



# Leveraging global set-up to accelerate efficiencies through various initiatives

		Global talent pool	Standard operating models	R&D and knowledge multiplier	Speed of implementation	Economies of scale
A STATE OF THE STA	ccs					
	Carbon reduction levers					
	Calcined clay					
	HROC¹					
	Autonomous trucks					
	Transformation Accelerator					

<sup>1</sup> Heidelberg Materials Remote Optimisation Centre



# CCS – successful completion of first industrial-scale CCS plant in Norway



#### **Talents**

- Moving skilled engineers across projects and countries
- Ensuring talent pipeline

#### Multiplier

Leveraging experiences and derisking through pilots (e.g. Mergelstetten, Devnya)

#### **Operating models**

As first of its kind: develop new SOPs and digital solutions to enable future roll outs easily

#### Speed

Leveraging experiences for other projects (e.g. Padeswood)

Pioneering advanced technologies

Ability to multiply and scale to the next projects

First industrial-scale CCS plant with up to 400kt CO<sub>2</sub>/p.a. capacity



# Carbon reduction levers - unlocking further CO2 savings utilising all levers







#### Scale

- 50 different levers to ensure optimum coverage
- Worldwide application in all our cement plants

#### Multiplier

Piloted in two plants first, local best practices to include in global rollout

#### Operating models

Tracking through common platform, embedded in plant operating model for future follow up

#### **Speed**

Common lever list for all our plants – within 3 months

Utilise best practices and scale in all applicable plants

Continuous improvement

1.5mt of annual CO₂ reduction with limited CAPEX providing €50m savings in OpEx



# Calcined clay – cementitious material with global potential



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#### Multiplier

Sophisticated R&D-proven superb applicability, and CO<sub>2</sub> advantage

#### **Operating models**

- Core competence developed for various scalable production methods
- Key knowledge on raw material characteristics

#### Scale

From own plants, to retrofits of rotary kilns to clay addition without modifications

#### **Speed**

Rapid roll out in all areas based on scalable technology

SCM<sup>1</sup> with 80% lower CO<sub>2</sub>

- Comparable strength characteristic
- Scale fast with different technical realisation paths
- Replacing clinker with calcined clay in 15 plants

1 Supplementary cementitious materials



# HROC – Heidelberg Materials Remote Optimisation Centre to be scaled globally



#### **Talents**

20 nationalities support HROC with expertise in Dallas

#### Operating models

**Enhanced standardisation** 

#### Multiplier

One central pilot in North America

#### **Speed**

From idea to realisation in one year

#### Scale

Partial solutions already in remote grinding plants worldwide, new areas to follow in the next 2 years Command and control centre for all NAM cement operations

- Recruiting top staff
- Synergetic improvement of all plants across all relevant KPIs and costs
- Monitoring and control platform for 12 cement plants in NAM with sizeable margin upside



### Autonomous trucks – global rollout with huge scalability potential



#### **Operating models**

Developed at pilot site, easing global rollout

#### Multiplier

Team leveraging experiences for global roll out

#### **Speed**

Parallel rollout in min. 3 sites at the same time, 30 sites in 3 years (100 trucks)

#### Scale

- One global contract with supplier
- Leverage experience on other user models (drills, Front End Loader) and different partners

- Autonomous driving for industrial purpose
- Solution for hard to recruit positions
- Brand agnostic and retrofittable
- Payback < 2 years, implementation plan for >30 sites worldwide



# Transformation Accelerator – achieving efficient and sustainable cost structure



#### Operating models

Blueprints and technological advancement

#### Multiplier

Leveraging automation and digitalisation as well as cost-effective OpEx savings across all business lines

#### **Speed**

Analysis to global rollout in 2 months, worldwide execution in 2 years

#### Scale

Central approach, worldwide application in all countries and all business lines

- Global efficiency programme
- Benchmarking on productivity and cost across all business lines
- Leveraging technology and AI to automate and standardise processes
- ₹500m of recurring savings through scalable technology by end of 2026





# Global advantages accelerating efficiency

Pulling all levers to make decarbonisation a success story – from conventional to CCUS

Implementing scalable innovation at fast pace

Becoming the most efficient operator in heavy building materials

**Next step: "Plants of the future"** 



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