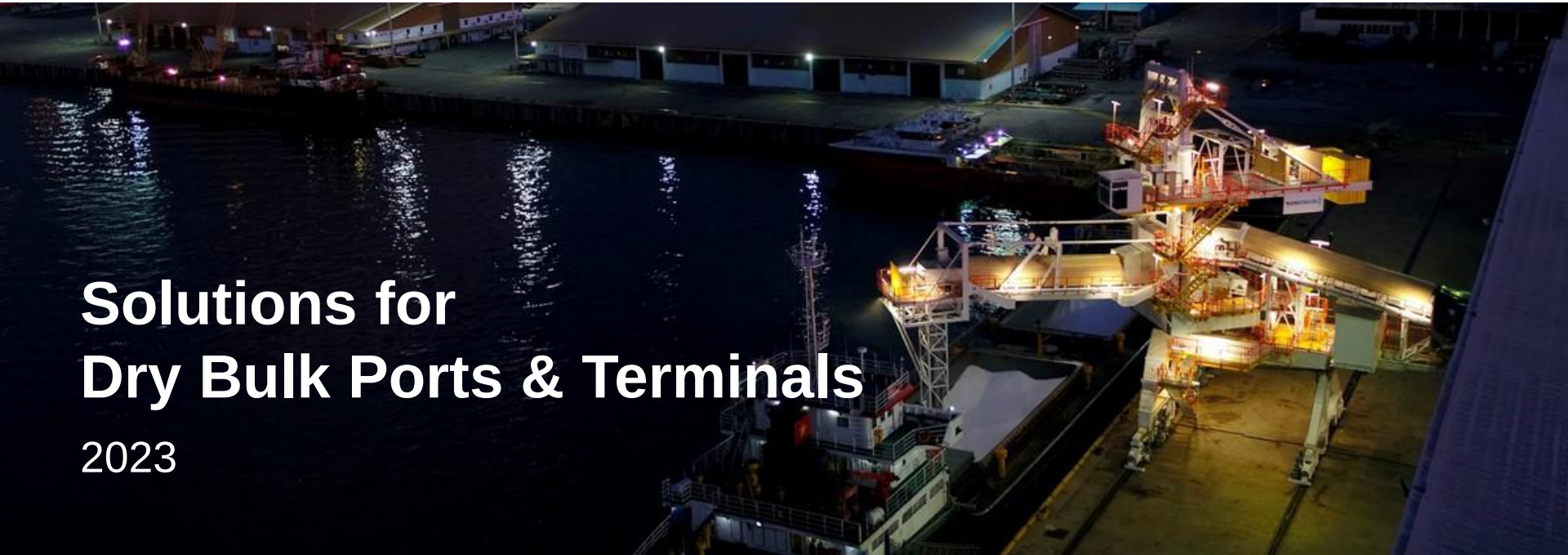


BEUMER Group

Minerals and Mining



Solutions for Dry Bulk Ports & Terminals

2023

- The global goal for us is Zero Harm & Zero Accident Record
- Health & Safety is the strategic priority in the design, management & execution of all our projects
- Our culture of Health & Safety is based on:
 - ✓ ISO 14001; OHSAS 18001
 - ✓ commitment & performance through leadership
 - ✓ human performance through training
 - ✓ continuous improvement involving employees, suppliers and customer
 - ✓ take preventive action before correction
 - ✓ incident investigation and correction





- Company founded in **1935**
- Independent, privately owned in 3rd generation



- Annual turnover of about **1000 million EUR**

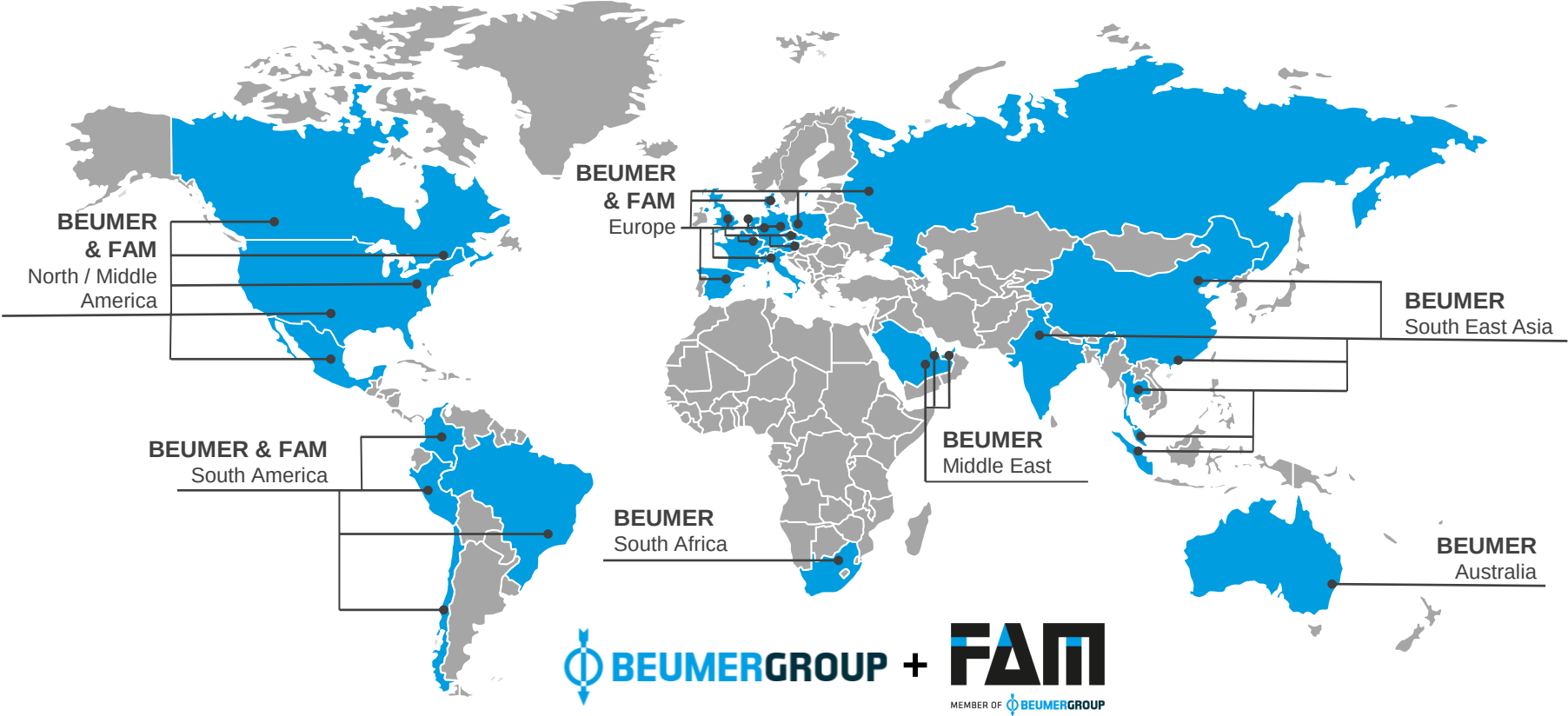


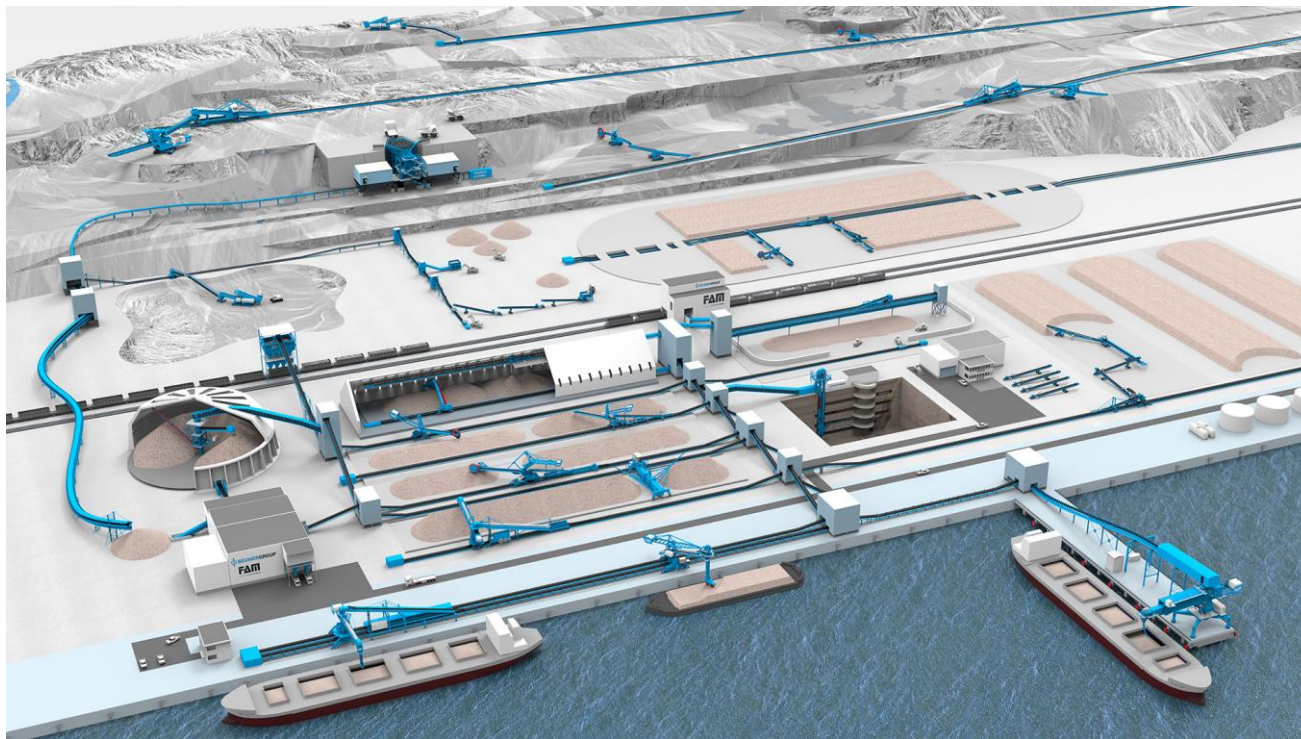
- **+ 4,500** employees



- Strong global setup
- More than **35 group companies**

Global Setup





EFFICIENT BULK HANDLING SOLUTIONS FOR PORTS & TERMINALS

CONVEYING TECHNOLOGY

Short efficient belt conveyor
Pipe Conveyor
Overland Conveyor
U-Shape Conveyor

TRUCK & TRAIN

Train- and Truck Unloading
Train- and Truck Loading

STOCKYARD TECHNOLOGY

Material Storage
Blending Bed

SHIP LOADING & UNLOADING TECHNOLOGY

Ship Unloader
Ship Loader
Eco Hopper
Barge Loader

From Reception to Loading



Ship Unloading

Grab type unloader
continuous ship unloader



Reception

Hopper & Eco Hopper
Belt Feeder, Apron Feeder



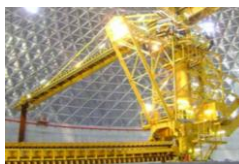
Train & Truck

Waggon Tippler
Train loadout systems
Side/bottom train unloading
Truck unloading & loading



Stockyard Technology

Complete Storage & Blending Beds
Stacker, Reclaimer
Material Transfer Technology



Transport

Trough Belt Conveyor
Pipe Conveyor
U-Shape Conveyor
Dust-Free Conveying



Ship Loading

Stationary or moveable
Slewing & Luffing
Quadrant type



Integration

Weighing, Material Analysis
Crushing, Sizing & Screening
Silo Technology
Dedusting, Dust Suppression
Fire & Explosion Protection



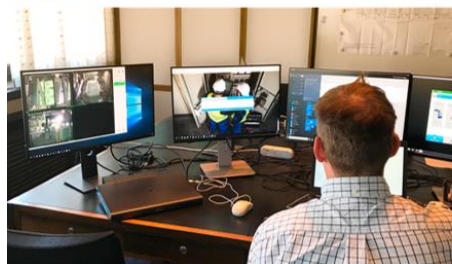
Operation & Maintenance

Residential service
Regular service,
system health
checks
Maintenance
concepts
Spare part logistics
Hotline supports

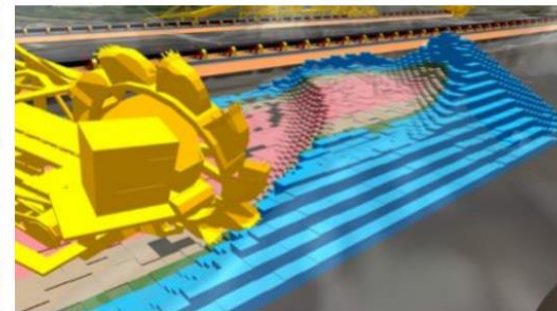
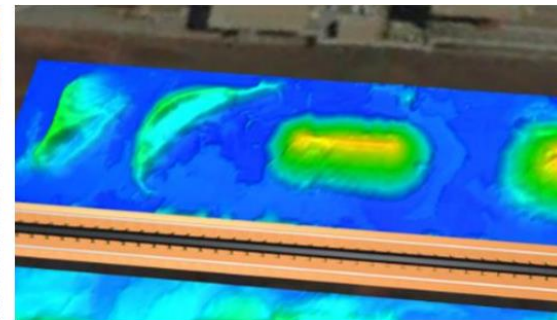


Digital Solutions

KPI-driven data
monitoring
Condition
monitoring,
predictive
maintenance
concepts
Online plant
optimization



Smart Glasses for Off-Site Support



Digital Solutions

Upgrades



Refurbishment

Retrofitting,
modifications

Mechanical and
electrical
reconstruction

Safety assessment
and improvements



Performance Improvement

Site measuring and
analysis, system
health check

Efficiency and
availability increase
by changing of
operational modes

Capacity increase

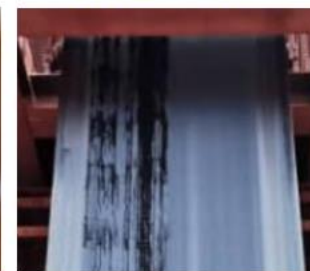
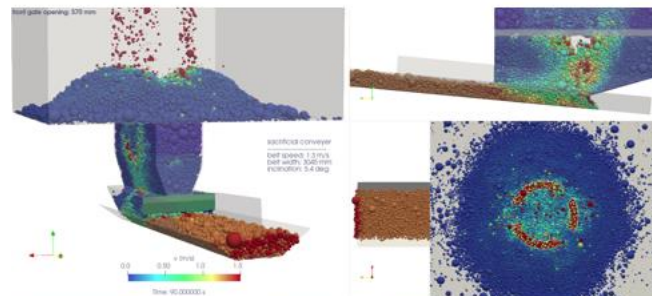


Debottlenecking

Site analysis

Data analysis,
modelling,

Detailed engineering
methods (DEM
analysis for material
flow) and
component analysis



Various References Port Industry

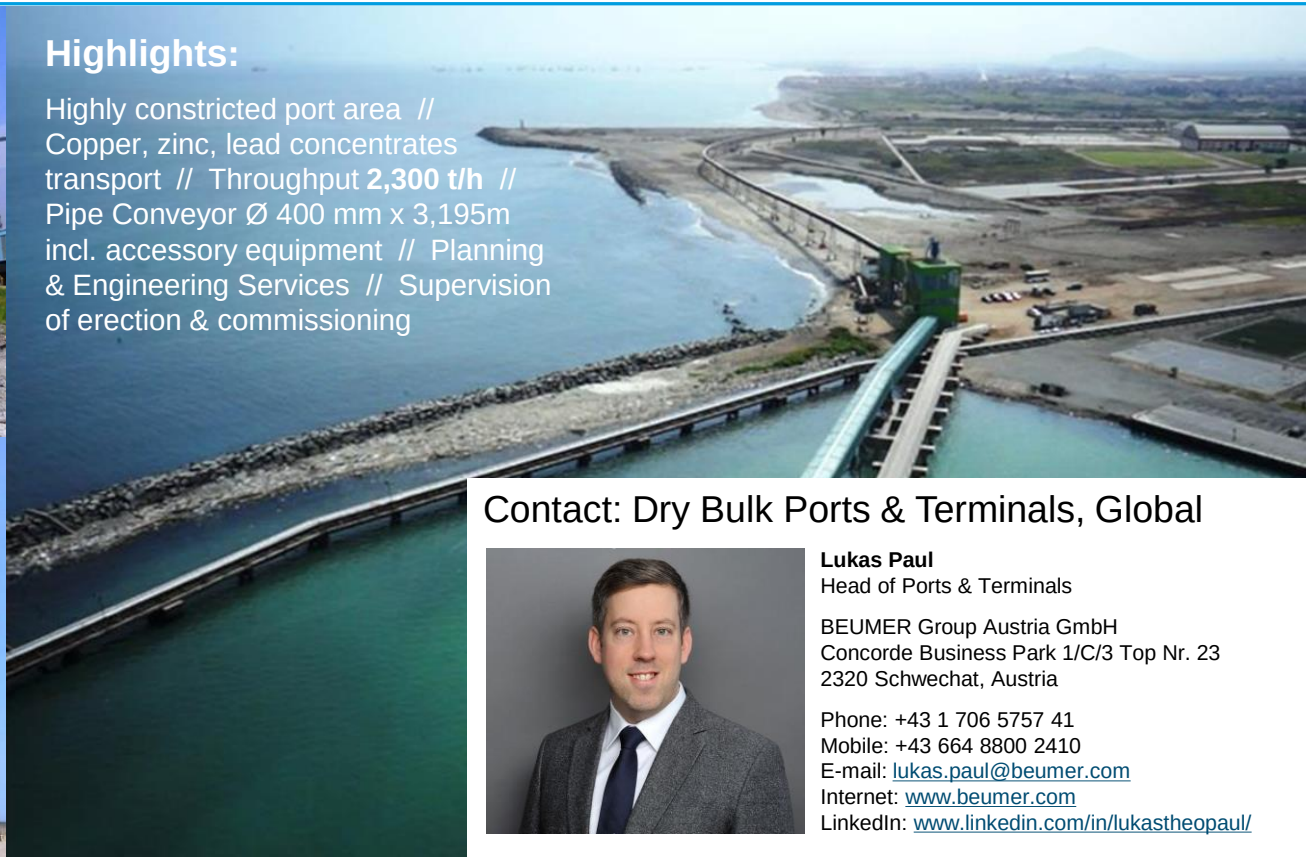


Callao Port, Peru



Highlights:

Highly constricted port area //
Copper, zinc, lead concentrates
transport // Throughput **2,300 t/h** //
Pipe Conveyor Ø 400 mm x 3,195m
incl. accessory equipment // Planning
& Engineering Services // Supervision
of erection & commissioning



Contact: Dry Bulk Ports & Terminals, Global



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BEUMER Group

Minerals and Mining

**"We are looking for the long-term success
and not for the short-term profit."**

Dr. Christoph Beumer
Chairman
BEUMER Group