

Leading and shaping change – Focus on technology

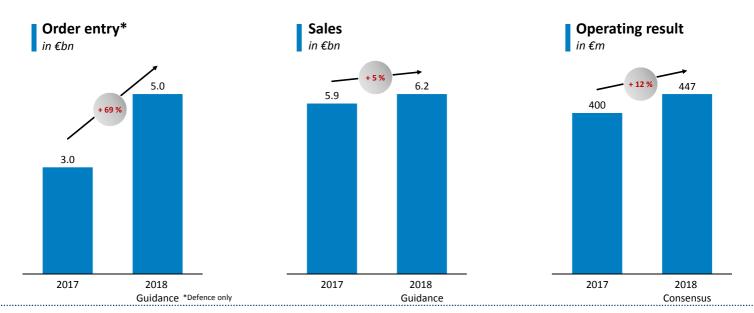
Armin Papperger, CEO Capital Markets Day 2018, 29 November, Berlin





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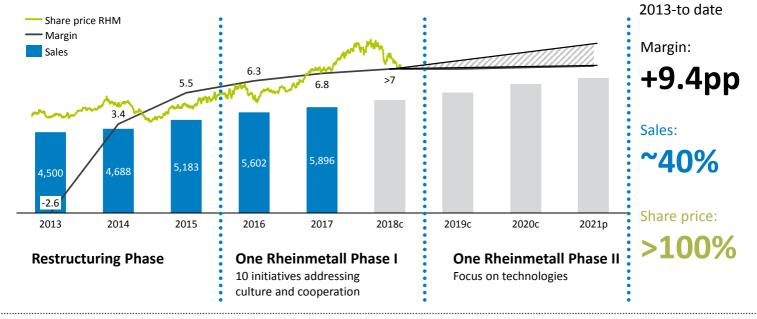
On track for the best year in Rheinmetall's history





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Markets have acknowledged operational development

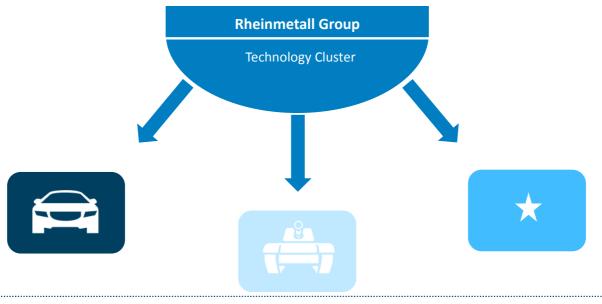


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Rheinmetall Technology Cluster

Focus on technology





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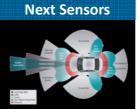
Top five technology cluster identified



 Advanced assistant systems for driving, sensing, protection and weaponing



- New, digitalized vehicle architectures
- Virtual prototyping and digital twins
- System / health monitoring, predictive maintenance, logistics



- New LIDAR* / Radar sensors
- Resistant to jamming / spoofing
- Next generation IR sensors



- Hybrid drive
- E-drive
- Micro mobility



- Al supported technologies
 - to handle complex situations
- for decision support
- for information superiority

*LIDAR=light detection and ranging

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Automation – combining existing skills for new solutions

Existing demonstrators with already realized functionalities MULE Function Follower Function Networks Drive-by-wire Teleoperation Emergency Breaking Traffic Signs Multi-Target Tracker Force-Feedback Sensor/Weapon/Stabilization Fire Control Target Recognition & Tracking, Weapon Assignment (ZZW)

- 90 engineers and scientists
- Multiple sites
- Aligned under the umbrella of ONE Rheinmetall





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Next Sensors - combining existing skills for new solutions / markets

Defence



Radar based on Active **Electronically Scanned Array** (AESA)



Target markers, range finders, laser illuminators, projection systems

High res. daylight cameras, HD IR arrays, enhanced SWIR, dual-color IR, gated viewing, hyperspectral imaging



Stabilized Electro-Optical Sighting System, Multi Sensor Platform, FIRST, etc.

Automotive projection







- New sensor concepts for future applications based on existing core competencies
- 150 engineers and scientists
- Multiple sites
- Aligned under the umbrella of ONE Rheinmetall

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E-Mobility as an example of existing cooperation



- Electrical traction/Drive units
- Energy storage systems
- Periphery systems and components
 - E-Motor housing
 - Battery tray
 - Heat-pump system
 - Electrified climate compressor
 - Electrified coolant pump

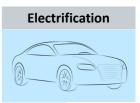














80+ employees are working on E-mobility solutions



ONE Rheinmetall

Pedelec - An example of an existing cooperation



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Future vision

Technology as the integrating bracket



We are an integrated technology group for mobility and security!



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