



SH

FC
110

B-0001

PDT
110

PA=6

VTU

M

100/50

100

P001

V-101
N-2

VTU

WHY VTU ?



NEW TECHNOLOGIES

State-of-the-art design tools



LASTING BENEFITS

Longterm partnership with VTU



TEAM PLAYERS

Highly qualified and engaged



WHY VTU ?



DESIGN



BUILD



QUALIFY



MANUFACTURE





175 Mio. revenue in 2022

1200
employees

32
years
experience

7
countries

36
sites



WE ARE ALL IN A LIFE-SAVING BUSINESS

Expert knowledge and targeted project execution in biotechnology, pharmaceuticals and medical technology.



SAFETY FIRST

For staff, partners and customers.

RELIABLE PARTNER

Project execution from a single point of contact.



32 YEARS EXPERIENCE

In plant engineering, focus on process industry.

OWN TECHNICAL CENTER

Core expertise process engineering.



SIZE MATTERS

Highly qualified engineers and established SMEs.

PARTNERSHIPS

Master agreements with customers.



EXPERIENCE AND TRUST



Lonza

kemira



CLARIANT



SERVICES IN ALL DISCIPLINES



Process Engineering & Simulation

3D Layout / CAD / CAE & Piping

Safety Technology & Risk Analysis

Construction Management

Automation & Digitalization

Civil / Steelwork / Architecture

GMP Services – DQ / IQ / OQ / PQ

MS&T Process Transfer

Project Management

Technical Building Equipment

WE MANAGE



...your acceleration of time-to-market with all aspects about plant life cycle engineering.

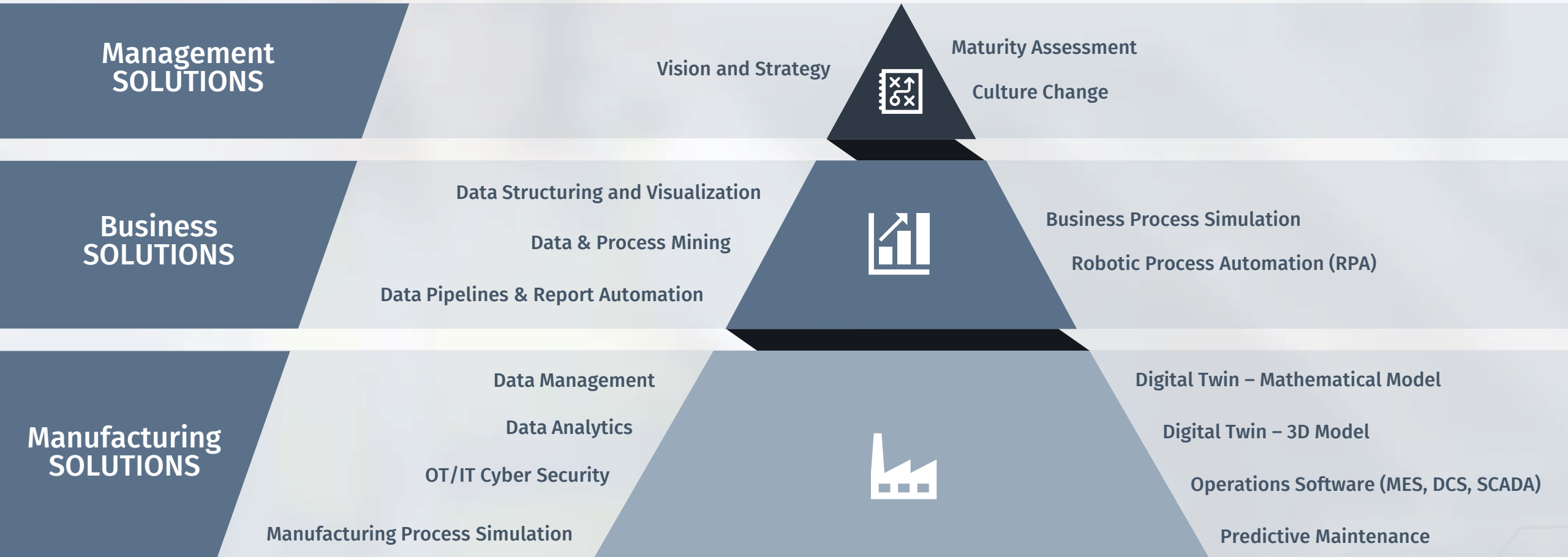


...your plant digitalization, End2End from Vision to Operations

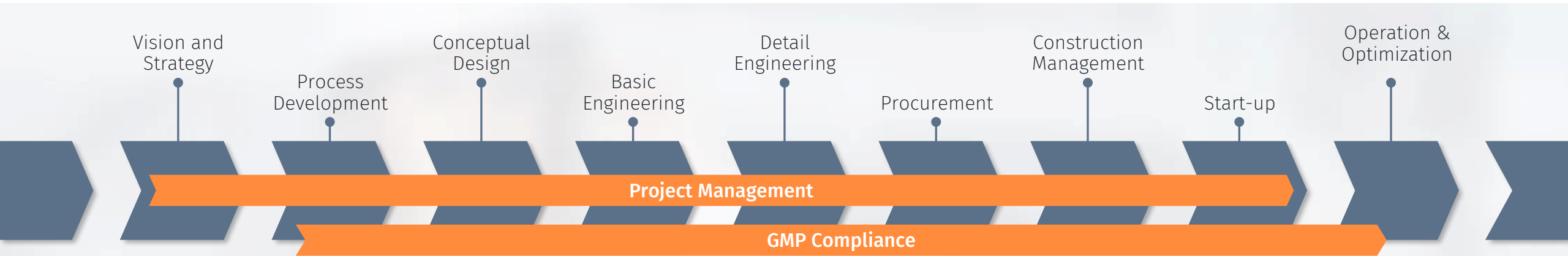


...your innovative and sustainable solutions for a better environment.

OUR PRODUCT PORTFOLIO - DIGITALIZATION



END2END DIGITALIZATION VALUE CHAIN



Digitalization with VTU as



Part of our engineering value chain



Stand-alone product targeting specific requirements

REDUCTION OF ENVIRONMENTAL
IMPACTS AND RESOURCES
CONSUMPTION

→ **Ecological Sustainability**



PROMOTION OF A CULTURE OF
SAFETY, HEALTH AND QUALITY,
WORKER WELLNESS AND INCLUSION

→ **Social Sustainability**



GENERATION OF STABLE AND
SECURE REVENUES FOR A
RESILIENT ECONOMY

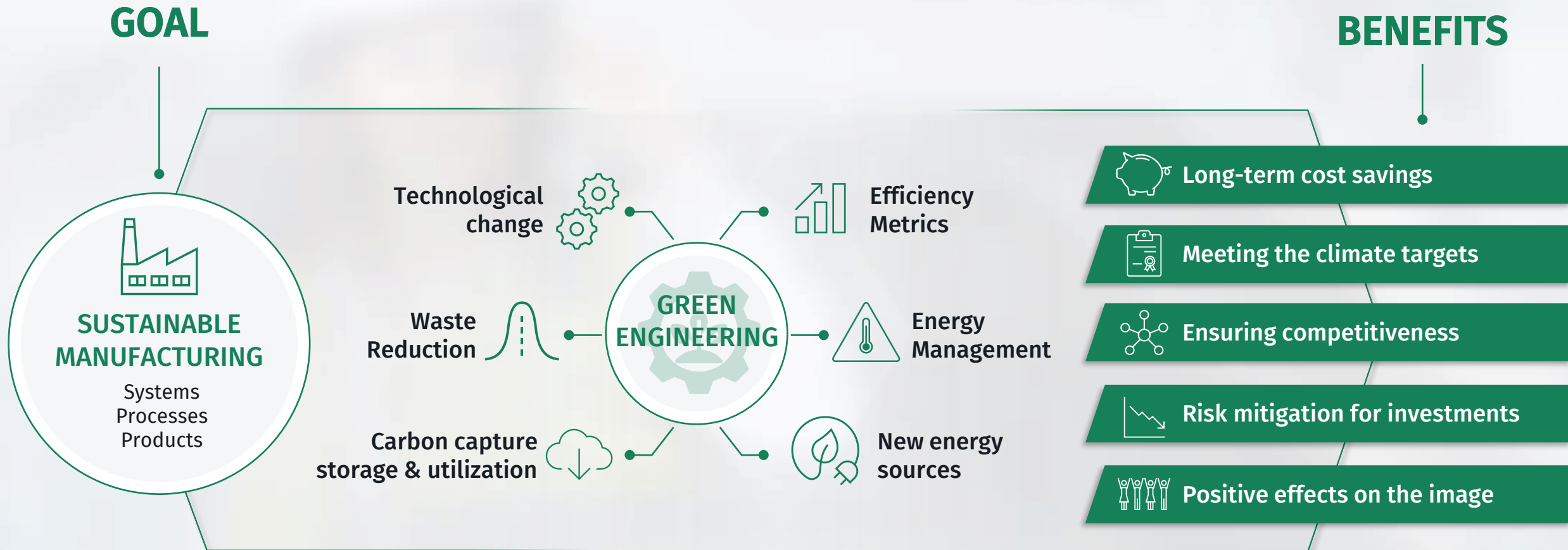
→ **Economic sustainability**



THE TRADITIONAL PARADIGM
BASED ON **COST-TIME-SCOPE**
IS NO MORE ENOUGH

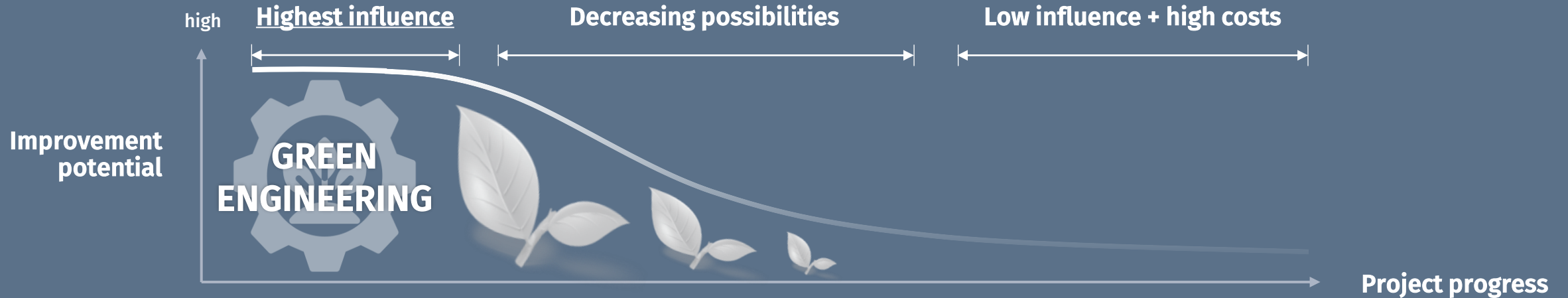
INDUSTRY MUST BE DESIGNED
TOWARDS NEW GOALS, VALUING
SUSTAINABILITY

THE APPROACH MUST BE
INTERDISCIPLINARY, SCIENTIFIC
AND SYSTEMATIC



With an **interdisciplinary approach**, we create innovative and sustainable solutions for a better environment.
This is the **GREEN ENGINEERING method**.

The typical life-cycle of an industrial project



SUSTAINABILITY MUST DRIVE PLANT IDEATION

- R&D and Engineering together
- Culture of Optimization

SUSTAINABILITY AS A DESIGN TARGET

- Sustainable Production Assessment
- Time-Budget-Quality-Environment

SUSTAINABILITY MUST BE MONITORED

- Life cycle assessment
- Industrial Digitalization

GREEN-VALUE ENGINEERING METHOD - EXAMPLE

API production plant expansion in north of Italy VTU was required to review design to obtain **CAPEX BUDGET REDUCTION** and a **GLOBAL IMPACT REDUCTION**.



Identification of **optimization solutions** and implementation of impact reduction strategy **on clear sustainability indicators**.



-1,2M tEq
GWP Potential



-180k ton
Water



-40k ton
Waste



Value improvement strategy and Energy Management **reduce CAPEX and OPEX** costs.



-4,1M €
CAPEX saving



-580k €/y
OPEX saving



+1,6M €
Green Invest.



Construction material savings are tracked throughout the project development.



-21 ton
STEEL saving



-12,6 ton
COPPER saving



+4,3 ton
ALU Saving

THANK YOU FOR YOUR ATTENTION



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