

Continental 
The Future in Motion



Continental Sibiu

Welcome to Our Location

Agenda

01

**Continental
Corporation**

02

**Continental
in Romania**

03

**Continental
in Sibiu**

04

#peopleofcontinental

Our Vision:

Your Mobility.
Your Freedom.
Our Signature.

- › Highly developed, intelligent technologies for mobility, transport and processing make up our world.
- › We want to provide the best solutions for each of our customers in each of our markets.
- › This is how we satisfy the demands of our stakeholders and become recognized as a highly reliable and respected partner creating the highest possible value.



Our Values

Trust

We both give and earn trust.



Passion To Win

We have the passion to win.



Freedom To Act

We grow through freedom toward responsibility.



For One Another

We attain top value with our team as one Continental



Great People Culture

Automated Driving

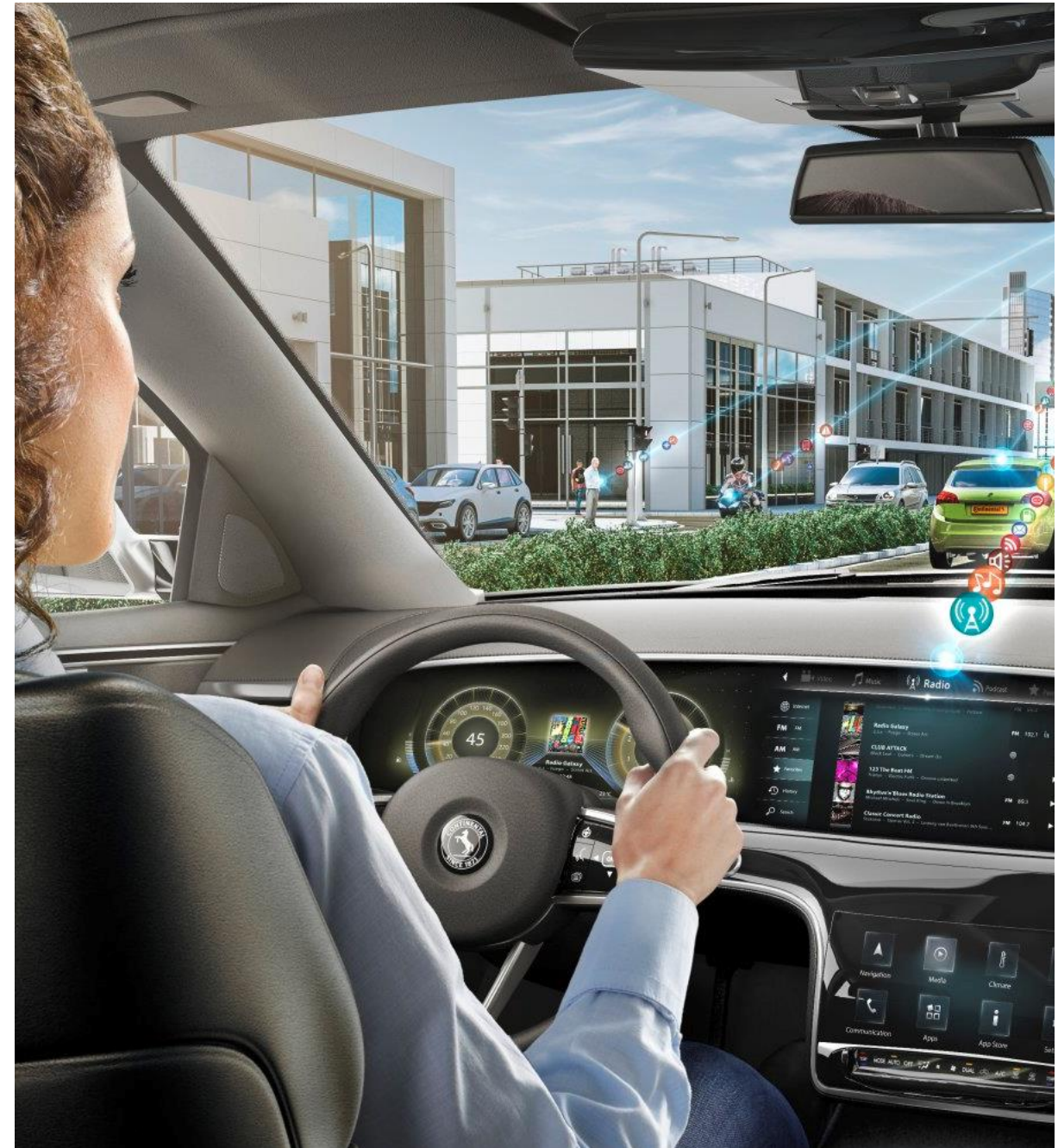
- › Today's **advanced driver assistance** systems provide the basis for the automated driving of the future.
- › Continental is using its full **innovative power** to drive forward this trend and developing intelligent technologies that take over more and more driving functions – as long as the driver wants them to.
- › **The advantage:** more safety, more convenience, more efficiency.



CUBE (Continental Urban mobility Experience)

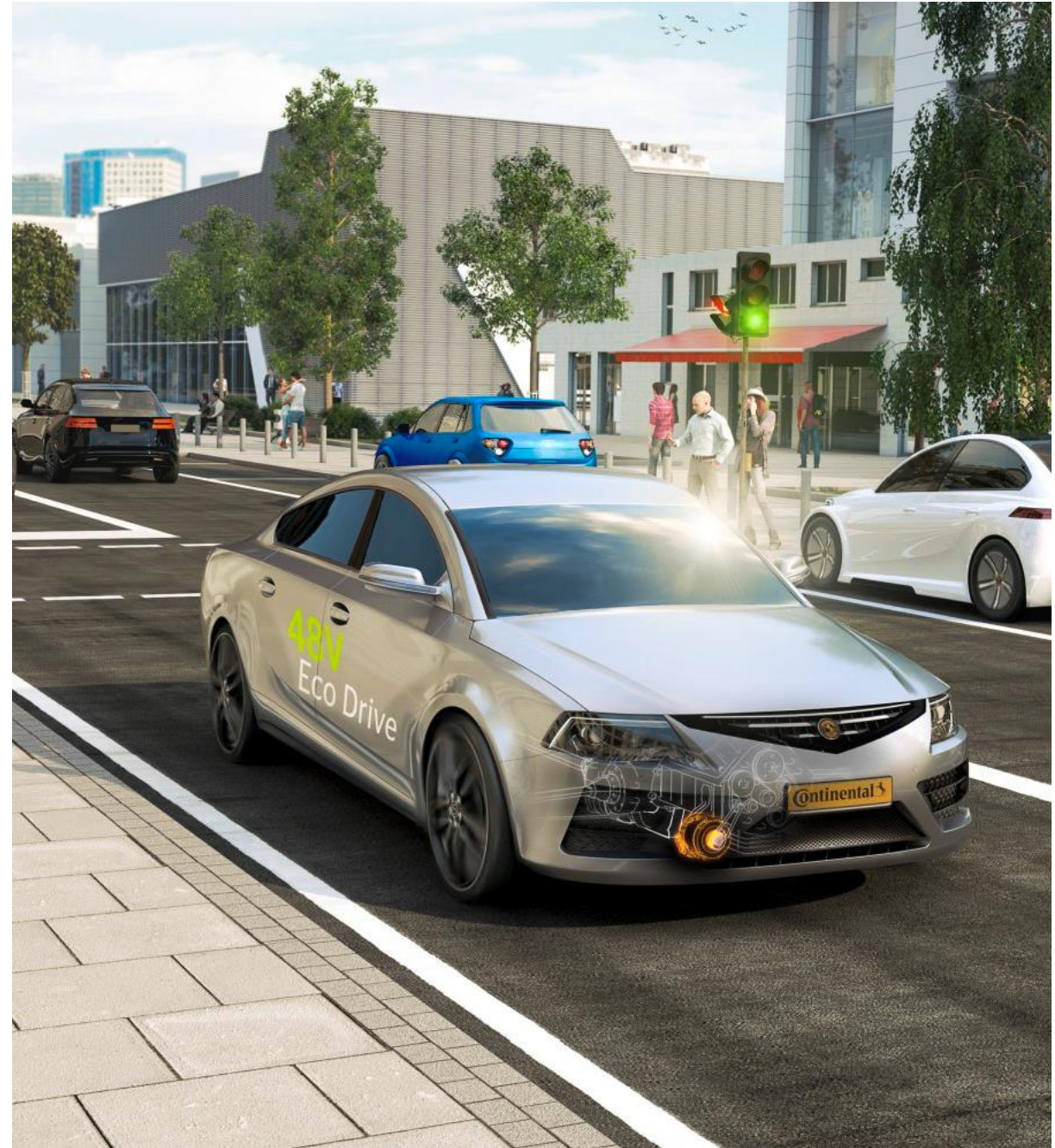
Connectivity

- › Continental connects vehicles and people with the digital world.
- › We develop and enable **holistic connectivity solutions**. We provide connectivity within the vehicle itself as well as with other vehicles and the outside environment.
- › New possibilities are also emerging from the development of **intelligent transport systems**. In the future, **cloud-based software solutions** will offer more convenience not only for the driver and passengers, but also for the transport industry.



Electric Mobility

- › With the “**Clean Power**” vision, Continental demonstrates the opportunities offered by clean mobility.
- › Continental offers vehicle manufacturers the components and systems to gradually bring tailor-made electrification to the roads. From **start/stop technologies** and **48 V** and **hybrid component**, right up to systems for all-electric vehicles.
- › Our **innovative solutions** not only make driving more environmentally compatible and affordable, they also make it more practical and fun.



Continental Corporation

Present Worldwide



*Headquarters in Hanover

Status: Dec. 31, 2019

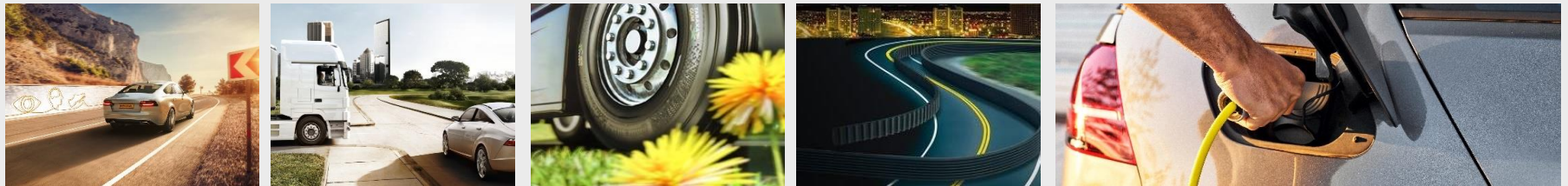
Continental Group Structure

Effective January 1, 2020

Continental Group



Group Sectors



Automotive Technologies

Rubber Technologies

Powertrain Technologies

Business Areas

**Autonomous
Mobility and
Safety
(AMS)**

**Vehicle
Networking
and
Information
(VNI)**

Tires

ContiTech

Vitesco Technologies

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Continental Corporation

Romania



20 000

Employees

16

Locations

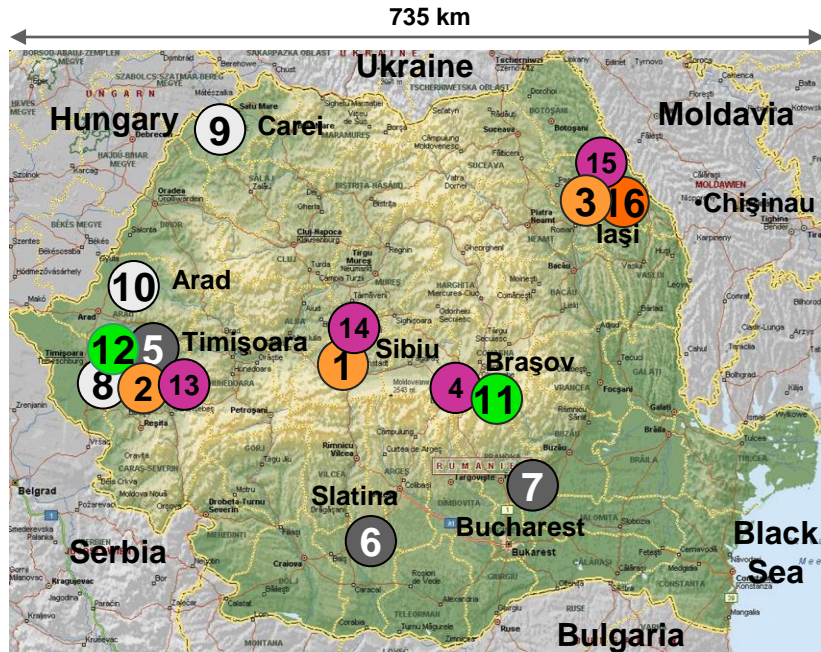
1,8 billion €

Investments

*Status: Dec. 31, 2019

Continental Corporation in Romania

January 1, 2020



- > 10 legal entities in 16 locations
- > Total employees: about 20.000
- > Total Investment: about 1.8 billions Euro

Automotive

- 1 Engineering Center & Electronic Manufacturing
- 2 Timisoara, former SV Engineering Center & Electronic Manufacturing
- 3 Iasi, former SV Engineering Center

Tires

- 5 Timisoara Division – Passenger and Light Truck Tires, Replacement and OE
- 6 Slatina – Joint Venture Continental & Bekaert Production: Steelcord (sold in March!)
- 7 Bucuresti - Tire Distribution Center

ContiTech

- 8 Timisoara PTG: transmission belts
Mobile Fluid Systems– Air Conditioning Lines, Power Steering & Hydraulic Lines
- 9 Carei – Mobile Fluid Systems
Products: Air Induction Systems & Heating/ Cooling Systems (Rubber)
- 10 Nadab - Mobile Fluid Systems
Products: Air Induction Systems (silicone)

Elektrobit

- 11 Brasov Engineering Center
- 12 Timisoara Engineering Center
- 4 Brasov Electromechanical Manufacturing
- 13 Timisoara Engineering Center
- 14 Sibiu Engineering Center
- 15 Iasi Engineering Center

JV Osram Continental

- 16 Iasi Osram - Continental

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SIBIU

EUROPEAN CAPITAL OF
CULTURE 2007

Sibiu is an important economic hub for Romania, with a high rate of foreign investments. It is also an important hub for the manufacturing of automotive components and houses factories.

Population
147,245



Students
> 23,000





AREA
218.063 m²



EMPLOYEES
4000



VOLUME
41.1 Mio. Units

*Status: Dec. 31, 2018

History Continental Sibiu

NOW 2021

Challenges Ahead



2020

CONTINUOUS DEVELOPMENT

- Becoming an extended location of ULBS University
- Inauguration of the New Technical Training Center
- #1 Most Desired Employer from Romania for two years in a row



2019

FURTHER EXPANSION

- Inauguration of Module 6
- 15 Years Anniversary
- Inauguration of the 3rd R&D Building



2008

GROWTH

- 1st direct shipment
- 15th Mio unit produced
- 1000 employees on Board



2014

10 YEARS ANNIVERSARY

- Start Construction R&D2
- Building Release M5
- 10 years Anniversary
- Move in R&D2



2018

FURTHER GROWTH

- ≈ 4500 employees
- M6 and R&D 3 Start Constructions
- ≈ 1000 engineers in our R&D center

2004

MOVE IN

- Move In Module 1
- 1st SOP with 1 shift
- Opening Engineering Center

2003

STARTUP

- Planning building execution
- Hiring first employees



2012

EXPANSION I

- Move In Modul 4
- Move In Canteen
- 2000 employees on board
- 50th Mio unit produced

2015

EXPANSION II

- Move In Module 5
- Opening Kindergarten
- 3000 employees on board
- Opening ALD & Garage



Continental Sibiu

Layout 2020



Continental Sibiu

Layout 2020



Continental Sibiu

Our Focus Factories & Product Portfolio



Advanced Driver Assistance Systems

- › Surround View Camera
 - › Multi Function Camera
 - › Optic-Module
 - › Surround View Unit
 - › Assisted & Automated Driving Control Unit
-

Connected Car Networking Commercial Vehicles and Services

- › Wireless Module Charger
 - › Body & Rear Body Controller
 - › Front & Interior Lights Control
 - › Ignition Switch
 - › Door & Seat Control
 - › Antenna Modules
 - › Trunk Movement
 - › Near Field Communication
 - › Remote Access
-

Contract Manufacturing

- › Double Clutch Transmission DQ 200 TCU
 - › MPS 6 TCM
 - › DB35
-
-

Continental Sibiu

Products in Serial Production – Connected Car Networking (Examples)



BMW SSG



Audi BCM



MFA2 BCU

Continental Sibiu

Products in Serial Production - Contract Manufacturing (Examples)



DQ 200 TCU



MPS 6 TCMA



RENAULT



DB 35



RENAULT

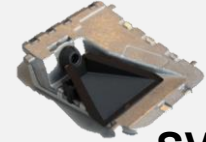


Continental Sibiu

Products in Serial Production - Advanced Driver Assistance Systems (Examples)



MFC4xx



SVU220



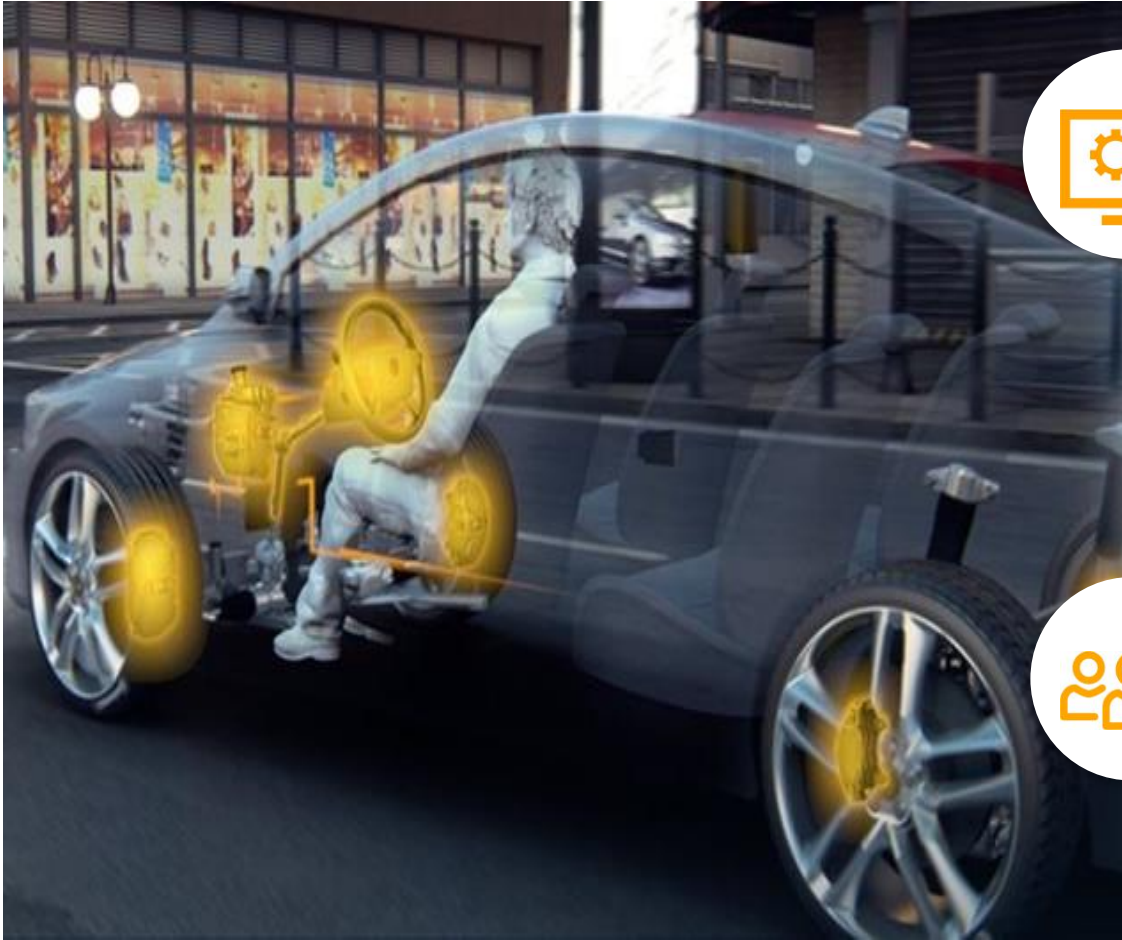
SVC2xx



ADC424CR10

Continental in Sibiu

Research & Development Center



Competences:

System Engineering, Software Development, Hardware Development, Validation, Vehicle Testing, Mechanical Design, Simulation, Quality Assurance, Customer Project Management, Sales, Advanced Purchasing, Product Launch Management.



No. of employees:

~1350

Continental Sibiu

R&D Sibiu - Our Business Units & Product Portfolio



Vehicle Dynamics & Passive Safety & Sensorics

- › Electronic Brake Systems
- › Regenerative Brake Systems
- › Air Suspension Systems
- › Motorcycle – Electronic Brake Systems
- › Electronic Damping Systems
- › eSound Generator
- › Electronic Vacuum Pump



Advanced Driver Assistance Systems

- › Short and Long Range Radar Systems
- › Mono and Multi view camera systems
- › Short Range Lidar and High Frequency Resolution Lidar



Vehicle Networking & Information Central Engineering

- › Body High Performance Computers
- › Body control modules
- › Access control systems
- › Power closures
- › Door control units
- › Intelligent glass control
- › Seat comfort systems
- › Gateways
- › Intelligent Antenna Modules

Continental Sibiu

R&D Sibiu – Technology Competence

AMS ADAS

Quality

- System QA
- SW QA
- MD/HW QA
- SPICE assessor

HW Development

- Circuit module design
- ECU housing component development
- Component model dev.
- Customer requirements
- Validation of integrated circuitry
- Layout design

SW Development

- High level SW development
- Basic SW development (AUTOSAR)
- SW Architecture development
- PC Software and tools
- Production SW

VNI CE

Project Management

- PM responsibility
- Technical project leading
- Launch Project Management

AMS VED

ReDesign to Cost

Simulation

- Structural Mechanics Simulation
- Electromagnetic Simulation
- Thermal Simulation
- Modal Analyses
- Statistical Simulation

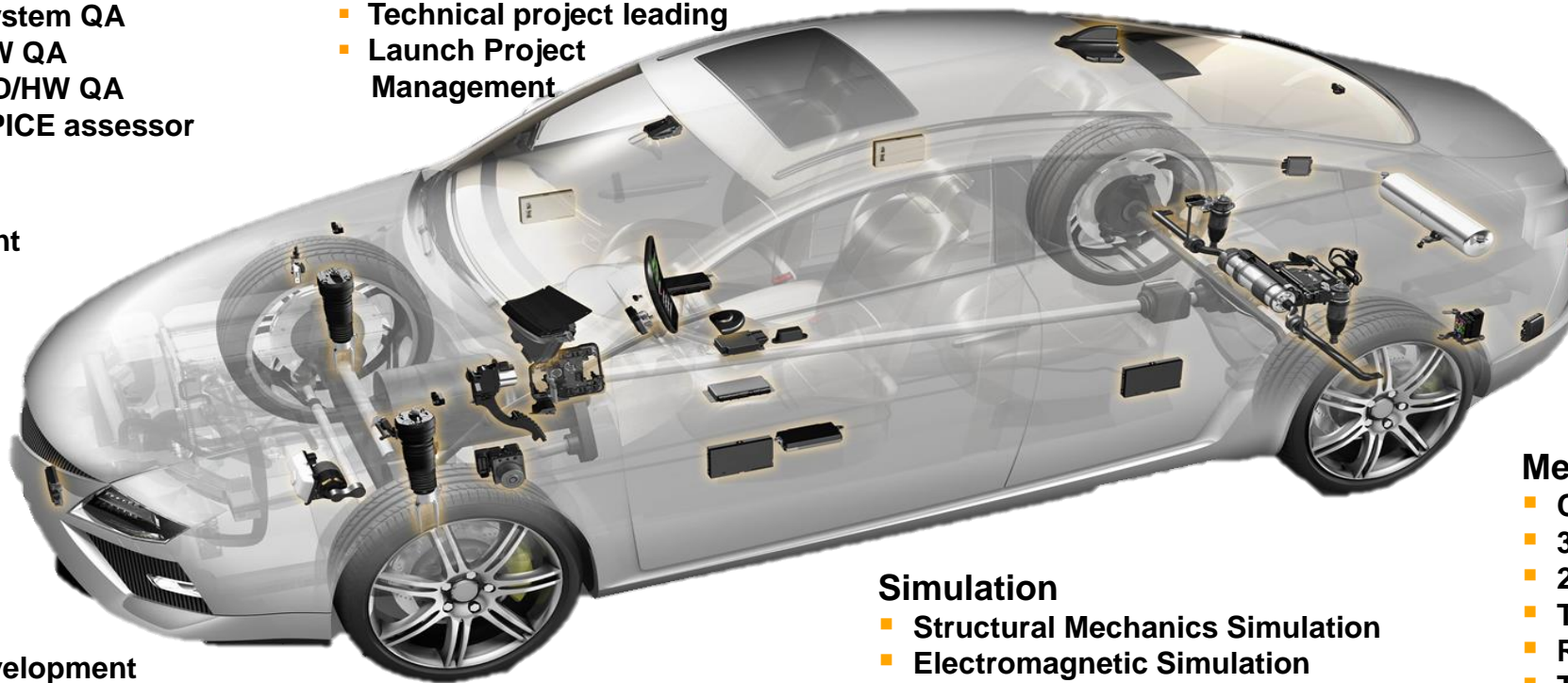
AMS PSS

System and SW Test

- Fully automated testing
- Manual testing
- System PV DV
- Test strategy definition
- L1 System Testing
- Vehicle Testing

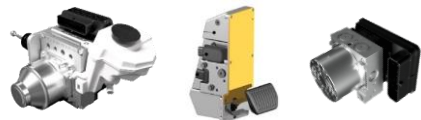
Mechanical Design

- Concept design
- 3D modeling
- 2D drawing
- Tolerance calculation
- Recycling passport
- Technical animation



Business Unit Vehicle Dynamics (VED) Our Range of Products (Portfolio)

Electronic Brake Systems (EBS) Passenger Car



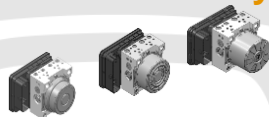
Electronic Brake Systems (EBS) Motorcycle



Electronic Suspension Systems (ESS)



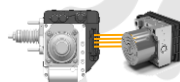
Conventional Brake Systems



Brake By Wire Systems



HAD Brake Systems



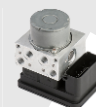
Vehicle Functions



MiniMAB



MK 100 MAB



MK 100 MIB EVO



Air Springs and Air Struts (damper included)



CAirS (and reservoirs)



CCU & Height/Acceleration

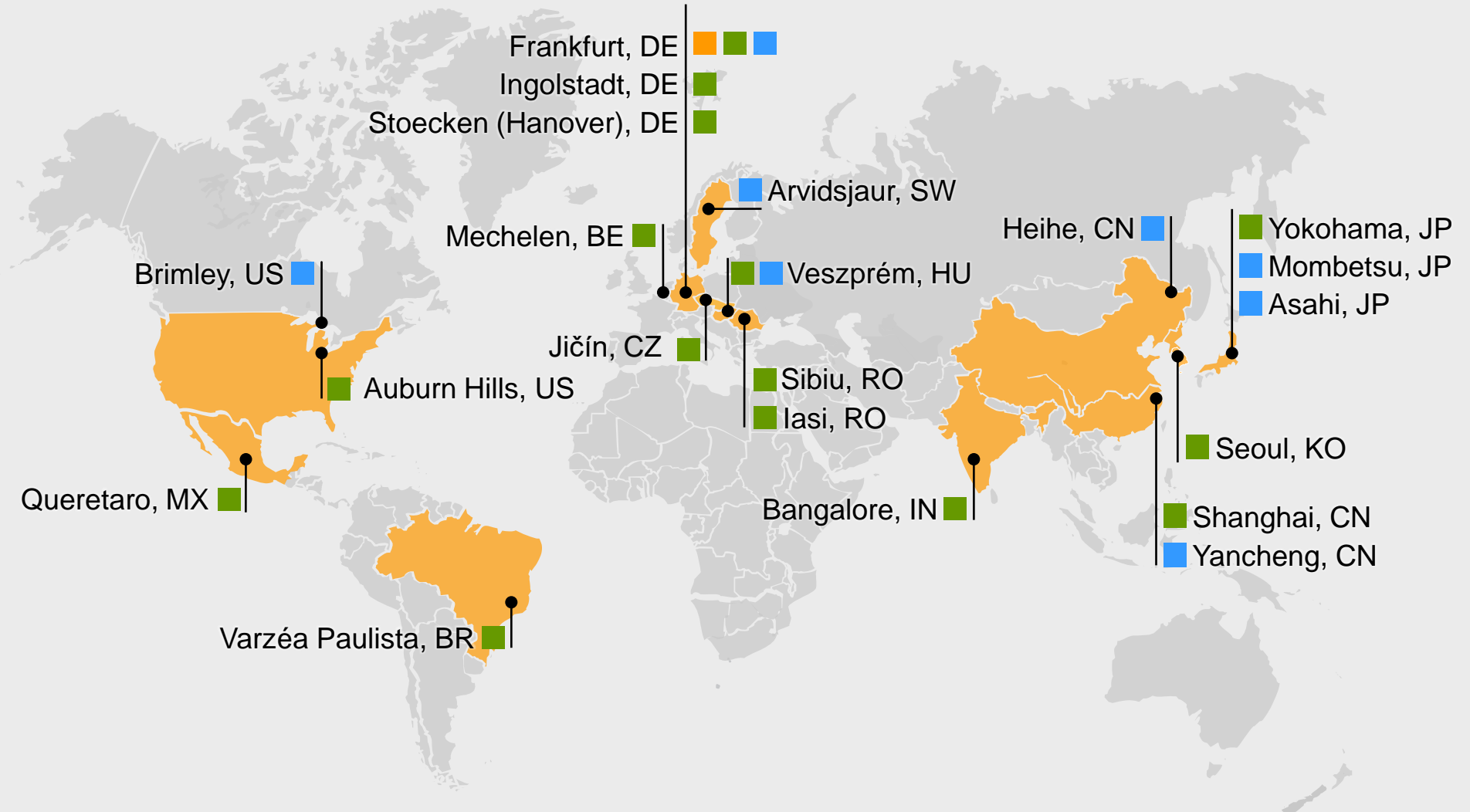


System Integration



Business Unit Vehicle Dynamics (VED)

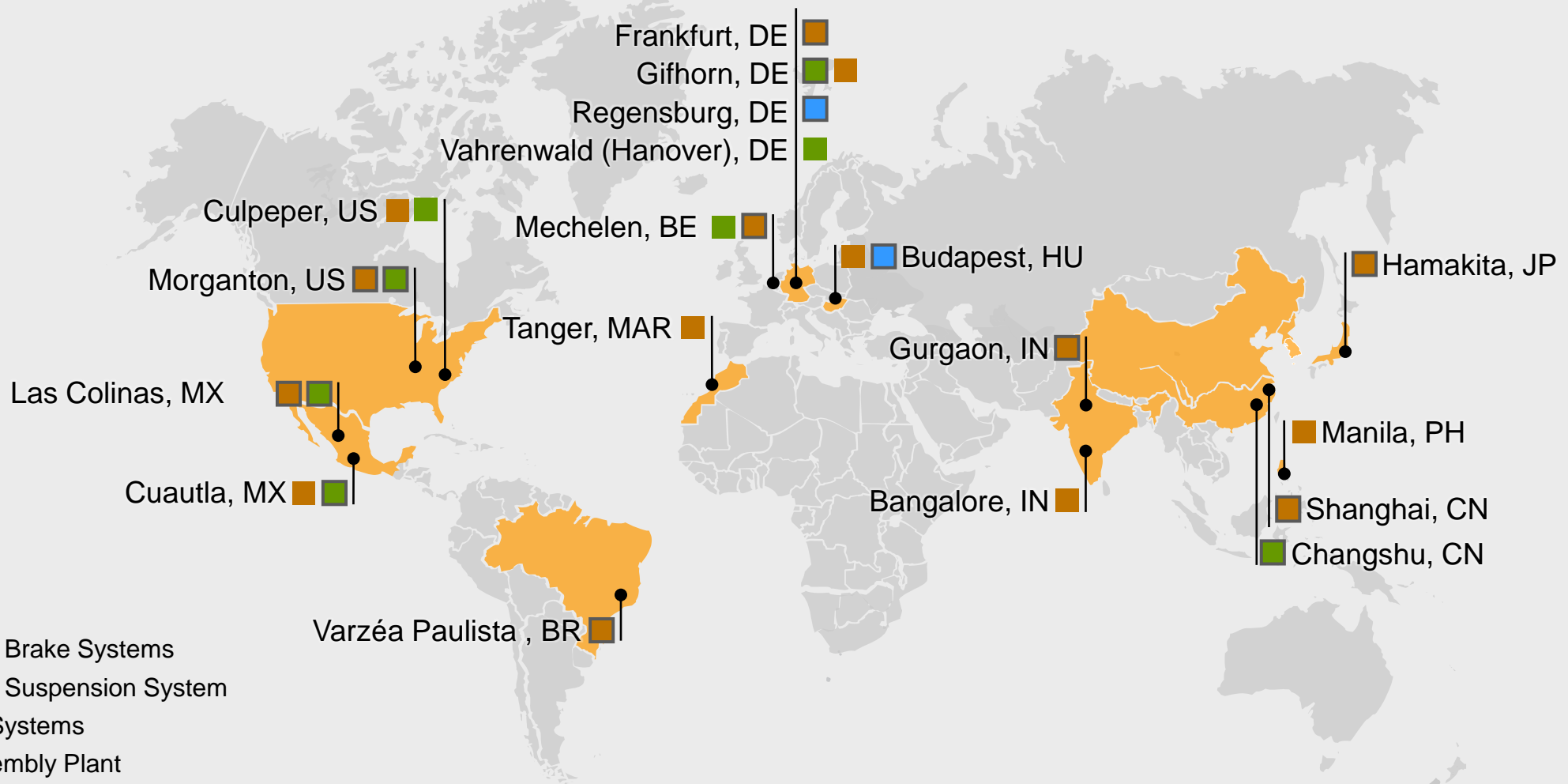
VED Global R&D Footprint



- Headquarters
- Engineering Hub
- Vehicle Test Track

Business Unit Vehicle Dynamics (VED)

VED Global Manufacturing Footprint



Public

Business Unit Vehicle Dynamics (VED) Our History

17 Years of
By-Wire-Braking
Experiences

37 Years Production of Electronic Brake Systems for Passenger Cars

1984 ▶ 1989 ▶ 1995 ▶ 2000 ▶ 2004 ▶ 2008 ▶ 2011 ▶ 2013 ▶ 2016 ▶ 2019 ▶ 2022 ▶ 2023

MK II MK IV MK 20 MK 60 EHB MK xxE RBS MK 100 EHCB/EMB8 MK C1 MK C1 EVO MK C2 MK 120



25 Years Productions of Electronic Suspension Systems

1996 2005 2018 2020

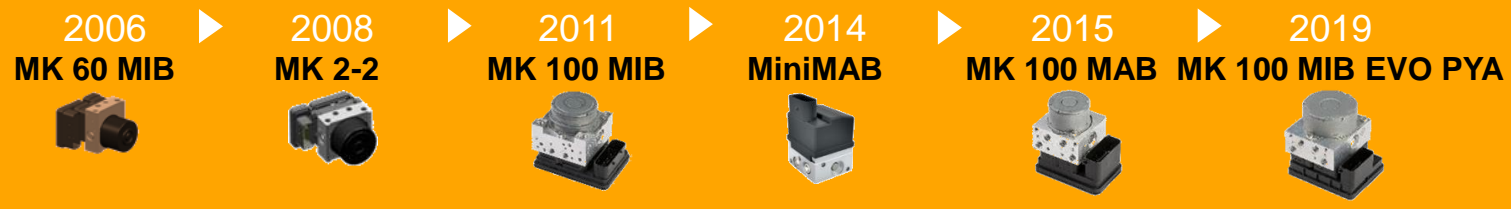
Air Springs & Air Struts Compressor CK2.1 CAirS (closed-loop) CAirS (open-loop)



15 Years Production of Electronic Brake Systems for Motorcycles

2006 ▶ 2008 ▶ 2011 ▶ 2014 ▶ 2015 ▶ 2019

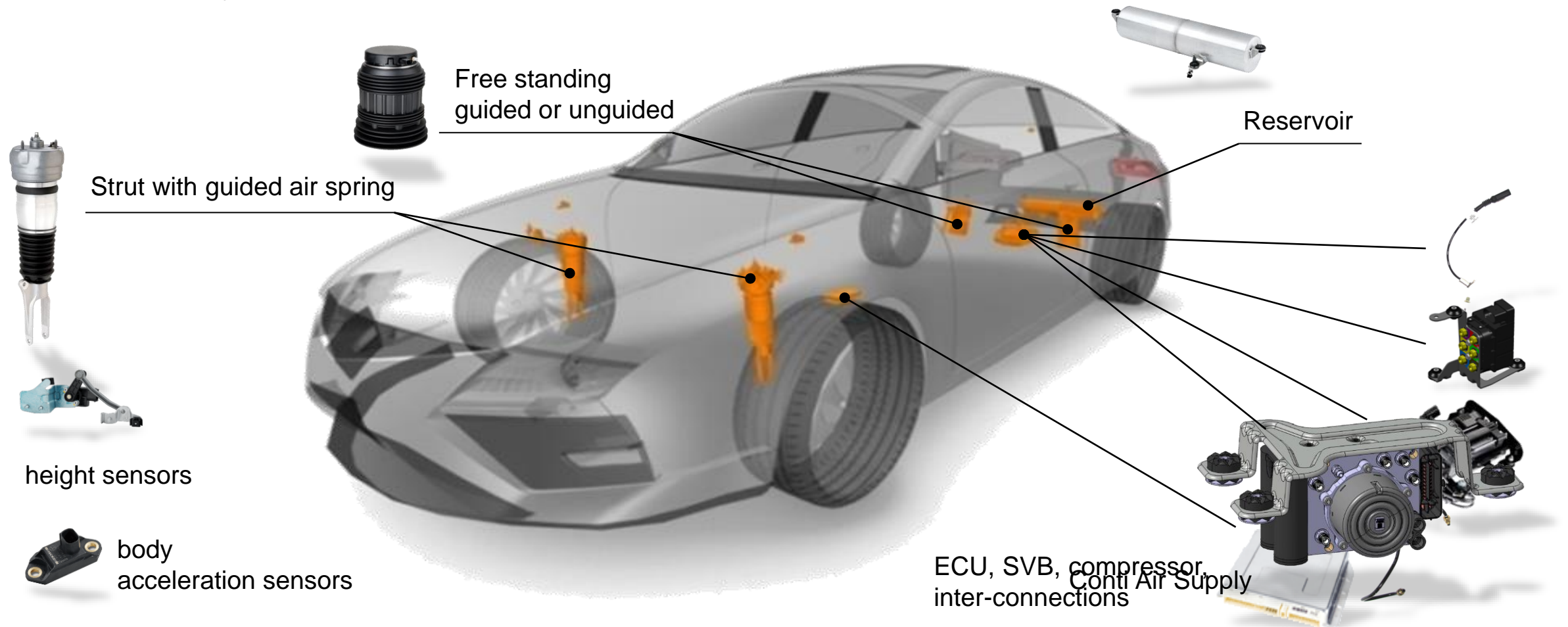
MK 60 MIB MK 2-2 MK 100 MIB MiniMAB MK 100 MAB MK 100 MIB EVO PYA



Public

Electronic Air Suspension

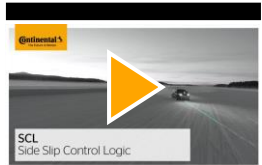
Standard System Overview



Additional Material

Useful Links

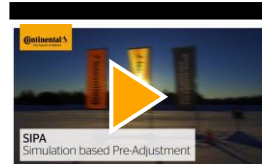
Motion Management | Software Integration



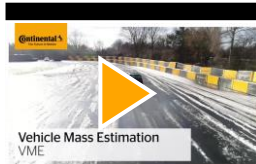
Sideslip Control Logic (SCL)



Preview ESC



Simulation-based Pre-Adjustment (SIPA)



Vehicle Mass Estimation (VME)



Cross Wind Compensation (CWC)



CES Driver Assist



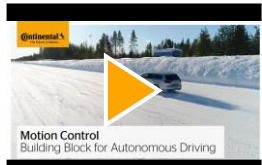
Cube / Driverless Mobility



Truck Autonomous Driving



Urban Autonomous Driving



Motion Control



CNXMotion | Motion Control Management Functions

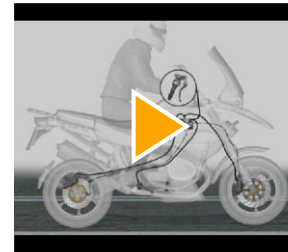


CNXMotion | Brake to steer (BtS)



CNXMotion | Fallback Levels for Automated Driving

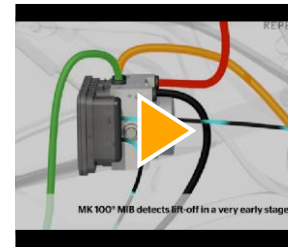
Electronic Brake Functions for Motorcycles



Integral Brake System and Optimized Curve Braking



Anti-Lock Brake Systems



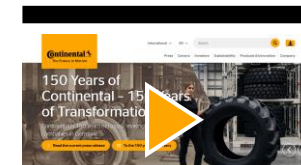
Rear-Wheel Lift-Off Protection

Electronic Suspension Systems

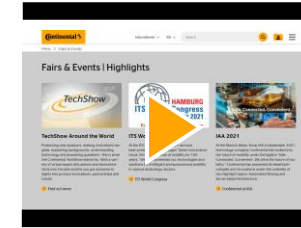


What makes the difference...

Media Links



Press Portal (Press Releases)



Fairs & Events (Official Material)

Additional Material

Useful Links

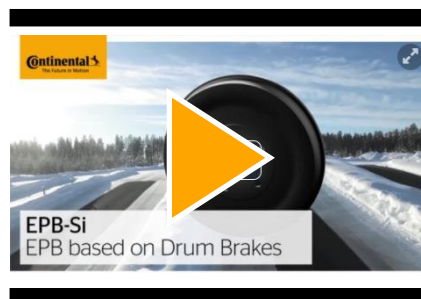
Winter Presentation 2021



150 Years Continental



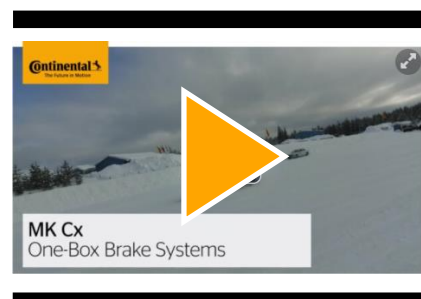
Winter Presentation 2021 Intro



EPB-Si



ePedal



MK Cx

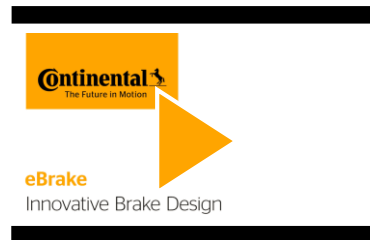
Evolution of Brake Controls to Motion Systems



Continental Future Brake Systems VED



Future Brake Systems (FBS) The Continental Roadmap



eBrake Innovative Brake Design

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in Sibiu

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Our Employees *#peopleofcontinental*

30 Employees



2003

≈ 4.500 Employees



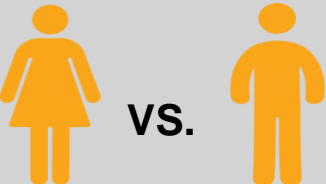
2019

≈ 5.000 Employees



2023

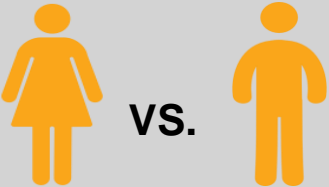
≈ 4.500 Employees



38%

62%

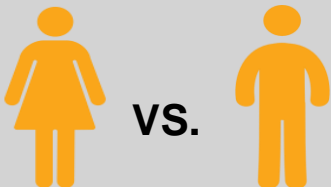
1.770 Engineers



31%

69%

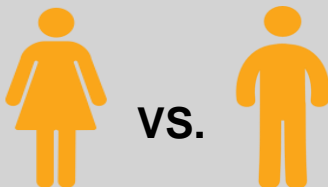
430 Technicians



16%

84%

375 Leaders



31%

69%

32 years

Average age
of our employees



Plant

White collars 1.010
Blue collars 2.140



R&D

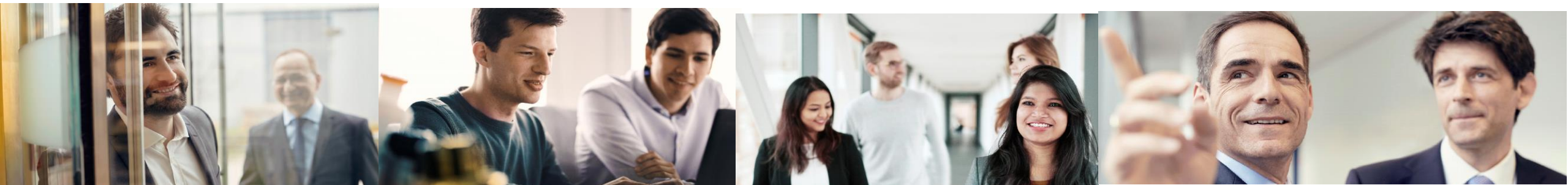
White collars 1.350

*Status: Dec 31, 2018. No. of Labor Contracts

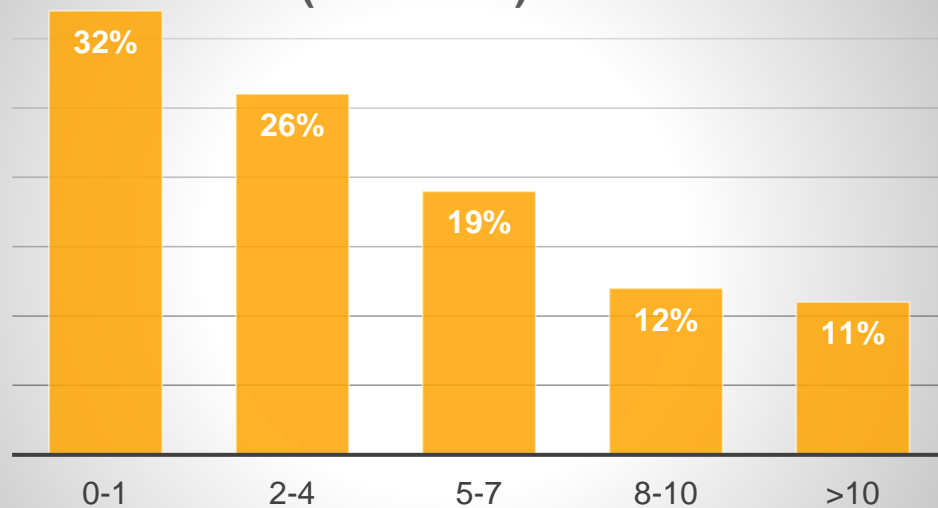
Continental Sibiu

Our Employees

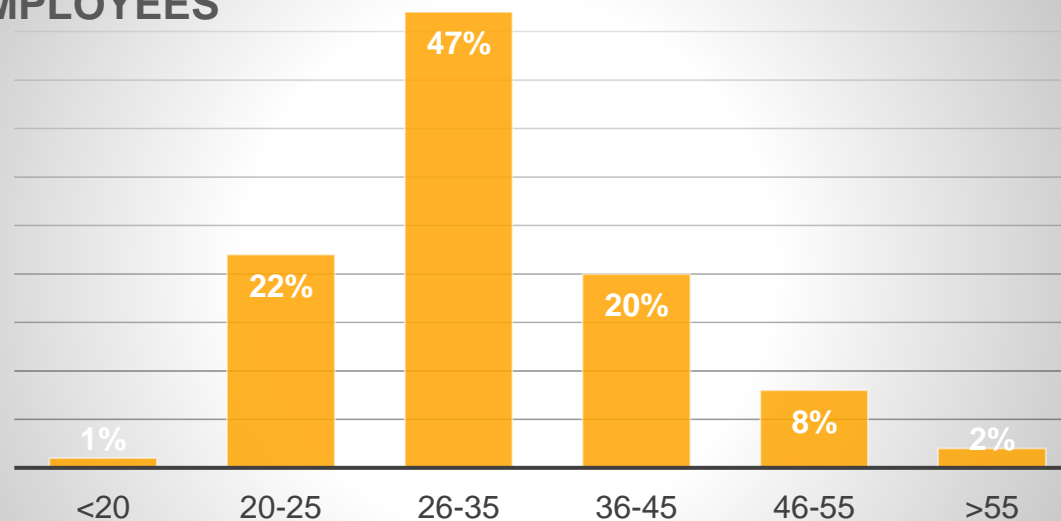
*Status: Dec. 31, 2018



EMPLOYEES EXPERIENCE IN CONTINENTAL (IN YEARS)

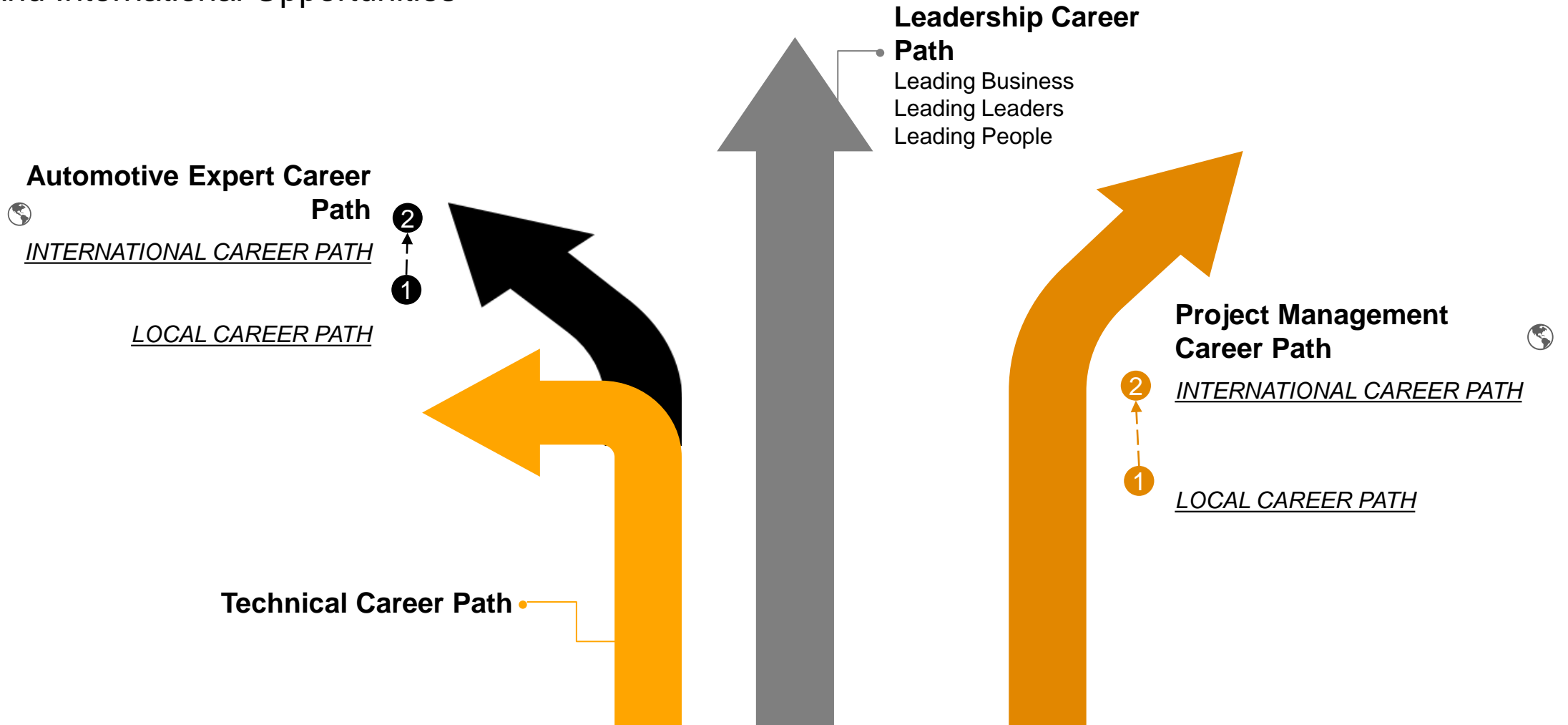


AGE DISTRIBUTION OF CONTINENTAL EMPLOYEES



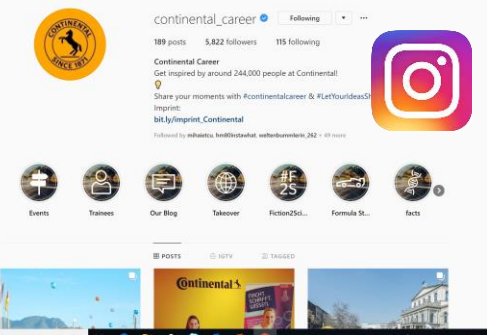
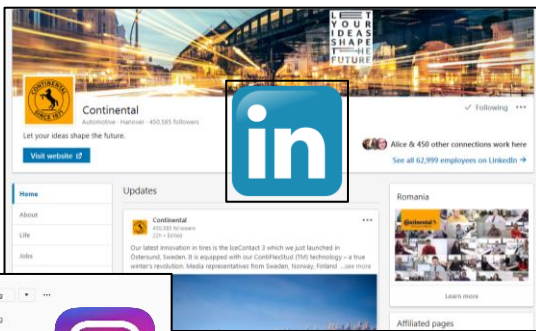
Continental Sibiu

Career Pathways to Success for Variable Employees
Local and International Opportunities





Social Media



Continental Career
2,009 subscribers

SUBSCRIBE

HOME VIDEOS PLAYLISTS COMMUNITY CHANNELS ABOUT



Discover Continental Sibiu
Continental Career • 3.4K views • 2 months ago
A closer look at Continental Sibiu to see how we work together in a perfect balance between life and job. Find your job of interest here: <http://www.continental-jobs.com/> Continental Social Medi...



A tour through the Continental Kindergarten in Sibiu (Romania)
Continental Career • 4K views • 3 years ago
Join our tour through the newly built (September 2015) kindergarten in Sibiu (Romania).



Continental Automotive Systems Sibiu - R&D Movie
Continental Career • 17K views • 3 years ago
Find out more about our Research and Development Activities in Sibiu: Business Units, technologies and projects.



University & Recruiting



Collaboration with 8 Universities



Employees' Universities Distribution

Lucian Blaga University - Sibiu	57%
Craiova University	7,2%
Technical University - Cluj Napoca	4,2%
Polytechnic University - Bucuresti	3%
Babeş-Bolyai University – Cluj Napoca	2,3%
Transylvania University – Braşov	2,3%
Polytechnic University – Timișoara	2,3%
Pitesti University	2,01%
Petru Maior University – Tg. Mureş	1,25%
1 Decembrie 1918 University – Alba Iulia	1,15%
Dunărea de Jos University – Galaţi	1,15%
Others	16%

Technical Conferences Ambassadors Program Technical Competitions

Research Projects Conti Courses Job Fairs





Events for employees and their children



Charity Campaigns



#peopleofcontinental



Internal sport competitions



Sponsoring Sport Events from the city



Our Benefits

Continental Kindergarten



Business Model

- 140 places – Nursery & Kindergarten
 - Addresses employees children exclusively
 - External supplier - Certified by the Ministry of Edu.
 - Company covers part of the monthly subscription
-
- NEW Projects into place: upgraded playground, health insurance protection, new fence



INVESTMENT

Over 1 Million Euro



EDUCATION

7 classrooms, medical room, sports room, dining room

Our Benefits

Restaurant and Coffee Corner



Global supplier
of restaurant services

Menu variety
Live Cooking
standard & premium

**Vending Machines
Online & Cash
Account Uploads**

**>2100 meals
per day**

Happy Hour
>discount on dedicated
timeframe

**Online Satisfaction
Survey**

> 300.000€
in new equipment

> 1 billion €
building investment

This is Continental

Field of Work



Continental is all about curiosity, innovation and keeping the future in motion.

[Find out more](#)

Mobile Work



Our employees have the chance to work remotely so they can balance their work and private lives.

[Find out more](#)

Flexible Time Models



Part-time and flexi-time hours create a structure that helps employees balance work, family and free time.

[Find out more](#)

Sabbaticals



Follow dreams and enjoy new experiences. Take a time out with a sabbatical.

[Find out more](#)

Sharing Benefits



We offer a positive working environment, interesting fields of work, and an attractive performance-based pay.

[Find out more](#)

Outside the Box



We provide our employees with the tools they need to successfully tackle the challenges of today and tomorrow.

[Find out more](#)

Idea Management



The ingenuity of our employees plays a major part in safeguarding our capacity for innovation and competitiveness.

[Find out more](#)

Healthy Workplaces



We want our employees to be healthy and happy. So we offer them optimal working conditions with ergonomic workplaces.

[Find out more](#)

Thank you!