

Capital Market Days 2020

Autonomous Mobility and Safety Safe and Dynamic Driving Toward Vision Zero

Ticker: CON
ADR-Ticker: CTTAY
<http://www.continental-ir.com>

Frank Jourdan, Member of the Executive Board
December 16, 2020

This Is Autonomous Mobility and Safety

Our Vision and Mission

Safe and Dynamic Driving Toward Vision Zero – SensePlanAct

Safe Mobility Is Our Passion – Saving Lives Our Devotion.



- We integrate **safety** technologies and master vehicle dynamics to realize safe and enjoyable driving.



- With our components and system competencies we pave the way toward **autonomous mobility**.

Key Facts

Sales 2020E:

~ **€7.5** billion



Employees¹:

~ **47,000**
worldwide



Customers:

Major OEMs in
all regions

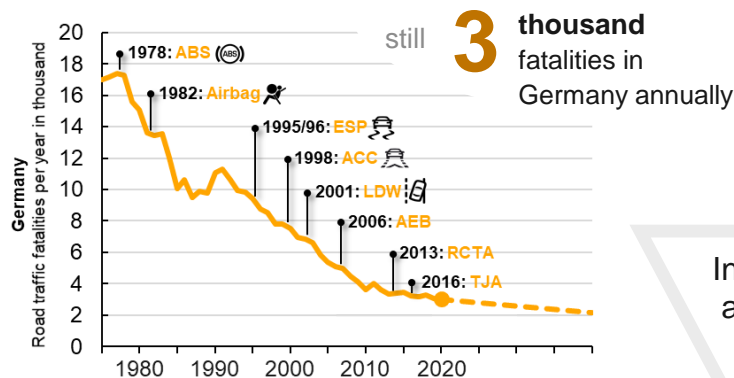


¹ Year-end 2020E

This Is Autonomous Mobility and Safety

We Make Vision Zero Happen

Traffic Fatalities¹



Twofold Approach

Increase performance and automation to reduce human error



Increase installation rates of established safety systems



Over **1.35** million people worldwide die in road accidents every year

Another **50** million are injured.

¹ Sources: Data for 2019, Federal Statistics Office, Germany (Destatis) | Global Status Report on Road Safety 2018, World Health Organization

ABS: Antilock Braking System | ESP: Electronic Stability Program | LDW: Lane Departure Warning | AEB: Autonomous Emergency Braking | RCTA: Rear Cross Traffic Alert | TJA: Traffic Jam Assist

This Is Autonomous Mobility and Safety

Comprehensive Product Portfolio Along the Chain of Effects

Autonomous Mobility

Radar



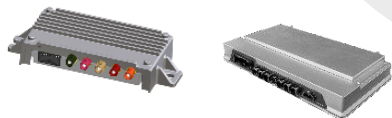
Camera



Lidar



AD¹ HPC²/
AD control units



Sense Plan Act

Functions

Assisted and
Automated
Driving

Safety and
Motion
Control

Safety

Sensors



Hydraulic
brake systems



Electronic
brake systems



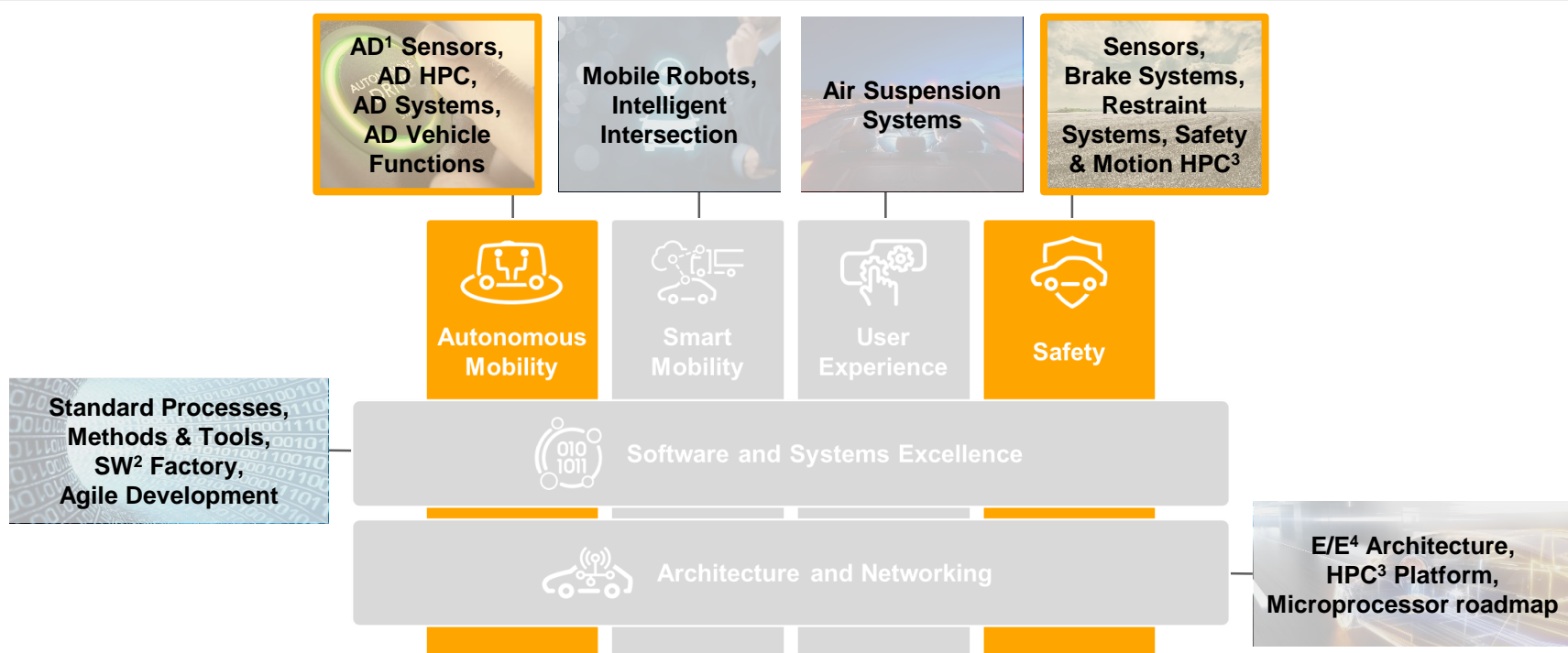
Restraint
systems



¹ Assisted/automated Driving | ² High-performance computer

This Is Autonomous Mobility and Safety

Embedded in Automotive Strategic Framework

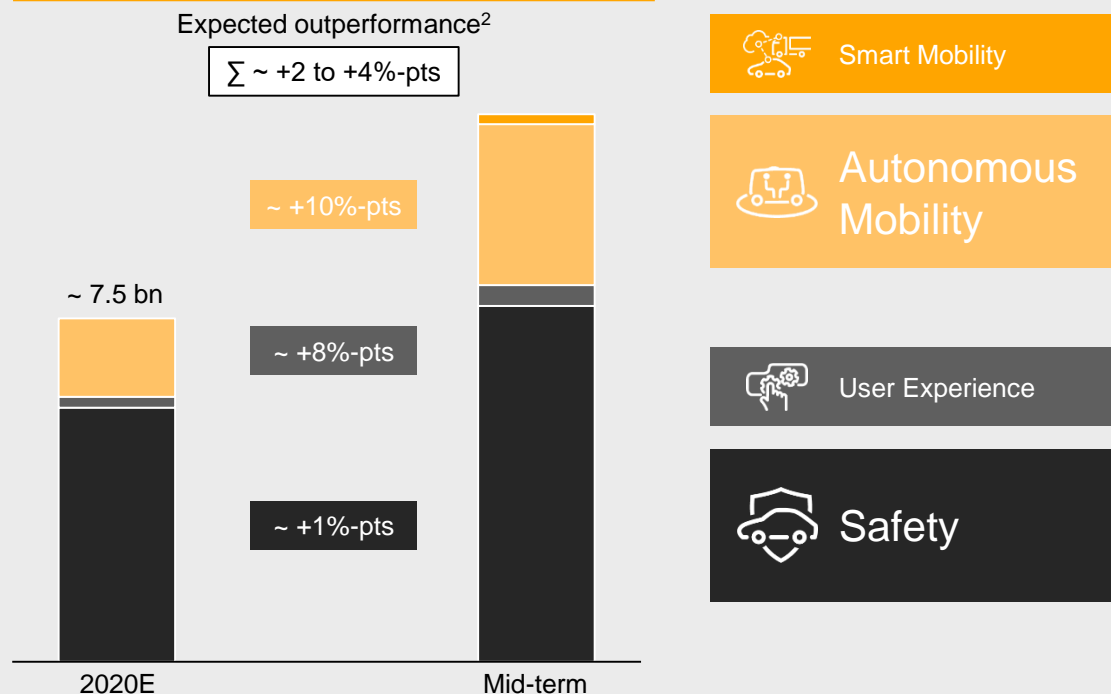


¹ Assisted/automated Driving | ² Software | ³ High-performance computer | ⁴ Electric/electronic

This Is Autonomous Mobility and Safety (AMS)

Our Sales Contribution to the Action Fields

AMS Sales in Action Fields¹ (€)



Smart Mobility



Autonomous Mobility



User Experience



Safety

Growth

- › Fast-growing markets
- › Outperformance driven by technological innovation
- › Focus: market position, growth and long-term profitability

Value

- › Stable, mature markets
- › Profitable business
- › Focus: profitability and cash conversion

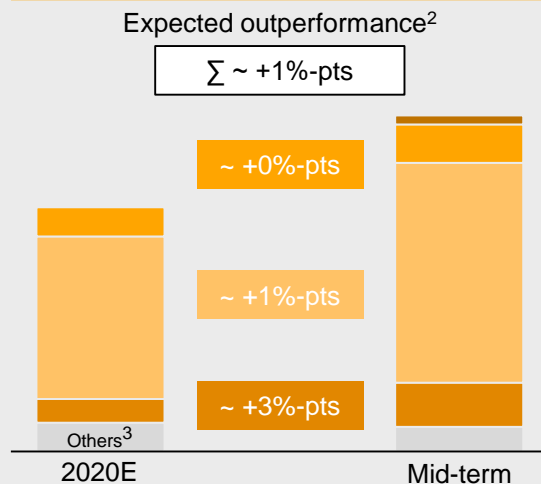
¹ Based on mid-term IHS light vehicle production (LVP) forecast from November 2020 | ² Mid-term organic sales growth above IHS LVP forecast

Value Contributor: Safety

Strong and Solid Business



AMS Sales in Action Field¹ (€)



Safety & Motion High-performance Computer

- › Offers new opportunities. With our extensive safety expertise & understanding of systems we are the partner of choice

Restraint Systems

- › Become anticipatory and connected. Continued top market position. Leverage in-house portfolio & competencies

Brake Systems

- › Will be needed in all future cars. Portfolio adaptation, extension to cover automotive trends & increase content

Sensors

- › Are the base of each vehicle function. Strong position today. Extending portfolio to tackle tomorrow's opportunities

40	OEMs
100	Brands
> 300	Models

> 400 mn

sensors
delivered

2019
Speed, inertial, battery,
position, satellites, ...

> 45 mn

units
delivered

2019
Airbag control unit,
electronic brake system

¹ Based on mid-term IHS light vehicle production (LVP) forecast from November 2020 | ² Mid-term organic sales growth above IHS LVP forecast | ³ Others: washer systems, build to print

Value Contributor: Safety

Integration Increases Content per Car



Conventional = different components

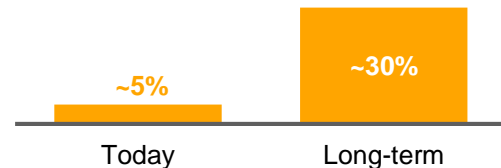


One Box = integration into one unit



- › Superior performance
- › Full recuperation
- › HAD¹ ready
- › Better packaging

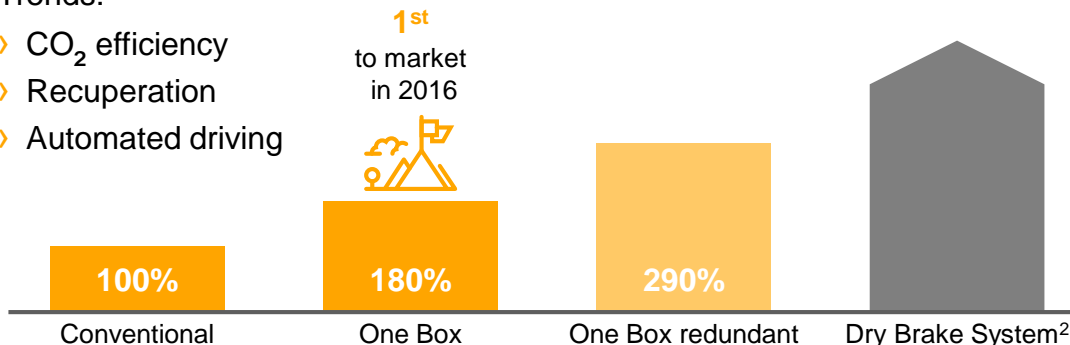
One Box Installation Rates³



Typical content per car

Trends:

- › CO₂ efficiency
- › Recuperation
- › Automated driving



6 OEM, 53 SOPs⁴ to date

~1 mn units delivered in 2019

37 awards in backlog

All platforms of a premium OEM
(recent award with additional €1.8 bn LTS⁵)

¹ HAD: Highly Automated Driving | ² Feasibility Study | ³ Internal outlook based on customer awards and request for quotation | ⁴ SOP: Start of Production | ⁵ LTS: lifetime sales

Value Contributor: Safety

Well Prepared for Vertical and Horizontal Function Integration



Comprehensive Portfolio



Sensors



Brake Systems



Restraint Systems

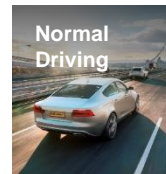


Safety & Motion HPC

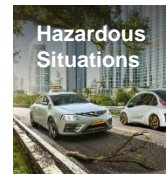
Complete Chain of Effects



All Driving Situations



Normal Driving



Hazardous Situations



Crash

Extensive knowledge and understanding of the system –
from the individual components up to the whole vehicle



Value

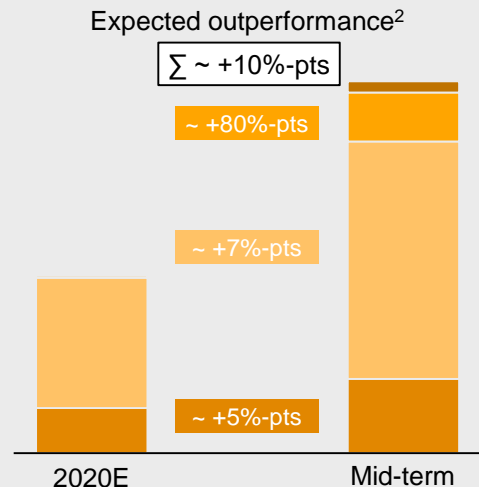
- › We create value by translating market trends into tangible solutions
- › We increase content by vertical and horizontal integration
- › Manage for profitability and cash conversion

Growth Driver: Autonomous Mobility



Sustainable Growth Through Our Increasing Content per Vehicle

AMS Sales in Action Field¹ (€)



High Resolution Lidars

- Complete portfolio from short to long range. Leverage experience with strong partner. Introduction in ≥ L3 systems, additional integration in ≥ L2 Plus systems

AD Control Units / AD High-Performance Computer (AD HPC)

- Scalable software and high-performance computing platforms guarantee future readiness

Radar

- Securing technology leadership with next generation (4D). Fusion with camera enables outstanding perception. Rising number of radars in ≥ L2 Plus systems (“radar belt”)

Camera

- Leading surround view systems. Work together with partners to improve. Leveraging 360° vision for automated driving. High quantity of satellite cameras in ≥ L2 Plus

25	OEMs
50	Brands
> 300	Models

> 100 mn
units
delivered

2017 – 2019
Radars, cameras, lidars,
AD control units

> 15 %
sales CAGR

2017 – 2019

¹ Based on mid-term IHS light vehicle production (LVP) forecast from November 2020 | ² Mid-term organic sales growth above IHS LVP forecast

Growth Driver: Autonomous Mobility

Our Level 2 Plus Solutions Addressing Significant Growth



Continental technology

in series

**Partly Automated Driving
(SAE L2)**



in series

L2 "Performance"

"L2 Plus"

L2 "Premium"



from 2021

HAD ready

from 2021/22

**Highly Automated Driving
(HAD²) (SAE L3)**



Software



**Highway Assist
NCAP¹ 5 stars**



**Traffic Jam Companion
(hands-off ≤ 80 kph)**



**Highway Companion
(hands-off ≤ 130 kph)
L2 in extended
"Operational Design
Domain"**



**Cruising Chauffeur
Traffic Jam Chauffeur**

**AD High
Performance
Computer**

optional

1

1

2

Radars

1 – 5

5 – 7

5 – 7

7

Cameras

1 – 2

6

6

9

Lidars

optional

≥ 2

Content per vehicle

> 200 EUR

> 2x L2

> 4x L2

> 10x L2

¹ NCAP: New Car Assessment Program | ² HAD: Highly automated driving

Growth Driver: Autonomous Mobility



Modular Software & Hardware Platforms to Manage High Complexity

Full Stack Capability

Driving and Parking Functions



Perception



Operating System and Middleware




Software components from

 Continental

 Continental subsidiary

 Continental subsidiary

 3rd party



Scalable Computing Platform

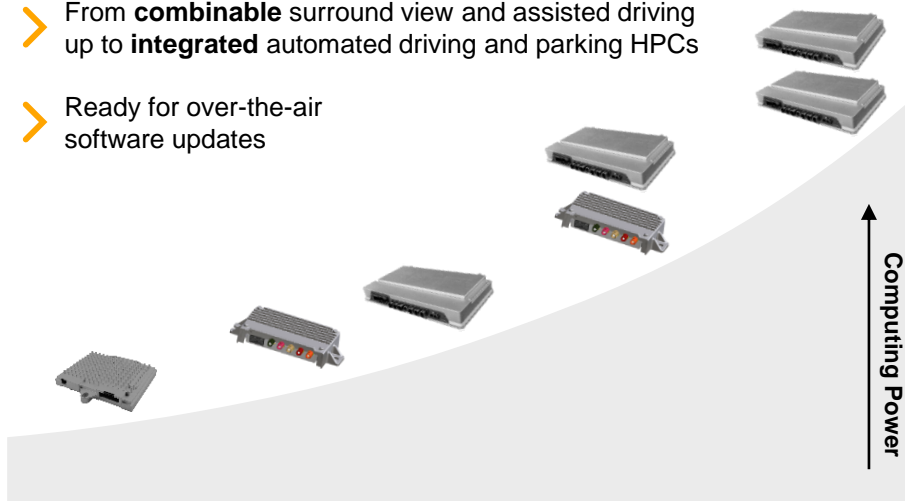
Partly Automated Driving (SAE L2)

"L2 Plus"
Performance Premium

Highly Automated Driving (SAE L3)

Fully Automated Driving (SAE L4)

- > From **combinable** surround view and assisted driving up to **integrated** automated driving and parking HPCs
- > Ready for over-the-air software updates



Growth Driver: Autonomous Mobility

Enabling the Monetization of Software

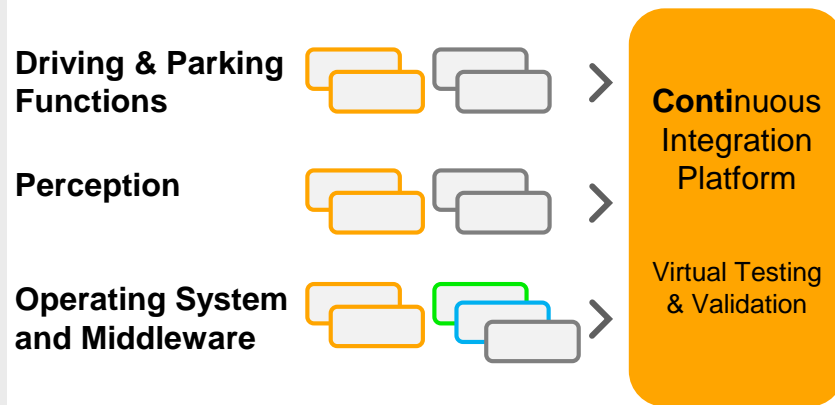


Data & AI-driven Software Stack Development



Business Model
Licenses & Update fees
for Software Stacks

Leading Edge Software Integration Processes



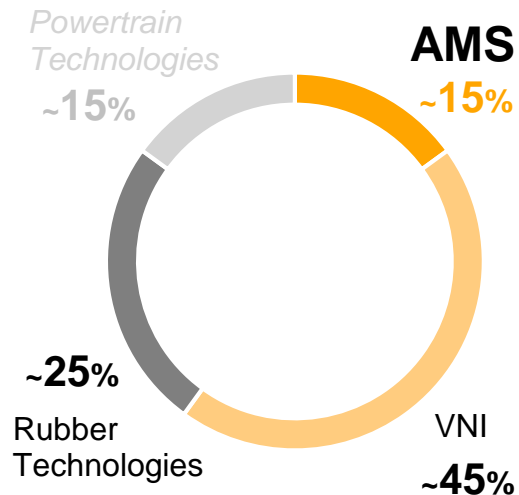
Business Model
Engineering Service
for „Integration & Validation“

Strengthen Operational Performance

Right-size Cost Structure Via Reductions and Shift to Best Cost

Annual gross cost savings target

Total > €1 bn by 2023



Contribution from AMS

	2019	Mid-term
Best cost share in manufacturing	~75%	~80%
Best cost share in R&D	~50%	~60%

Adjusted EBIT¹ Margin Bridge AMS

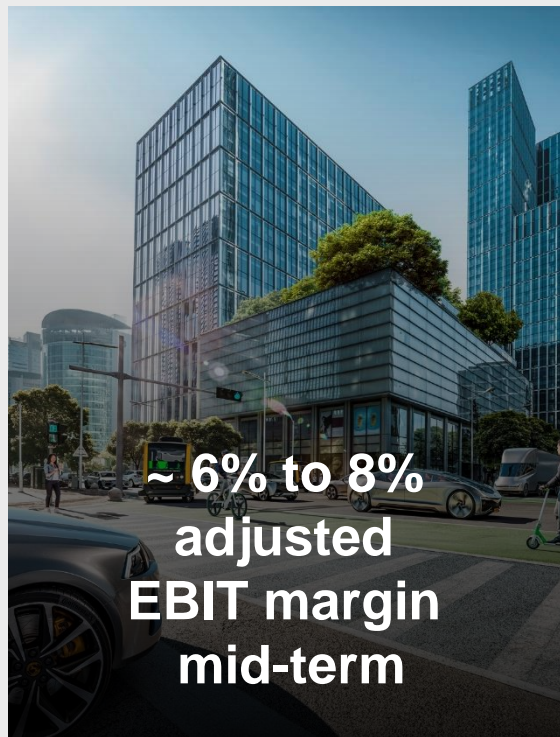
We Strive for an Adjusted EBIT Margin of ~ 6% to 8% in the Mid-term



¹ Before amortization of intangible assets from purchase price allocation, changes in the scope of consolidation and special effects

Summary

Growth in Autonomous Mobility; Value in Safety



This is Autonomous Mobility and Safety:

Sense, **plan** and **act** in Safety and Autonomous Mobility **together** to reach our **Vision Zero**

Value Contributor – Safety:

New products to **secure the solid business**

Growth Driver – Autonomous Mobility:

Technology leadership and scalable solutions ensure **over-proportional growth**

Recovery of Adjusted EBIT Margin Profile:

Outperform the market with **~ +2 to +4%-pts mid-term**; improved operational performance to increase profitability

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The Future in Motion