

Telematics Future and Legislation

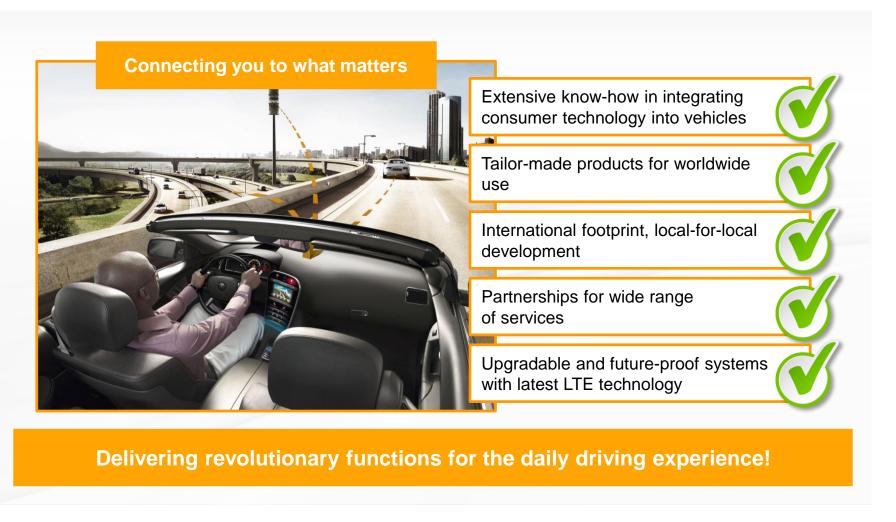
Geneva 05.03.2015

Continental – Telematics Leadership



Continental

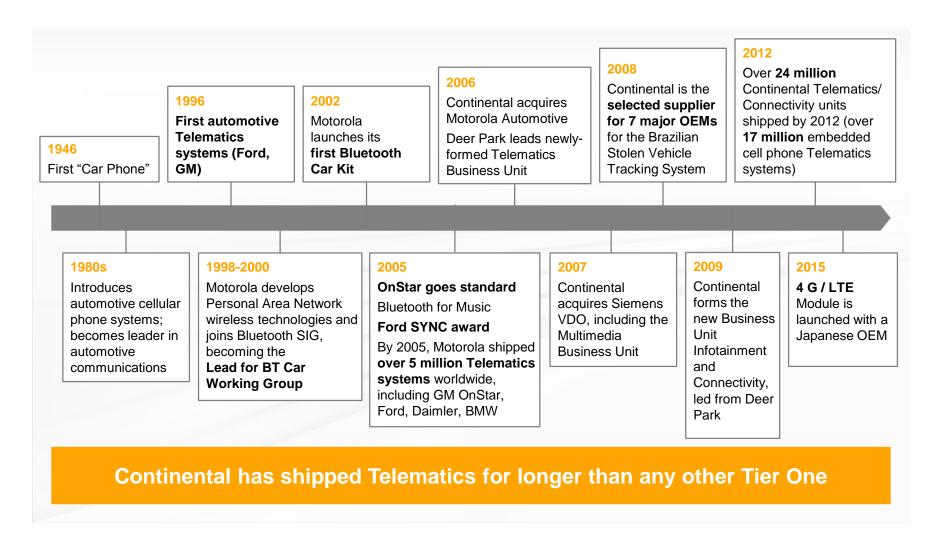
A Leading Supplier for Telematics





Continental

A History of Telematics Competence





Continental

Leading Technologies on Worldwide Markets





Strong Partnerships

Proven Successful Launches















- > Long history of collaboration in successfully deploying multiple Telematics systems
- > Continental has direct access to network operator subject matter experts for fast problem resolution
- > Continental's expertise with both modem and product level certification results in faster time to market
- > Continental has in-depth knowledge of network operator features and requirements for proper definition of critical tests applicable to automotive Telematics applications





- Proven performance of existing systems in the field
- > Strong partnerships resulted in successful deployments under tight time constraints
- > Continental often consulted as subject matter expert in analyzing complex system issues to root cause

OLLA LONG

- > Qualcomm has been a partner for over 20 years (e.g., DS-CDMA license agreement signed in 1990)
- > Strong collaboration on roadmap definition of future products and technologies for Automotive
- > Integration of multiple generations of Qualcomm's CDMA technology from DS-CDMA to 3G EVDO

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Continental – eCall and ERA



eCall

European Emergency Call

Dates

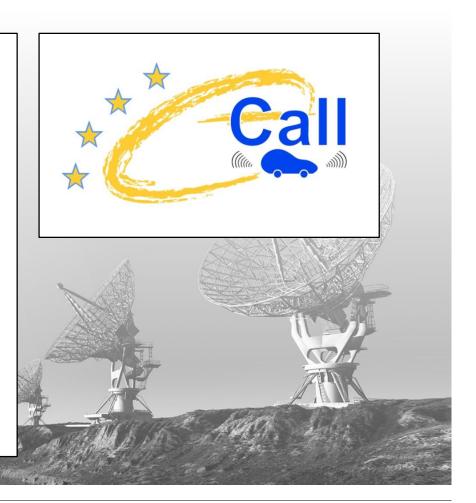
- Current PSAP (infrastructure) date –
 Oct 1st 2017
- Current vehicle mandate date Mar 31st 2018
- To be confirmed by law Mar 2015

Technical Issues

- LTE: New project, I_HeERO starting up to plan eCall + LTE
- TSP: (Third Party Services) to be allowed in parallel with eCall

Continental already has an eCall capable platform and is actively participating in Plug Test Fests to ensure eCall readiness

4Q 2014: Result 95% Test Pass Rate – Above Average



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ERA GLONASS

Russian Emergency Response System

Dates

- New vehicles and New Type Approved Vehicles
- > Starting Jan 1st 2015

Status

- > Previous certification issues have been fully or largely resolved:
- Accredited certification houses now exist for both component and vehicle level
- Infrastructure support for ERA is rolled out across all regions

Current Projects

 Continental will submit two different OEM programs to ERA certification in 2015



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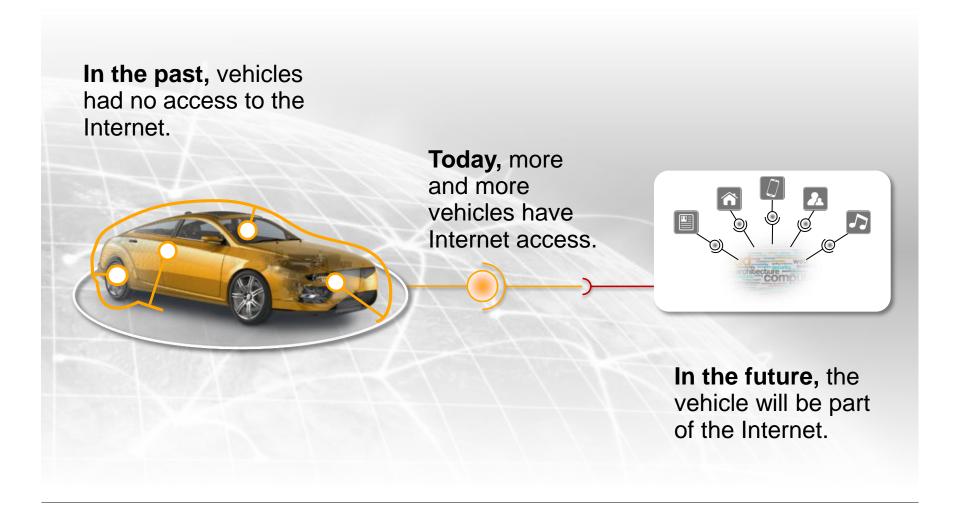


Telematics – The Future



Evolution of the Connected World

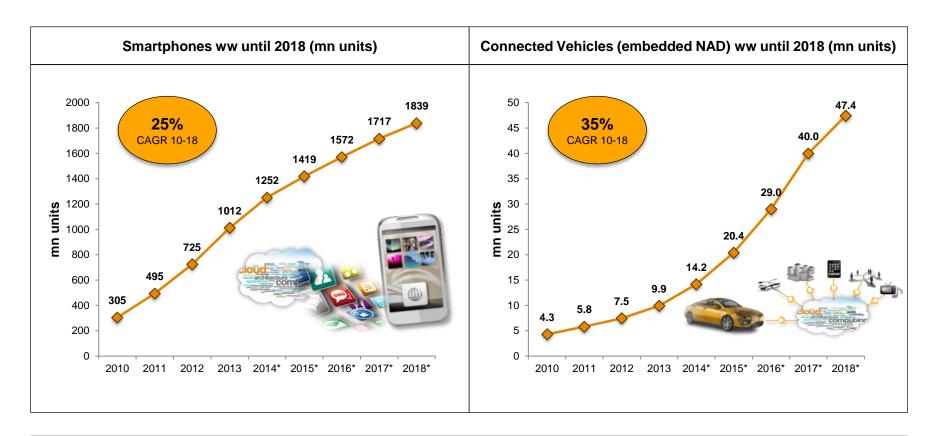
The Vehicle is becoming part of the Internet





The World of Connected Objects

Growth of Connected Vehicles stronger than Smartphones



In average Smartphone volumes are doubling every 16 months (and increasing), Connected Vehicle volume every 9 months

* = Forecast, Source: Statista July 2014

* = Forecast, Source: IHS April 2014, NAD = Network Access Device



Connectivity Helps -

Increase Comfort, Safety and Efficiency

Comfort



A driver in Germany spends about 1,5 Days in traffic jams each year.

Safety



90% of all accidents are due to human error.

Efficiency

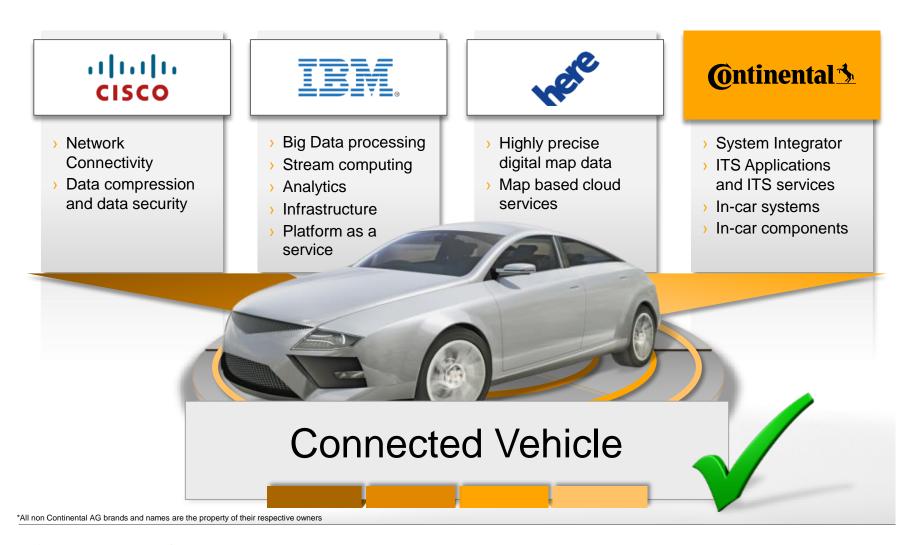


The style of driving can influence fuel consumption by up to 20%.



Vehicle Networking and Partnerships

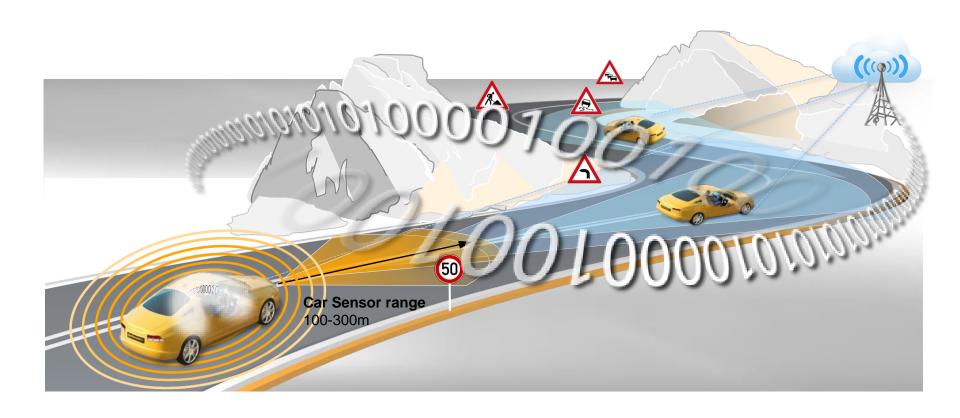
Strong Partners in the IT industry





Electronic Horizon

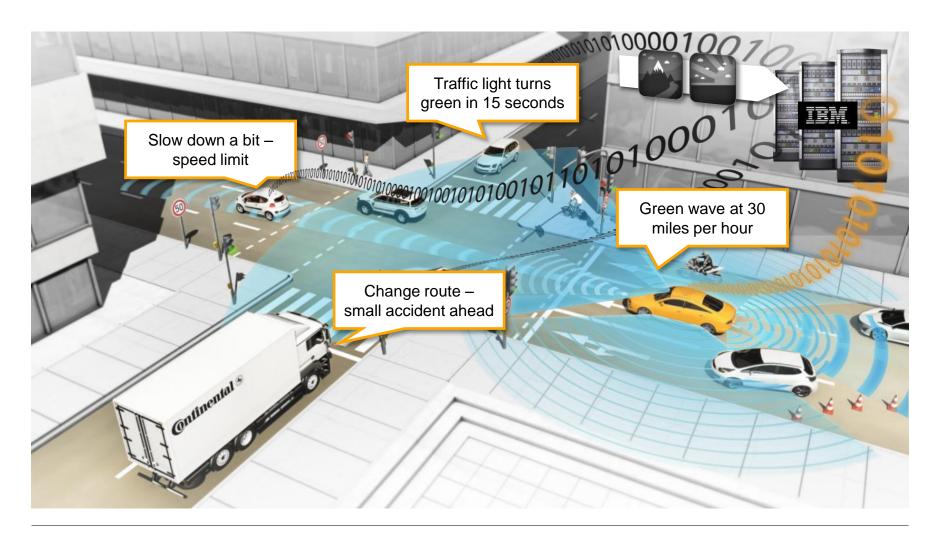
Increases the Visual Range beyond Vehicle Sensors





The future is starting now

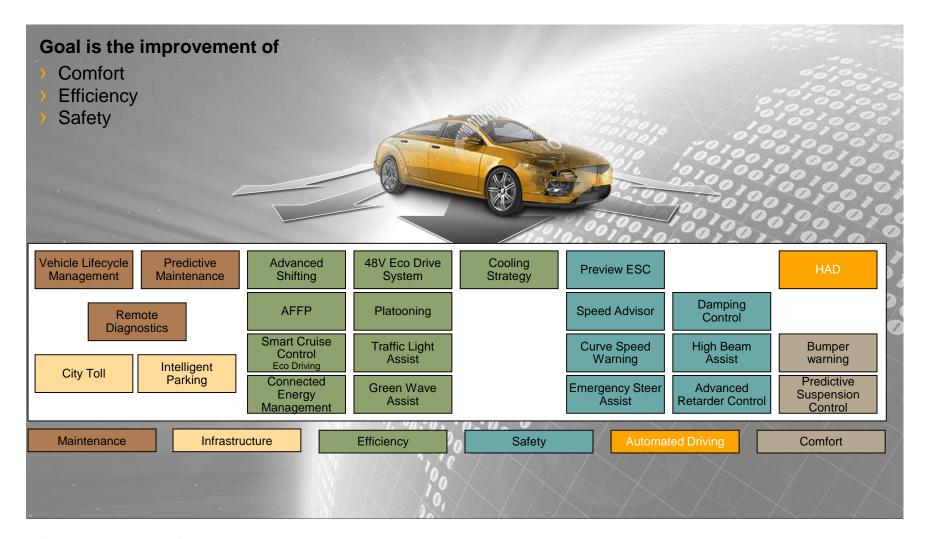
eHorizon paves the way to Automated Driving





Electronic Horizon Use Cases

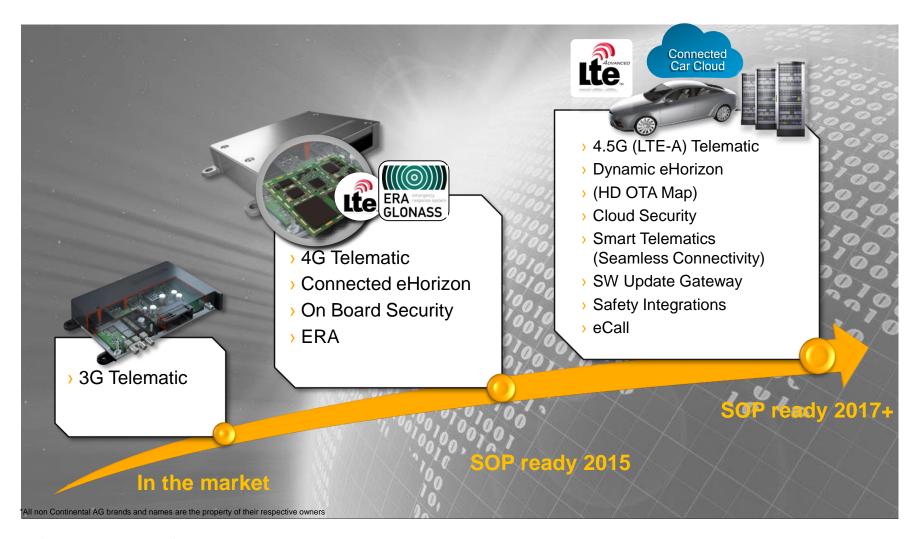
New services to increase the benefit of Connected Vehicles





Evolution of Telematics

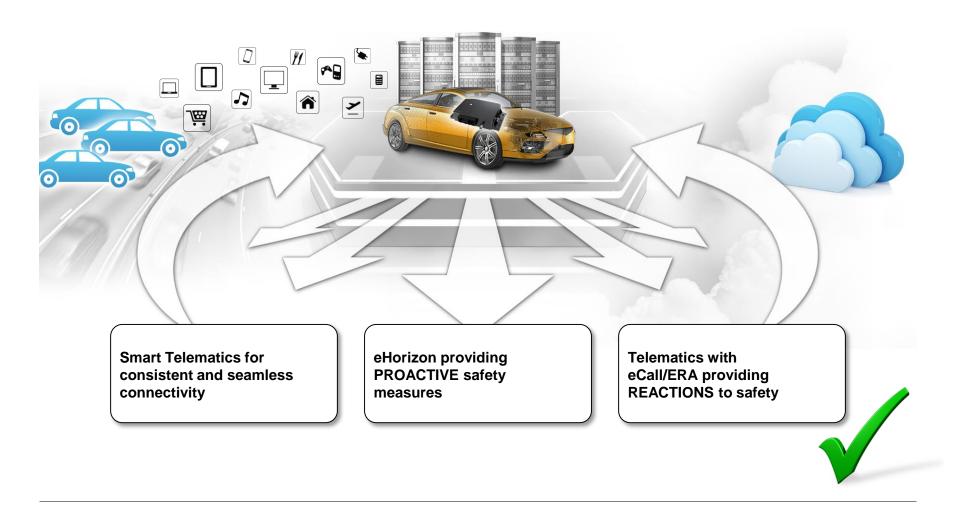
Faster, more Secure and consistent Connections + Safety





Continental – Pushing through the Challenges

Innovative Solutions for the future networked car



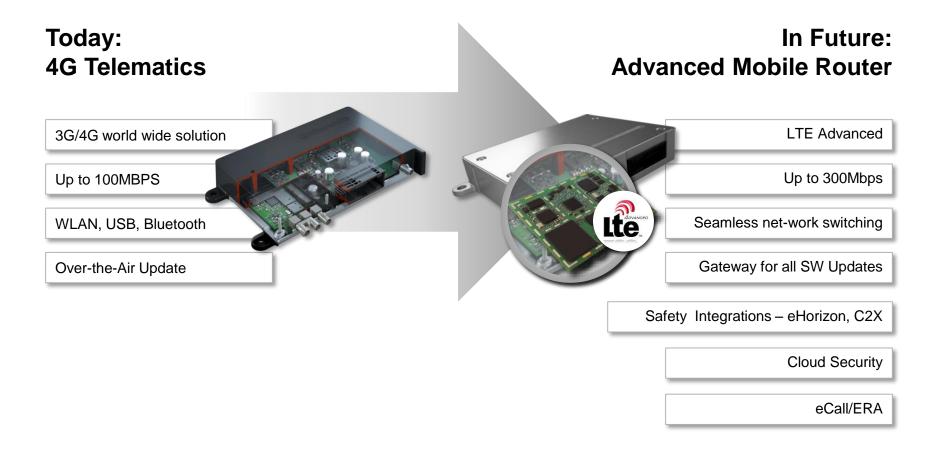


Backup



Continental – Ensuring Consistent Connectivity

A Telematic Unit Becomes a Secure Mobile Router



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