

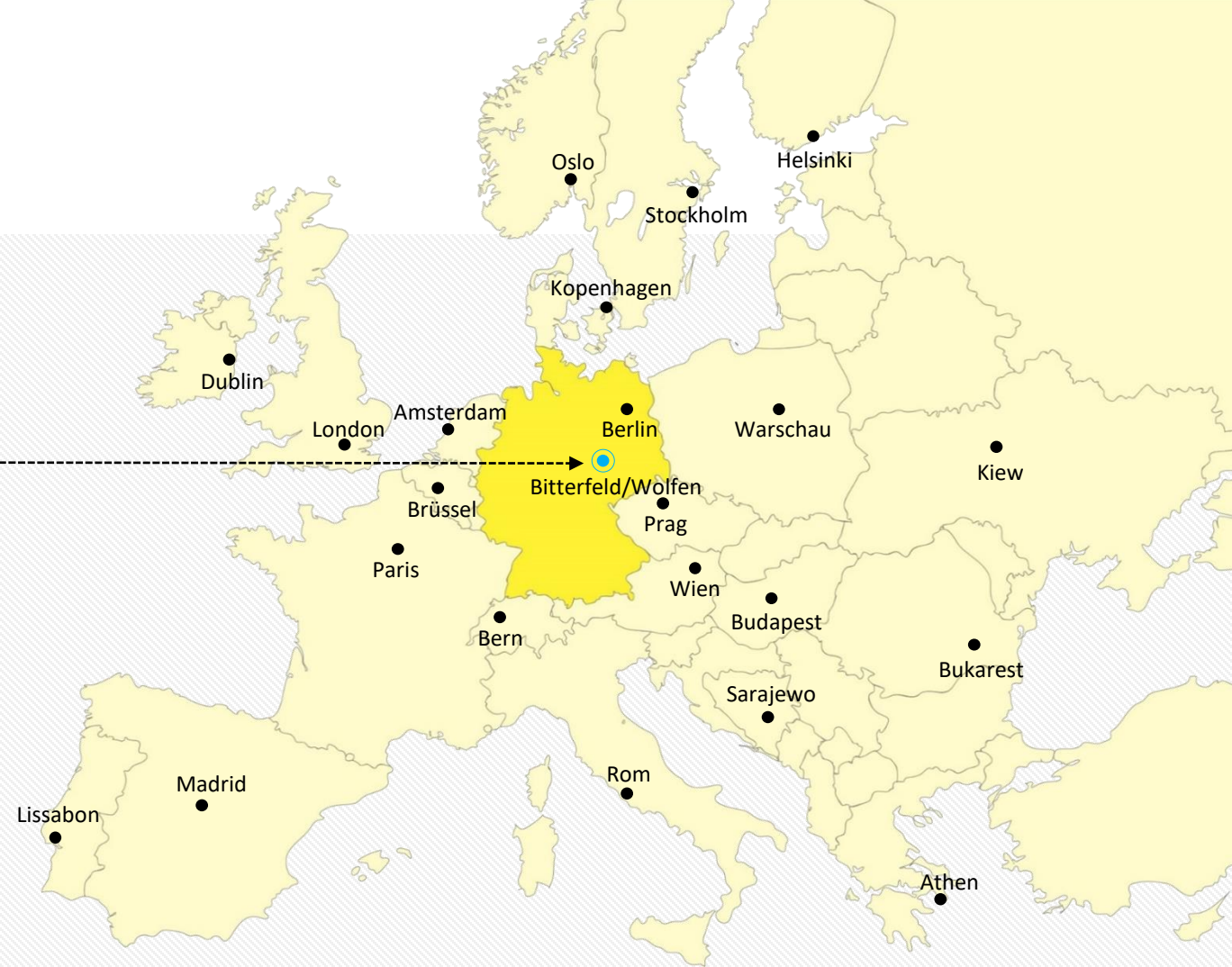


Your reliable Partner for Custom Synthesis

Corporate Presentation

ヒドラス化学株式会社 TEL.03-3258-5031 FAX.03-3258-6535 info@hydrus.co.jp www.hydrus.co.jp 2024

„Located in area of long-lasting chemical tradition and complete infrastructure“

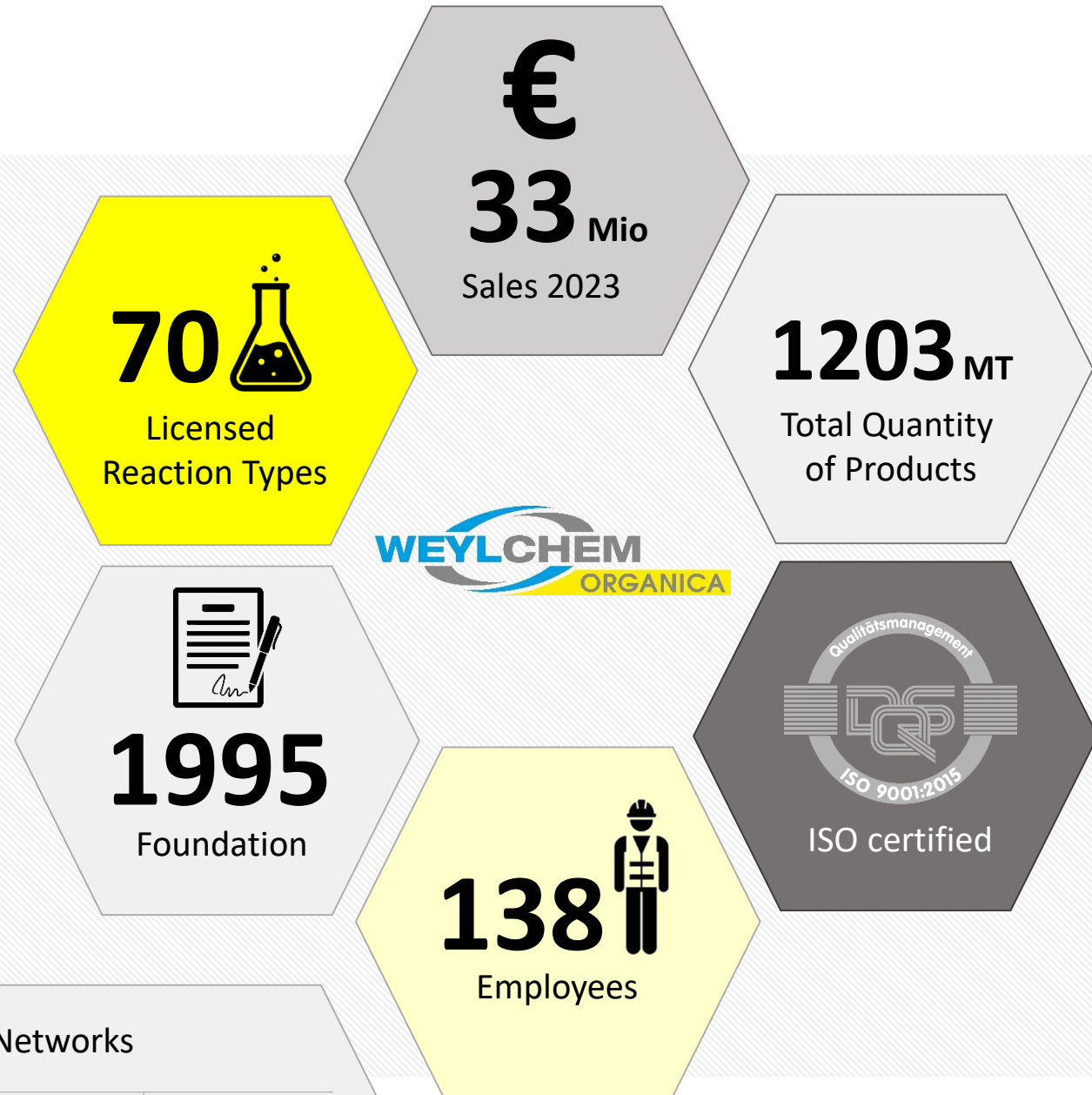


Locational Advantages

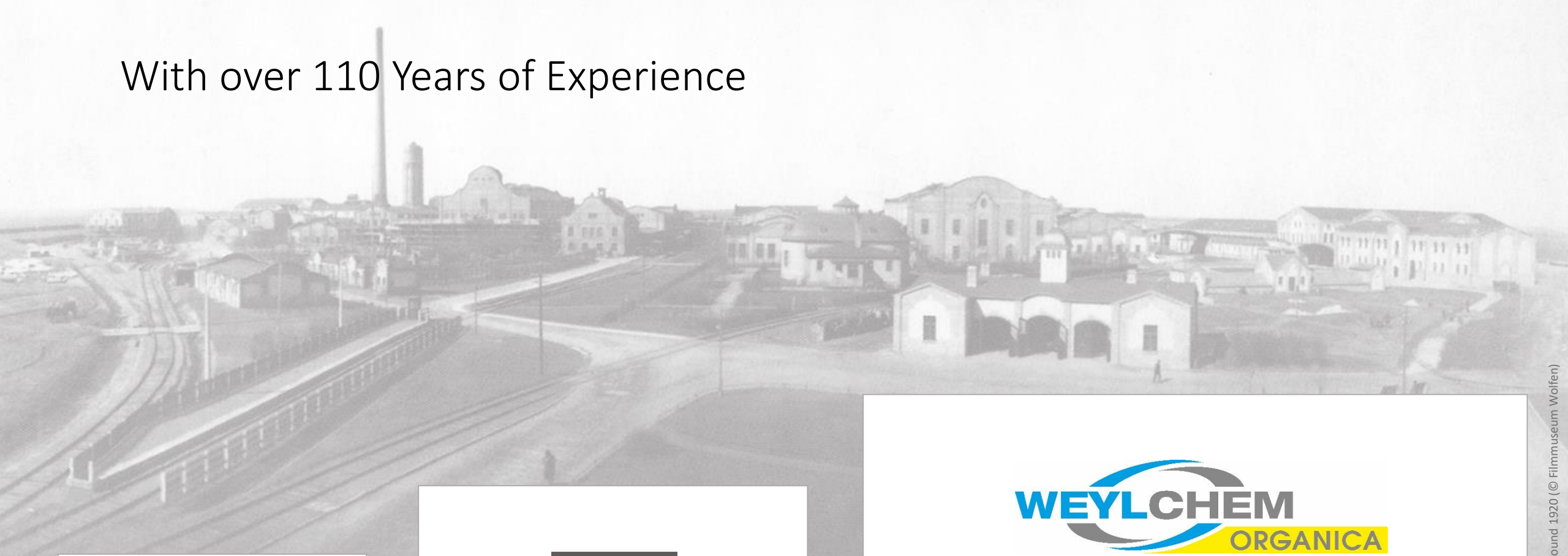


- Increasing the Added Value of the Companies through Joint Projects
- Various Service Offers to increase Competitiveness
- Social Acceptance

Our Core Business: Custom Synthesis



With over 110 Years of Experience



Agfa Filmfabrik Wolfen

1910



VEB Film- und Chemiefaserwerk Agfa Wolfen
Later: VEB Fotochemisches Kombinat Wolfen

1953



2023



1995

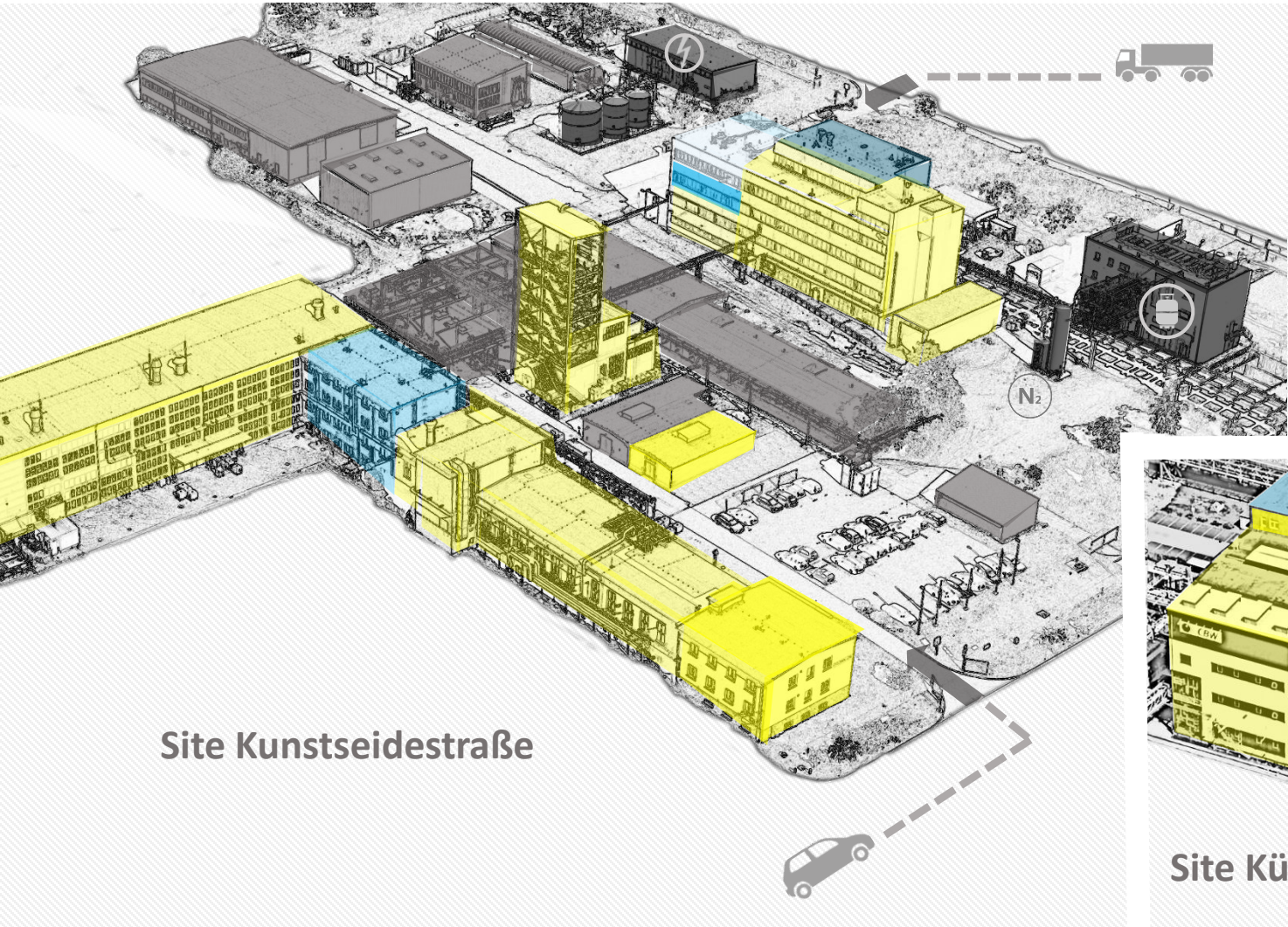


1997

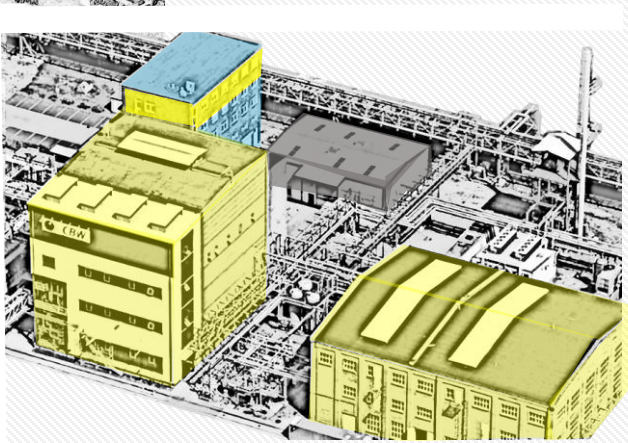


2022

2 Sites – Customization in Production



Site Kunstseidestraße



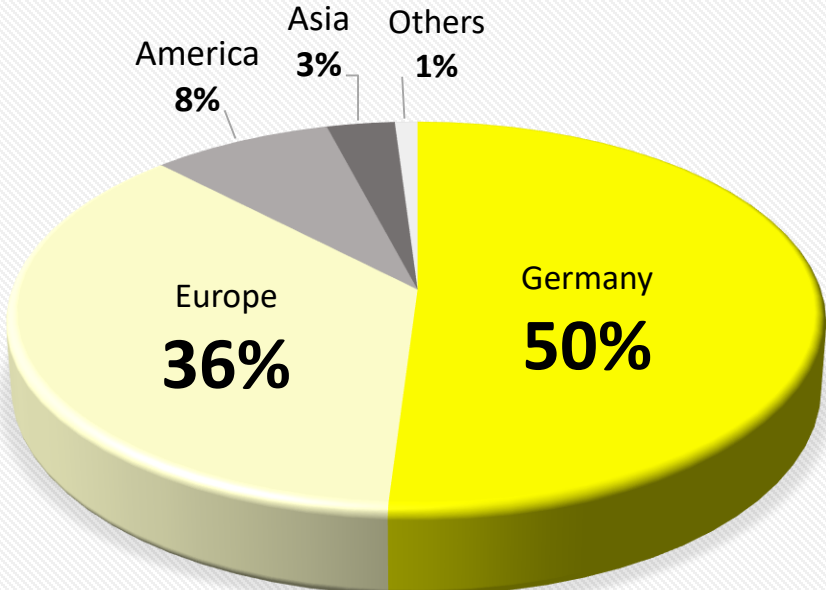
Site Kühlturmstraße

- 10 Engineering ■
- 8 Research & Development □
- 5 GMP ■
- 10 Warehouse ■
- 19 Analytics ■
- 64 Production ■
- 20 Management & Administration ■

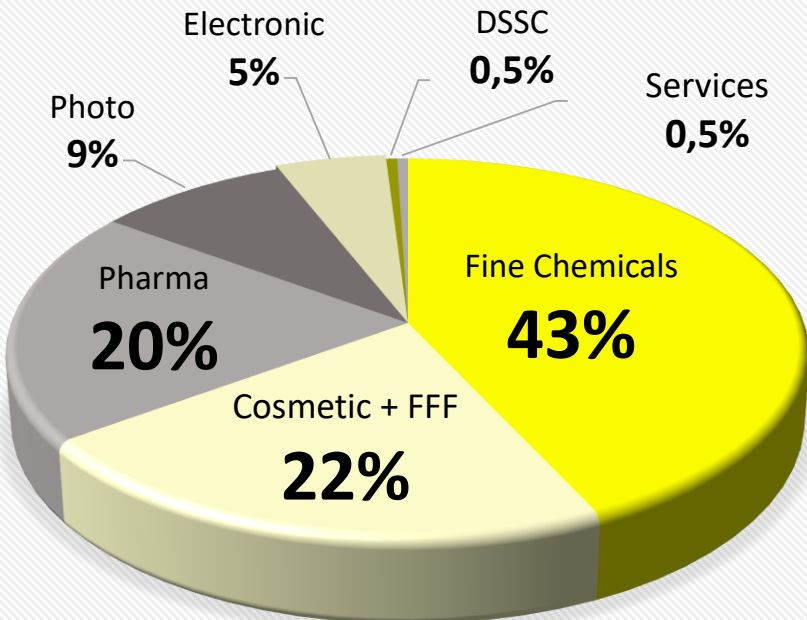
138 **Total**

183 different Products delivered to 177 Customers in 31 Countries

Product Quantity
848 MT
2023

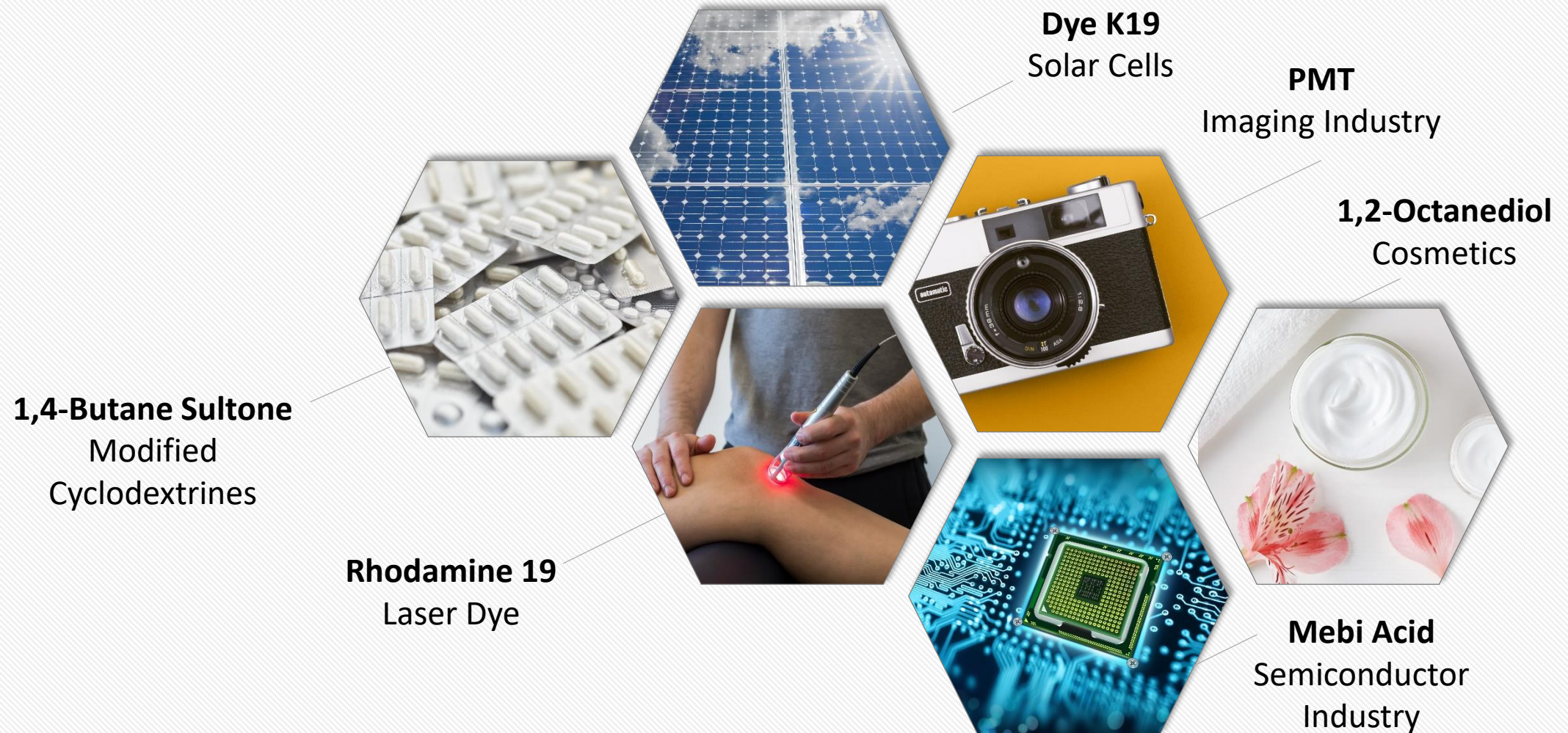


Sales by Region

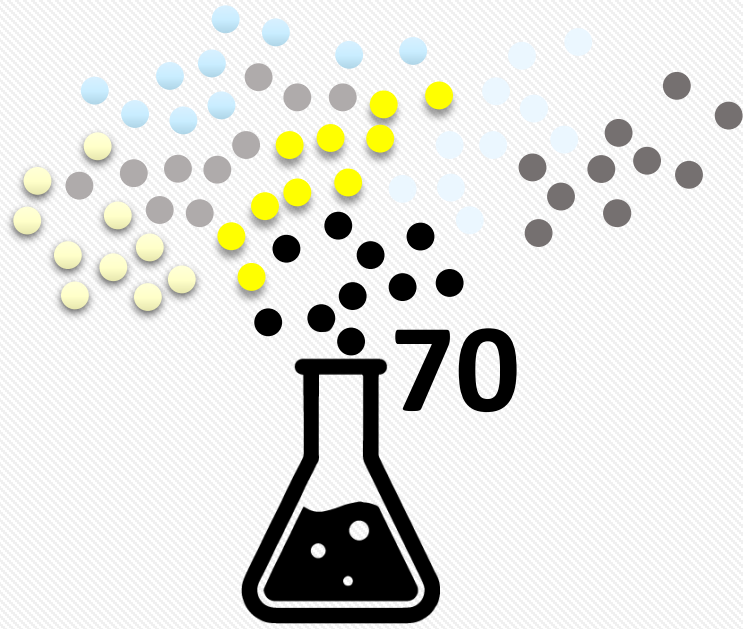


Sales by Industry

Applications of our Products



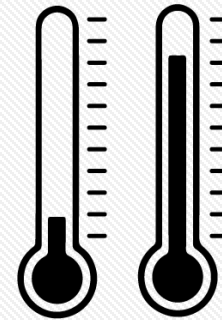
Flexibility & Long-time Experience



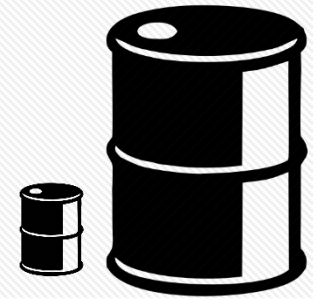
Reaction Types



Procedures
for Intermediates und Products

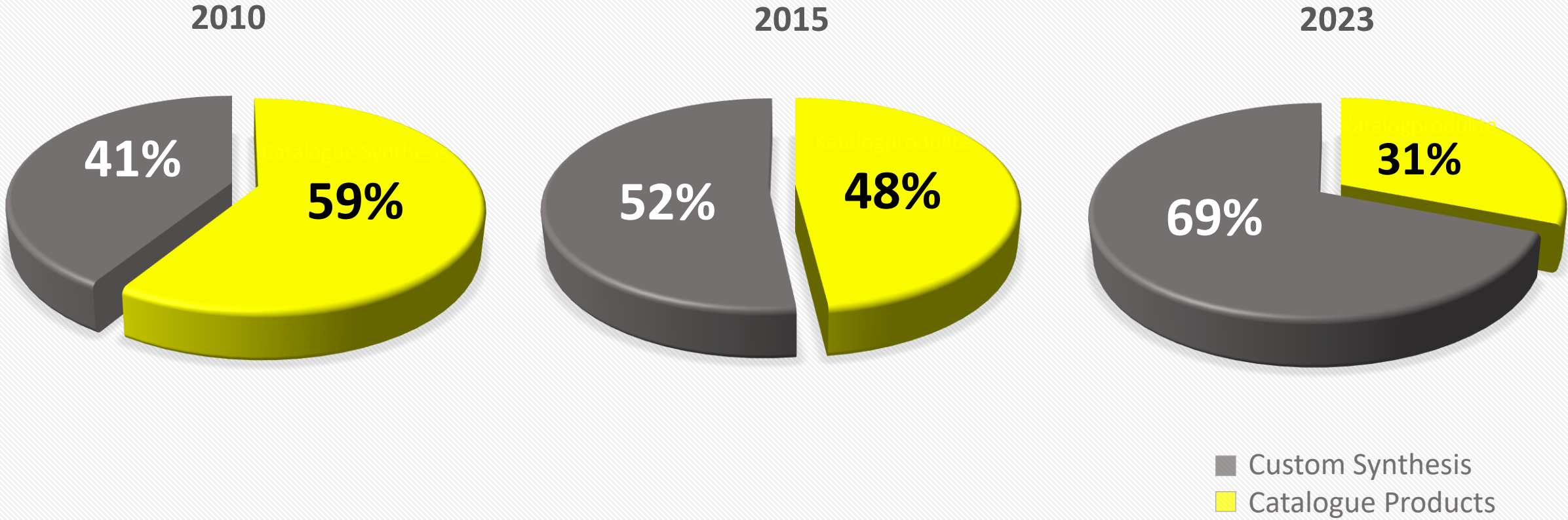


-20 up to 230 °C

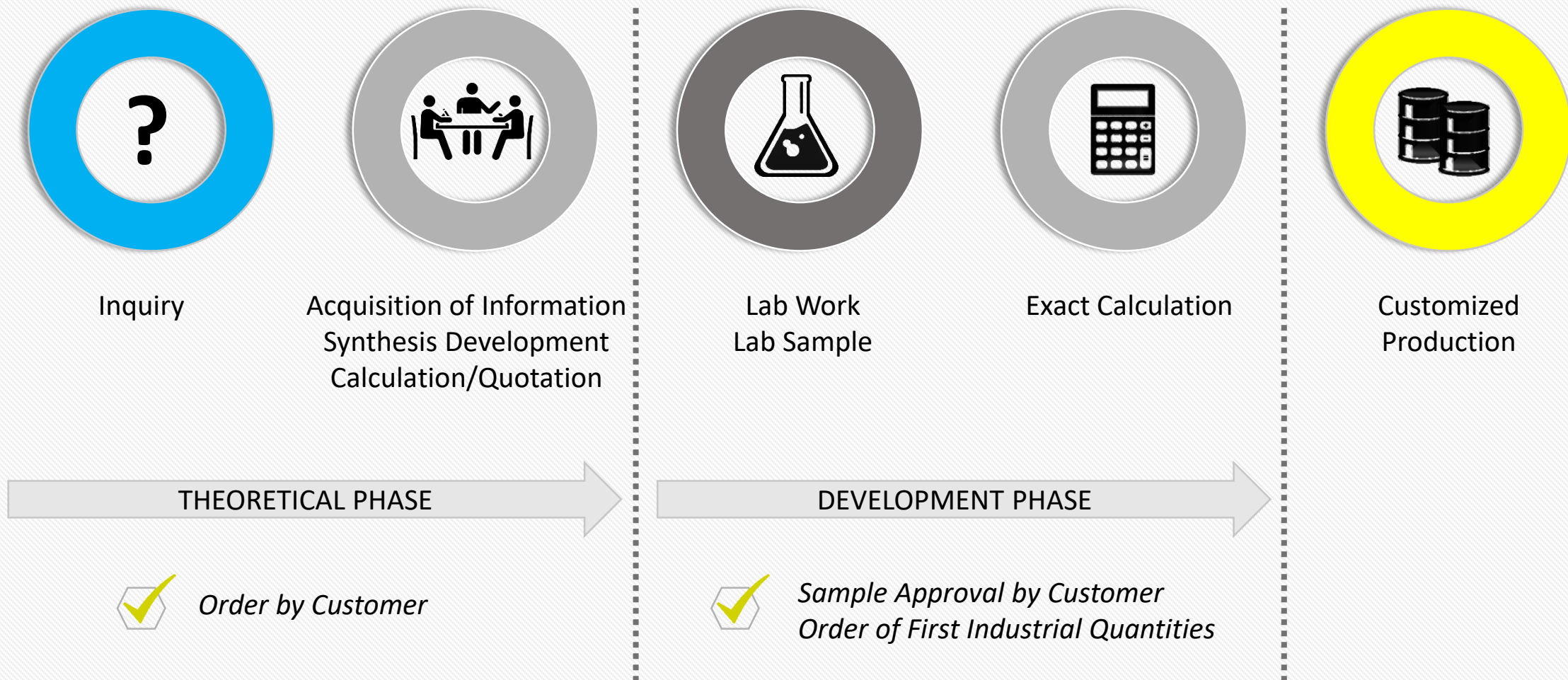


25 kg/a - 1.000 MT/a

Customized Products



Project Development

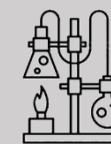


Customized R&D

- Project Development on a Lab-scale up to 2.5 L
- Process Development and Optimization for Scaled-up Batch Production
- 2 L-Autoclave for Hydrogenations

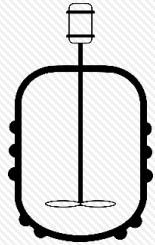


2 Chemists
4 Lab Assistants



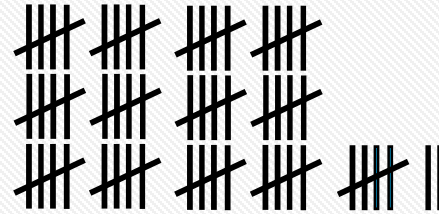
3 Fully Equipped
R&D Laboratories

Production Equipment and Capabilities



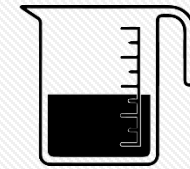
185 m³

Total Reactor Capacity



67

Reactors



75 - 6.300 L

Reactor Capacities

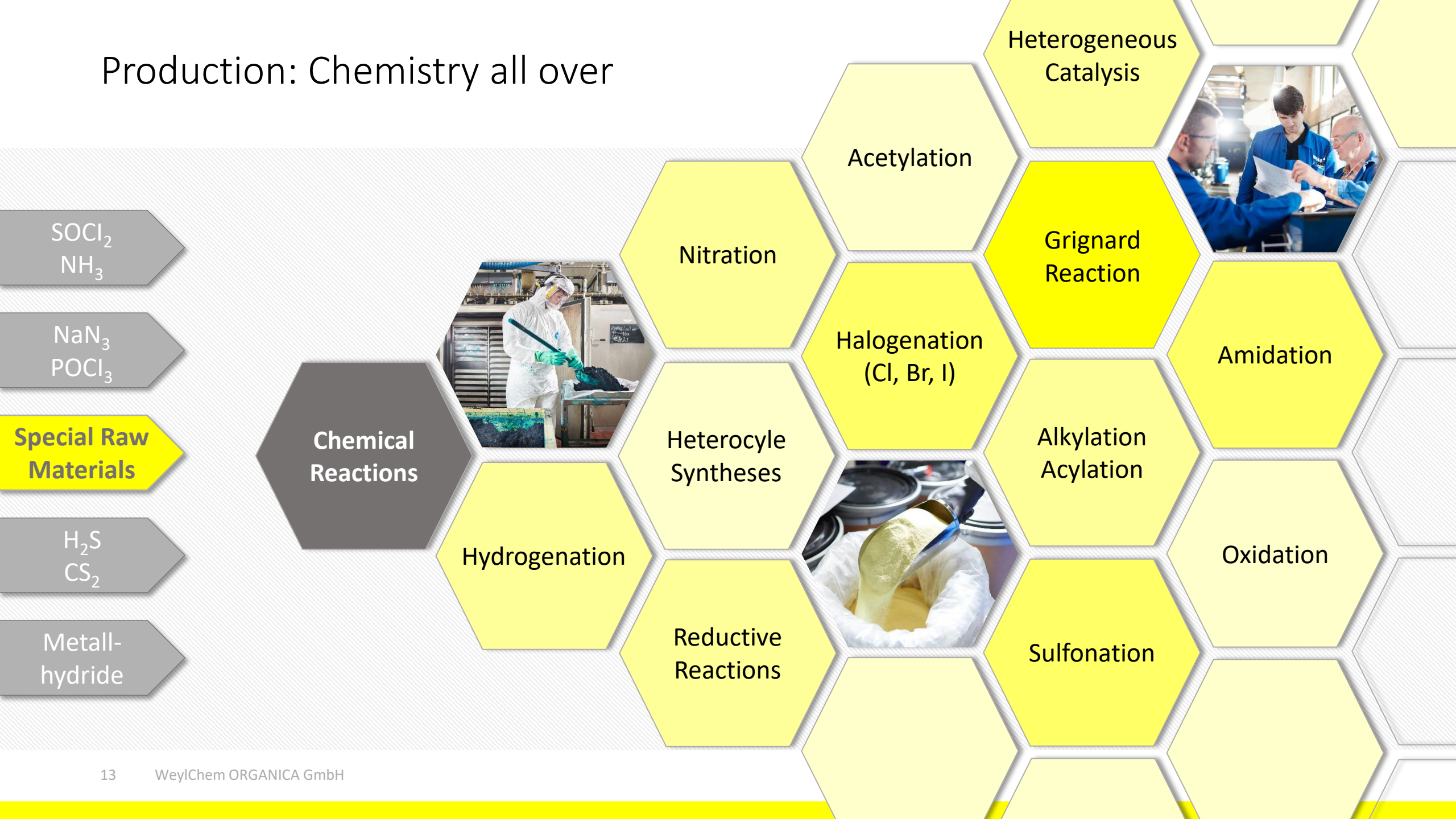
Modular Setup



- **61 glass-lined Reactors**
75-6300 L, -20 °C bis +230 °C, 5 bar
- **6 stainless steel Reactors**
250-2000 L, -10 °C bis +230 °C, 50 bar
- **7 Distillators**
80-8000 L, 20 °C bis 230 °C, 5 mbar
- **BUSS Loop Reactor**
-10 – 160 °C, 2 m³ (1.4571), bis 19 bar

- **Various Filtration Techniques**
 - Agitated Filter
 - Filter Press
 - Box Filter
- **Drying Equipment**
 - Tray Dryers; Vacuum Tray Dryers
 - Agitator Dryer
- **Hastelloy-Centrifuge** 380 L
- **Hastelloy-Cone Dryer** 1,6 m³

Production: Chemistry all over



GMP-Production

- Production of Indocyanine Green in Clean Room Class C
- Application: Fluorescence-guided surgery
- Drug Master File
- FDA-Audits



Analytics

- GC, GC-MS
- HPLC, UHPLC
- FT-IR-Spectroscopy
- UV/VIS-Spectroscopy
- Density Determination
- Loss on Drying
Halogen, Vakuum
- Viscometry
- Titration
volumetric, coulometric
- Karl-Fischer-Titration
- DSC
- Sulfated Ash
- Color Number
APHA, Gardener, CIE-Lab
- Turbidity



Production & Analytics



Quickness & Flexibility



Over 50 completed Audits



External Partner
e.g. for NMR, ICP-OES, HS-GC

Your reliable Partner for Custom Synthesis



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