



RHEINMETALL AG

## THE TECHNOLOGY GROUP FOR SECURITY AND MOBILITY

Capital Markets Day 2014 | Neuss | November 27, 2014

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## Agenda

Organization

Locations worldwide

Figures

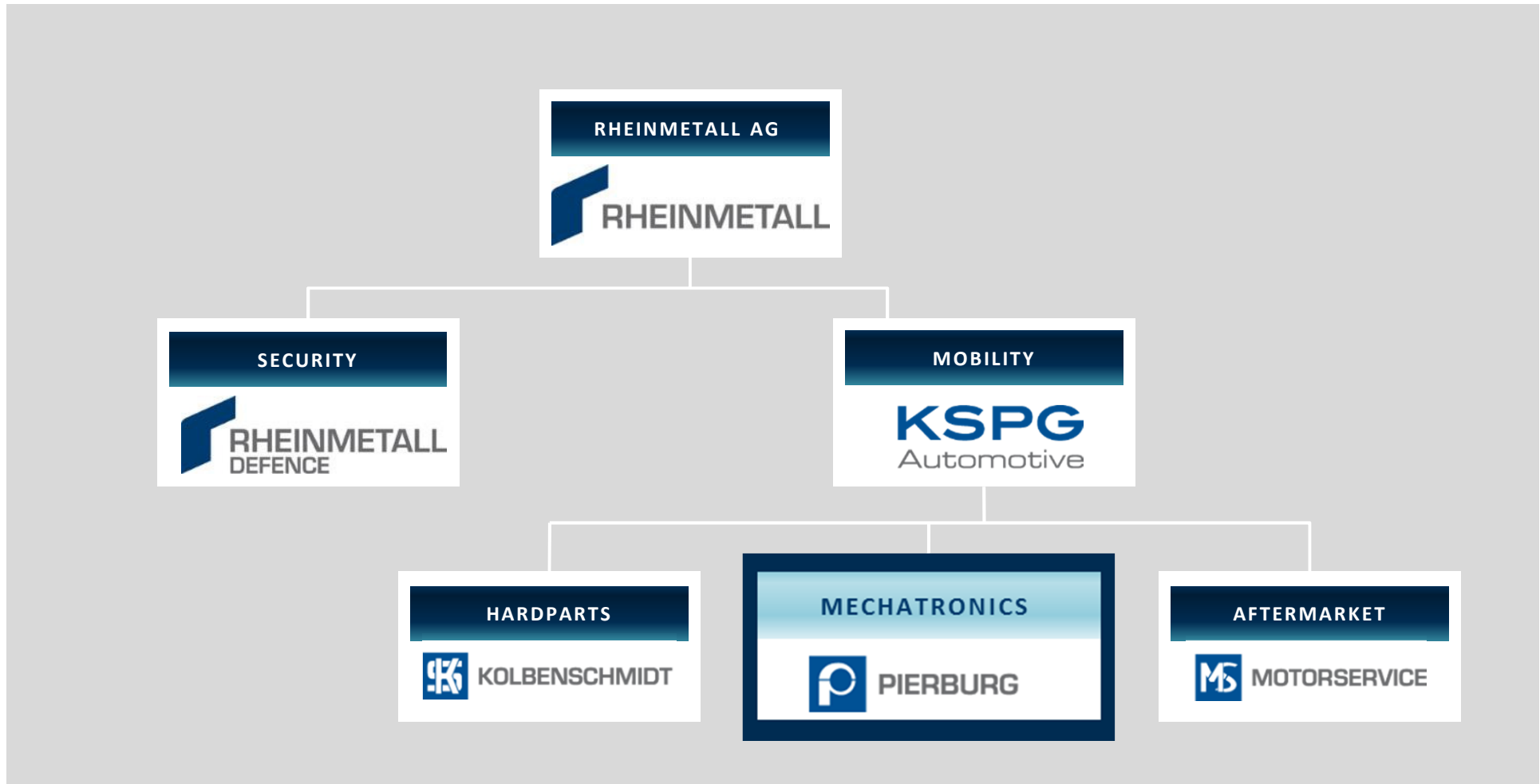
Sales drivers

Product portfolio

Plant Niederrhein



# Mechatronics - A strong pillar of Rheinmetall Automotive





## Mechatronics - Pierburg

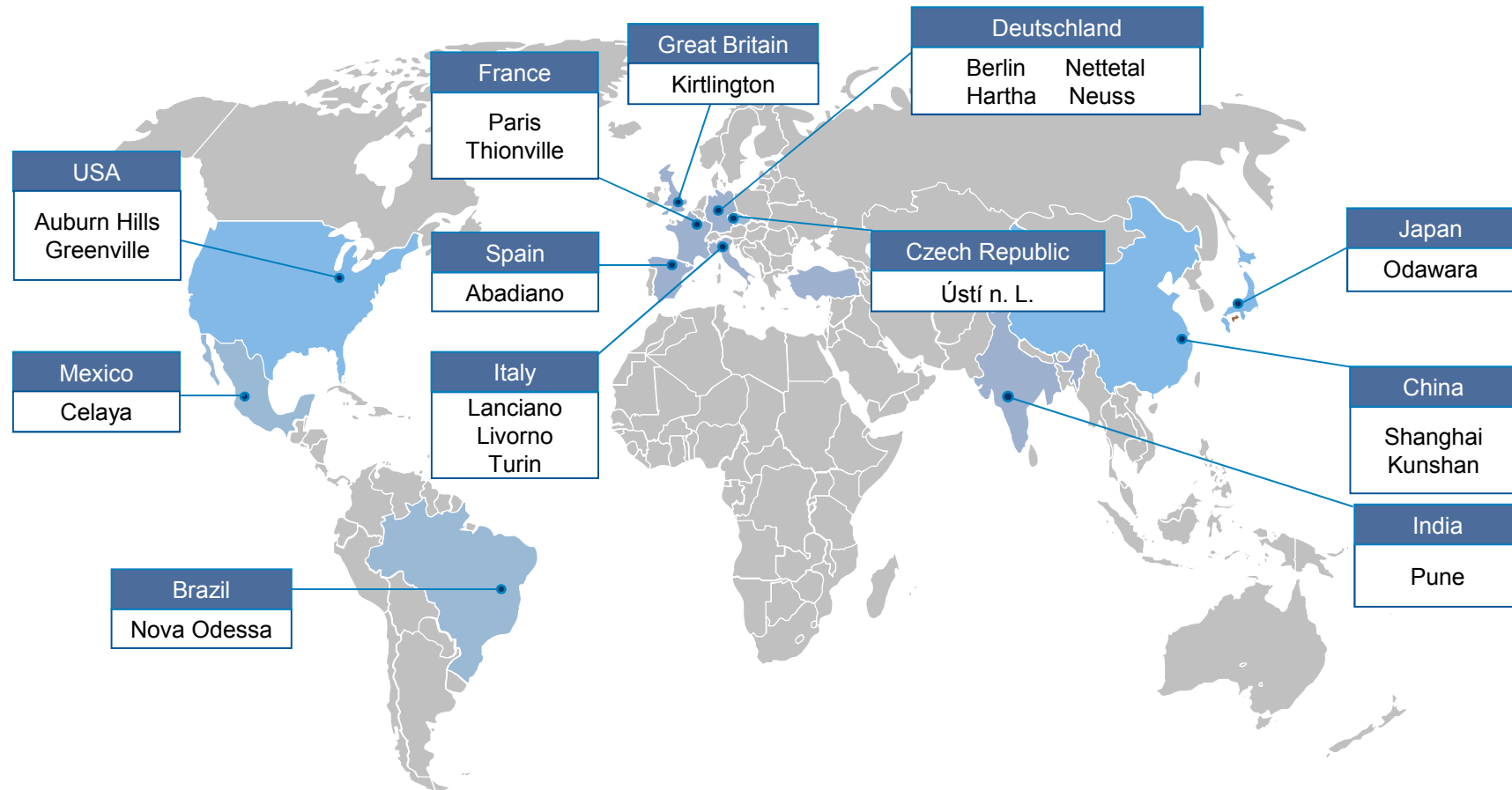
International partner for emission and fuel reduction

Sales 2013: EUR 1,171 mn

Employees: 4,000 (12/31/2013)



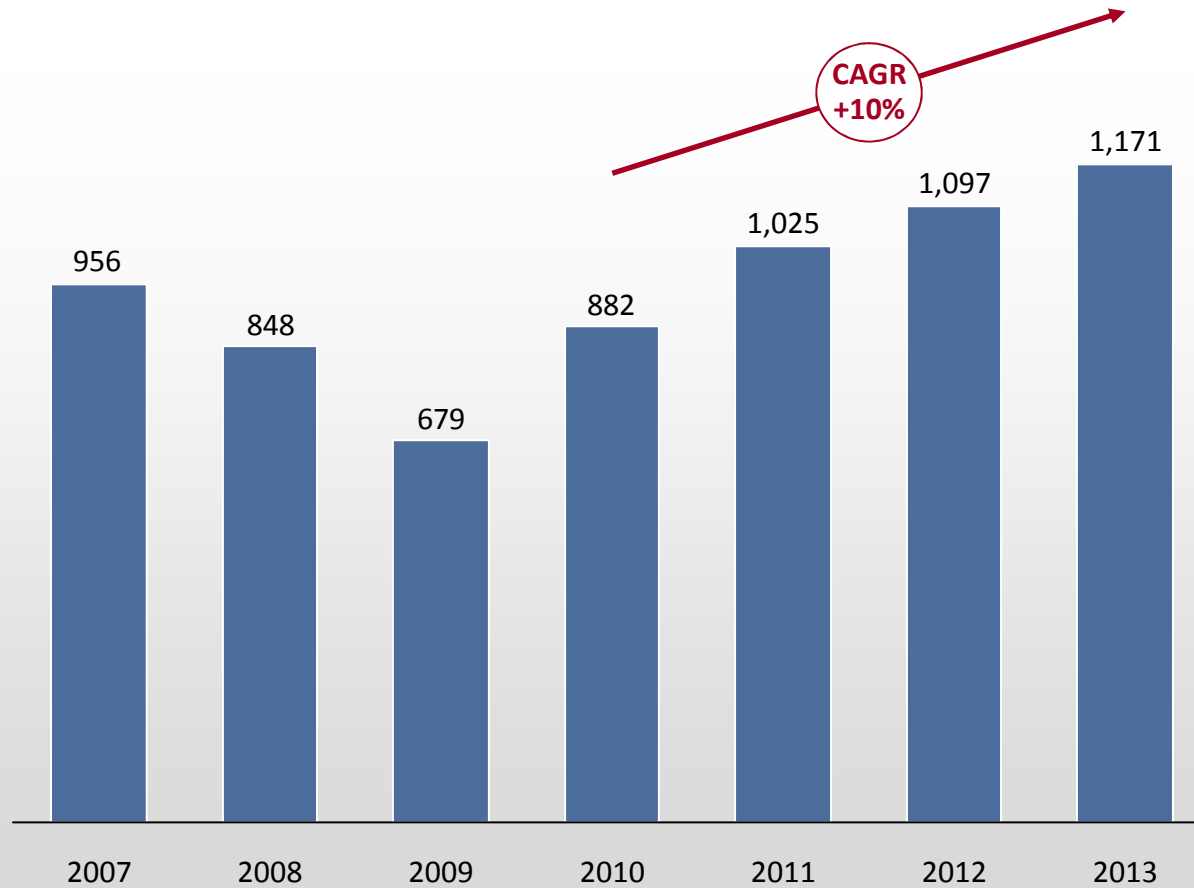
# Mechatronics - Global presence with 20 locations worldwide





## Mechatronics - Significant sales growth since crisis 2008/2009

Sales in EUR million

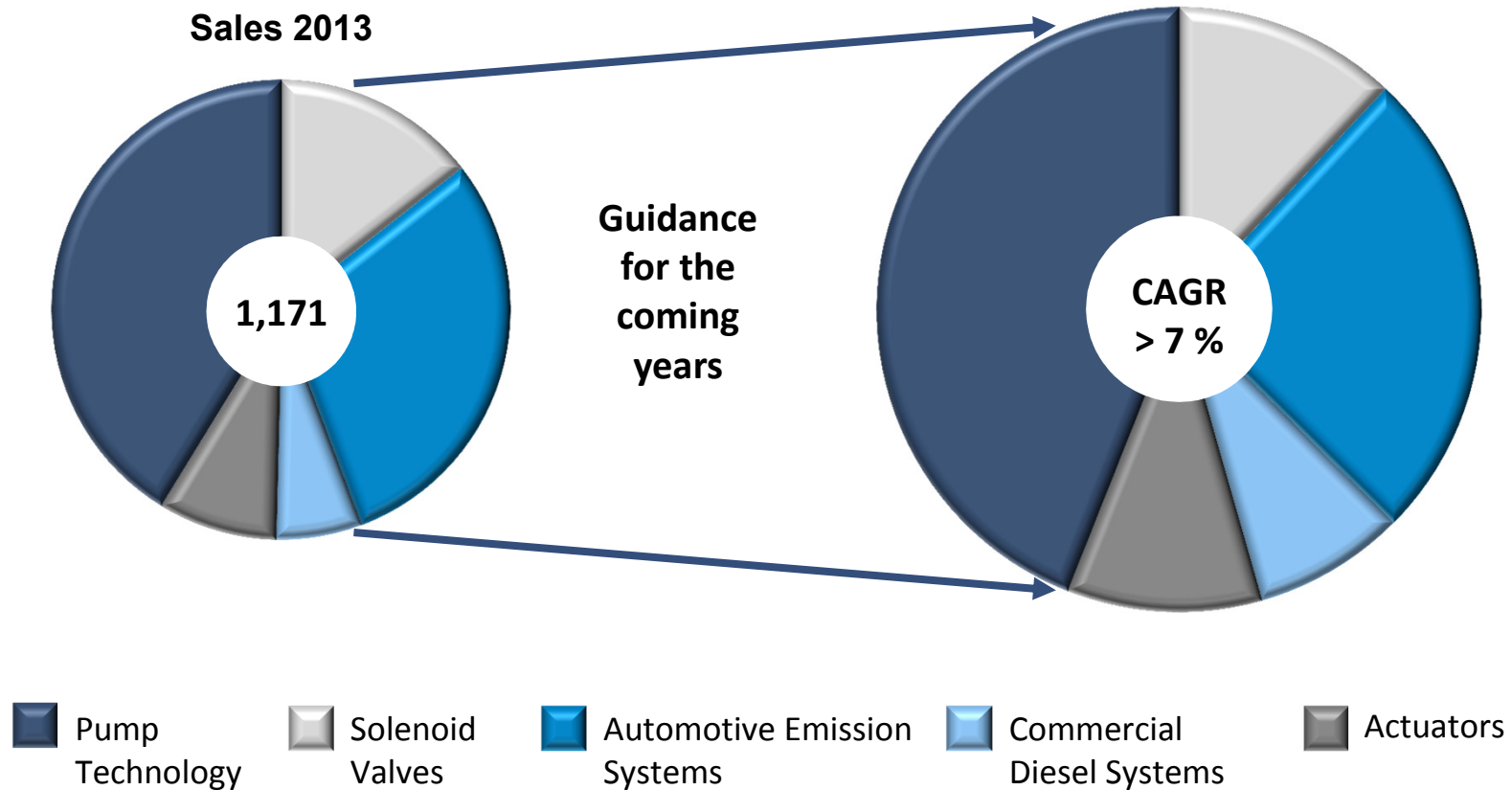


CAGR = Compound annual growth rate



# Mechatronics – Planned growth stronger than market growth

Sales in EUR million





## Mechatronics - Sales drivers

Reduction of  
emissions



Elect. throttle body

Reduction of  
fuel consumption



Elect. coolant pump

Increased performance  
of smaller engines



Turbo boost recirculation valve





Year 2000:  
**168g**  
**CO<sub>2</sub>/km**

Year 2020:  
**95g**  
**CO<sub>2</sub>/km**



# Mechatronics - Product portfolio



Automotive Emission Systems	Commercial Diesel Systems	Actuators	Solenoid Valves	Pump Technology
<ul style="list-style-type: none"> <li>— EGR-valves</li> <li>— EGR-modules</li> <li>— Exhaust control valves</li> <li>— Secondary air systems</li> </ul>	<ul style="list-style-type: none"> <li>— EGR-valves</li> <li>— EGR-modules</li> <li>— Exhaust control valves</li> </ul>	<ul style="list-style-type: none"> <li>— Throttle controls</li> <li>— Control valves</li> <li>— Electric actuation modules</li> </ul>	<ul style="list-style-type: none"> <li>— Electro-pneumatic valves and modules</li> <li>— Compressor bypass valves</li> <li>— Hydraulic valves</li> <li>— Coolant valves</li> </ul>	<ul style="list-style-type: none"> <li>— Water pumps</li> <li>— Oil pumps</li> <li>— Vacuum pumps</li> </ul>



**Plant  
Nettetal**

**Plant  
Neuss**

**Plant  
Niederrhein**



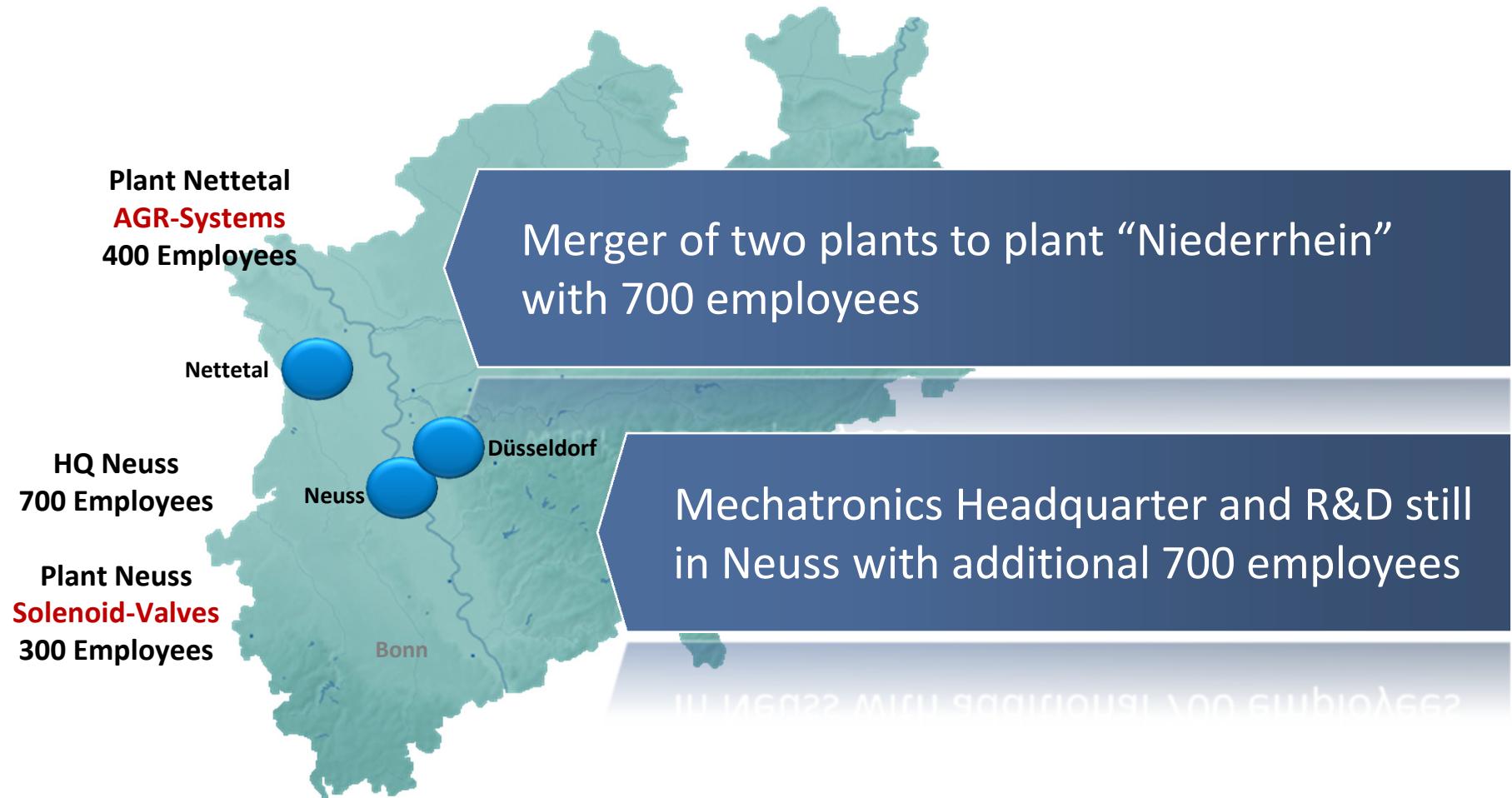


## Mechatronics – New plant Niederrhein





## Plants Neuss and Nettetal





## Mechatronics - Two plants in different situations...

### Plant Neuss

- Production plant with approx. 300 employees
- 28 million solenoid valves p.a.
- Worldwide market leader
- Sales 2013 approx. EUR 150 million
- Constant sales growth
- Expiring lease contract

### Plant Nettetal

- Casting, mechanical processing and assembly with approx. 400 employees
- Sales approx. EUR 60 million
- Avoiding potential underutilization of capacities
- Rising maintenance costs of the infrastructure

### Plant Niederrhein



## Mechatronics - ... being merged in one new plant

- Merging plants Neuss and Nettetal into new production and development location “Niederrhein”
- Sustainable competitiveness through optimized structures and processes
- High employer attractiveness and, with that, attraction of skilled employees
- Extension of innovation and production competency to a lead plant for development and production of high-tech products
- Buildings and property allow future expansion

Plant  
Niederrhein





## Mechatronics - Product portfolio at plant Niederrhein

### Truck Components

### Solenoid Valves



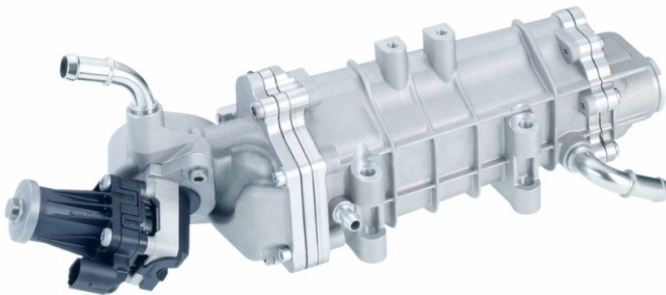
EGR reed valve



EGR mixer module



Vacuum regulating valve



EGR cooler module



Turbo boost recirculation valve





## Mechatronics - Overview plant Niederrhein





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