### PTOLEMUS Consulting Group

## **UBI** and other trends in insurance



Presentation to FIA members

Vienna, 8th November 2017

## The consulting & research firm for the connected world

#### **Consulting services**



#### Market research publications

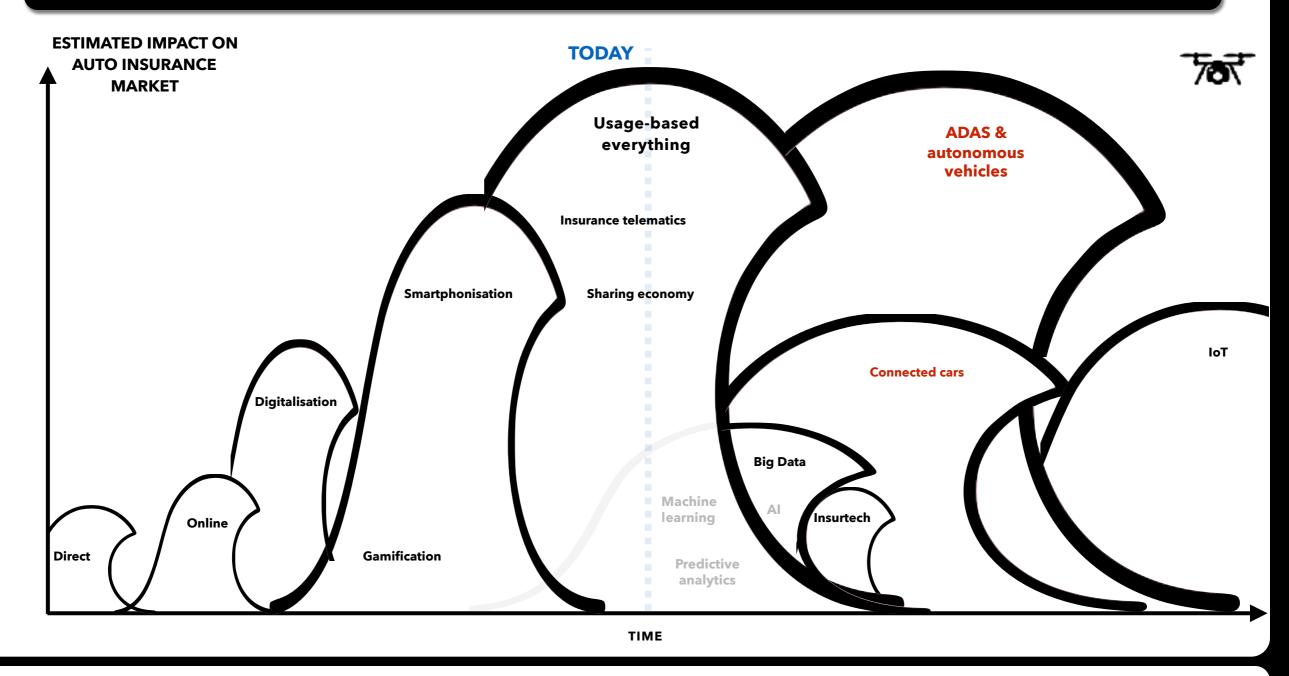


#### Fields of expertise

Mobility services	Car sharing mobility		Road side assistance Tax refund	
Vehicle services & telematics	bCall eCall FMS SVT / SVR	Tracking VRM In-car Wi-Fi Fuel cards	Parking Navigation Speed cameras Traffic information	
Usage-based charging	Car As A Service Electronic Toll Collection	Mobility-as-a- Service Road charging	UBI / PAYD Vehicle rental Vehicle leasing	
Vehicle data & analytics	Al CAN-bus Crowd-sourcing Data protection	Driving behaviour OBD Predictive analytics	Remote diagnostics xFCD	
Vehicle automation	ADAS	Autonomous cars	Autonomous trucks	
Enabling technologies	Positioning (GNSS / WiFi / cellular)	M2M / connectivity Smartphones	Telematic devices V2X	

## No signs that the sea is getting quieter...

#### The waves - Major trends affecting the auto insurance business





Source: PTOLEMUS

## UBI and other trends in insurance

1 Automation will affect everyone, later

Mobility will change the role of the OEM

UBI is the first step in connected insurance

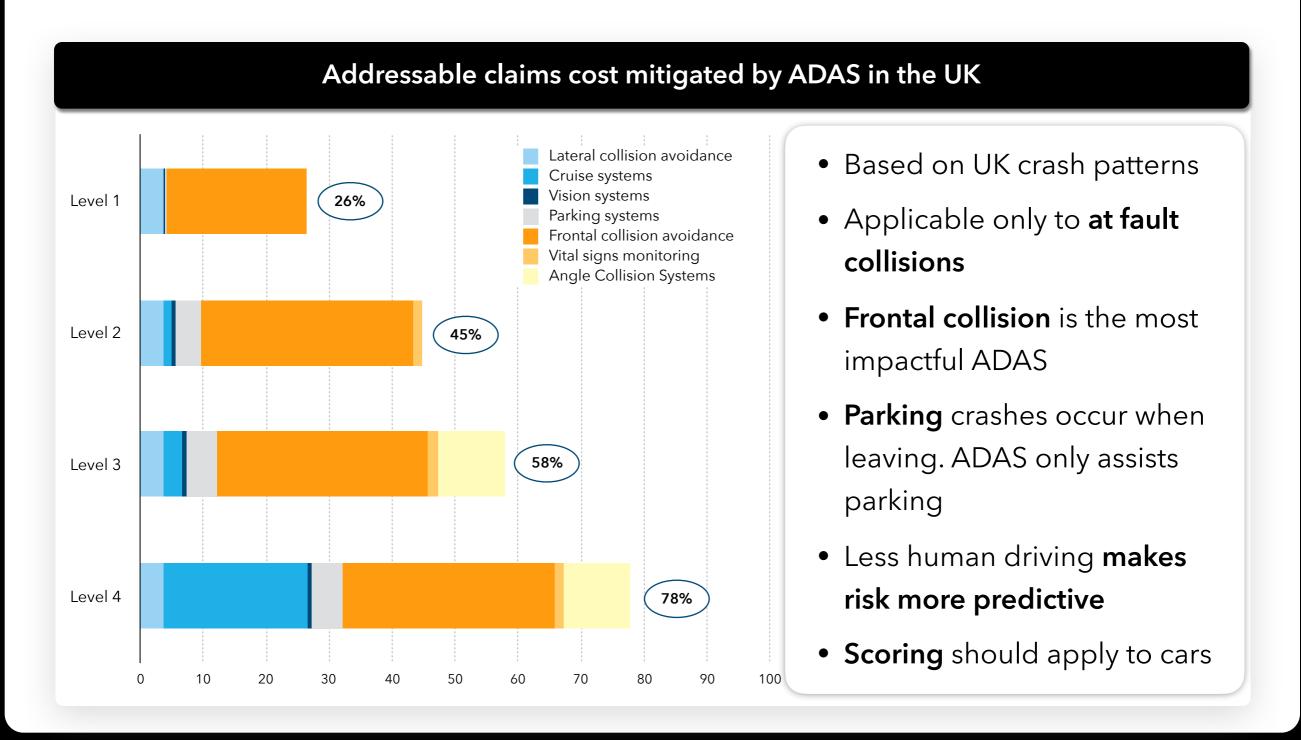
## Fully autonomous vehicles are not expected this decade

	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 4 DRIVERLESS	LEVEL 5
Example	Ford Focus 2016	Tesla Model 3	Mercedes E Class	Navya Arma shuttle	Rolls-Royce Vision Next 100
Launch date	2010	2017	2021	2021	2030?
Enabling technologies	Sensors (Camera, radar)	3D / HD maps	Lidar, V2V, V2I	Lidar, V2V, V2I	Full AI HA GNSS
Defining application	ADAS	Advanced Cruise Control	Autonomous car	Driverless car	Driverless car
Regulation change required	Type approval	Highway code	UNECE R79	City mandate	International transport laws
Driver responsibility	Full liability	Full liability	Partial liability	No liability	No liability

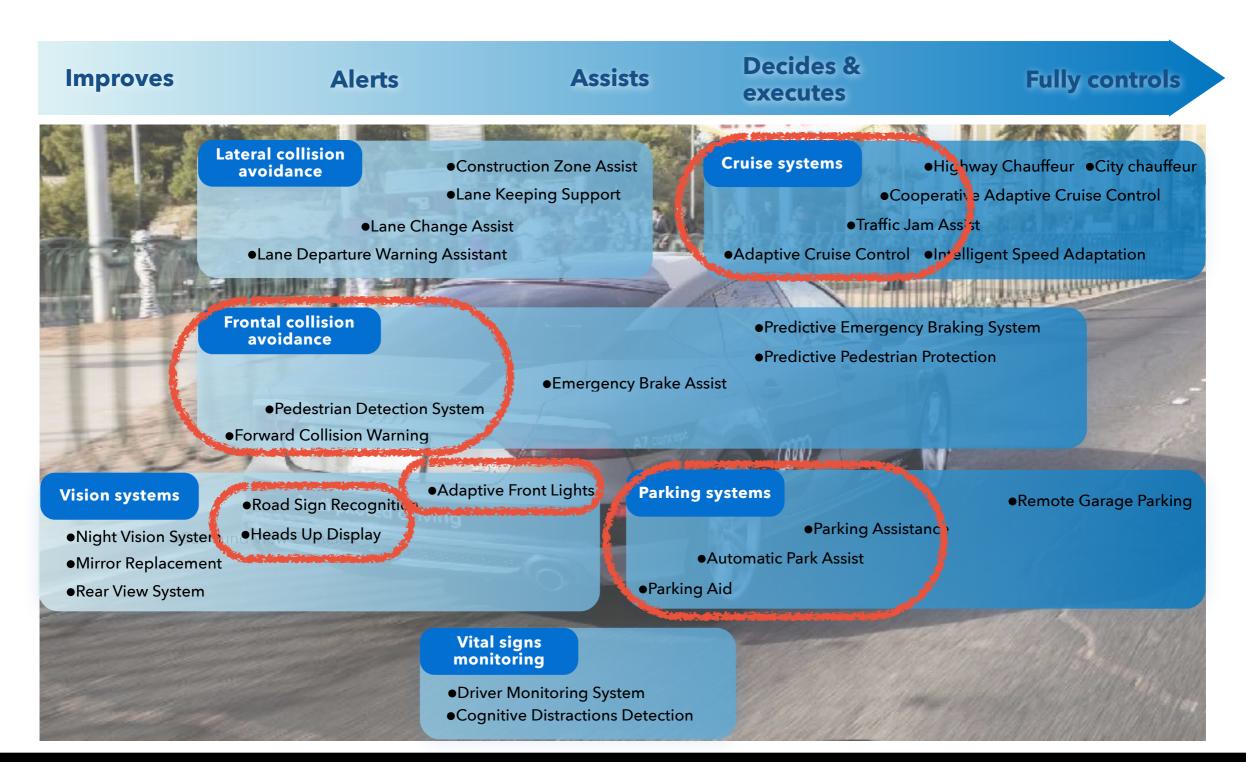


Source: PTOLEMUS

## ADAS can mitigate nearly half of the addressable claims



#### The autonomous trip starts with ADAS features





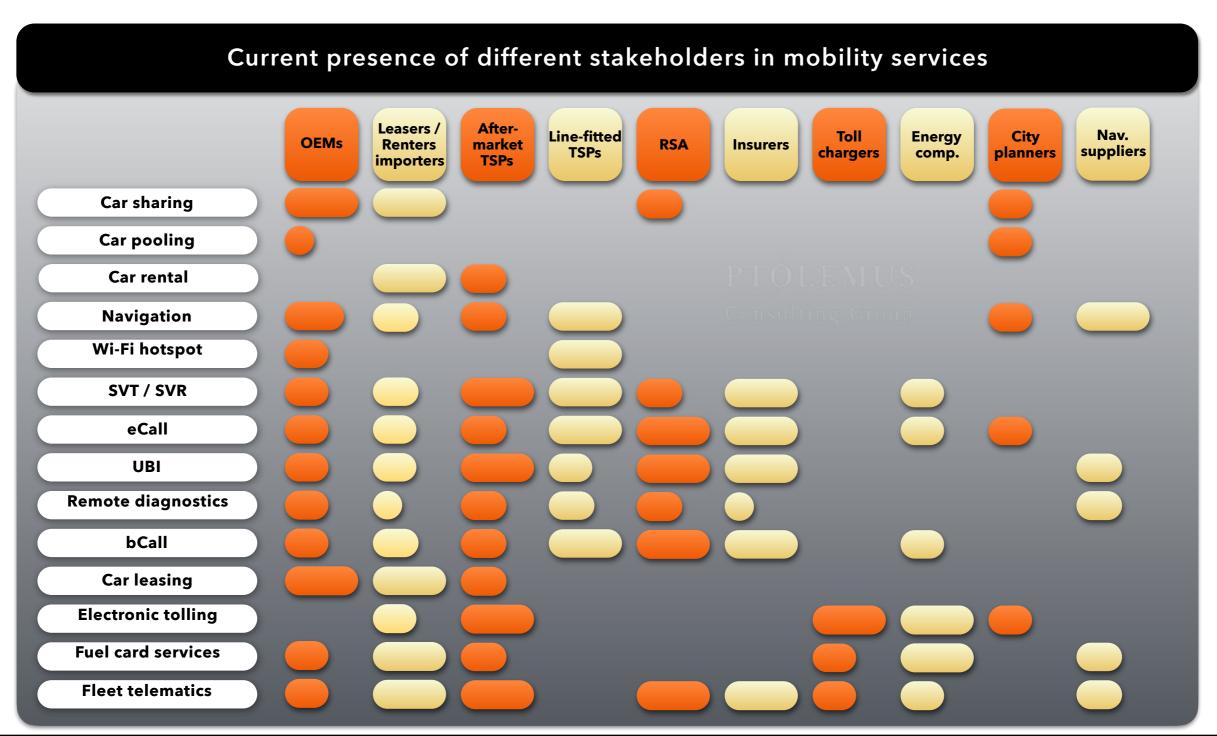
## UBI and other trends in insurance

1 Automation will affect everyone, later

2 Mobility will change the role of the OEM

3 UBI is the first step in connected insurance

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

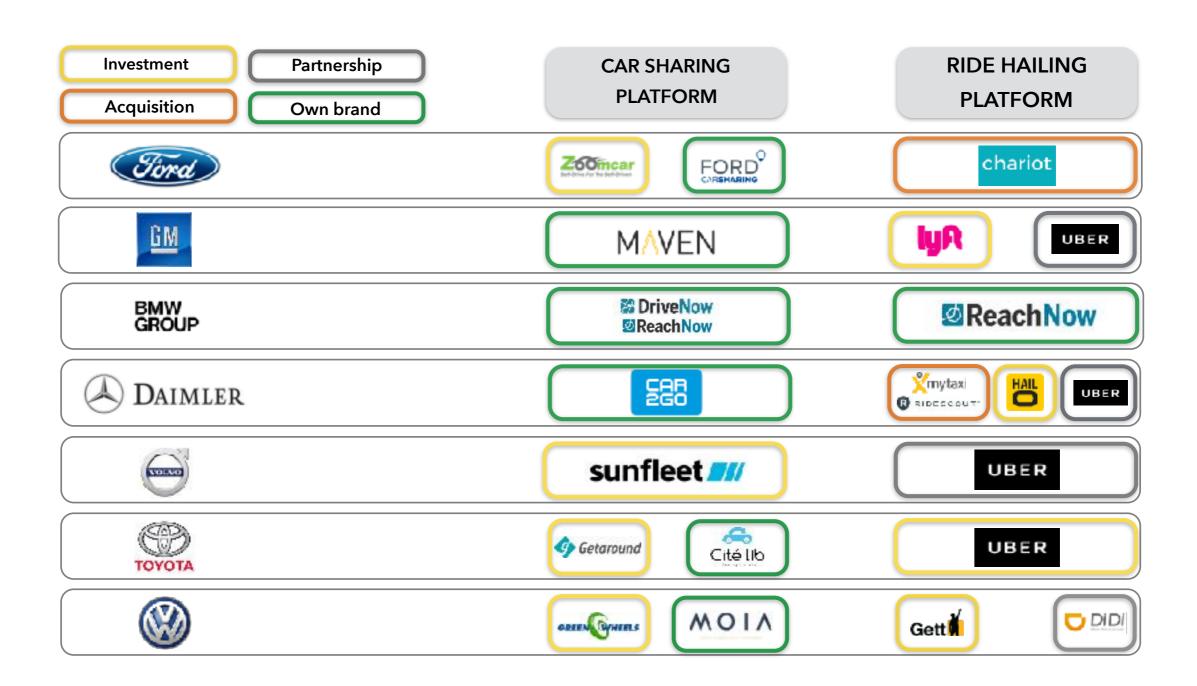




# And these new players will enter the insurance business, directly or indirectly



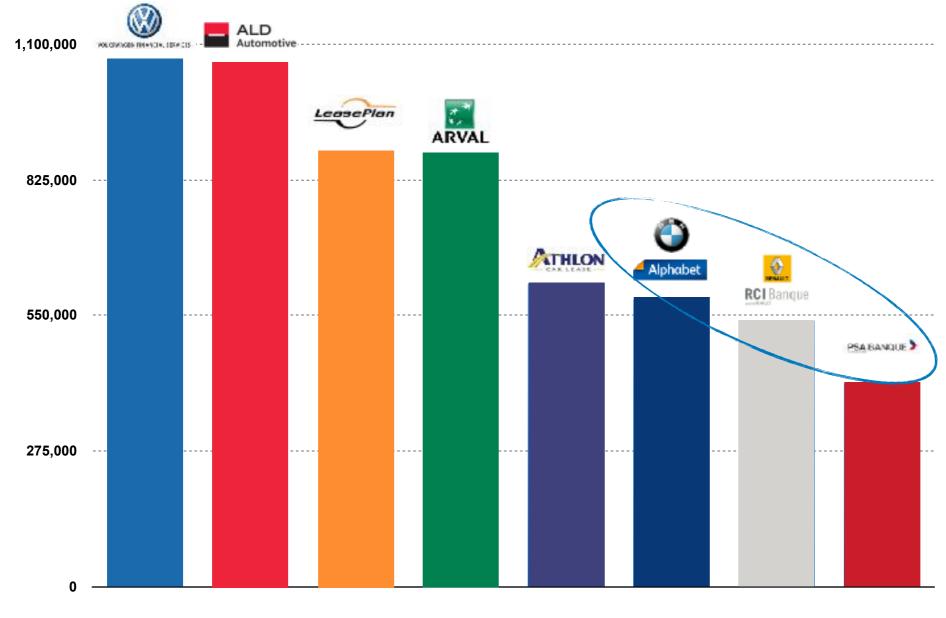
## **OEM** have all invested in mobility





#### OEMs are already among the biggest leasing players

#### Largest leasing companies in Europe (number of cars)



- Leased cars will be equipped by the OEMs connectivity platform.
- Sharing, renting leasing will become different offer from the same companies



## UBI and other trends in insurance

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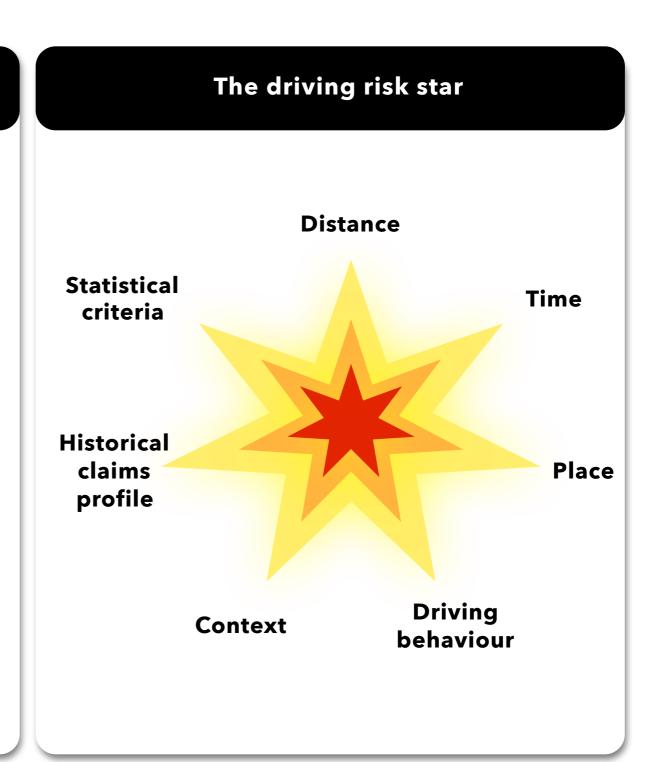
2 Mobility will change the role of the OEM

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#### What are UBI and telematics insurance?

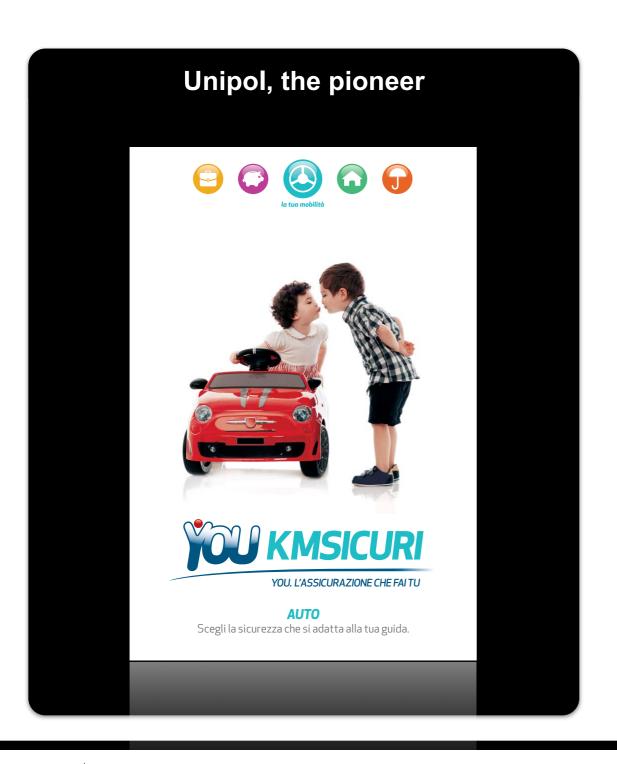
#### Its basic principles

- Most current insurance policies use static / statistical criteria to evaluate drivers' risks - Age, vehicle make & age, place of residence, occupation, etc.
- The historical claims profile is also taken in account
- Statistical criteria are being contested: gender was the first one to be forbidden
- Usage-based Insurance programmes
   provide policies based on these
   criteria and 5 new dynamic parameters



#### Unipol designed its model to solve a problem

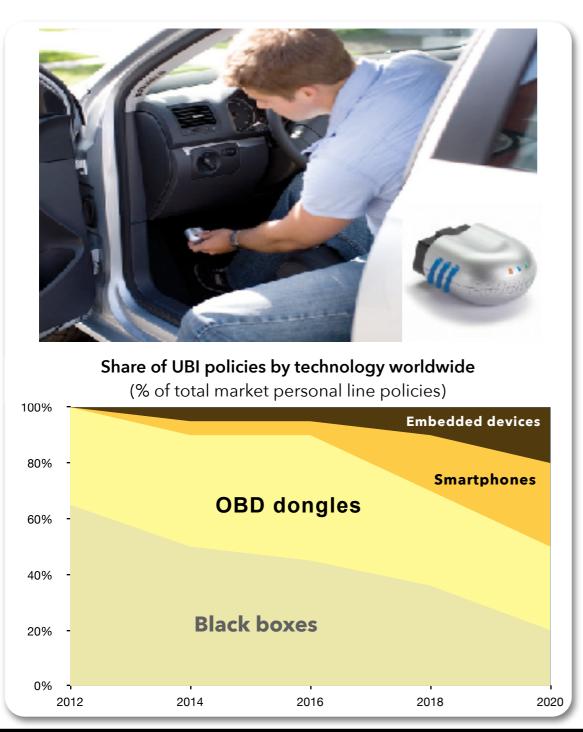




- Unipol started to incentivise drivers to have their car equipped with a black box
- Started with pull model to validate claims
- Added push alerts later to actively reduce FNOL delay
- The reduction in claims cost balanced the cost of the device
- Mostly PAYD, no risk management until much later
- Biggest UBI programme in the world with 3 million policies

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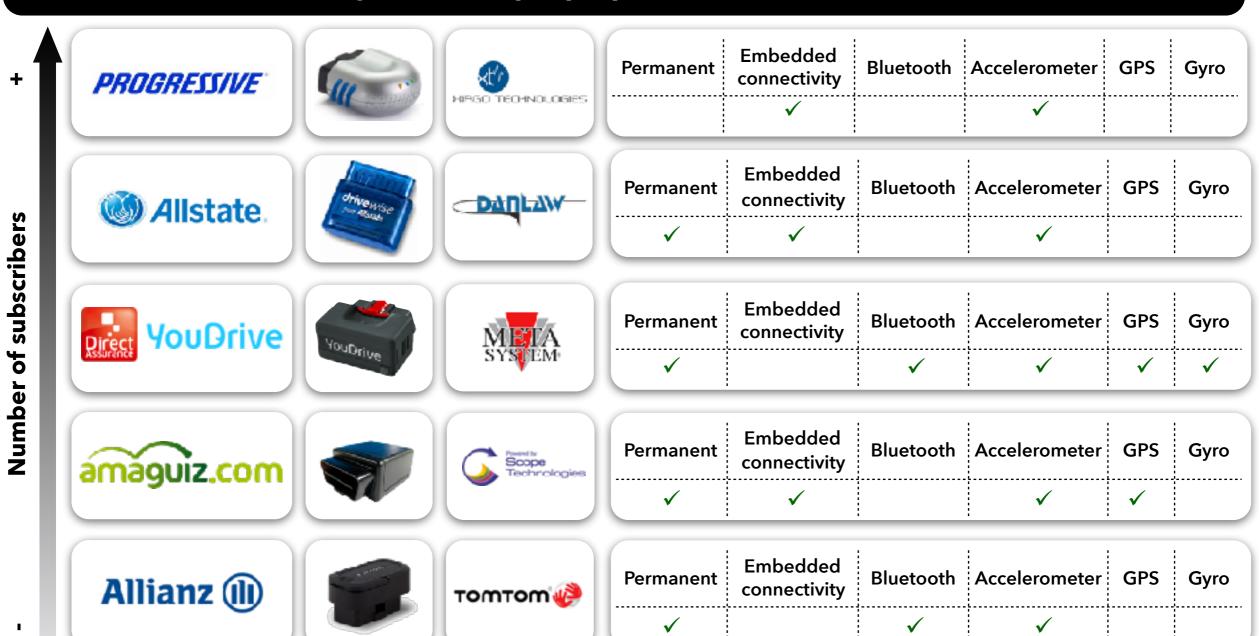
# In 2 years, OBD dongles has become the leading technology to provide telematic insurance *PROGRESSIVE*



- Progressive launched *Snapshot* in 2008
  - The OBD dongle is installed by the driver
  - The snapshot is taken over the course of 3 to 6 months only
  - Location data is not collected
- The programme is accessible for all drivers, not just high risk
- Progressive only uses 3 parameters:
   harsh braking, mileage and night driving
- It is now the 2nd biggest UBI programme worldwide with 2 million policies
- We expect it will **switch to smartphones** in the next 2 years

## OBD dongles can collect different datasets, adapting to the insurer's business model

#### Starting with a simple proposition can lead to success



### Several programmes now put more emphasis on rewards

#### **Reward-based programmes**

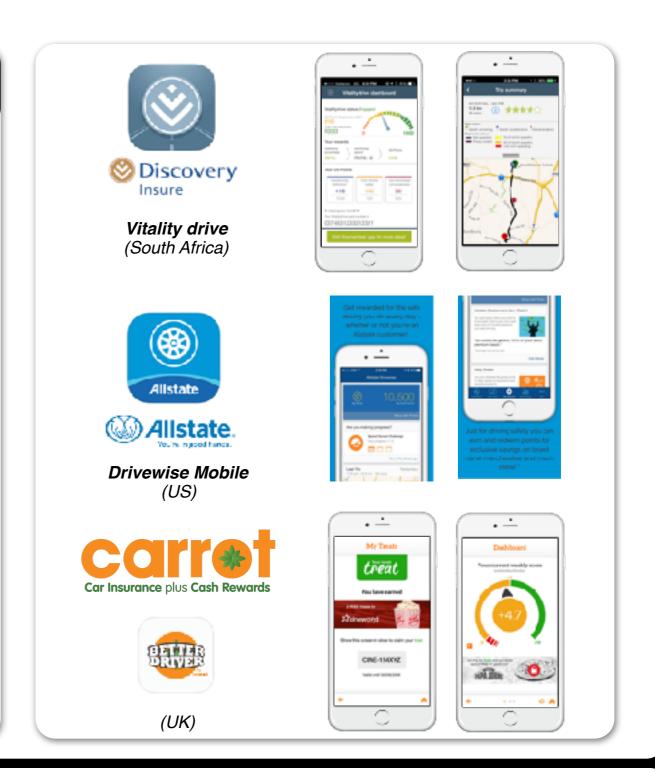
 Giving a premium discount might not be financially sustainable for all drivers

#### Benefits

- ✓ Many options for the insurer: Fuel, repair, everyday treats
- ✓ Shared cost through partnership model -Sometimes no variable cost for the insurer
- ✓ More complex to set up, but harder to copy

#### Drawbacks

- \* Not sufficiently attractive for high premium segments
- \* More adapted to big insurers with large customer base
- \* Some customers with little time will not fully benefit from the scheme

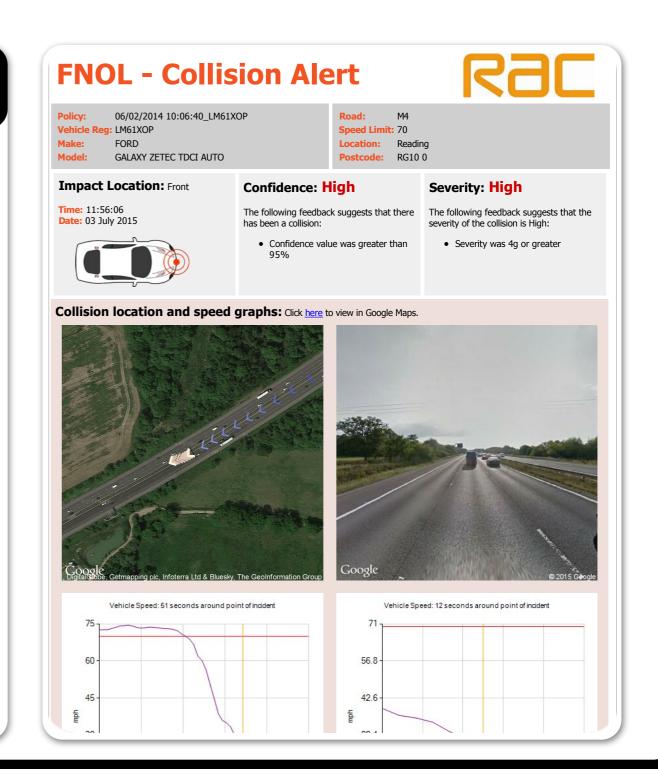


#### Car clubs have a lot to provide to insurers

#### RSA searching for the perfect business model

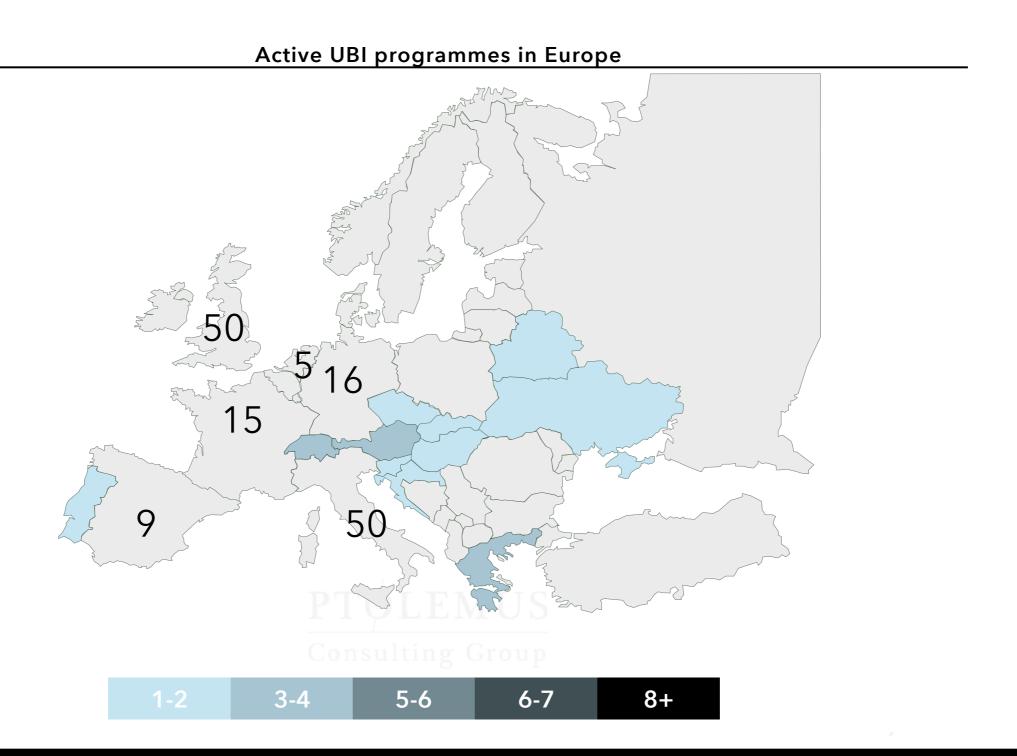
- RSA have a **dedicated channel** to sell insurance
- The club's benefits can include a device
  - ✓ DLG tried to have it send information to Greenflag
  - ✓ RAC initially offered the device to its members then added UBI insurance. BUT no crash or diagnostics
  - ✓ AXA, Allianz, Generali all trying to find a model to monetise car data from their assistance partners.
  - ✓ AAA now provides car sharing/ ride hailing
- OEM data is the next step for many
  - \* OEMs are all building their own data cloud
  - \* Quality, frequency and data sets will vary
- Crash data can be sold in a transaction based model

Source: PTOLEMUS

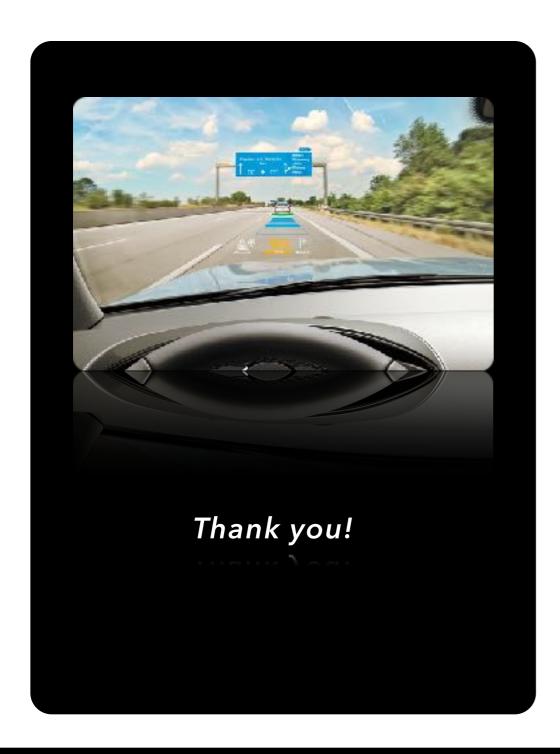


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### Most European markets have started



### From a drop in the ocean to a teaspoon



- Insurance is becoming **assistance**. It needs car data to evolve. The same data can reduce assistance costs
- Crash data is a priority for insurers
- AV will not happen soon but ADAS already has an impact on repair today
- The RSA market will need to morph quickly:
  - Use of diagnostics data become key to improve RSA operations
  - With more shared vehicles, B2B assistance contracts will represent a bigger share of the market
- Insurers and assistance providers are best positioned to combine forces and share costs