



**FORCING  
THE PACE**

PASSION CREATES INNOVATION

# Austrian Audio Worldwide Roadshow #2

## PAUL RETTENBACHER, IR

Vienna, 12 November 2021



# POLYTEC AT A GLANCE



**~3,600**  
EMPLOYEES



**522 MIO**  
SALES REVENUES



**35 YEARS**  
OF EXPERIENCE

Technology-independent  
developer and manufacturer of  
high-quality plastic solutions

Automotive and  
non-automotive industry



# LOCATIONS

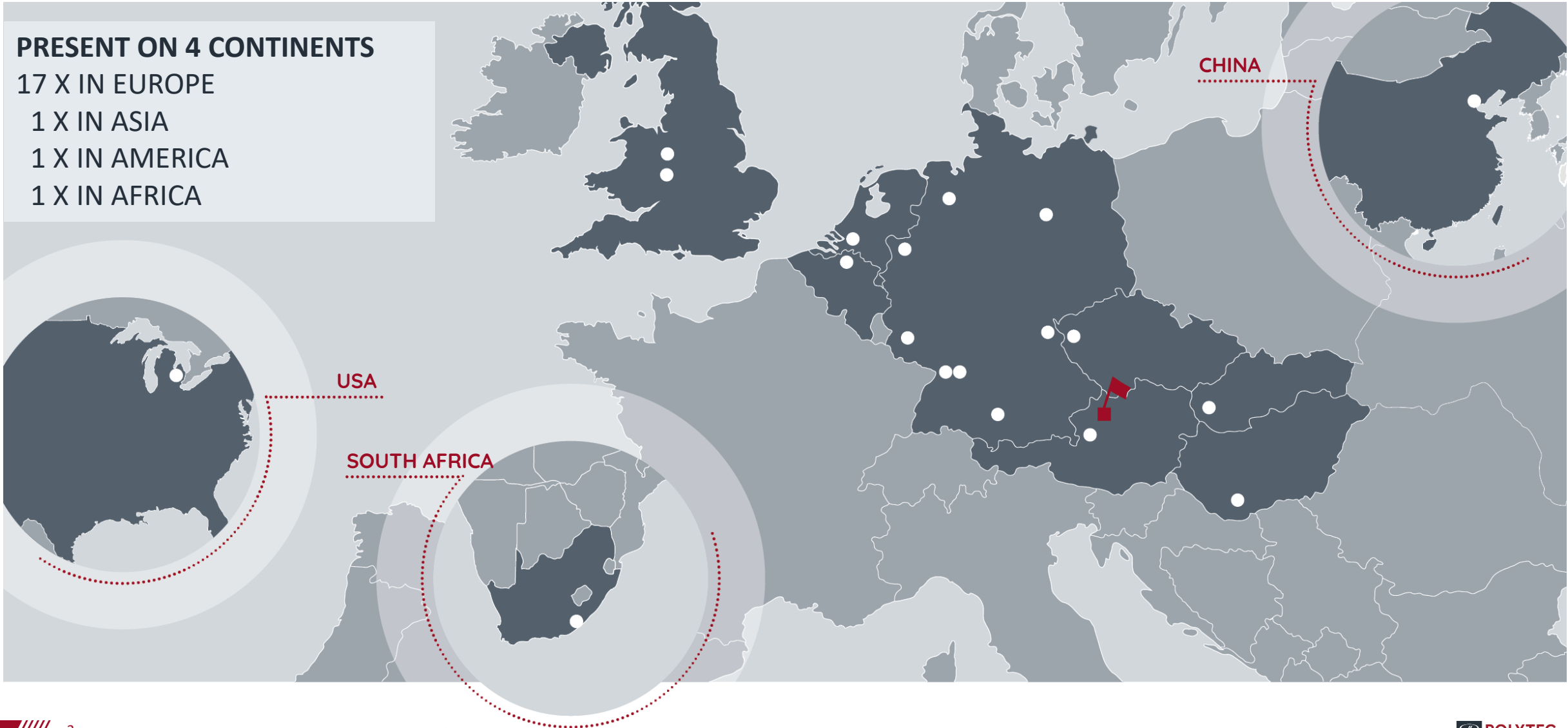
## PRESENT ON 4 CONTINENTS

17 X IN EUROPE

1 X IN ASIA

1 X IN AMERICA

1 X IN AFRICA



# INVESTING IN NEW PLANTS

## ■ Tianjin (PRC)



## ■ Telford (UK)



## ■ East London (RZA)



# STRATEGY

1

Strengthening of the  
market position in Europe



2

Development of new  
technologies and applications



3

A focus on customer  
benefits





# TECHNOLOGICAL DIVERSITY

## INJECTION MOULDING

2k injection moulding  
Multi-component injection moulding  
Assembly injection moulding  
WIT (water injection technology)  
GIT (gas injection technology)  
PIT (projectile injection technology)  
In-Mould-Decoration  
Injection-Moulding-Compounding  
High-gloss technology

Up to 4000 tons clamping force



## COMPOSITES

Production of glass fibre SMC  
Production of carbon fibre SMC  
SMC/LFT/GMT compression moulding  
UD-Tape application  
Hybrid compression moulding (LWRT-LFT)  
Wet pressing  
In-Mould-Coating  
In-Mould-Painting

Up to 4300 tons clamping force



## SMALL SERIES TECHNOLOGIES PRE- & POST-PROCESSING

Class-A paint coating  
PUR RRIM / RRIM Lightweight  
PUR rigid / semi-rigid  
PUR-processing (moulding parts)  
PUR spraying  
PUR casting  
PUR foaming  
Blow moulding  
Processing of metal & premium steel

Up to 630 tons clamping force

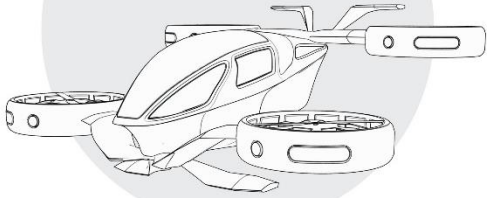


Just-in-Sequence-Delivery  
Tool making  
Mechanical engineering (multi-component dosing system)  
Testing & Validation  
Trimming & Cutting (milling, laser, water jet)  
Joining & Welding (hot gas, ultra-sonic,...)

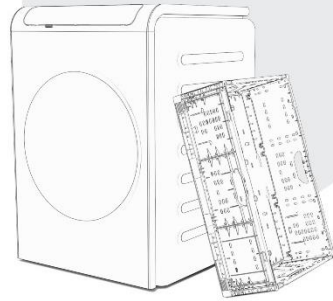


# POLYTEC PRODUCT LINES

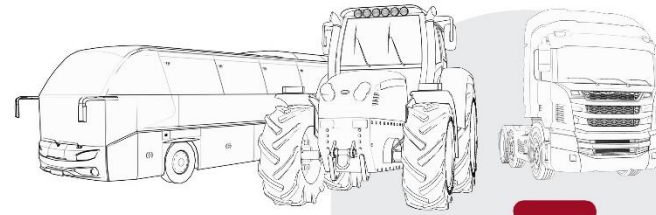
**1** NEW  
MOBILITY



SMART PLASTIC  
APPLICATIONS



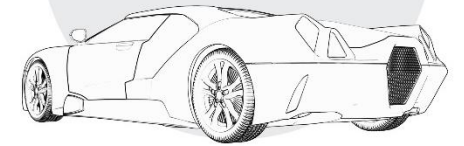
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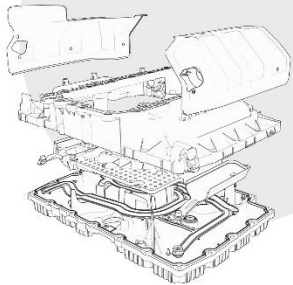
TRUCK, BUS &  
AGRICULTURAL  
APPLICATIONS

**3**

**4** PAINTED  
EXTERIOR >  
SPECIAL SERIES



POWERTRAIN  
SOLUTIONS



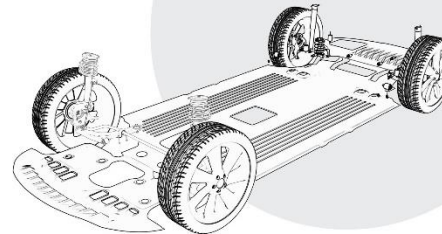
**5**

POWERTRAIN  
ACOUSTICS



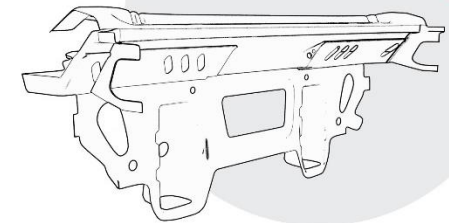
**6**

UNDERBODY  
SOLUTIONS



**7**

STRUCTURAL  
INNOVATIONS



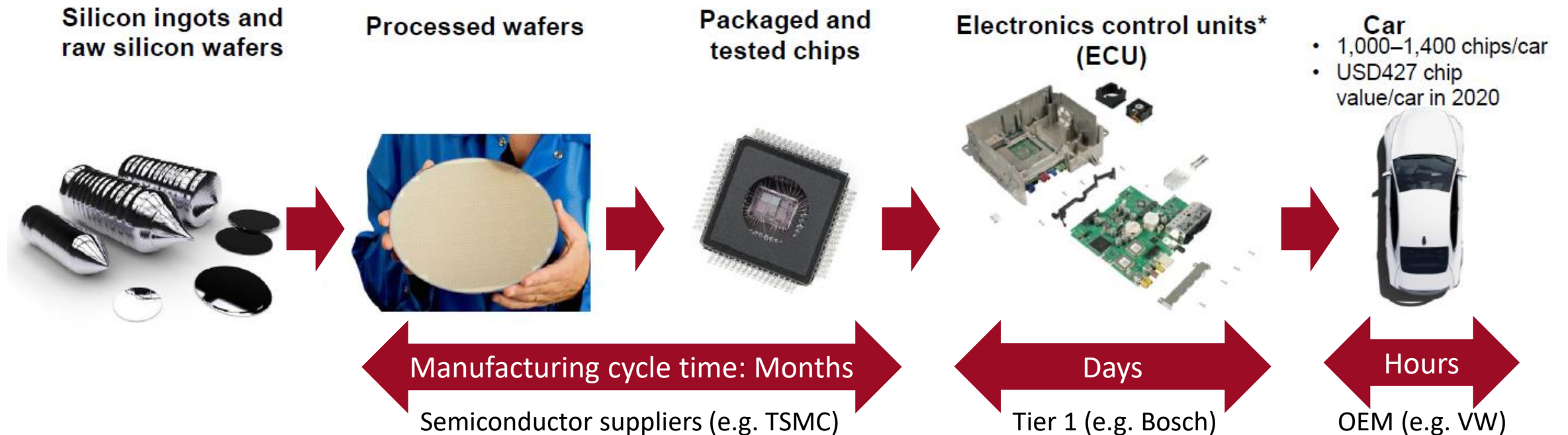
**8**

# CHALLENGES





# SEMICONDUCTOR SHORTAGE – WHEN WILL IT END?



- Excessive dependence of automotive chips on TSMC (56%)
- Automotive lost priority – now cell phones, gaming, 5G, ...
- Automotive use the more “old-fashioned” chip technology
- Building/maintaining chip plants is expensive – should suppliers (still) invest in old technology ? Capacities?
- “Toilet paper Syndrome” (mismatch between orders and real demand: 130 million cars vs. 76 million)
- China stockpiling chips (price offers +150 to 500%)
- Car prices rising, chips have long lead time (now >50 weeks, normally 14-20 weeks) and backlog demand (on stock)
- Chip shortage should start to ease in 2022?

Source: IHS Markit, September 2021



# ESG – SUSTAINABILITY

# STRATEGIC ENVIRONMENTAL OBJECTIVES

## RESOURCE CONSERVATION



- Reduced consumption of natural resources through focus on lightweight construction and functional integration
- Increased use of recycled materials

## ENHANCED ENERGY EFFICIENCY



- Use of modern and environmentally friendly equipment
- Installation of highly efficient heat recovery systems
- Consistent use of sustainable LED lighting

## REDUCED ENVIRONMENTAL EMISSIONS



- Increasing the share of energy from renewable sources
- Investment in photovoltaic systems



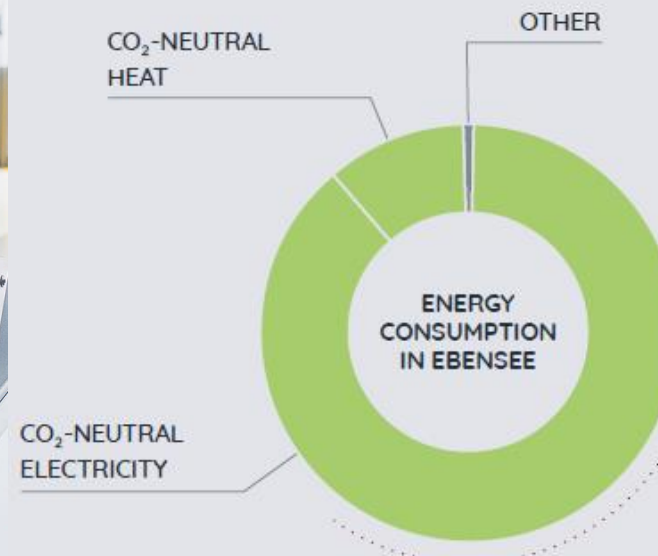
# POLYTEC ENERGY AND ENVIRONMENTAL TARGETS

Target definition	Dimension	Key indicator
<b>Strategic objective: Resource protection</b>		
Reduction of raw material consumption through an improvement in the reject ratio	15% by 2023	kg/kg
Increase in the recycling share through project realisation	minimum 2 projects p.a.	number completed pro.
<b>Strategic objective: Increased energy efficiency</b>		
Reduction in energy consumption (base load)	20% by 2025	kWh/EUR k
Reduction in electricity consumption due to compressed air leakages	50% by 2025	kWh/EUR k
Equipping of all plants with energy monitoring	realisation by 2025	number of plants
<b>Strategic objective: Environmental emission minimisation</b>		
Establishment of monitoring for carbon footprint (CFP) and reduction (Scope 1 and 2)	20% by 2025	%
Reduction in waste quantities through improvement of the reject ratio	15% by 2025	%
Increase in the share of recyclable waste through improved waste sorting	0.75%/year & 8% by 2025	%
Uniform hazardous material management	realisation by 2022	
Development of innovative products (e. g. lightweight design), which through their use reduce environmental emissions	minimum 2 projects p.a.	number completed pro.

# CO<sub>2</sub> NEUTRAL PLANT IN EBENSEE (AUSTRIA)



**A ROLE MODEL  
FOR THE  
POLYTEC GROUP:**  
CLIMATE-NEUTRAL  
COOLING, HEATING  
AND PRODUCTION  
IN EBENSEE





# PLANT EBENSEE

- Ground area: 82,000 m<sup>2</sup>
- Buildings: 34,000 m<sup>2</sup>
- Personnel: 187 (152 + 35 leasing p.)
- Automotive products, e. g. for trucks
- Logistic boxes (food retail)





# RECYCLING OF IFCO LOGISTIC BOXES IN THE PLANT

- The recycling facility was agreed in the course of the IFCO supplementary order
- Returned damaged boxes are granulated
- Ground polypropylene plastic is temporarily stored in silos
- On demand, the PP is conveyed to the moulding machines and processed again into new boxes

- + Conveyor belt with metal detector
  - + Cutting mill for wet material
    - + Friction separator
      - + Separator containers
        - + Drainage screw
          - + Mechanical drier
- + Material transport into the silos after dedusting
  - + Mechanical process water treatment
- + Extended water treatment (possible expansion project)



# POLYTEC PHOTOVOLTAIC PROJECTS

- Electricity from renewable energy sources will make a significant contribution to CO<sub>2</sub>-neutral production at POLYTEC.
- POLYTEC already covers a large part of its electricity needs with green electricity (100% in AT).
- Furthermore, suitable roof surfaces of the POLYTEC sites will be equipped with photovoltaic systems from 2021.



Plant Wolmirstedt (DE)



Plant Lohne (DE) – Symbol photo

Plant Hörsching (AT)



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