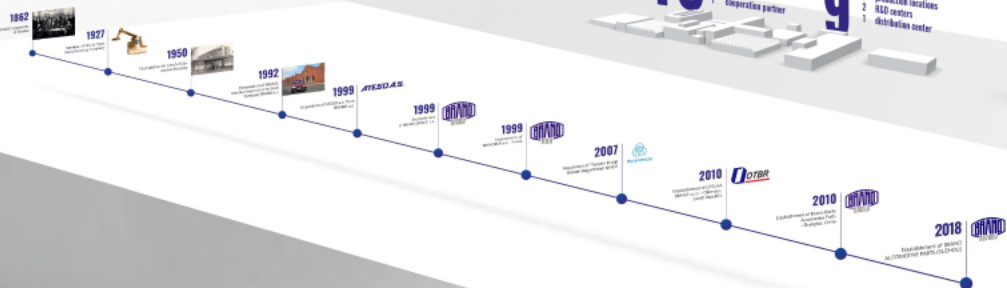


[ PARTS FOR ALL CARS ]





**160** YEARS OF HISTORY  
70 YEARS EXPERIENCE IN AUTOMOTIVE INDUSTRY





「  
160  
」

YEARS  
OF HISTORY

70 YEARS  
EXPERIENCE  
IN AUTOMOTIVE  
INDUSTRY

」

**1862**

BRANO Ironworks  
of Branka



**1927**

Member of Yale & Town  
Manufacturing Company



**1950**

First latches for Czech Auto-  
motive Industry



**1992**

Privatisation of BRANO,  
Establishment of Joint Stock  
Company BRANO a.s.



**1999**

Acquisition of ATESO a.s. from  
BRANO a.s.



**1999**

**ATESO A.S.**

Acquisition of ATESO a.s. from BRANO a.s.

**1999**

Establishment of BRANO GROUP, a.s.



**1999**

Establishment of BRANOROS a.o. – Russia



**2007**

Acquisition of Thyssen Krupp Bilstein Wagenheber GmbH



Estab  
BRA

**2010**

Establishment of OTSUKA  
BRANO s.r.o. – Olomouc,  
Czech Republic



**2010**

Establishment of Brano-Baolu  
Automotive Parts  
– Shanghai, China



**2018**

Establishment of BRANO  
AUTOMOTIVE PARTS (SUZHOU)



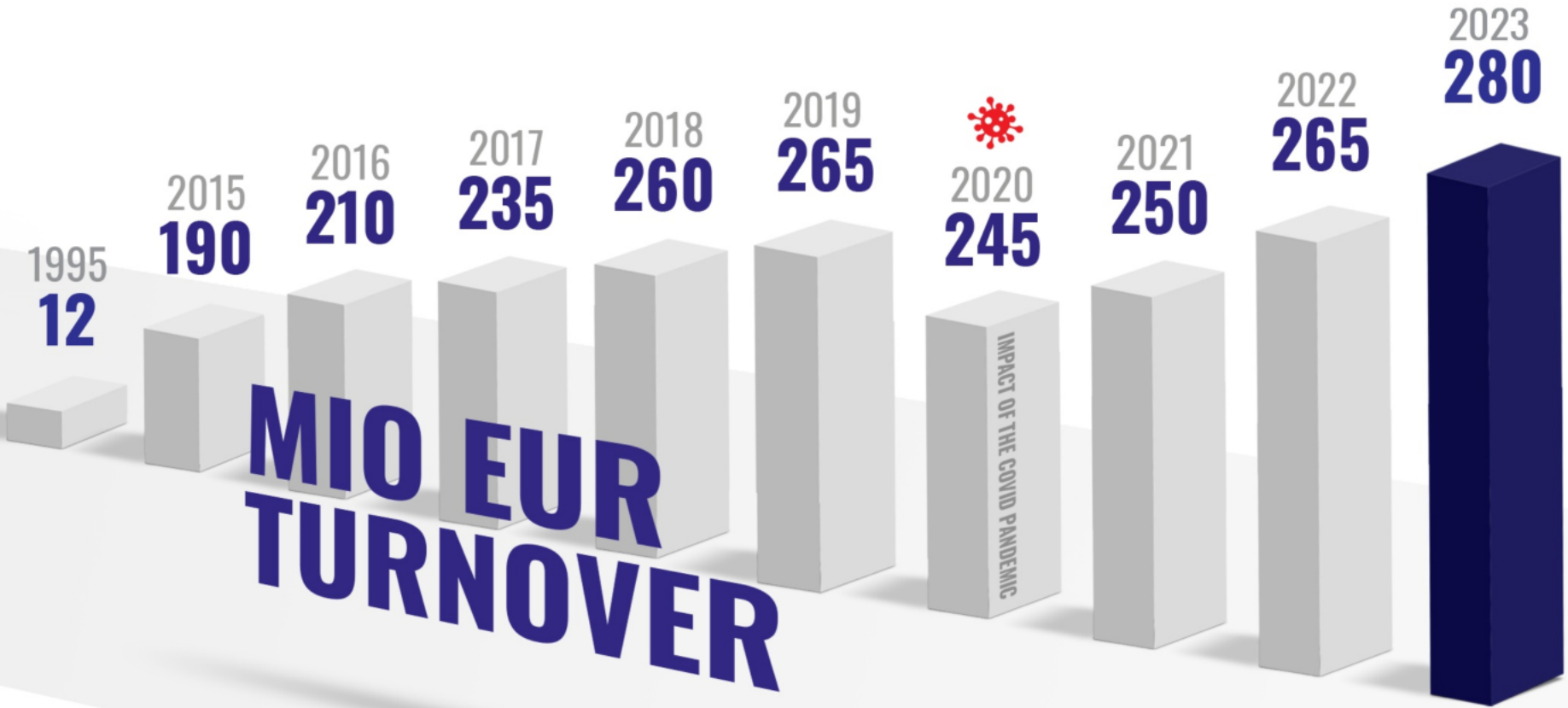
over

2300

employees







# FACILITIES

WORLDWIDE

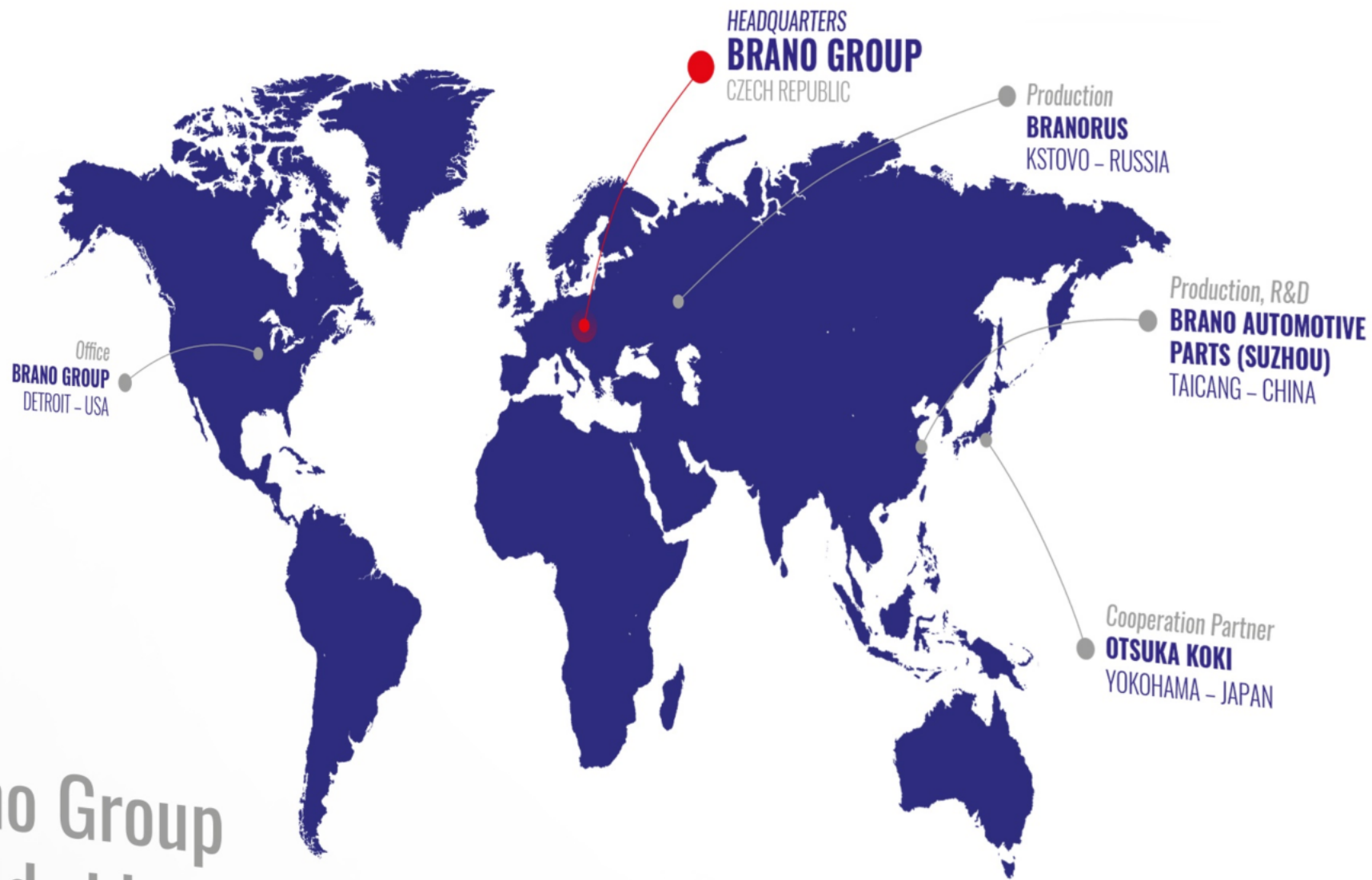
13

- 11 production locations
- 3 R&D centers
- 2 offices
- 1 cooperation partner

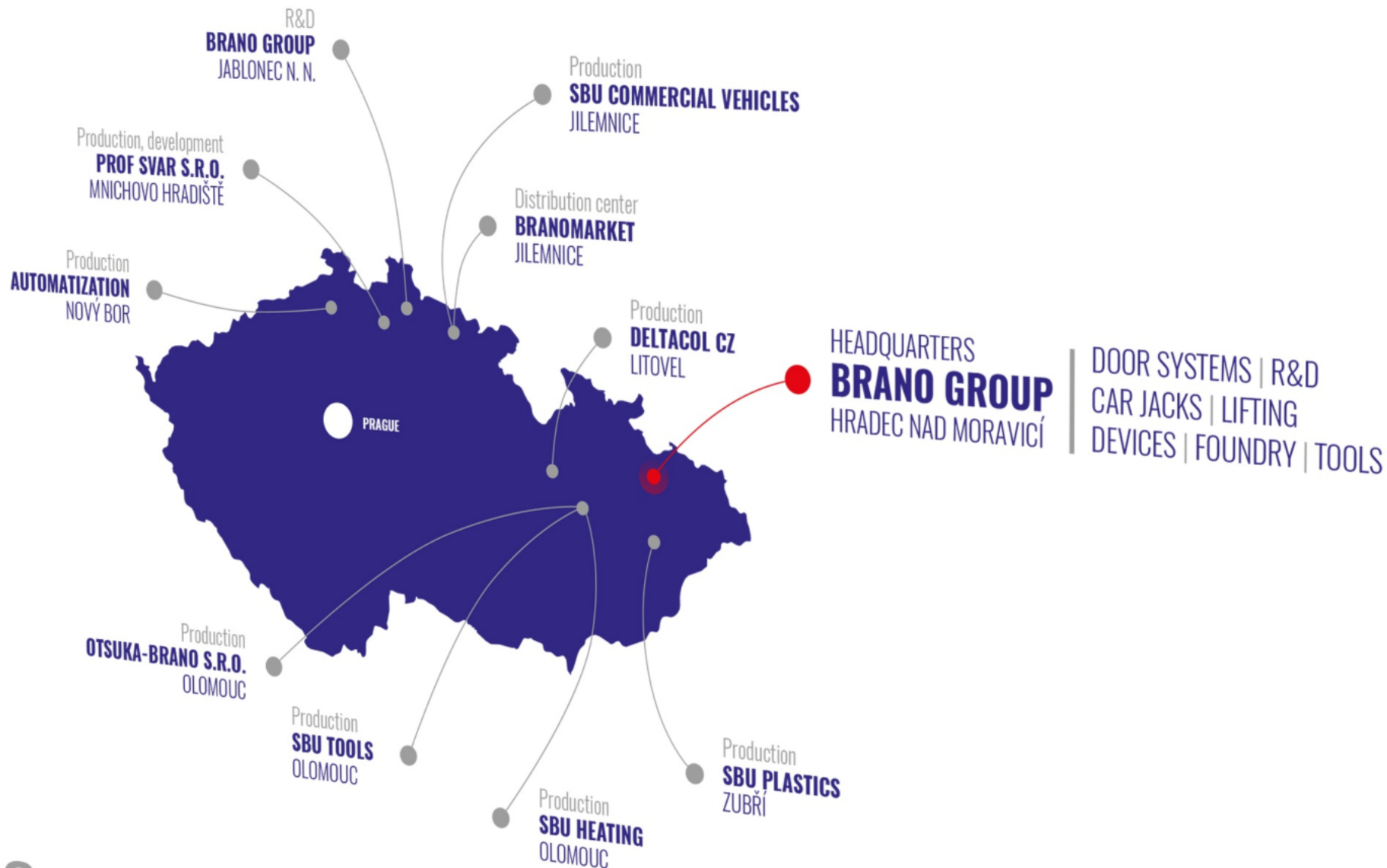
CZECH REPUBLIC

9

- 9 production locations
- 2 R&D centers
- 1 distribution center



Brano Group  
Worldwide

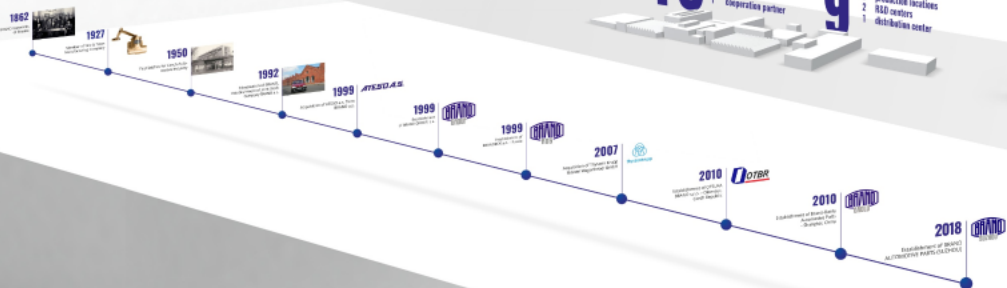


DOOR SYSTEMS | R&D  
 CAR JACKS | LIFTING  
 DEVICES | FOUNDRY | TOOLS

# Czech Republic Locations



**160** YEARS OF HISTORY  
70 YEARS EXPERIENCE IN AUTOMOTIVE INDUSTRY



[ PARTS FOR ALL CARS ]



# PASSENGERS

VEHICLES



PASSENGER  
VEHICLES

COMMERCIAL  
VEHICLES

NON  
AUTOMOTIVE



RCIAL  
S

NON  
AUTOMOTIVE

01001





RCIAL  
S  
NON  
AUTOMOTIVE

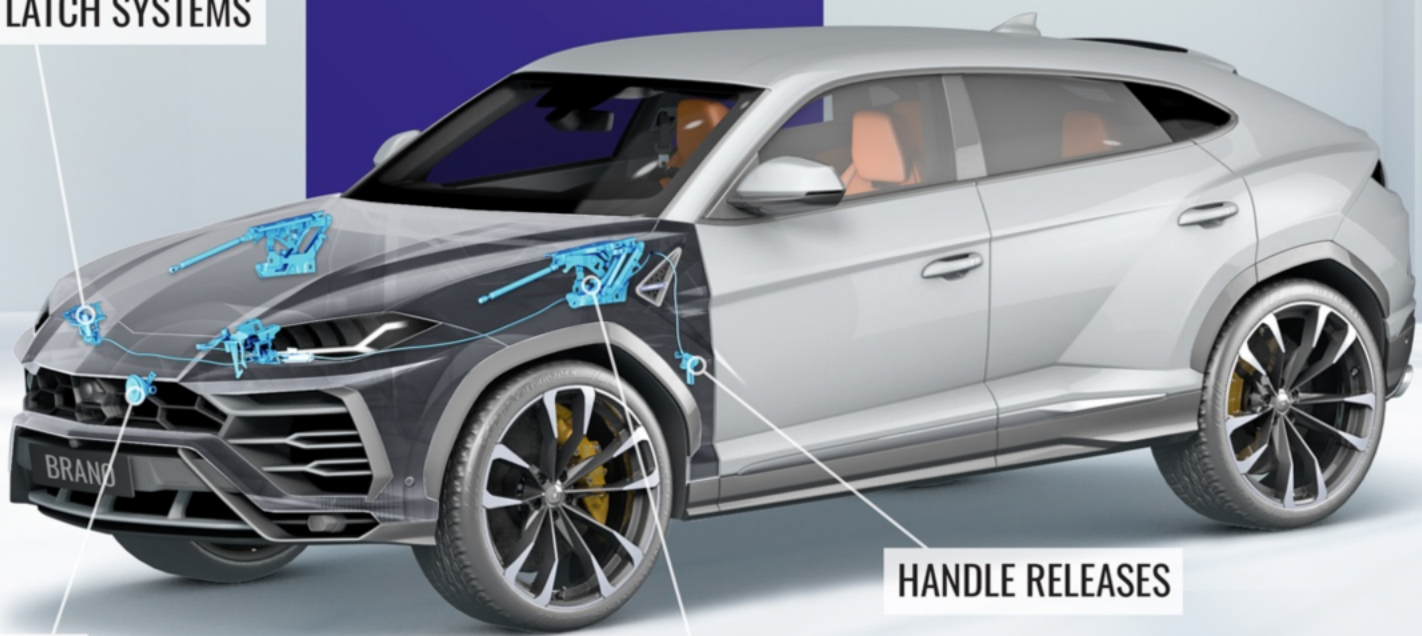


BONET LATCH SYSTEMS

HORNS

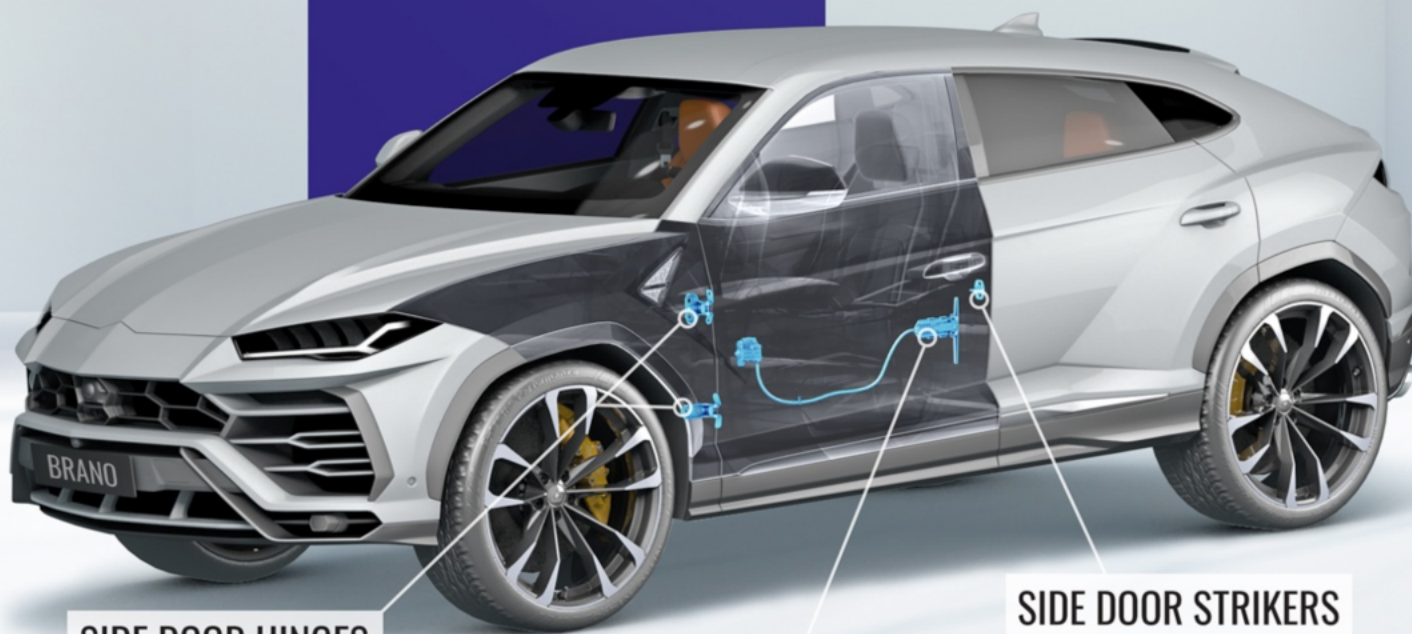
HINGES

HANDLE RELEASES



RCIAL  
S

NON  
AUTOMOTIVE



**SIDE DOOR HINGES**

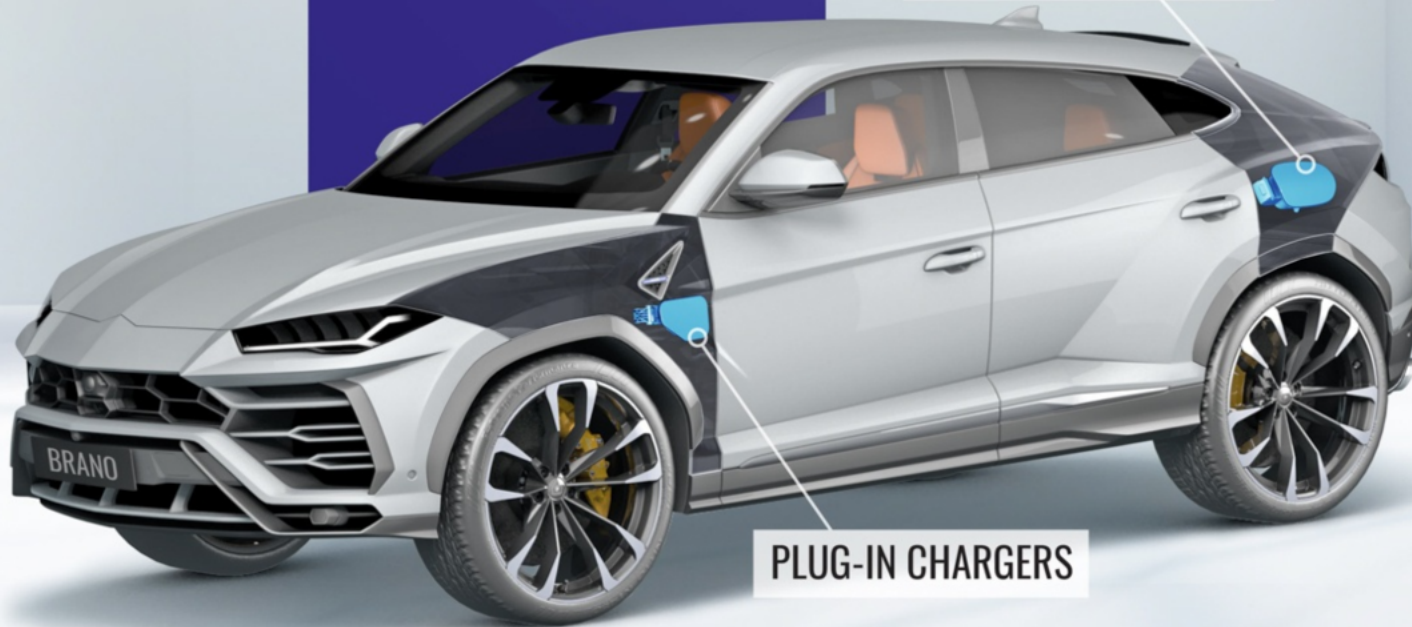
**DOOR PROTECTORS**

**SIDE DOOR STRIKERS**

RCIAL  
S

NON  
AUTOMOTIVE

01001

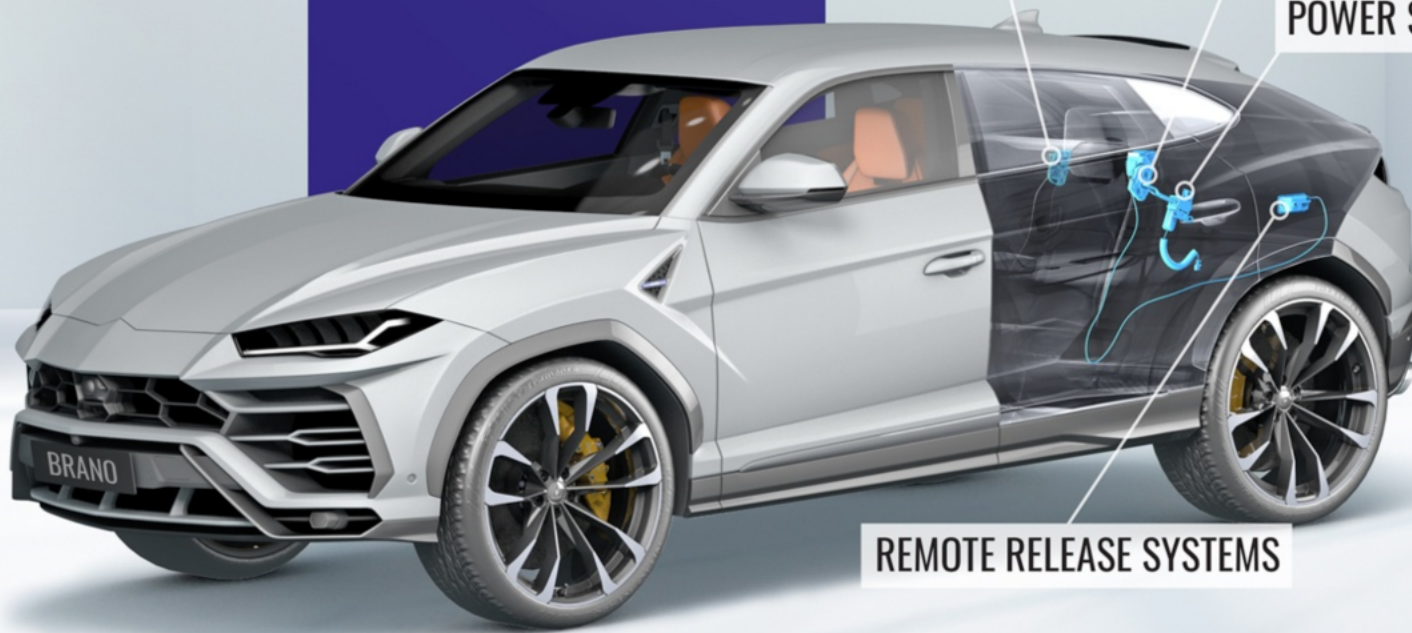


FUEL FILLER MODULES

PLUG-IN CHARGERS

RCIAL  
S

NON  
AUTOMOTIVE



SEAT LATCHES 20%

SEAT LATCHES 40%

POWER STRIKERS

REMOTE RELEASE SYSTEMS

RCIAL  
S

NON  
AUTOMOTIVE



SOFT TOUCH OPENING SYSTEMS

ACTUATORS

STRIKERS

DECKLID AND TAILGATE LATCHES

RCIAL  
S

NON  
AUTOMOTIVE

UNOOI



LOGO HANDLE SYSTEMS

PEDALS

CAR JACKS

TOW BARS

# PASSENGERS

VEHICLES



PASSENGER  
VEHICLES

COMMERCIAL  
VEHICLES

NON  
AUTOMOTIVE

LOGO HANDLE SYSTEMS



PEDALS

CAR JACKS

TOW BARS

# PASSENGERS VEHICLES

PASSENGER  
VEHICLES

COMMERCIAL  
VEHICLES

NON  
AUTOMOTIVE

BRAND  
GROUP



LOGO HANDLE SYSTEMS



PEDALS

CAR JACKS

TOW BARS

Customers



VOLVO



DAIMLER



TIPCA  
TOYOTA PEUGEOT CITROEN AUTOMOBILE



[ PARTS FOR ALL CARS ]



# COMMERCIAL VEHICLES



PASSENGER  
VEHICLES

COMMERCIAL  
VEHICLES

NON  
AUTOMOTIVE



COMMERCIAL

BRAND  
GROUP

COMMERCIAL  
VEHICLES

NON  
AUTOMOTIVE



COMMERCIAL

BRAND  
GROUP

COMMERCIAL  
VEHICLES

NON  
AUTOMOTIVE

HORNS

FRONT PANEL SYSTEMS

INDEPENDENT HEATING SYSTEMS

PEDALS

SHOCK ABSORBERS

LOCKING SYSTEMS



# COMMERCIAL VEHICLES



PASSENGER  
VEHICLES

COMMERCIAL  
VEHICLES

NON  
AUTOMOTIVE



FRONT PANEL SYSTEMS

HORNS



INDEPENDENT HEATING SYSTEMS

PEDALS

SHOCK ABSORBERS

LOCKING SYSTEMS

# COMMERCIAL VEHICLES



PASSENGER  
VEHICLES

COMMERCIAL  
VEHICLES

NON  
AUTOMOTIVE



FRONT PANEL SYSTEMS

HORNS

INDEPENDENT HEATING SYSTEMS

PEDALS

SHOCK ABSORBERS

LOCKING SYSTEMS



## Customers



[ PARTS FOR ALL CARS ]

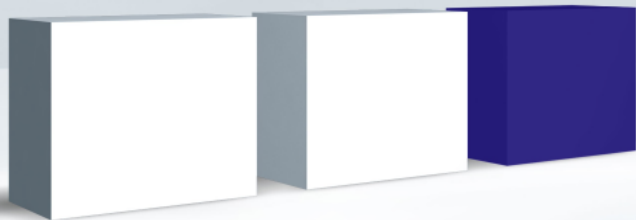


# NON AUTOMOTIVE

PASSENGER  
VEHICLES

COMMERCIAL  
VEHICLES

NON  
AUTOMOTIVE



LIFTING DEVICES



DOOR CLOSERS



HEATING



HOSPITAL





# NON AUTOMOTIVE

PASSENGER  
VEHICLES

COMMERCIAL  
VEHICLES

NON  
AUTOMOTIVE



LIFTING DEVICES



DOOR CLOSERS



HEATING



HOSPITAL



Customers



Zetor

[ PARTS FOR ALL CARS ]



# TECHNOLOGIES R&D

PASSENGER  
VEHICLES

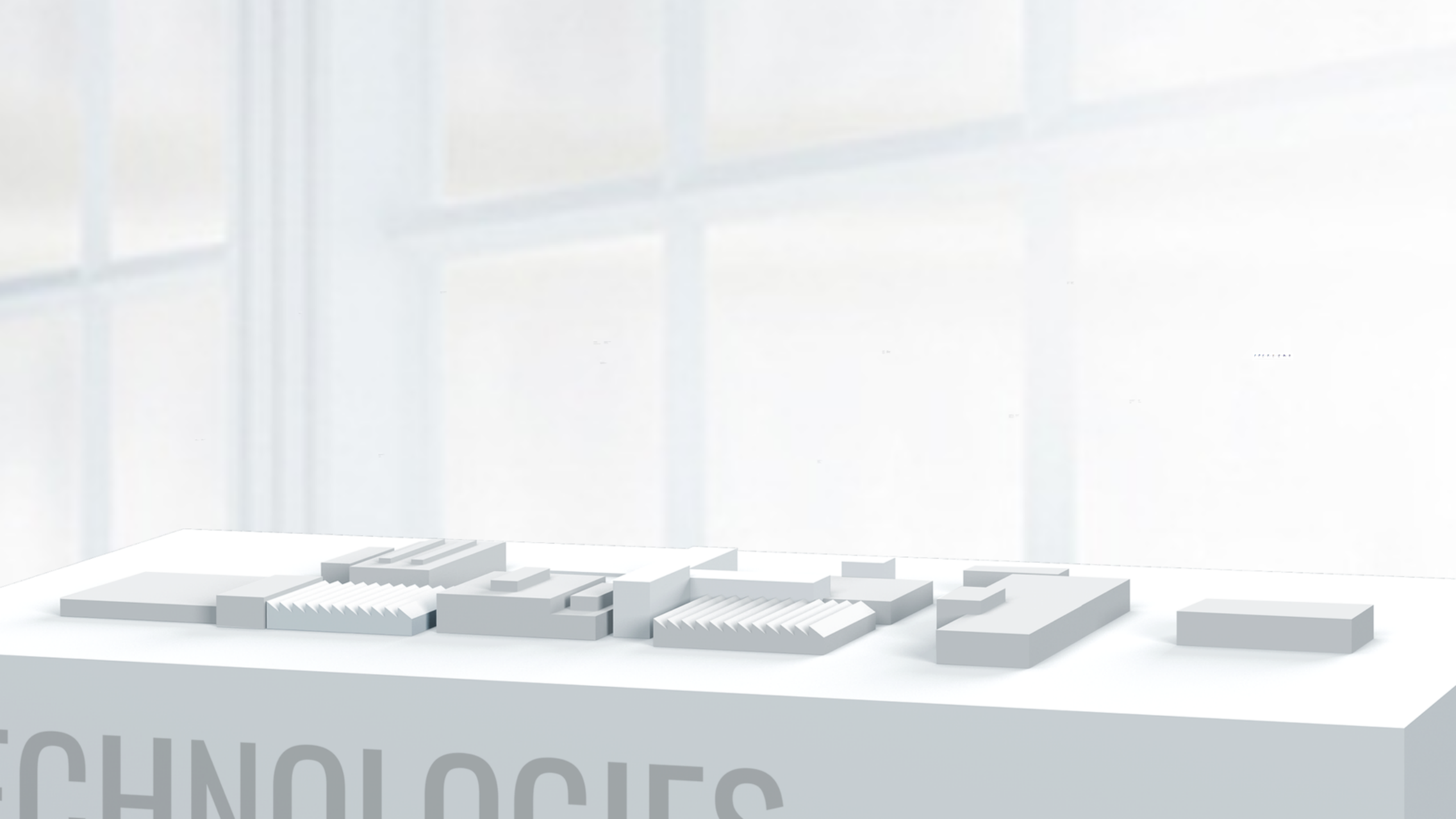
COMMERCIAL  
VEHICLES

NON  
AUTOMOTIVE

BRAND  
GROUP

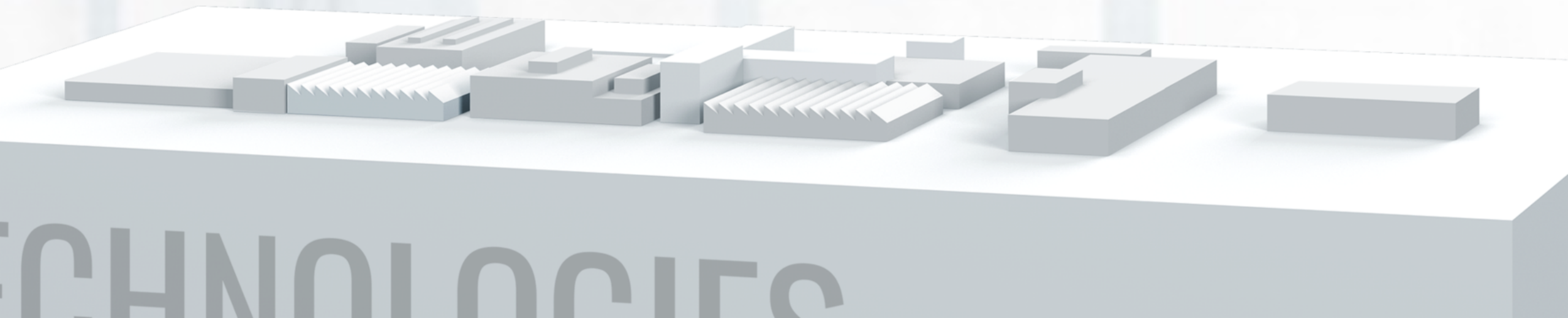


TECHNOLOGIES,  
R&D



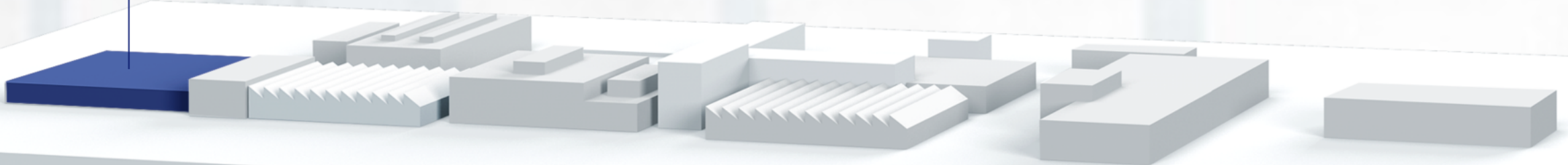
TECHNOLOGIES

**[ ALL TECHNOLOGIES IN-HOUSE ]**



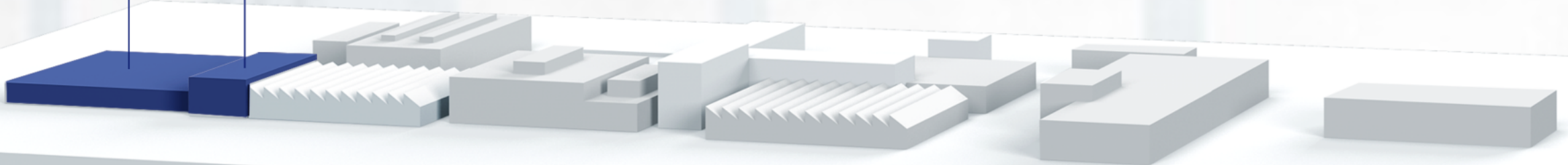
**TECHNOLOGIES**

# ALL TECHNOLOGIES IN-HOUSE



TECHNOLOGIES

# ALL TECHNOLOGIES IN-HOUSE



TECHNOLOGIES

# ALL TECHNOLOGIES IN-HOUSE



TECHNOLOGIES

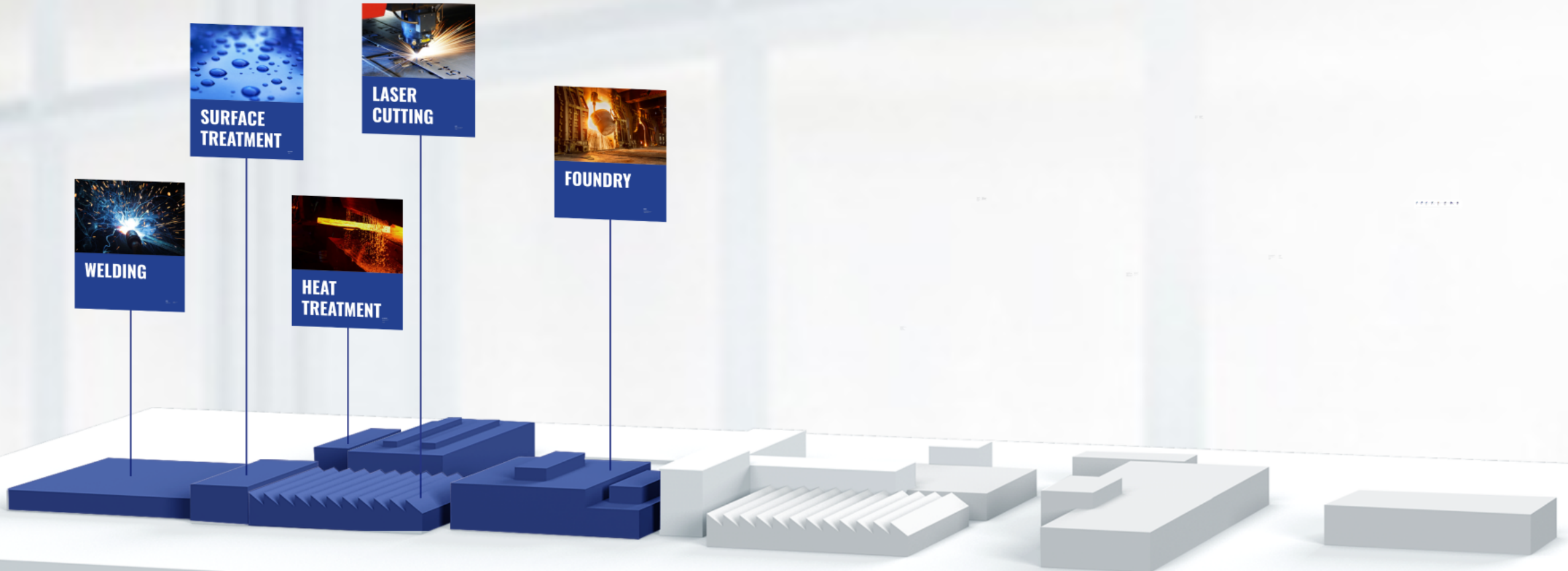


# ALL TECHNOLOGIES IN-HOUSE



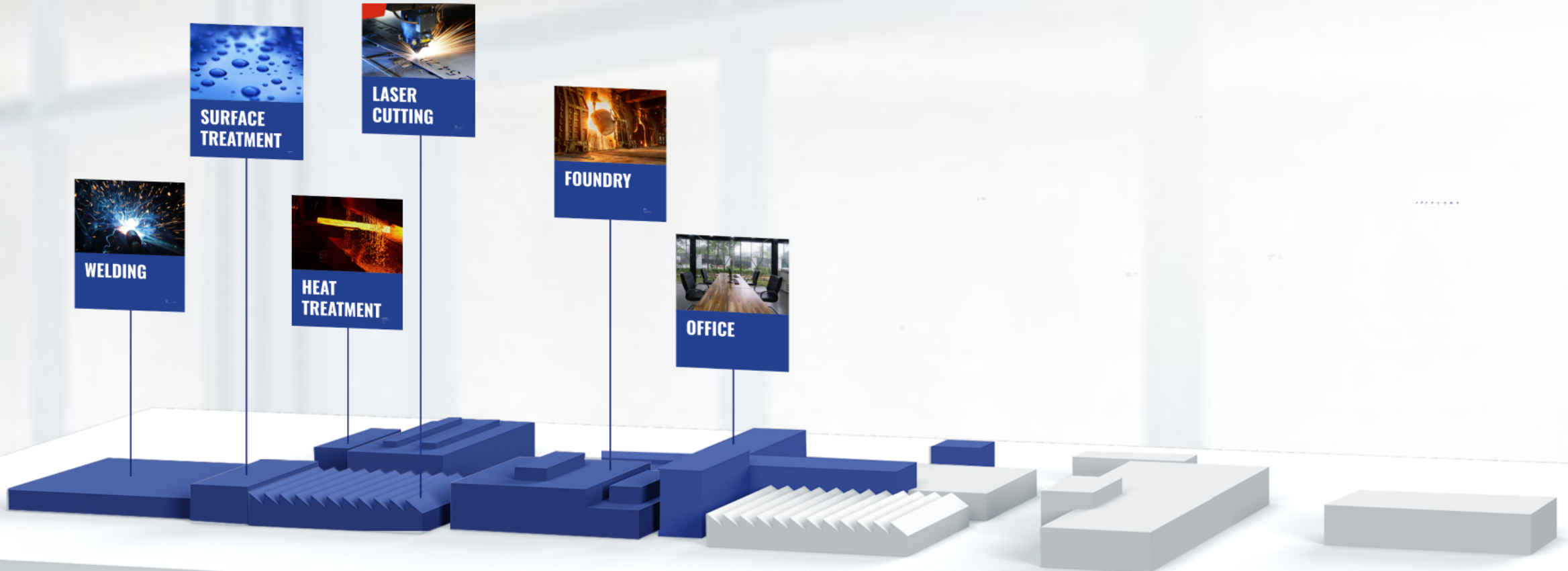
TECHNOLOGIES

# ALL TECHNOLOGIES IN-HOUSE



TECHNOLOGIES

# ALL TECHNOLOGIES IN-HOUSE



TECHNOLOGIES

# ALL TECHNOLOGIES IN-HOUSE



TECHNOLOGIES

# ALL TECHNOLOGIES IN-HOUSE



TECHNOLOGIES

# ALL TECHNOLOGIES IN-HOUSE



TECHNOLOGIES

# ALL TECHNOLOGIES IN-HOUSE



TECHNOLOGIES

# ALL TECHNOLOGIES IN-HOUSE



TECHNOLOGIES



# ALL TECHNOLOGIES IN-HOUSE



TECHNOLOGIES

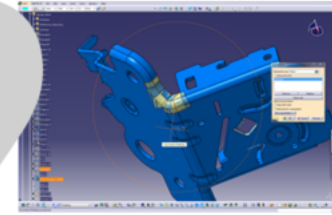
1



**STUDIES**

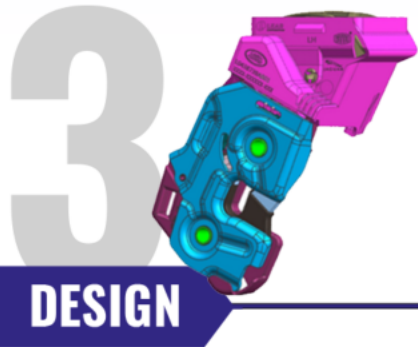
- Benchmarking
- Patent research
- Feasibility

2



**CONCEPT**

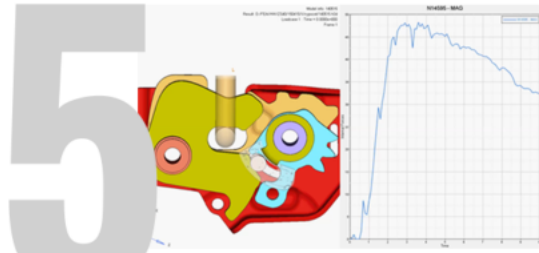
- Sketching
- Diverse technical solutions
- Rough design



- Specific solution | Catia V5-6 R2019
- Material selection | Unigraphics NX 12.0
- Calculations
- Data exchange | KVS, Connect
- Patent application



- Process | Full development team
- Tooling | in-house **160+ engineers**
- Assembly line
- Quality



## ANALYSIS

FEA – dynamic, explicit

Topology optimization

Kinematics

Tolerance analysis

Gear design calculation

Hyperworks MSC Marc

Symdesigner KISSoft



## PROTOTYPING

2 × prototype workshop

EOS

Laser sintering in-house

Tooling design and production

Samples build and assembly

Prototype check and validation

7



## DESIGN AND PRODUCT VALIDATION

Lifetime and function testing stands

Climate and salt spray chambers

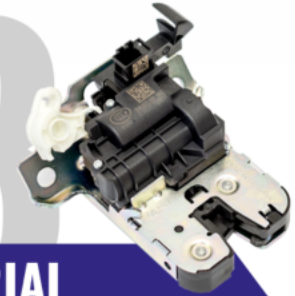
Dynamic and static strength

Hydropuls

X-RAY, CT

Acoustic chamber

8



## SERIAL PRODUCTION

Drawing maintenance

Engineering changes

Continuous improvement

Optimizations

# TECHNOLOGIES R&D

PASSENGER  
VEHICLES

COMMERCIAL  
VEHICLES

NON  
AUTOMOTIVE

BRAND  
GROUP



[ PARTS FOR ALL CARS ]



[ PARTS FOR ALL CARS ]



[ THANK YOU ]  
[ FOR YOUR ATTENTION ]

