotive sector such as **BMW**, **PSA Peugeot-Citroën**, **Renault-Nissan and Faurecia**.

He recently built a 10-year market forecast model of 14 different connected services in Europe.

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 (thellauer@ptolemus.com)



Thomas Hallauer has gained 10 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 automotive, motor insurance, navigation & location industries.

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

770 pages of facts, figures, examples, case studies, analysis, forecasts and recommendations





We have interviewed more than 200 companies in 18 countries including 80 insurers & brokers

Ownerication	0
Organisation	Country
AAA Club Partners	USA
Achmea	Netherlands
ADAC	Germany
Admiral France - L'Olivier Assurances	France
Admiral Insurance	UK
Ageas Continental Europe	Global
Agnik	USA
AIG	UK
Aioi Nissay Dowa Insurance	Japan
Airmax Group	UK
ALD Automotive	France
Allianz	France
Allianz	Germany
Allianz	Italy
Allianz	Switzerland
Allstate Insurance	USA
Altima Assurances	France
Amadeus Capital Partners	UK
Amaguiz (Groupama)	France
American Family	USA
AnyDATA Corporation	USA
Aplicom	Finland
Arval	France
Association of British Insurers	UK
Atos	France
ATrack Technology	Taiwan
Audiovox	USA
Autoline	UK
Autosaint (Fresh! Insurance Group)	UK
Aviva (formerly Norwich Union)	UK
Axa Assistance	France
Axa Belgium	Belgium
Axa Global P&C	France
Axa Matrix Risk Consultants	France
Axa Re	France
Axa UK	UK
Baseline telematics	Canada
BGL Group Ltd	UK
Bird & Bird	France
BluO Fund	Luxembourg

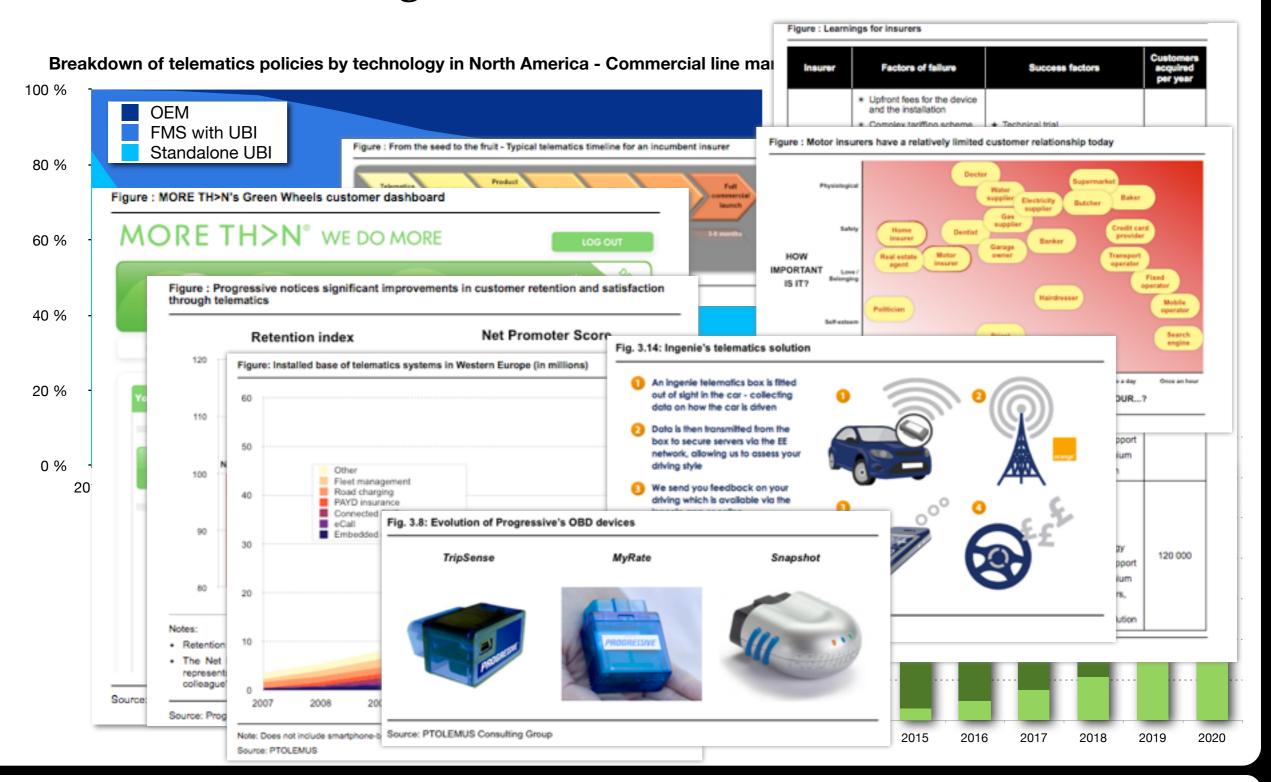
Organisation	Country
BMW	Germany
Bouygues Telecom	France
Cambridge Mobile Telematics, Inc.	USA
Carrot Insurance	UK
Cellocator (Pointer Telocation)	Israel
Cesar Satellite	Russia
CINVEN	UK
CNIL (Commission Nationale de l'Information et des Libertés)	France
Cobra Automotive	Italy
Cobra Electronic Solutions	Italy
Cognizant	USA
Confused.com	UK
Continental	France
Corona Direct	Belgium
Corporate Vehicle Observatory	France
COVEA Group	France
Coverbox	UK
Coverhound	USA
Crédit Mutuel Arkea	France
Ctrack (Digicore)	South Africa
Cybit Masternaut	UK
Daimler Insurance Services	Germany
Danlaw	USA
Davis Instruments	USA
Denso	Germany
Detector	Spain
Deutsch Telekom	Germany
Discovery Insure	South Africa
Drive Service	Italy
DriveCam	USA
DriveFactor	USA
DriveProfiler	Global USA
Earnix	USA UK
Equity Red Star ERTICO - ITS Europe	
European Data Protection	Belgium
Supervisor (EDPS)	Belgium
European Commission	Belgium
Fédération Internationale de l'Automobile (FIA)	Belgium
FMG	UK -
Generali France	France

Organisation	Country
Generali Group	Italy
Generali Group	Italy
Geotab	USA
gocompare.com	UK
Hastings Direct	UK
HDI-Gerling Industrial Insurance Co	Global
Himex	USA
Hollard Insurance	South Africa
HopeRun Technology	USA
Hughes Telematics	USA
iGo4	UK
iMetrik Global	USA
IMS	Canada
Industrial Alliance, Insurance and Financial Services Inc.	Canada
ING	Netherlands
Ingenie	UK
Intellimec IMS	Canada
IVOX	USA
KKR	UK
Leaseplan	UK
Liberty Mutual	USA
LocX	USA
Lysanda	UK
MACIF Assurances	France
Magneti Marelli	France
Magneti Marelli	USA
MAIF Assurances	France
Mapfre	Spain
Market IP	Belgium
Marmalade Group	UK
Masternaut	France
Masternaut	UK
Meta System	Italy
Michelin	France
Mix Telematics	South Africa
Mobile Devices	France
Money Super Market	UK
Movelo	Sweden
MyDrive Solutions	UK -
Navteq	France

Organisation	Country	
Nissan	Nissan USA	
Nononsense Insurance	Ireland	
Norton Rose	UK	
NXP	Netherlands	
OBD Experts	UK	
Octo Telematics	Italy	
OECD	France	
Orange Business Services	France	
Orion Technology	Taiwan	
Osborne Clarke	Global	
PayGo Systems	Israel	
Plymouth Rock	USA	
Progressive Insurance	USA	
PSA Peugeot Citroën	France	
Qualcomm Enterprise Services	Netherlands	
Quanta	Brazil	
Quindell Portfolio	Global	
RAC	UK	
Redtail Plextek	UK	
Renault	France	
RS Fleet Installations	UK	
RX Networks	Canada	
Safeco	USA	
Sanford Bernstein	USA	
SAP AG	Germany	
SAS Institute	USA	
Scope Technologies	Singapore	
Sensomatix	Israel	
Skymeter	Canada	
Solly Azar (Verspieren Group)	France	
SOMPO Research Institute	Japan	
Sprint Nextel	USA	
SSP	USA	
Standard & Poor's	France	
State Farm Insurance	USA	
Stok Nederland	Netherlands	
T-Matic	Poland	
Tapiola	Finland	
Telefonica digital	Spain	
Telefonica UK	UK	

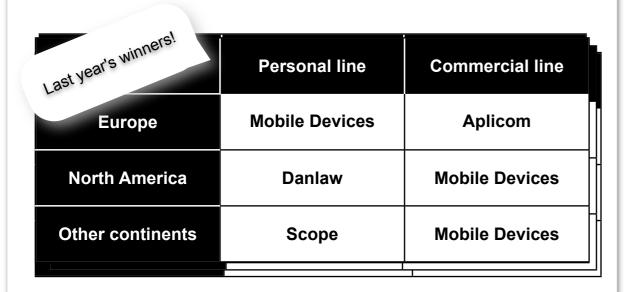
Organisation	Country
Telekom Austria Group	Austria
Telenor Connexion	UK
Telit	Italy
Telogis	USA
Teradata Aster	USA
Texa	Italy
The AA	UK
The Co-operative Insurance	UK
The Floow	UK
The Hartford	USA
TomTom	Netherlands
TomTom Business Solutions	UK
Touring	Belgium
Toyota	Belgium
Toyota Insurance Management	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 Volvo Cars	UK
	Sweden
Wireless Car	Sweden UK
Wunelli Virgo Toobnologies	UK USA
Xirgo Technologies	USA
Young Marmalade Zurich	
Zurich Zurich	Italy UK
Zurich Zurich Services	France
Zurich Financial Services	France

Over 330 charts, diagrams, illustrations and tables



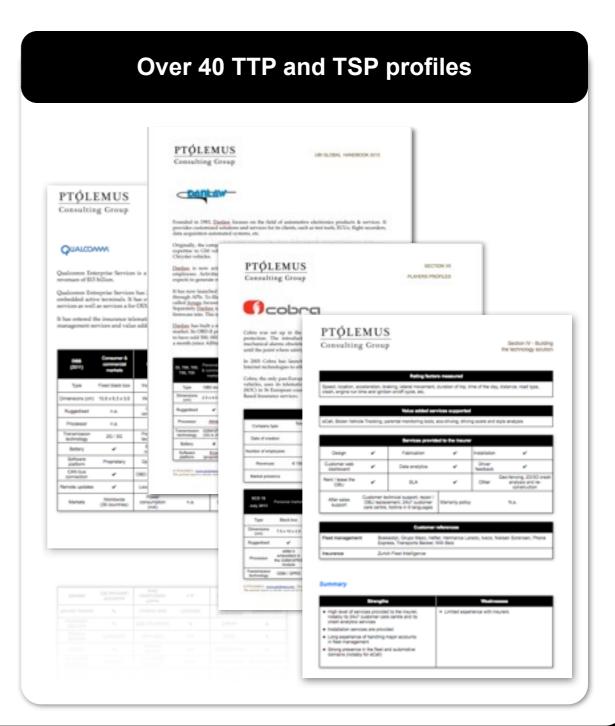
A detailed evaluation and presentation of 43 suppliers

Rankings of the telematics suppliers per region



The most complete analysis of UBI solutions

- 70-page analysis of technology solutions and purchasing strategies
- 100-criteria purchasing checklist
- Market shares of suppliers globally
- An analysis of the differentiating features and services
- A list of 58 applicable patents
- OBD vs. Black Box vs. Mobile vs. Hybrid

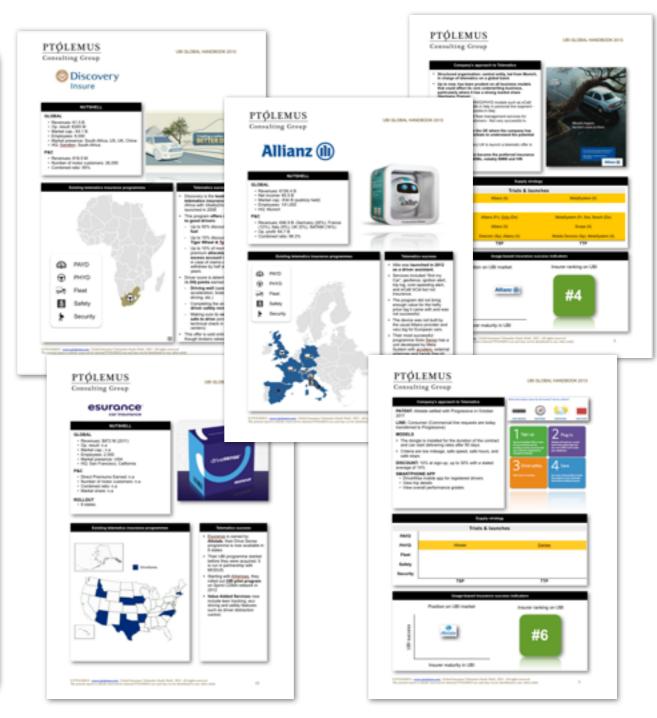




A quick access reference guide of the biggest UBI programmes worldwide

Profiles and assessment of 24 insurers

- Complete picture of the **size**, **profitability** and **deployment**
- Mapped out **geographical rollout**
- Major **events** and **successes** listed
- Ranking of insurers based on their experience, number of customers, the range of the offering, etc.
- Models and discounts compared
- Partners and suppliers disclosed



A worldwide comparison of the key geographical markets

20 countries analysed in depth

- Critical rating data includes
 - Gross written premiums,
 - Number of **policies**,
 - Cost of claims,
 - Loss and expense ratios
- Influential **economic parameters** analysed
- Environment factors presented such as:
 - Vehicle density,
 - **Theft** rate or
 - Cultural factors



The legal landscape explained by legal experts

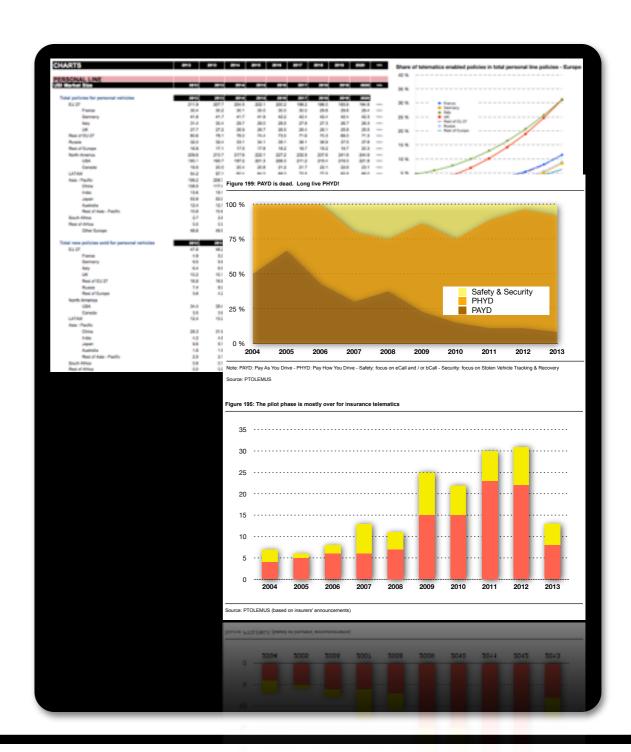
Identify the regulatory drivers that will influence your UBI strategy, including:

- The eCall, ERA Glonass, CONTRAN
 245 and EOBR mandates
- The Viberto Judgement
- The Test-Achats gender ruling
- The Mario **Monti** legislation
- The **1995 European Data Protection Directive** regulation
- The **privacy regulations** and industry best practices
- The **patents** in place and current **Intellectual property** litigation proceedings
- The **US filing rule** discrepancies

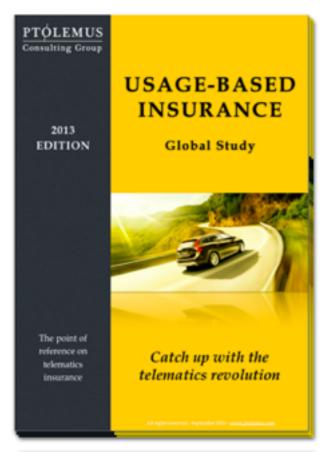


An in-depth market forecasts of UBI that you can rely on

- 10 year (2010-2020) market forecasts
 - Over 6000-line model, built bottom up (based on 2500 lines of input)
 - Using latest available market figures
- A comprehensive analysis & decision-making tool
 - 4 technologies (embedded OBUs, black boxes, OBD, smartphones)
 - 16 areas including USA, France, Germany, Italy, UK, Japan, China, India, Brazil, South Africa, Russia, Japan, LATAM, etc.
 - Differentiated by channels and segments: aftermarket / OEM, personal / commercial
- Market size (volumes & revenues) for insurers, TSPs, TTPs, OEMs and MNOs



The study is provided as a searchable PDF document that can be used by the whole company, worldwide





Reports	Full Study	Full Study with 10-year market forecasts
Contents	 770 pages Electronic version (pdf format, password-protected) 	 770 pages Electronic version (pdf format, password-protected) Excel market forecasts outputs with graphs (password-protected)
Company-wide licence	€ 4 995 <i>Approx.</i> \$6 754	€ 5 995 Approx. \$8 106

For more information, contact Thomas on thallauer@ptolemus.com Alternatively call direct on +44 7973 889 392

The 2012 edition was already held as the Bible on UBI



"Octo Telematics is probably the best informed UBI solution provider globally.

However, we decided to purchase **PTOLEMUS' Insurance Telematics Study**, which analyses this market in an **unprecedented breadth** and depth.

We believe it is a **must-read guide for any insurer or supplier** that is serious about its insurance telematics plans."

Giampiero Luccitti Director of Corporate Development Octo Telematics



"Danlaw serves many insurers in North America; yet, to continue our growth, we need to penetrate other markets. As a 300 person engineering company with scant marketing resources, we rely heavily on external research.

The Global Insurance Telematics Study provides the most comprehensive analysis of the trends, players, devices, and potential.

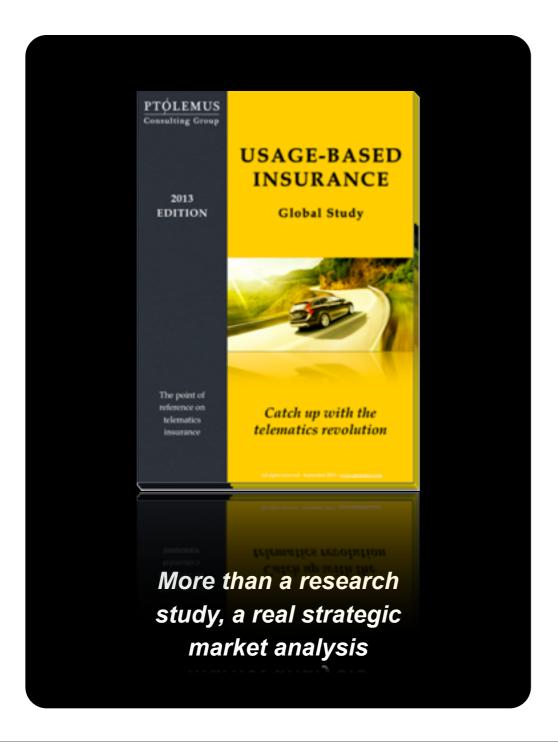
We will align and prioritize our staffing, research, and partnership agreements accordingly.

Worth every Euro."

Mike Carroll VP Sales, Telematics Danlaw, Inc.



The UBI global study is your strategic swiss knife



Strategic tool for decision making

- Identify your competitor's strategy
- Learn from the mistakes made in the past
- Find out successful model and create your own
- Visualise the key information to memorize them faster

External and internal sales tool

- Unparalleled source to create your own presentations
- 300+ original graphs and visuals
- Unique list of actors, vendors and customers

• Years of market research done for you

- Uncover the new market opportunities
- Quantify your and other regional markets
- Predict new technology developments

PTOLEMUS Consulting Group Strategies for Mobile Companies

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Reserve your copy today! Contact me Thomas Hallauer at email: <u>thallauer@ptolemus.com</u> Phone (UK) +44 7973 889 392