

Presentation

for

Business trip to Bulgaria 21-23

October 2025

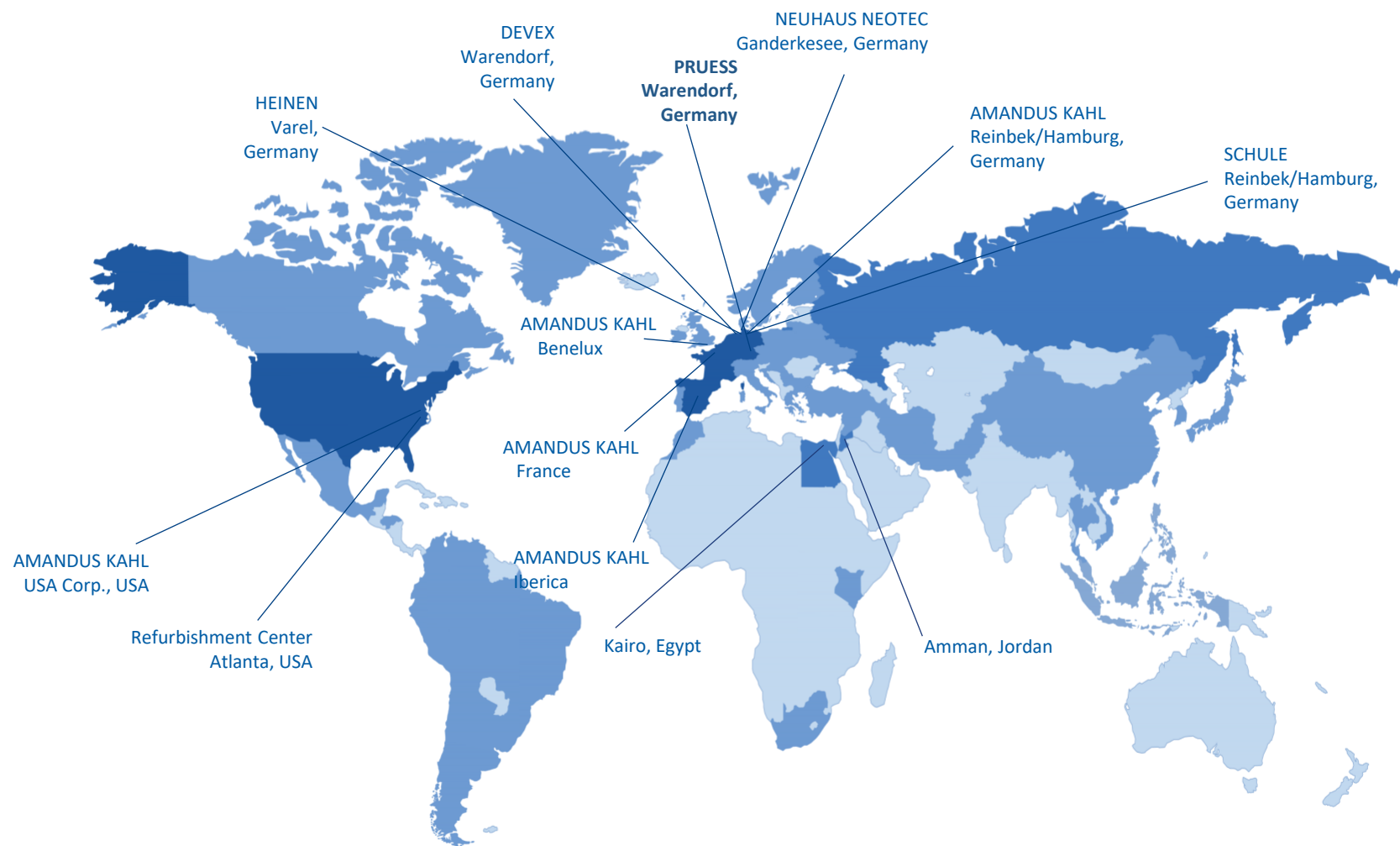
Services provided by Pruess GmbH

- Pruess stands for plant design in the food and pharmaceutical food sector for engineering, realization and qualification.
- We build plants in thermal separation technology, including extraction units, evaporation plants, CIP systems and the associated tank farms.

The Pruess GmbH – The History

- Founded by Mr. Uwe Pruess in 1978
 - Plant Construction in the field of extractions and evaporation systems
 - Disinfestation systems (CO₂ - High Pressure Disinfestation)
 - Supercritical CO₂ Extraction
- 2019 takeover by Dr. Michael Nussbaumer
 - New orientation: Plant engineering for Food and Pharma customers
 - Introduction of new Technologies
- 2021:
 - Kahl Group takes a stake at Pruess GmbH via DEVEX Verfahrenstechnik GmbH





UNTERNEHMEN

NIEDERLASSUNG

VERTRETUNG

The Kahl Group

The Kahl Group has been a family company since 1879

Members in the area of
Plant-and Mechanical Engineering:

- AMANDUS KAHL
- SCHULE MÜHLENBAU
- DEVEX Verfahrenstechnik
 - DEVEX Plant Building
 - Pruess GmbH
- HEINEN FREEZING
- NEUHAUS NEOTEC
 - Neomontec

>900 Employees-Worldwide

Turnover 250€ Mio./Year



Services provided by Pruess GmbH for Food and Pharma Customers

- Portfolio of Pruess GmbH
 - Plant Engineering
 - Pre-Engineering
 - Detail-Engineering
 - Realization
 - Qualification
 - DQ, IQ, OQ, (PQ)
 - 3D – Design
 - Re-engineering
 - Optimization of existing plants and processes

Services provided by Pruess GmbH

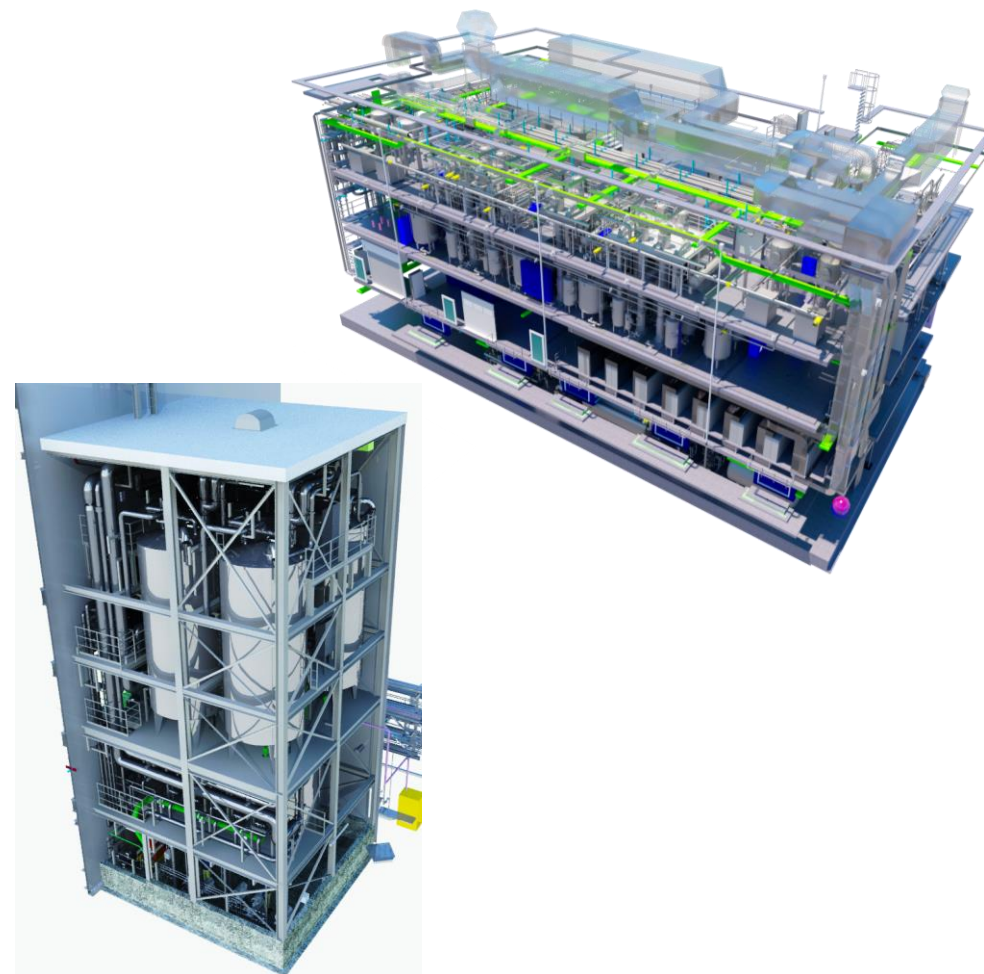
Smaller (self-sufficient) systems



Skids



Plants



Batch Extraction

- Extraction

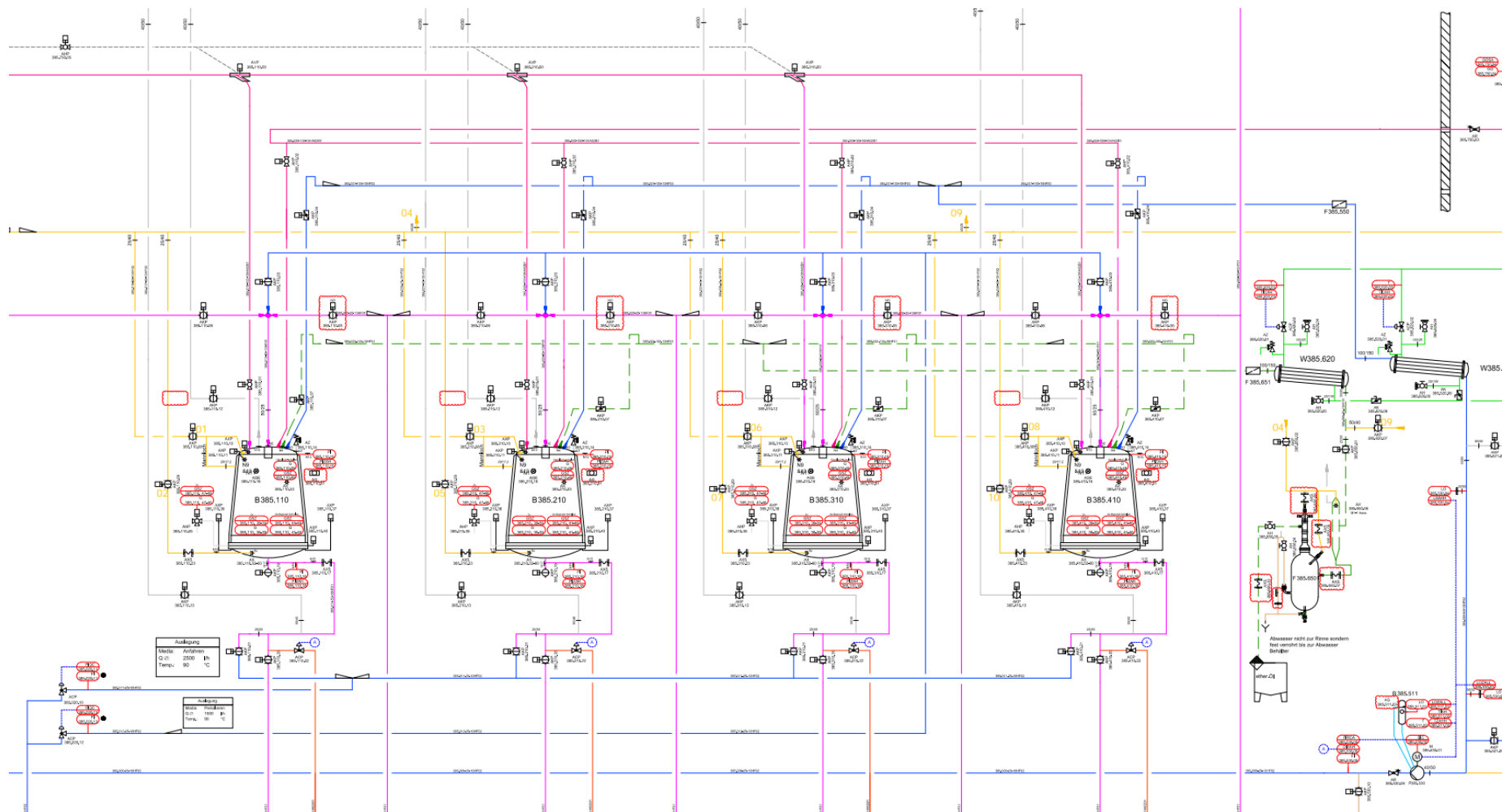
The solvents used are primarily water, steam, ethanol and methanol. But other solvents can also be used.

- Batch Prozesse

- Water Steam distillation
- Percolation (direct current/countercurrent)
- Maceration
- Extraction volume per extractor
50l up to 25 m³
- Working pressure up to 10 bar
- Workingtemp. up to 130°C



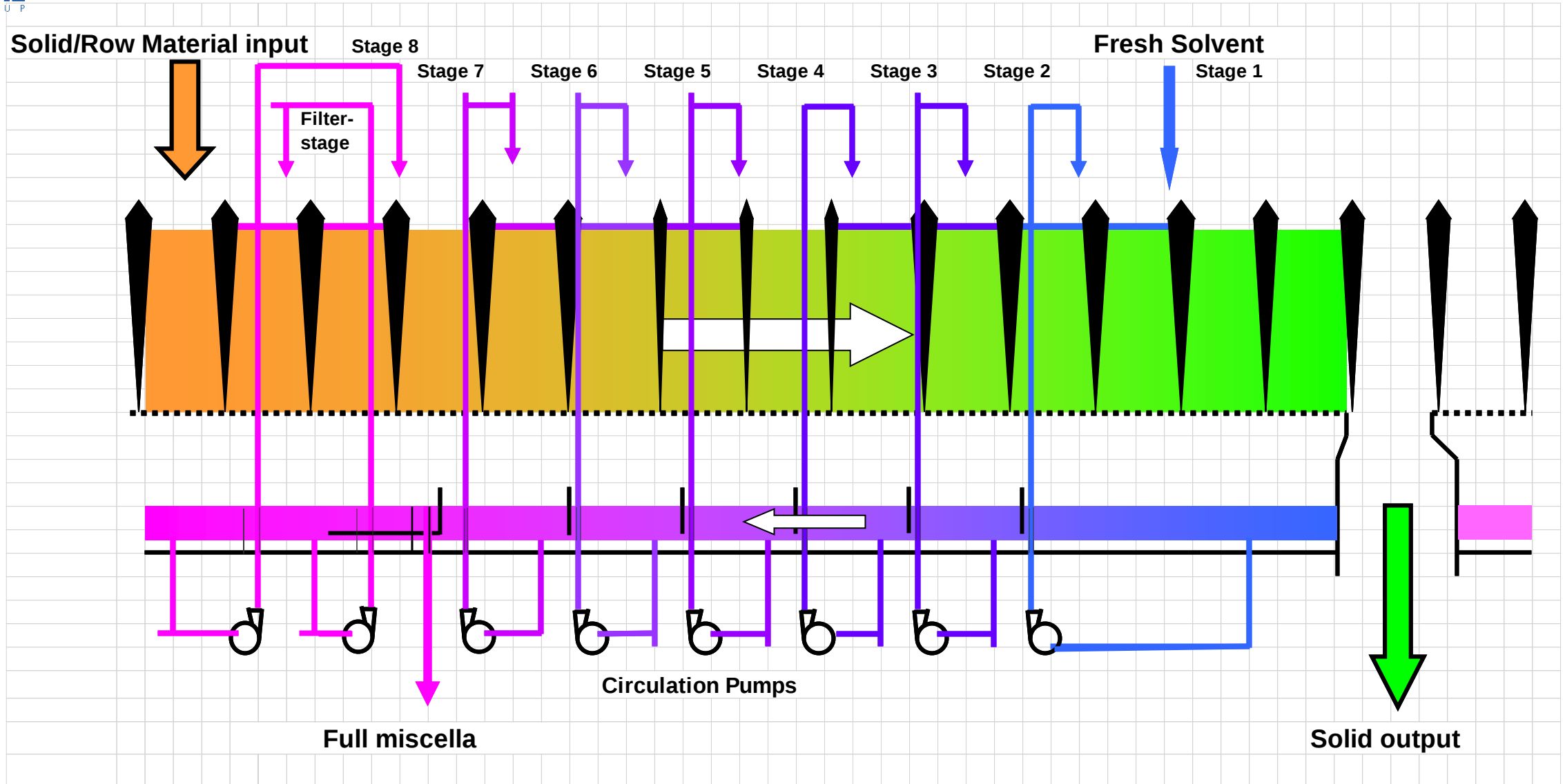
Process Diagram



Carousel Extraction

- Diameter 4.500 mm
- Capacity up to 25 t/D
- Solvent Water
- Working Temp. 95°C
- Fully Automated by Siemens S7
- Cleaning via CIP-Recipe





INDEPENDENT PREPARATION SYSTEMS

We are delighted to introduce our cutting-edge, independent system designed to produce granulation liquids, colour fluids or steril solutions. This innovative system comes equipped with its own control unit, interfaces to existing controls and/or databases and recipe management software, which is fully validatable. It offers the flexibility of both automated and semi-automated preparations.



Referenzen

Customer			Country		
MUCOS PHARMA GMBH, Geretsried	Phytopharmaka	Germany	SULZER, Butzbach	Project Service	Germany
AGRO FABER GMBH, Hamburg	Stevia	Indonesia	EUROMED, Barcelona,	Phytopharmaka	Spain
GTZ, Frankfurt	Neem	Birma	DESTILLA, Nördlingen	Food	Germany
PROTEX GMBH, Hamburg	Stevia	Indonesia	SCHEIDEMANTEL AG, Wiesbaden	Food	Germany
PT.GRAHA GEOTAMA PERDANA, Jakarta	Stevia	Indonesia	PHARMATON S.A.	Phytopharma	South Korea
MÜGGENBURG EXTRAKT GMBH	Phytopharmaka	Germany	STEINER HOPFEN, Laupheim	Food	Germany
LIVOS PFLANZENCHEMIE, Wieren	Edible Oil Refining	Germany	ENDRESS+HAUSER Maulburg	Test Center	Germany
MÜGGENBURG EXTRAKT GMBH	Phytopharmaka	Germany	ESSO AG, Ingolstadt	Project Service	Germany
FEE GMBH, Lörrach	Special Application	Germany	PHILIP MORRIS S.A., Neuchatel	Tobacco	Switzerland
SICERAM GMBH, Jena-Maua	Special Application	Germany	SIEGFRIED AG, Zofingen	Phytopharmaka	Switzerland
CMI Centers for Medical Innovation GmbH	Phytopharmaka	Germany/India	B. BRAUN SE, Melsungen	Pharma	Germany
HAUSER, INC. Boulder, Colorado	Phytopharmaka	USA	BOTANICAL INTERNATIONAL INC.	Phytopharmaka	Los Angeles, USA
SHENG CHANG PHARMACEUTICAL CO., Ltd.	Phytopharmaka	Taiwan	Sartorius Biotech, Göttingen	Biotech	Germany
GTZ, Frankfurt	Neem	Myanmar	FINZELBERG GmbH, Andernach	Pharma	Germany
Berndt GmbH	Edible Oil Refining	Germany	ROTTENDORF PHARMA GmbH	Pharma	Germany
Kroppenstedt GmbH	Edible Oil Extraction	Germany	Tanac SA.	Food	Brazil
SICERAM GmbH	Special Application	Germany	PT. SIDO MUNCUL, Semarang	Pharma	Indonesia
TIANJIN TASLY, Tianjin	Phytopharmaka, TCM	China P.R.C.	KASAPRECO Ltd., Accra	Food	Ghana
BAYER PHARMA AG, Wuppertal	API	Germany			
Exyte Central Europe GmbH	Pharma	Germany			

Presentation of the Pruess GmbH
for the for the participants of the business trip to
Bulgaria 21-23 October 2025

Thank you for your Attention

What other questions can we answer?