

## **Capital Markets Day 2017** Armin Papperger, CEO

Rheinmetall AG, 21 November 2017

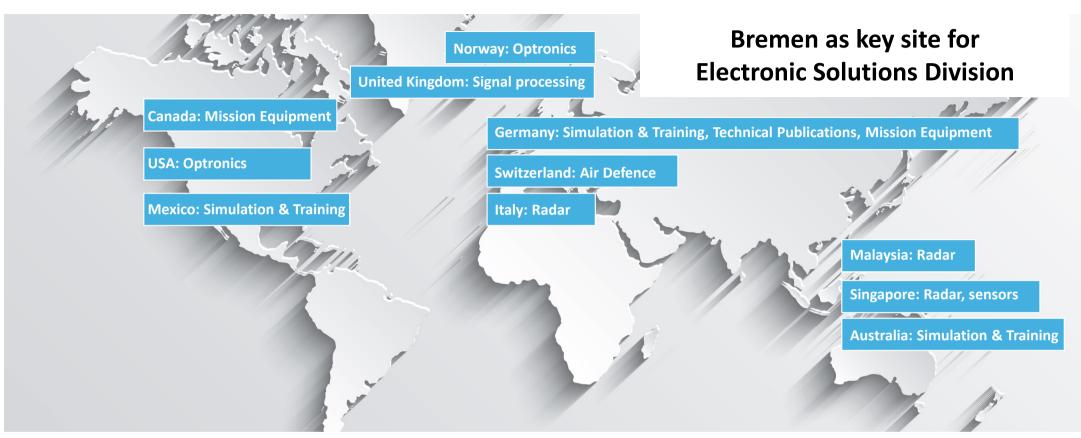




- Key site of Electronic Solutions Division Sales: €745 million, Headcount: 2,927
- Home of two business units: Mission Equipment and Simulation & Training Sales: €500 million, Headcount: 1,206 thereof 60% engineers

All figures refer to FY 2016

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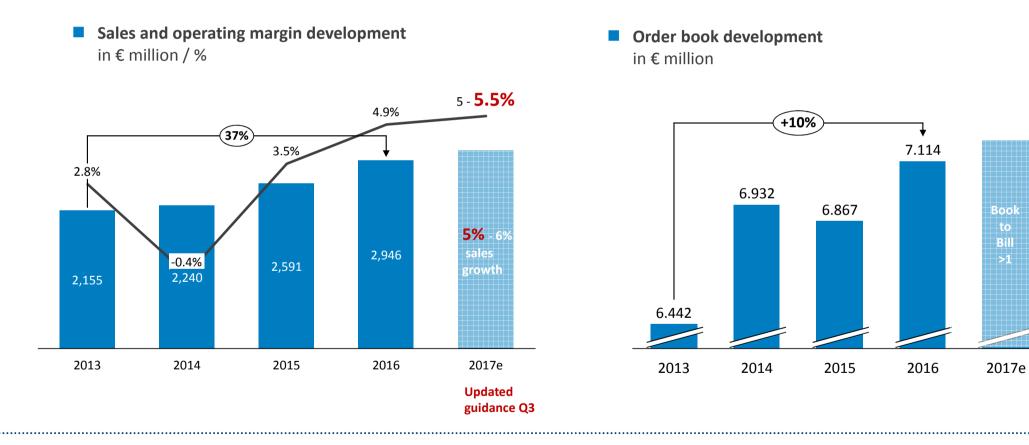
#### History

- 1996: Acquisition of STN Atlas, Bremen (Simulation & Training, Defence Electronics and Naval Systems) together with BAE Systems
- 1998: Acquisition of Oerlikon Contraves, Zurich (Air Defence)
- 2003: Split of STN Atlas; divestment of Naval Systems
- 2006 2012: Acquisitions: Simrad, AIM, Swiss Simtech Marinesoft, RFEL; Divestment: Majority in Airborne activities (drones, cargo loading) sold to Airbus
- 2012: Formation of Electronics Solutions Division
- 2017: Rheinmetall Electronics (formerly Rheinmetall Defence Electronics)

## **REVIEW2017**

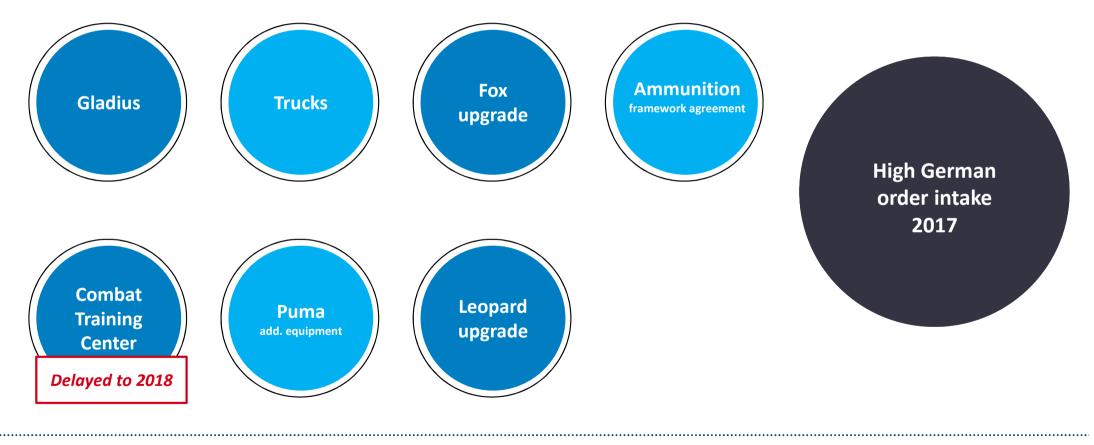


#### Defence with strong recovery of KPIs and solid base for future development





#### 2017 with successful order acquisition especially in Germany





## 2017 marked by important strategic partnerships

	18 COLOR CHART	<b>ROHDE&amp;SCHWARZ</b>	Raytheon	ΡΛ <mark>Ϩ</mark> Λνλη		
Scope	Partnering agreement for the Bundeswehr assault rifle RS 522	Joint bid for MoTaKo /MoTIV project	Various areas of cooperation under analysis	Cooperation agreement for drive by wire technology in military and dual use applications incl. civilian emergency response vehicles		
Status	Agreement signed Jan 2017	JV agreement signed Sep 2017 (74.9% Rheinmetall)	"Strategic collaboration agreement " signed end of June with defined work share, exclusivity for German market	Agreement signed Sep 2017		
Timing	Tender submitted May 2017 Decision expected H1 2019	Tender process starts 2019 Decision expected Q4 2020		3 years global exclusivity		
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# MARKETINSIGHTS



#### Defence budgets made it to the headlines in 2017



## **Emmanuel Macron calls for EU army and** shared defence budget

The Independent, Sept 26 2017

Congress proposes defense budget \$37 billion higher than Trump's CNN. June 22, 2017



Chancellor Angela Merkel backs 2 percent of **GDP NATO** contribution DW, Feb 25, 2017

> Poland Increases the Defence Budget. **MoD Changes Modernization Plans** Defence 24. June 9 2017





Danish government proposes 20 percent defence budget hike to deter Russia Reuters, Oct 12, 2017





#### Defence budgets made it to the headlines in 2017





## Market growth based on several drivers

NATO and international demand: Generally increasing defence budgets	
EU defence policy European defence union; European defence fund	
German domestic demand From hollow structures to full equipment	
Army 4.0: Digitization of army equipment and communication	



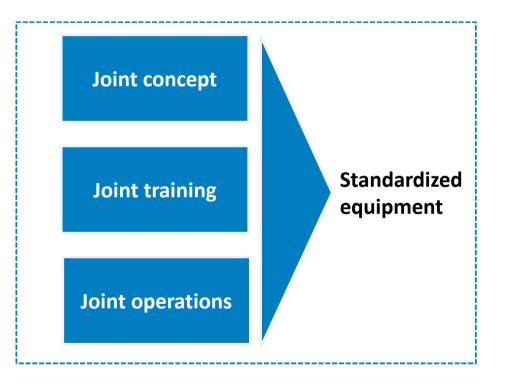


## NATO and international demand: Framework nation concept triggers standardization of equipment

#### Framework nation concept



- German initiative
- Framework nation provides basic military structures (incl. logistical and command structures)
- Smaller states contribute special capabilities
- Nucleus for EU army





## NATO and international demand: UK vehicle programs



#### UK Mechanised Infantry Vehicle (MIV)

- 500 8x8 Boxer Utility Vehicles
- Total Value > GBP3 bn
- Decision on tender process pending collaborative via OCCAR or competition
- Assessment phase expected to begin in 2018



### NATO and international demand: UK vehicle programs



#### **Challenger Upgrade**

- 227 vehicles with total value of GBP685 m
- 10 year life extension of existing fleet
- End of program in 2035
- Rheinmetall and BAE final competitors
- Assessment phase contract awarded Dec 2016 (GBP23 m)
- Next steps:

Finalization of assessment and submission of final tender in Dec 2018

Decision scheduled for end of Q2 2019



## NATO and international demand: Australia vehicle programs



#### LAND 121 Phase 3b

- Around 2,500 vehicles and 3,000 modules
- Total Value: AUD 1.9 bn
- Delivery in process

#### LAND 121 Phase 5b

- Around 1,100 vehicles and 700 modules
- Follow up order to Phase 3b
- Tender submitted in August 2017



## NATO and international demand: Australia vehicle programs



#### LAND 400 Phase 2

- 225 vehicles
- Total value: AUD 4 bn
- Rheinmetall: Boxer
- BAE/Patria final competitor

#### LAND 400 Phase 3

- Up to 467 tracked vehicles, thereof 365 Infantry Fighting Vehicles
- Lynx
- At least three competitors



## EU defence policy: EU brought defense matters back on the agenda



#### **Drivers for European defense politics**

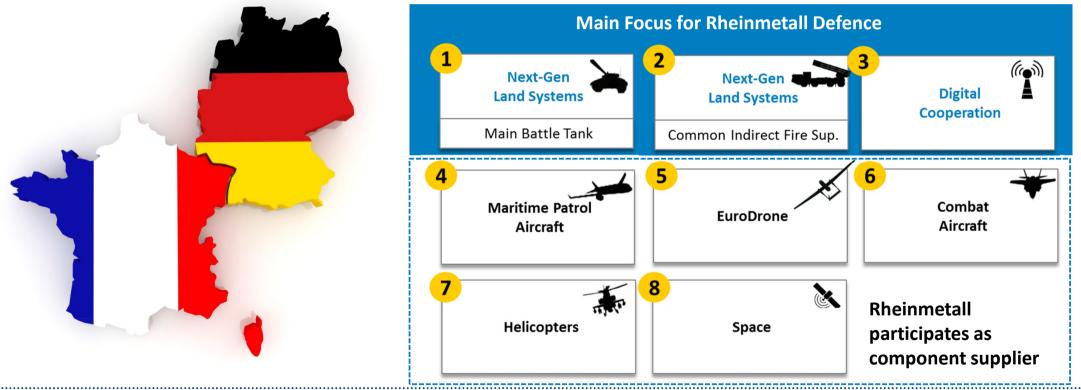
- Gain strategic autonomy
- Improve efficiency and interoperability
- Increase EU industry competitiveness

#### **European Council decision**

- Permanent structured cooperation (PESCO)
- European Defence Fund (€1.5 bn p.a. post 2020)
- Coordinated annual review on defence (CARD)
- In Q3 2017 Rheinmetall set up Brussels liaison office



## EU defence policy: Franco-German initiative with a project basket of approx. €175 bn



Franco-German lighthouse projects



## German domestic demand: German MoD initiated three trend reversals



#### Personnel

Mid-term return to 220,000 soldiers

#### Equipment

- Full equipment level
- Long-term structural reinforcement (new division)

#### Budget

- Increase of defence budgets
- €130 billion investment until 2030



## German domestic demand: German army with new role as lead nation for VJTF



Very High Readiness Joint Task Force (VJTF)

- VJTF "the spearhead" as part of the NATO Response Force
- Multinational brigade with 5 battalions (5.000 troops)
- Rotating lead nations
- Start of operation in 2017
- Germany will take on lead nation role in 2019 and 2023





## German domestic demand: Additional structural demand of German army under discussion

Vehicles – mid-term potential





Boxer



Trucks



Puma

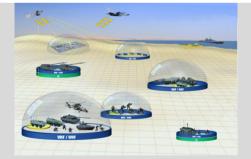
#### Equipment and ammunition – multi billion programs



NNBS (Short air defence)



TLVS (Tactical air defence)



МоТаКо

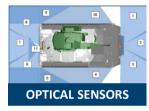


Ammunition



## German domestic demand: IFV Puma additional potential until 2026 in detail











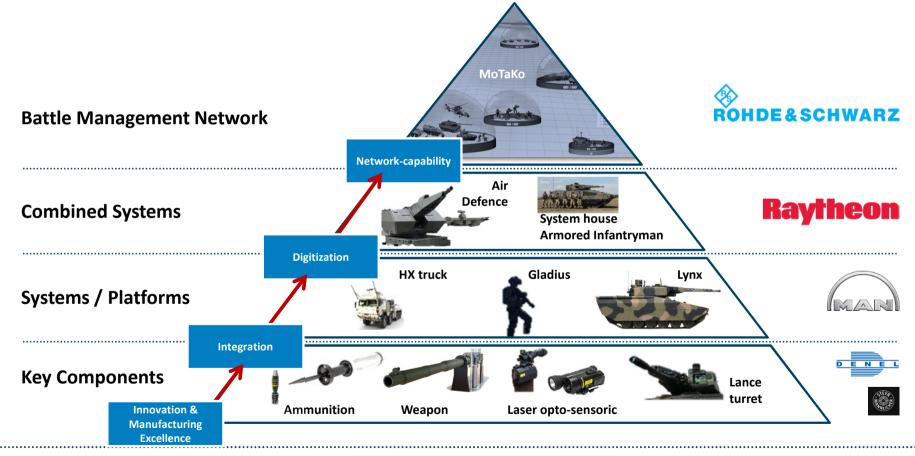








## Army 4.0: Rheinmetall integrates components to systems





## Army 4.0: Soldier systems build the foundation of all digitization





## Army 4.0: Panoview is the next level in digital turret systems



- Delivers real-time panoramic view
- Improves situational awareness, reduces reaction time and increases survivability
- Integrates with existing solutions
- PanoView allows to fuse sensor and tracker information such as areas of interest, tracks and notifications, C4I data and streamed sensor views in an intuitive, interactive user interface



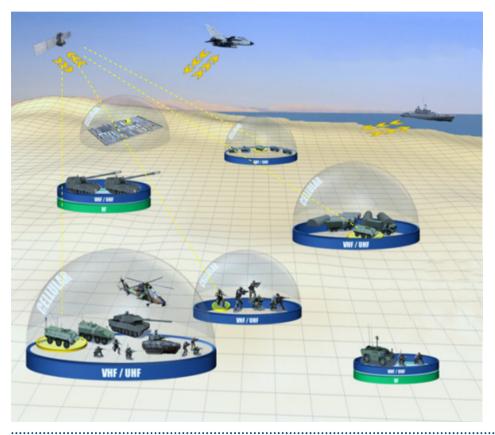
## Army 4.0: SENECA – Latest development to enhance effectiveness of combatants

Sensor Effector Network for Enhanced Combat Applications





## Army 4.0: MoTaKo / MoTIV will propel the German Army into the digital future



#### JV-share and core capabilities

Rheinmetall (74.9%):

- Command systems
- Cross-functional operator interface
- Vehicle integration

Rohde & Schwarz (25.1%):

- Communication system architecture, IP based solution for voice and data transmission
- Incorporation of third party components and solutions

#### Scope and Timeline

- Most important strategic procurement project for the German army
- Total value exceeds € 5 bn
- Tender process starts 2019
- Start of production Q2 2021

Mobile Taktische Kommunikation Mobiler Taktischer InformationsVerbund



## Army 4.0: Live simulation of the three building blocks

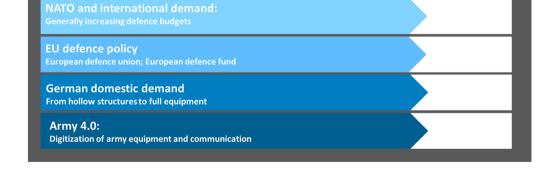


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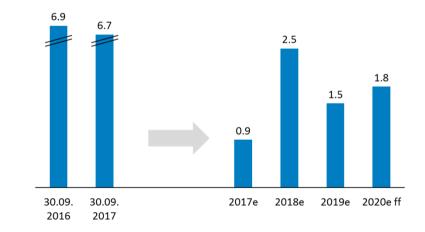
#### Growth: Rheinmetall Defence with a strong focus on organic growth

Long-term demand based on several pillars

Market growth based on multiple drivers



#### Strong order backlog





#### Growing at improved performance

#### GROWTH

Long-term growth trend fully intact

Defence business growth returns to double digit %-rate

#### PERFORMANCE

Profitability improved on product mix and higher leverage Lagging business in Electronic Solutions is stabilizing

#### **OUTLOOK**

Well on track to enter target corridor of 6-7% operating margin mid-term

High order backlog

Great growth potentials for all three divisions



## MOBILITY. SECURITY. PASSION.

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