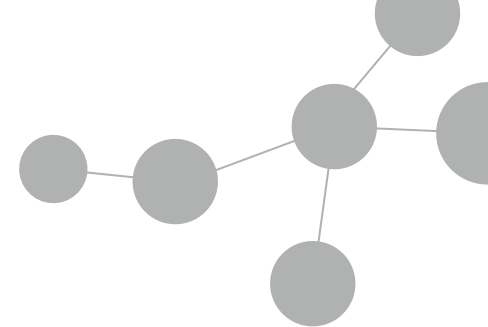




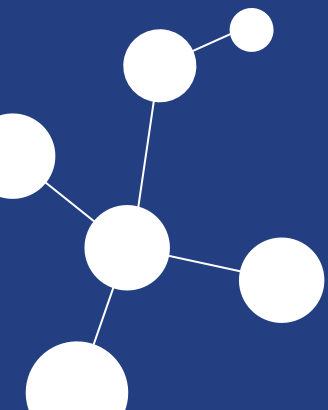
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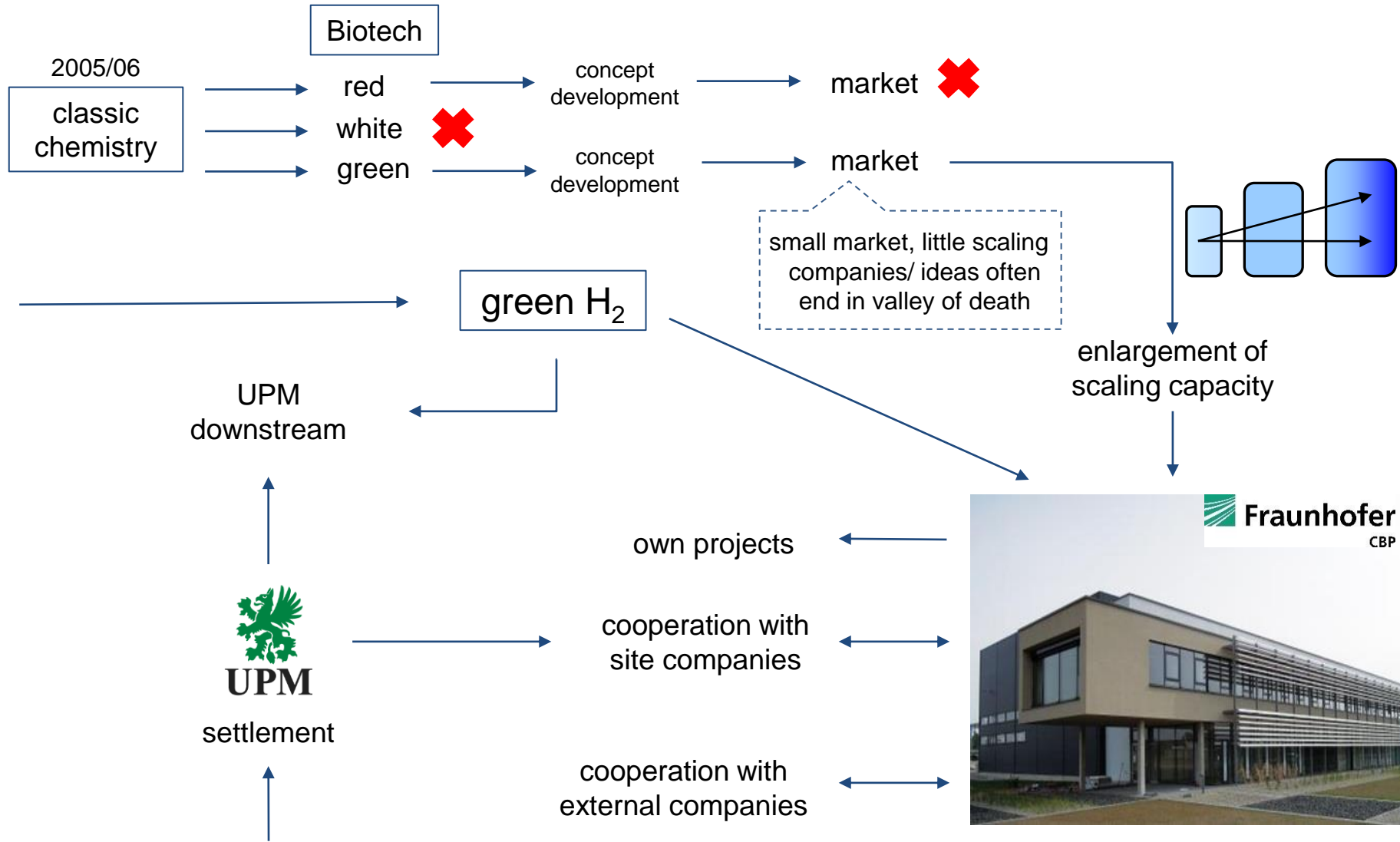
# BIOECONOMY

A GAME CHANGER FOR THE CHEMICAL SECTOR?

INFRALEUNA GMBH  
14.04.2021



# Development of Bioeconomy in Leuna





# Key Facts of UPM

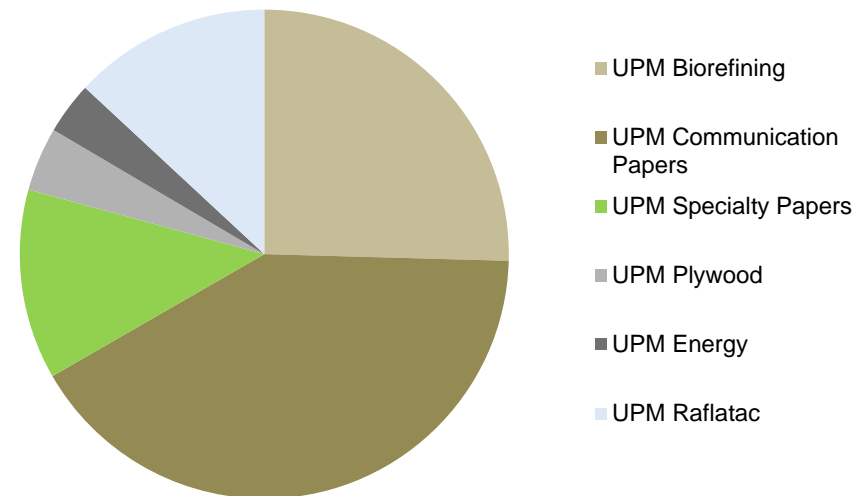
## Project EOS:

- resource is hardwood from sustainably managed, central european woods
- products:
  - Bio-Monoethylenglycol
  - Bio-Monopropylenglycol
  - Lignin
- investment in Leuna ca. 550 mil. €, about 100 direct employees
- start-up scheduled for the beginning of 2023

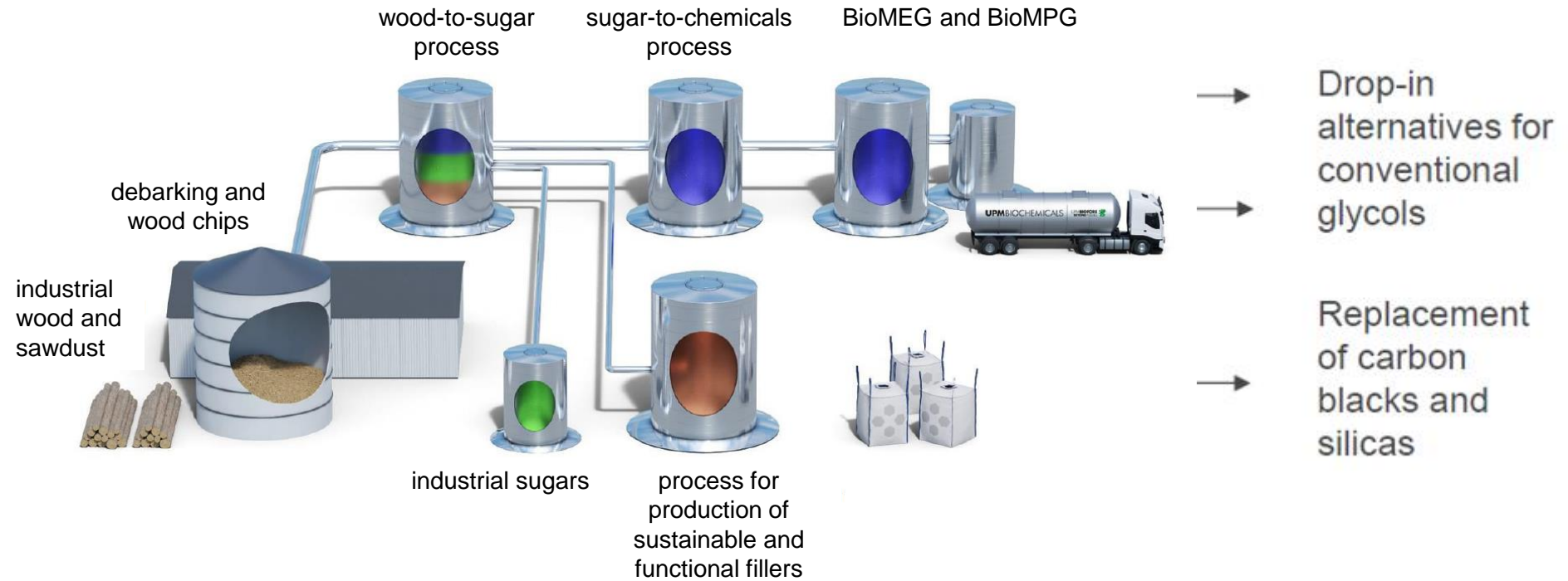
## UPM = **U**nited **P**aper **M**ills

- Finnish company, founded more than 150 years ago
- globally active; largest paper producer in Europe
- 6 different sectors
- ca. 20,000 employees
- listed on stock, Nordea (35 %) and Enskilda Bank (25%) are largest shareholders, residual shares are free float

Turnover 2018: ca. 10,5 bn. EUR



# UPM Biorefinery Process



Source: UPM

# Competitiveness of sustainable product alternatives



bMEG

## Mono Ethylene Glycol

- Existing fossil-based market
- Market demand > 26 mio tons
- CAGR >3%
- Application examples:



Textiles



Bottles & Packaging



Deicing fluids



bMPG

## Mono Propylene Glycol

- Existing fossil-based market
- Market demand >2 mio tons
- CAGR >5%
- Application examples:



Composites



Pharma & Cosmetics



Detergents



## Lignin

- Performance chemical
- Application driven
- Strong IP position
- Application examples:



Wood resins



Plastics

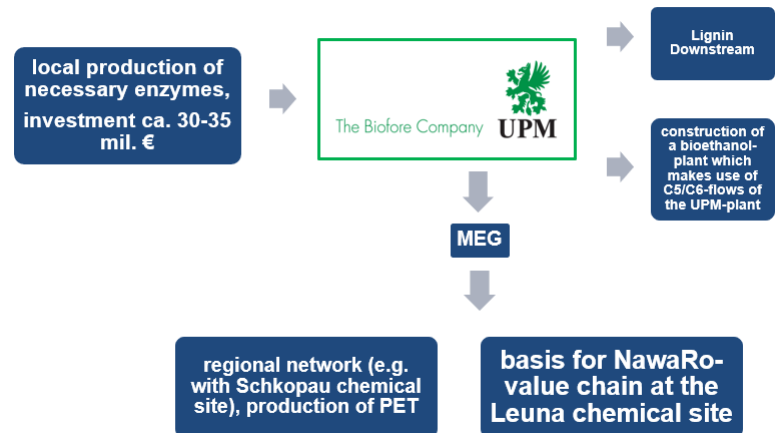
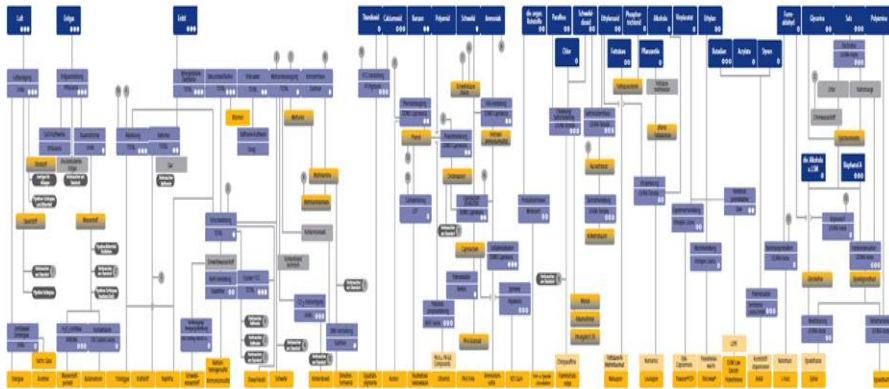


Foams & Coatings

Source: UPM

# Strategical Significance of UPM's Investment in Leuna

- UPM is a pioneer company when it comes to sustainable alternatives
- by choosing Leuna as their newest plant location, UPM sets the tone for future investments and leads to other companies' interest in Leuna
- wood functions as a new resource in the site internal network and for the main product lines







INFRALEUNA®



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