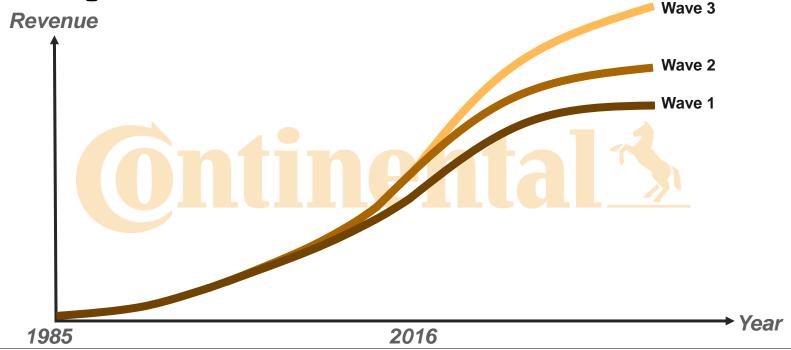




Digitalization drives Innovation
The 3 Digital Waves Model

Digitalization Drives Innovation

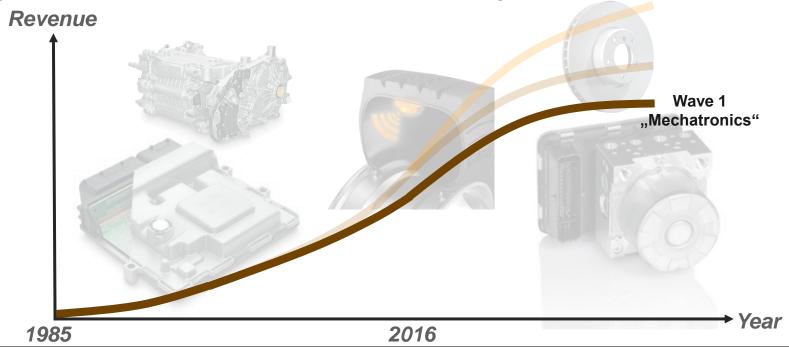
The 3 Digital Waves Model





Wave 1 "Mechatronics"

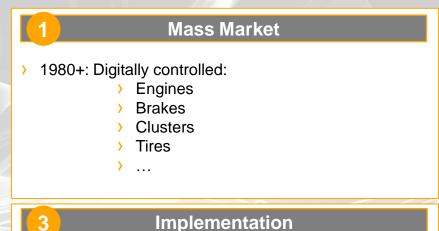
Digitalization Makes Mechanics Intelligent



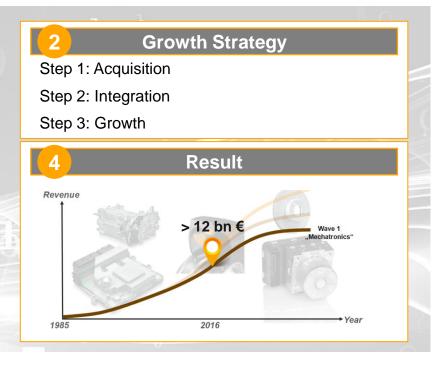


Wave 1 "Mechatronics"

From Opportunity to Business



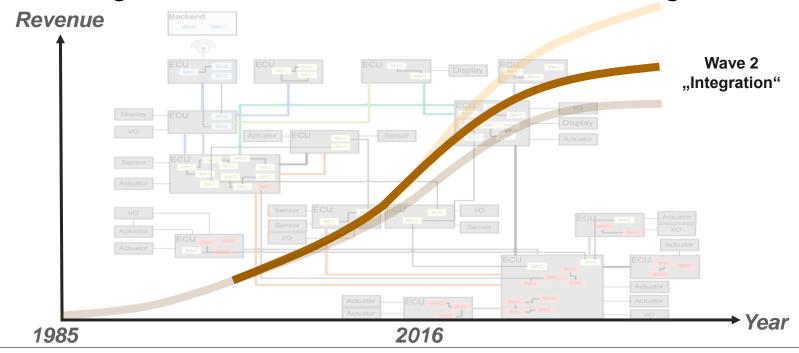






Wave 2 "Systems Integration"

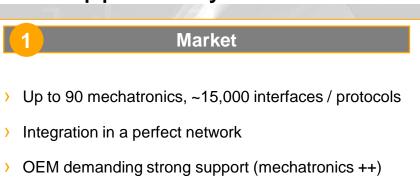
Networking of Mechatronics Makes the Car Intelligent





Wave 2 "Systems Integration"

From Opportunity to Business









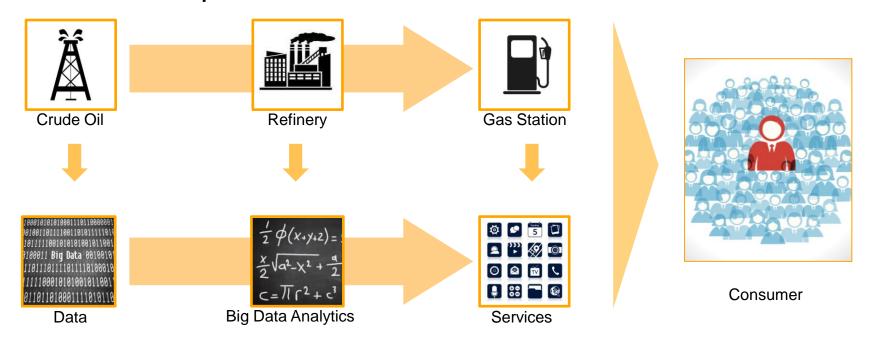
Wave 3 "Mobility Services"

Networking of Cars Makes Mobility Intelligent Wave 3 ,, Mobility Revenue Services" Year 1985 2016



Wave 3 "Mobility Services"

Services Principles: Value Add Chain

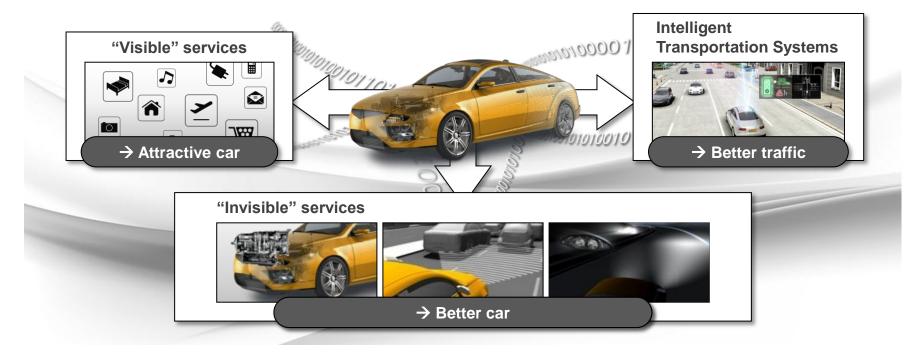






The Vehicle as Part of the IoE

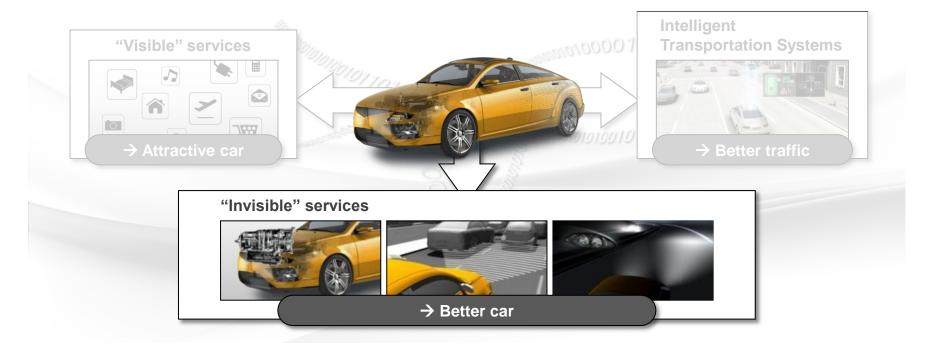
What are the Benefits?





The Vehicle as Part of the IoE

What are the Benefits?



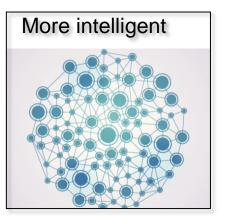


The Better the Vehicle Knows the Road, The Better the Vehicle Will Be













Static eHorizon

CV Cruise Control - SOP 2012

3% Average Fuel **Savings**That Means:

267 Mio. Liter of Diesel

704,236 Tons of CO₂

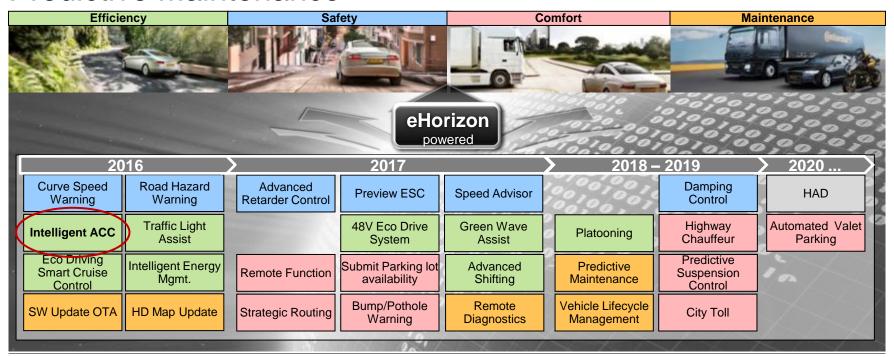
☐ €360 Mio. Fuel Costs





Evolution of the eHorizon (dynamic)

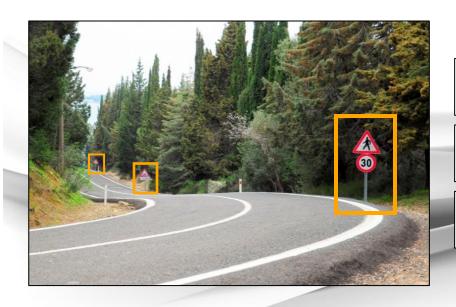
Predictive Maintenance





eHorizon References

Connected Enhanced Cruise Control powered by eHorizon

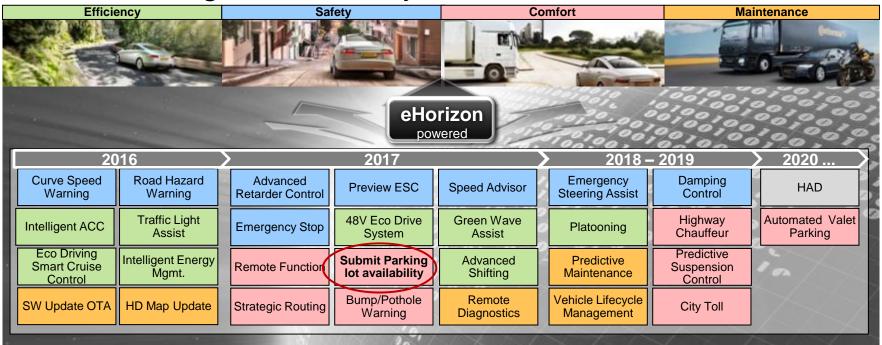


- Road Model delivers precise and lane specific speed limit information
- ACC longitudinal control adapts to speed limits and curve radiuses
- or AFFP gives feedback while vehicle is manually driven



Evolution of the eHorizon (dynamic)

Submit Parking lot availability





Park&Go @SG

First concrete result for Singapore's population & Smart Nation





