

# Benteler Automotive Raufoss (BAR) Recycling metal & Logistic outlook

2025-10-30 Heidi Kristin Eger, Project Manager Metal



# BENTELER AUTOMOTIVE RAUFOSS VIDEO



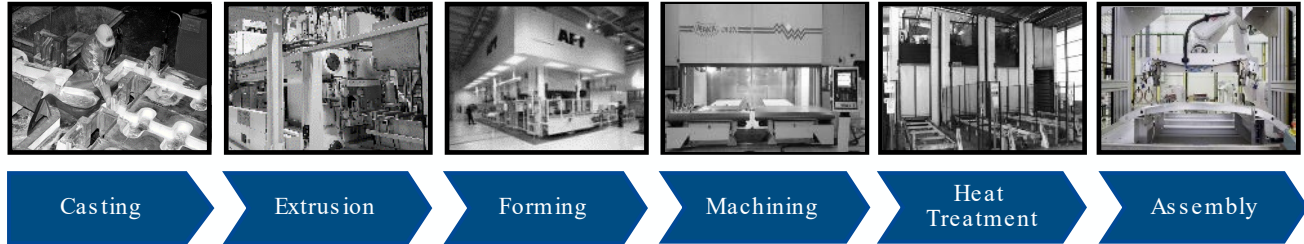
# OPTIMIZED PRODUCTS TOGETHER WITH THE PROCESS

«THERE IS NO PRODUCT WITHOUT A PROCESS AND VICE VERSA»

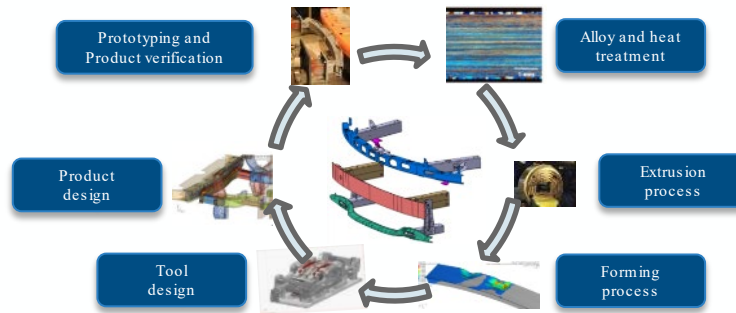


## BENEFIT!

Manufacturing value chain



“Engineering value chain”



Benteler engineering team support the complete development process – from material requirements to verification of final product

## BENTELER AUTOMOTIVE LOGISTIC FACTS & FIGURES



Production volume per year (mT)	➔	48.000 mT
Lead time total value chain	➔	25 days
No of produced parts/yr	➔	17 Mio
No of product variants	➔	600
No of trucks outbound	➔	2.500/yr – 50/week
No of trucks inbound/yr	➔	1.500/yr – 30/week

Fully integrated MES/ERP solutions ➔ Prerequisite to react and respond in demanding market

# BAR GREEN: INCREASED RECYCLING CONTENT

## MANDATORY CUSTOMER REQUIREMENTS



**MERCEDES (VANA)**  
Aluminium: 40 %



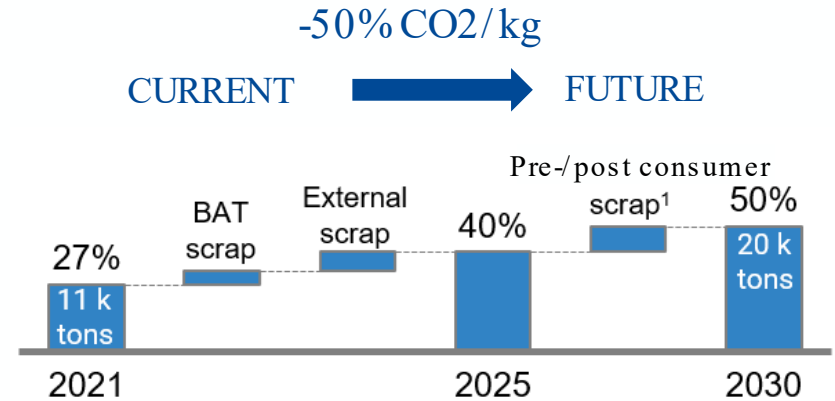
**VOLVO (GPA)**  
Aluminium: 55 %



**BMW (GP50)**  
Aluminium: 65% → 80%



**PORSCHE**  
Aluminium extrusion:  
11% post-consumer  
27% pre-consumer



# INCREASED RECYCLING CONTENT FOR ALUMINIUM PRODUCTS FROM BENTELER CAST HOUSE RAUFOSS

## MAIN WORK PACKAGES

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Required **building extension** (e.g., for scrap handling and storage)



Different upgrade of **existing equipment** and **new equipment** required to process the scrap.



**Sourcing of scrap** with required material properties internally (e.g. oil reduction initiatives) and externally.

**Reuse energy** from process (exhaust and cooling water)



## TIMING

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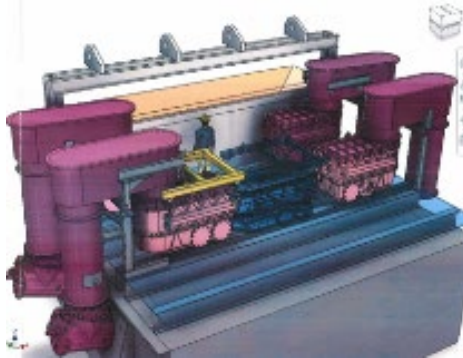
**TIMING OF MAJOR WORK PACKAGES ON TRACK**

- Building implementation according to time schedule (finished by 01.11.2025)
- Equipment and process installation with minor delays – production tryouts can start from 11/2025

# CAS THOUSE EXTENSION

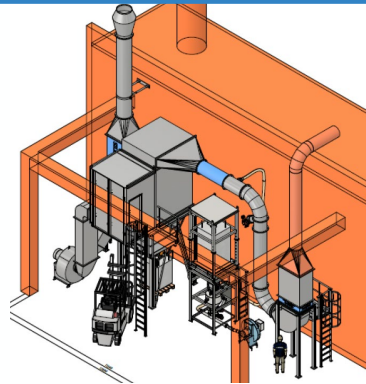
## REGENERATORS

Adapted to process new external scrap types



## DUST FILTER

To meet requirements regarding emission permission



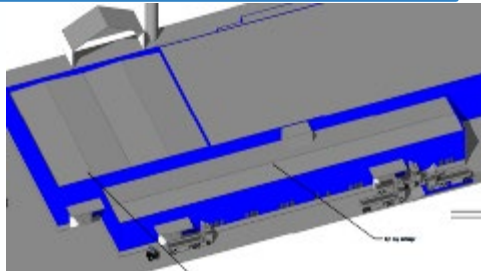
## OXYGEN LANCES

Burning smoke from contaminated scrap



EQUIPMENT

BUILDING EXTENSION - ~ 4.400 m<sup>2</sup>



## EXTERNAL ALU SCRAP

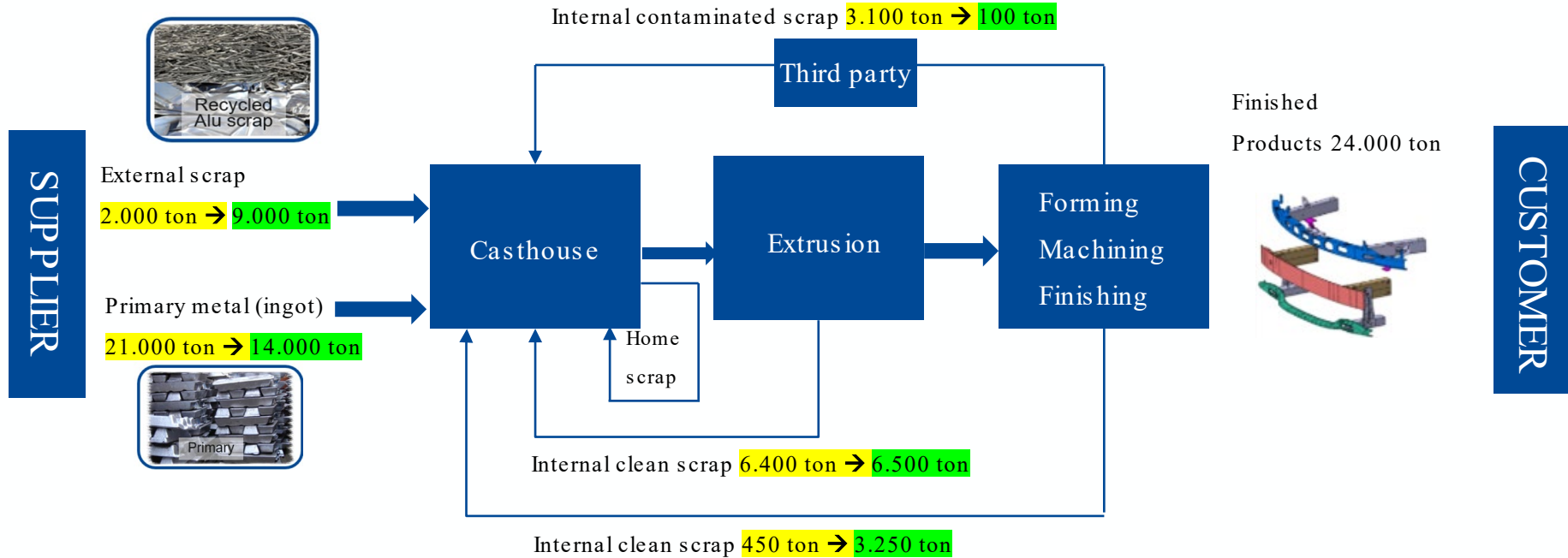
new challenges and processes (purchasing, handling alloying, quality)



BUILDING & INFRA

# BENTELER AUTOMOTIVE RAUFOSS

## METAL MATERIAL FLOW AS IS (2025) → TO BE (2030)

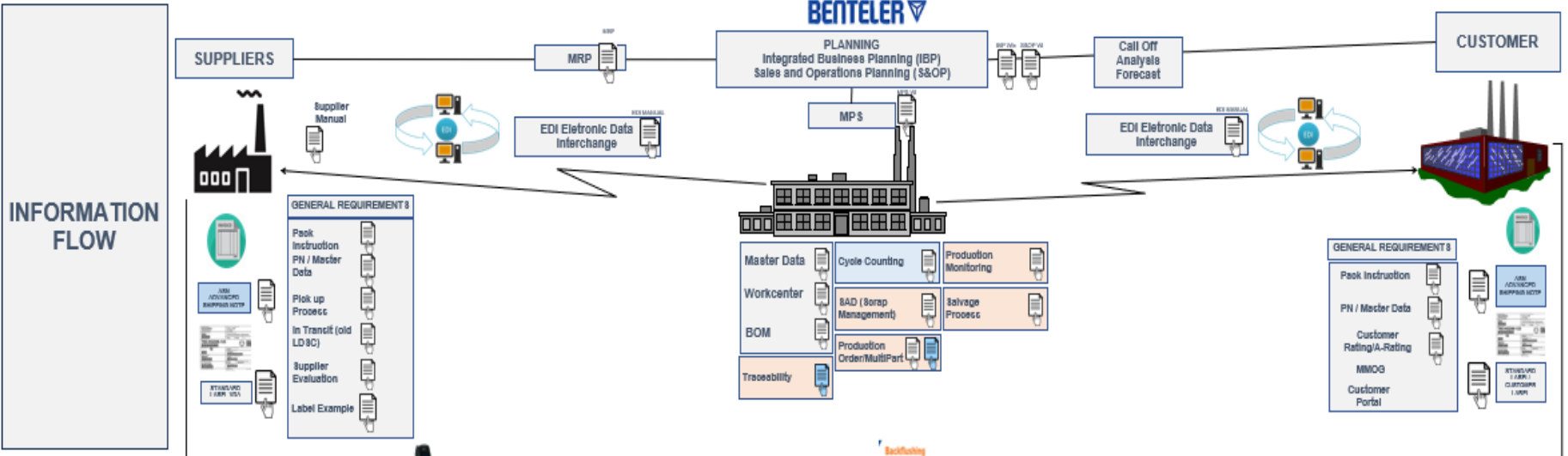


# BENTELER AUTOMOTIVE SCM INFORMATION FLOW



Fully integrated MES/ERP solutions → Prerequisite to react and respond in demanding market

## SUPPLY CHAIN INFORMATION LOGISTICS PROCESS FLOW



## STATUS AND CHALLENGES WITH MORE RECYCLING METAL

- INCREASED EXTERNAL TRANSPORT

- El-solutions is a cost issue → will not be covered by customer
- Governmental support !
- Ongoing project Industrial park (Planet 2030) → Pilot El-trucks



- INCREASED INTERNAL TRANSPORT

- Infrastructure does not allow for autonomus solutions
- No el-solution currently assessed or available (cost)



- MORE COMPLEX AND DEMANDING SUPPLY CHAIN & PRODUCTION PLANNING

- Inventory management
- Charging process in Castehouse
- Sourcing/Purchasing strategy – Localization, Volume/price, Timing, Logistic solutions



We make the difference – as ONE Team

**WE MAKE IT  
HAPPEN**

