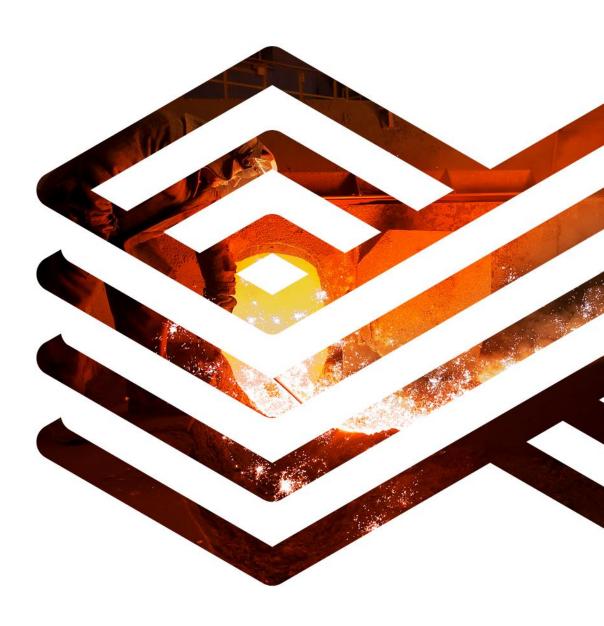


The driving force of the refractory industry

Roadshow September 2018



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Compelling investment case





Clear strategy and strong competitive position

- Strong market position with 15% global market share, clear leadership in Americas, Europe and Middle East with broadest value-added solution offering
- Opportunity to develop and leverage technology across regions and portfolio
- Highest level of vertical integration in the industry with unique mineral sources and 50%+ self-sufficiency in all raw materials

2

Rapid deleveraging and strong cash conversion

- Strong cash flow from operating business supported by synergies and organic growth opportunities
- Cash usage priority on deleveraging within 2 years to reach investment grade rating



Significant synergy potential

- At least €60m synergies in the 2018 P&L and €110m in synergies to be achieved by 2020
- Interest expense reduced by at least €10m in 2018 and €20m in 2019 after refinancing completed in August 2018
- Additional "below the line" opportunities in working capital and tax



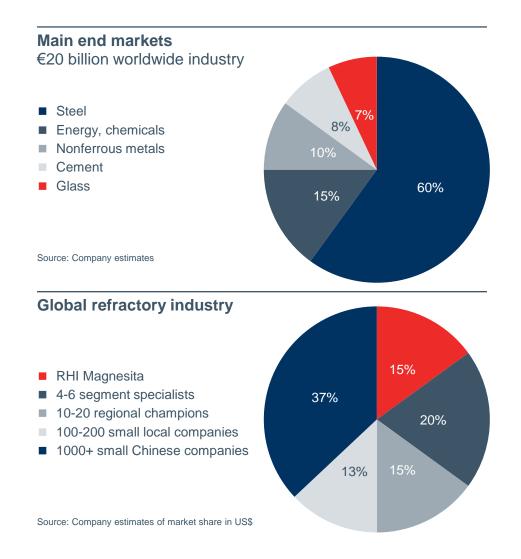


Refractory industry



Refractories are critical to all high-temperature industrial processes

- Refractories are critical consumable or investment goods for high-temperature manufacturing processes
- Fireproof materials consumed whilst protecting clients' production processes, retaining physical and chemical characteristics when exposed to extreme conditions
- Critical, yet represent less than 3% of COGS in steel manufacturing and less than 1% in other applications



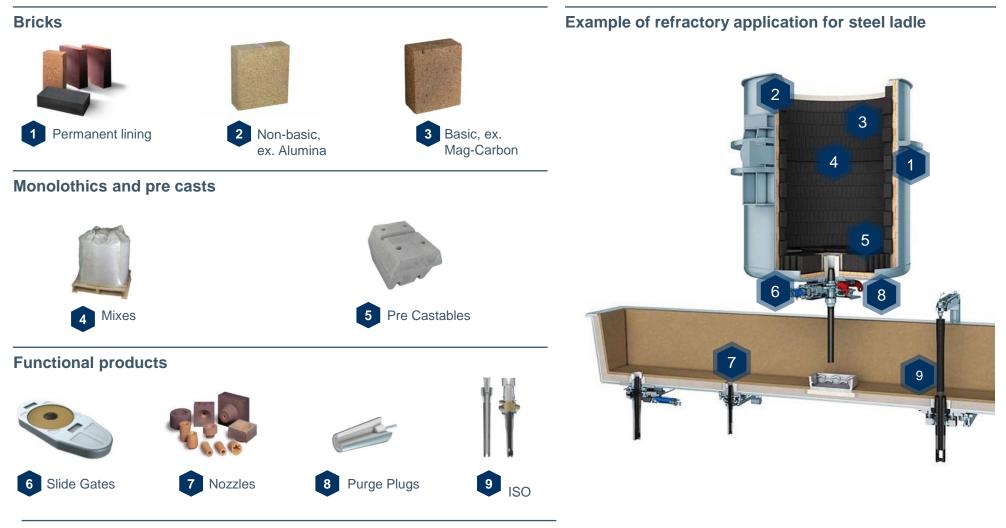


Refractories are continuously consumed during finished goods production

Key industries	Applications	Replacement	% of clients' costs	Refractory characteristics
Steel	Basic oxygen-, electric arc furnace casting ladles	20 minutes to 2 months	~3.0%	Consumable product Systems and solutions for complete refractory management
Cement/Lime	Rotary Kiln	Annually	~0.5%	Demand correlated to output
				Investment goods
Nonferrous metals	Copper-converter	1 – 10 years	~0.2%	 Longer replacement cycles Customized solutions based on the specific requirements of various industrial production processes
Glass	Glass furnace	Up to 10 years	~1.0%	Complete lining concepts including refractory engineering Wide areas of application
Energy/ Environmental/ Chemicals	Secondary reformer	5 – 10 years	~1.5%	Mostly project driven demand cycles Ongoing demand for repairs



A complex range of tailored refractory products are required for each application



+Systems and machinery



The driving force of the refractory industry

Providing everything, for everyone, everywhere



€2.7bn

2017 adjusted pro-forma revenue

10,000

Customers served globally

14,000

Employees spread over 37 countries

35

Main production sites across 16 countries

180

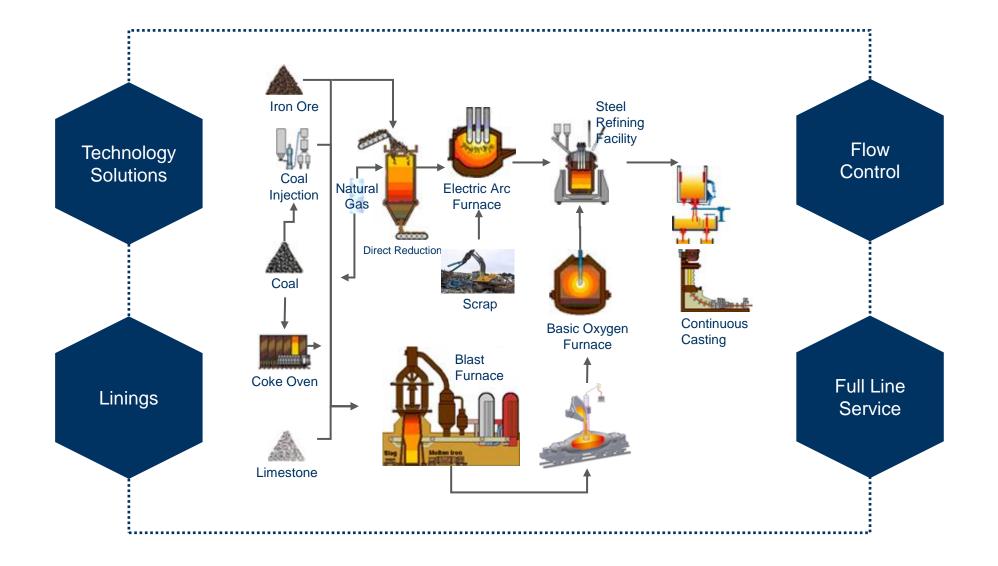
Countries shipped worldwide

Raw material sites in 4 continents €37m

Annual investment in Research

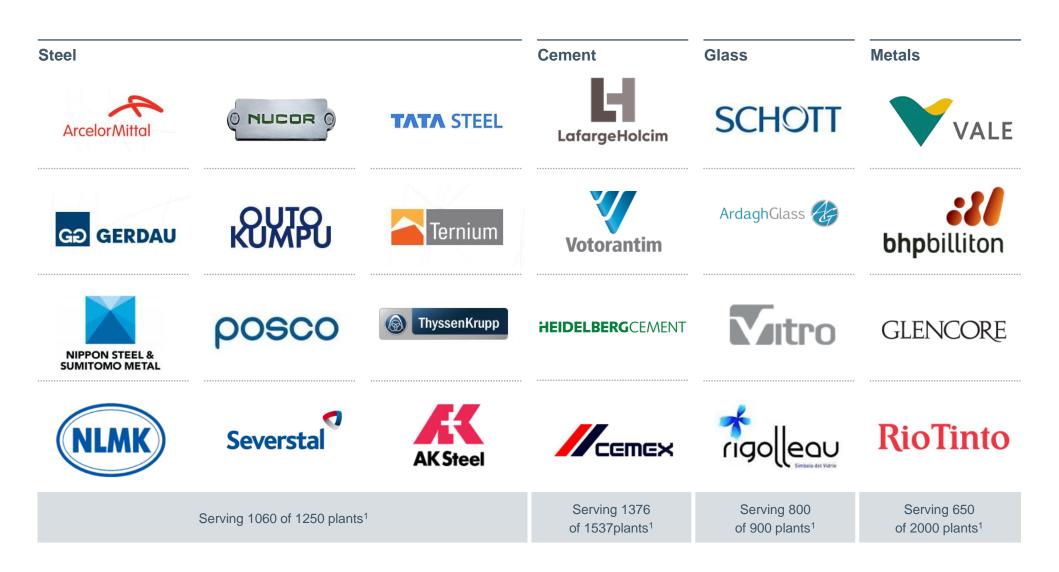


Adding value through a full suite of products and services





Serving all blue chip clients in every industry

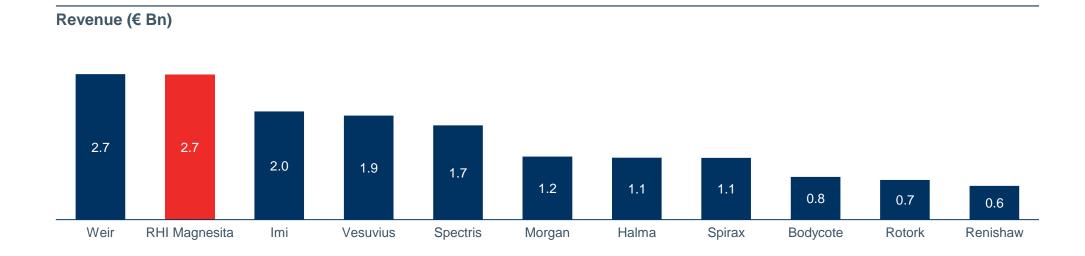


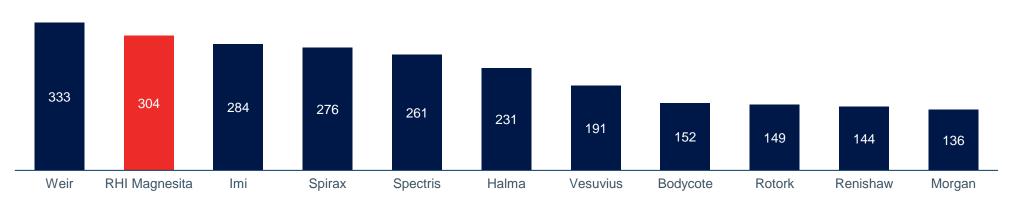


Optimally positioned to reach clients everywhere Europe 23% North America 24% APAC 20% MEA-CIS 15% South America 18% **Production facilities** + More than 70 sales Raw material sites offices worldwide % revenues (2017)



Amongst the leading FTSE 250 industrial companies





EBITA (€ mln)

Source: Company 2017 Annual Reports



Strategy



Build a global refractory leader with a distinctive customer proposition based on technology and cost competitiveness to ensure manufacturing of essential materials for the world



Markets

Worldwide presence with strong local organizations and solid market positions. Opportunity to expand in Asia.



Competitiveness

Cost competitive and safe production network supported by lowest cost G&A services. Opportunity to lower COGS through capacity expansion.



Portfolio

Comprehensive refractory product portfolio including basic, non-basic, functional products and services in high performance segments. Opportunity to grow via capacity expansion and partnerships.



Technology

Top solution provider in the refractory industry with an extensive portfolio based on **innovative technologies and digitalization**. **Opportunities to develop tailored solutions with new technologies and partners**.

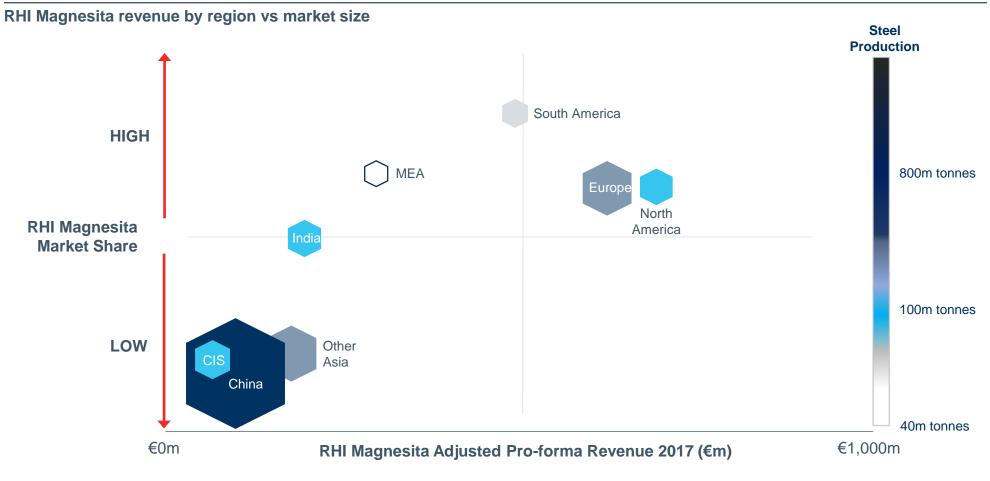


People

Hire, retain and motivate **talent** and nurture a **meritocratic**, **performancedriven**, **client-focused** friendly **culture**. **Opportunity to attract new talent from inside and outside RHI Magnesita**.



High market share in Europe and Americas with opportunities to occupy 'white spaces' in India, China and CIS



- Dedicated strategy for China with focus on growing locally, to achieve sustainable and profitable revenue growth
- Focus on organic growth in India (high quality demand) and US based on positive local market development
- Drive organic growth in the mid term and in the long run consider M&A to achieve overall global presence



Extend market position in high quality applications and strengthen non-basic mixes and functional products

Portfolio	Main Applications	Opportunity		
Basic Products	 Steel: converters and ladles Industrial: Nonferrous Metals 	 Great capability and logistics: Production in all continents and short lead-time to everyone, everywhere RHI Magnesita, for example, produces world-class mag-carbon bricks. The combination of the best raw materials with the continuous investments in R&D allowed the Company to develop a high-performance product which enhances clients productivity 		
Non-basic products	 Steel: blast furnace & reheating furnaces and direct reduction Industrial: bricks & castables 	 Estimated global market of €4 billion+ RHI Magnesita has a complete non-basic product portfolio Strong presence in South America. Great opportunity to expand in North America and Europe 		
Functional Products	 Steel: continuous and ingot casting Industrial: Nonferrous Metals 	 Technical expertise, complete product portfolio, solutions beyond refractory products such as mechanisms A global plant footprint allows optimization of supply chain Continuosly growing business with a combined market share globally ~20%; significant growth potential 		
Engineering Solutions	 Steel: tundish efficiency improvement Industrial: raw material testing & experimenting 	 Service provider and strong partner with the capability to provide solutions beyond refractories Tailor made solution for all customer requirements Simulations and modelling for improvement of customer processes (water modelling; fluid dynamics) 		



Top solution provider in the industry, investing in innovative technologies and digitalization



Continue investing in R&D

to create products, which have a distinct competitive advantage by costs or by product performance and defend current margin level sustainably



Develop into a **system supplier** based on R&D, partnerships and selective acquisitions and **gain 50-100 basis points in margin**



Explore digitalization & automation across the value chain to create additional value for our customers and achieve cost reduction and gain additional margin to our company



The industry's largest dedicated research team, pushing the boundaries of what is possible

We drive innovation in every aspect of our business, from materials, robotics and Big Data, to bespoke new business models and efficient new processes, under extreme conditions.

Refractories

- Development and optimization of refractory products and manufacturing processes
- Market driven project portfolio
- Plant technical support and quality control

Mineral

- Increase ore recovery, maximize mine useful life and minimize environmental impacts
- Development of high quality, low cost raw material sources

Basic research

- Basic research ensuring technology leadership
- Strong focus on innovation

Recycling as an opportunity

Green technology applied to reprocessing, sorting and reutilization of recycled raw material

Global research team of 270+ employees, of which 98 have masters and PHDs, working out of 2 research hubs and 3 centers



Investing €37m p.a. into technology-based solutions

On-site technical experts consult, develop and deliver innovative solutions directly to clients



340+ technical engineers across 90 countries, working on-site with clients to provide custom-made solutions, installation support, recycling, post-mortem analysis and more.

A combination of...



High quality raw materials



Continuous investments in R&D



World-class products



On-site technical consulting

...ensures customers

- □ Improve efficiency
- Improve quality
- □ Increase productivity
- Reduce costs
- Reduce working capital
- Reduce energy and other raw materials consumption
- Reduce environmental footprint

Cost competitive and safe production network supported by lowest cost G&A services



Run the lowest cost G&A services to support the daily business

Strictly implement and safeguard achievement of operational synergies from the merger

Improve efficiency and expand capacity selectively to support growth ambitions





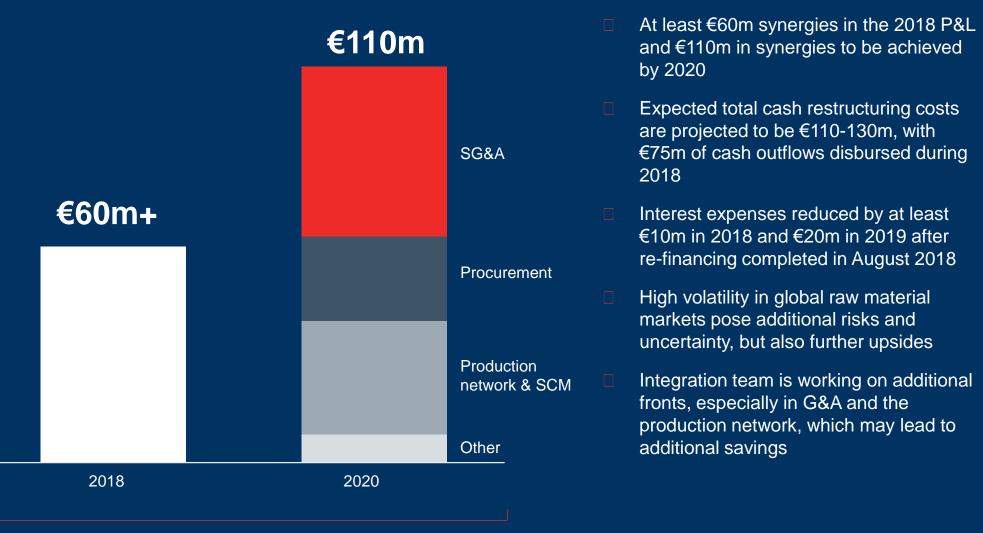
Unrivalled competitive advantage through vertical integration, in multiple sites





Increased synergy potential to be realised by 2020





Cash restructuring costs of €100-130m



Synergy opportunities across a range of business activities

	Opportunities
SG&A	 Rationalization of sales network Streamlining corporate management and back-office Ramp-up of shared service centers
Procurement	 Best sourcing prices in overlapping countries and spend categories Beneficial scale effect from high volumes Increase vendor financing
Production Network and Supply Chain	 Network rationalization, enhancing distribution, reducing logistic costs and lead-time and improving capacity utilization Reallocate complementary product portfolios Enhanced raw material integration
Others	 Cross-selling opportunities Product master-data homogenization



Additional 'below the line' synergies are expected post-integration

	Opportunities
Сарех	 Footprint optimization to reduce maintenance capex over next 2-3 years Shift overall capex towards higher share of value & growth projects
Working Capital	 Reallocate production and shorten supply chain Replace third party raw materials with internal production Eliminate inventory overlap in key countries (Brazil, Mexico, United States)
Interest Expenses	 Refinance facilities to take advantage of enhanced credit profile Use cash flows to delever company and reduce capital structure burden overall Target investment grade rating
Тах	 Converge effective tax rate to global multinational levels: 25-29% in the short term and <25% in the long term Monetize significant deferred tax assets Optimize efficiency of capital structure

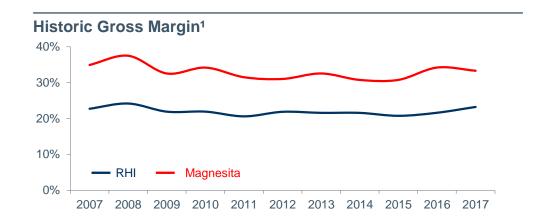


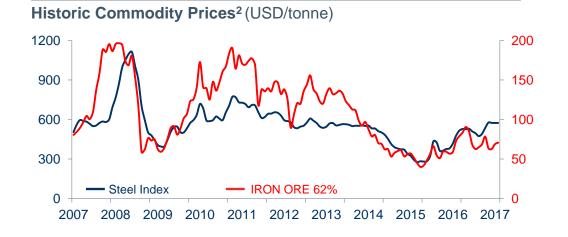
Financials



Resilient business model with little volatility across the cycle and low level of commoditisation

	Basic Materials Markets	RHI Magnesita
Raw Materials	 Commoditized Price takers of key raw material inputs 	Lower volatility in cost due to significant vertical integration
Finished Product	 Commoditized Price takers of standardized finished products 	 Non-commoditized Over 100,000 SKUs 1-3% of client's COGS Service intensity Make to order Resilient & uncorrelated prices





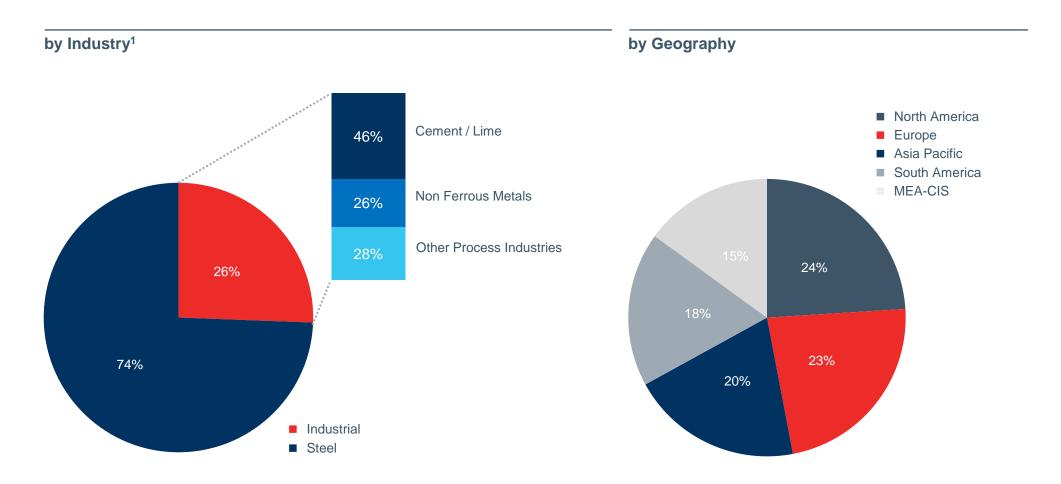
1: Gross margin as reported by RHI and Magnesita in their respective Financial Statements. Prior to the combination, Magnesita included freight in Selling expenses, rather than COGS.

2: Steel index: Bloomberg benchmark



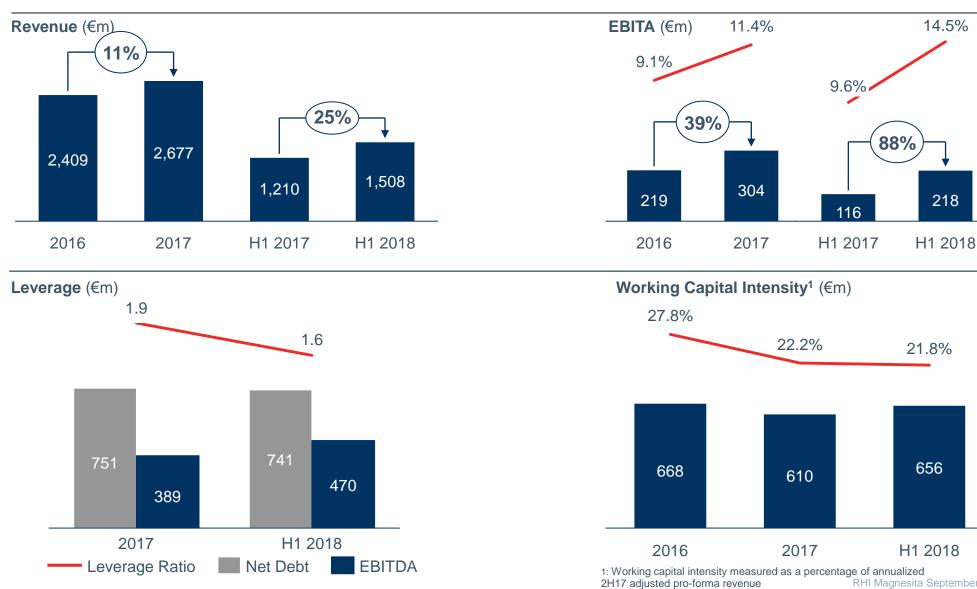
2017 adjusted pro-forma revenue breakdown

Total Revenue: c.€2.7 bn





Adjusted pro-forma results



RHI Magnesita September 18 Roadshow

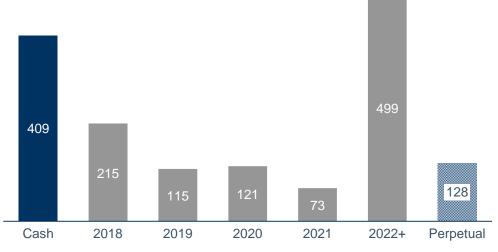
Capital structure



Solid credit profile and commitment to de-leveraging the current business

- On 3 August 2018 the company successfully raised a new unsecured US\$600 million 5-year term loan and multicurrency revolving credit facility
- Proceeds of the new facility will be used to redeem the entire amount of outstanding Magnesita Perpetual Bonds on 20 August 2018 and prepay other short-term facilities

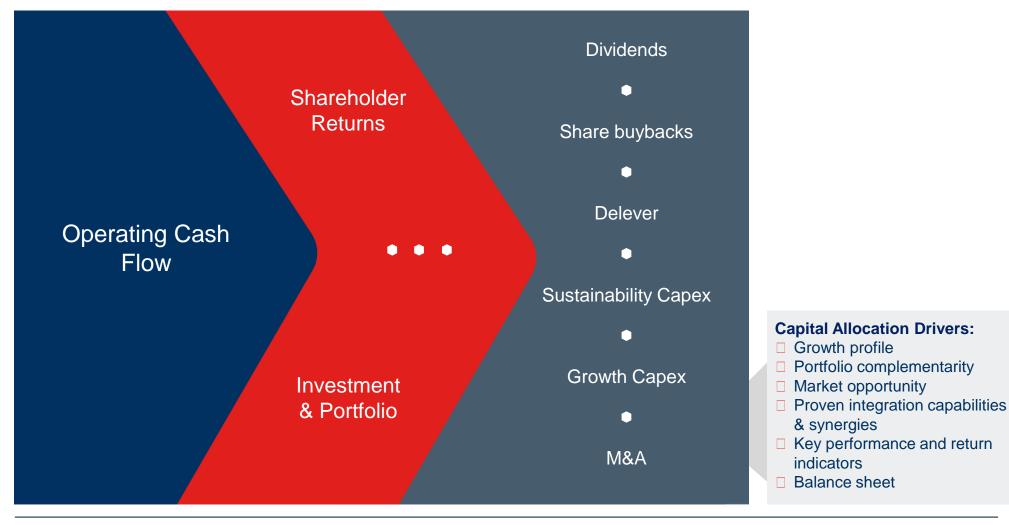
Amortisation Schedule (€ millions, as of 30 June 2018)



Capitalisation Table	€ millions
OeKB Term Loan	306
Perpetual Bond	128
Other Loans & Facilities	717
Total Gross Indebtedness	1,151
Cash, Equivalents & Marketable Securities	409
Net Debt	741

Capital strategy

Dynamic capital allocation over time, supporting long term strategy, providing flexibility for market opportunities and increasing shareholder returns







31



Compelling investment case





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Appendix

RHE MAGNESITA

Driving client performance improvements



Equipment/Application	Service	Starting point	End game	Improvement		
Client A (Integrated)						
Basic Oxygen Furnace (B.O.F.)	Refractories	1,900 heats	7,200 heats	+385%		
	Assembly	145 h	40 h	3.8X faster		
Blast Furnace	Runners	1,600 h	330 h	4.8X faster		
Torpedo Cast	Casting	230 kton metal	640 kton metal	+280%		

Client B (Mini Mills)

	Roof	300 heats	2,100 heats	+600%
EAF	Assembly	27 h	8 h	3.4X faster
	Working Line	360 heats	1,200 heats	+200%
Slide Gate	Refractory	3 heats	9 heats	+200%

Client C (Stainless)

AOD	Working Line	55 heats	70 heats	27%
EAF	Working Line	200 heats	300 heats	50%
Ladle	Working Line	50 heats	65 heats	30%

Source: RHI Magnesita

Management team



Executive Management Team	Joined	Background
Stefan Borgas CEO	2016	 Former CEO of Israel Chemicals Ltd and Lonza Group Several management positions at BASF
Octavio Lopes CFO	2012	 Former CEO of Magnesita and Equatorial Energia Several management positions at GP Investments
Luis R. Bittencourt CTO	1989	 Former R&D and raw material VP of Magnesita BA in mining engineering (UFMG), MS degree in metallurgical engineering (University of Utah) and PhD in ceramic engineering (University of Missouri)
Gerd Schubert COO	2017	 Former COO of Pfleiderer S.A. Global Operations Director at Ferro Deutschland GmbH and Ferro Spain
Reinhold Steiner CSO	2012	 Former CSO Steel Division of RHI Former CEO of Chtpz Group
Thomas Jakowiak Integration	2000	 Former CSO Industrial Division of RHI Several leadership positions at RHI
Simone Oremovic Human Resources	2017	19 years of experience in leadership positions in HR, among other fields at GE, Telekom Austria, IBM and Shire/Baxter
Luiz Rossato Corporate Develop.	2008	 Former Legal Council, M&A and Institutional VP of Magnesita General Counsel of the Year 2012 by International Law Office



EBITDA Sensitivity on an annualised basis

H1 2018 Exchange Rates

vs €	Unit	∆ in EBITDA (€m)	1 € =	Closing Rate	Average rate
USD	+1 cent	4.30	USD	1.16	1.21
CNY	+0.01 yuan	-0.24	CNY	7.70	7.70
BRL	+0.10 reais	2.12	BRL	4.49	4.08
INR	+1 rupee	0.58	INR	79.78	79.13



Find out more at rhimagnesita.com

