

Fraunhofer UMSICHT
Institute Branch Sulzbach-Rosenberg

Overview

Dr.-Ing. Peter Degener
14th of September 2022



Fraunhofer UMSICHT - Pioneer for a sustainable world

Concepts and technologies for shaping the energy
and raw materials transition.

Fraunhofer-Gesellschaft

At a Glance

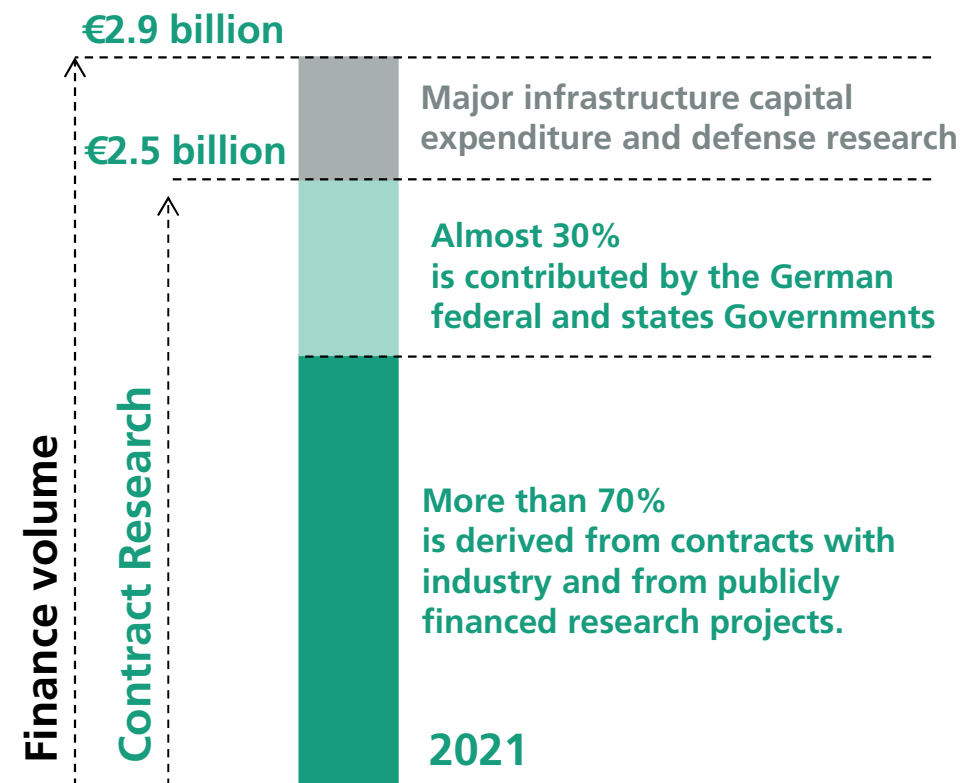
Applied research organization prioritizing key future-relevant technologies and commercializing its findings in business and industry.
A trailblazer and trendsetter in innovative developments and research excellence.



30 000 staff



76 institutes and research units



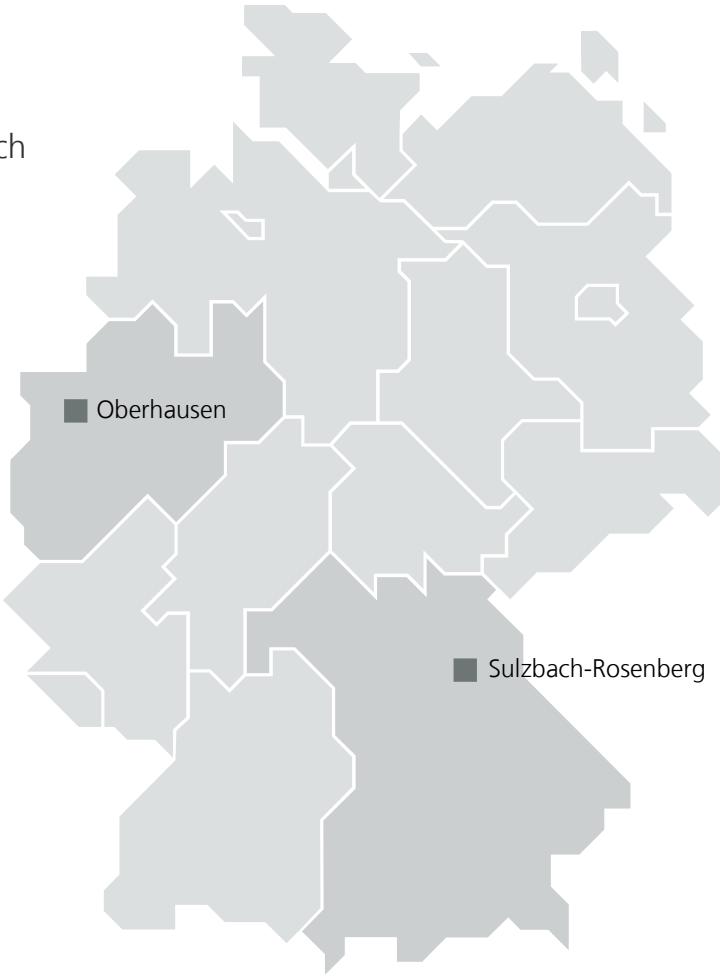
Fraunhofer UMSICHT

Headquarter and institute branch

Directors
Prof. Dr.-Ing. Manfred Renner | Prof. Dr.-Ing. Christian Doetsch

Fraunhofer UMSICHT OBERHAUSEN

Staff	440
Turnover	39,8 Mio EUR
Technical infrastructure	4500 m ²



Director Institute branch
Prof. Dr.-Ing. Matthias Franke

Institute Branch SULZBACH-ROSENBERG

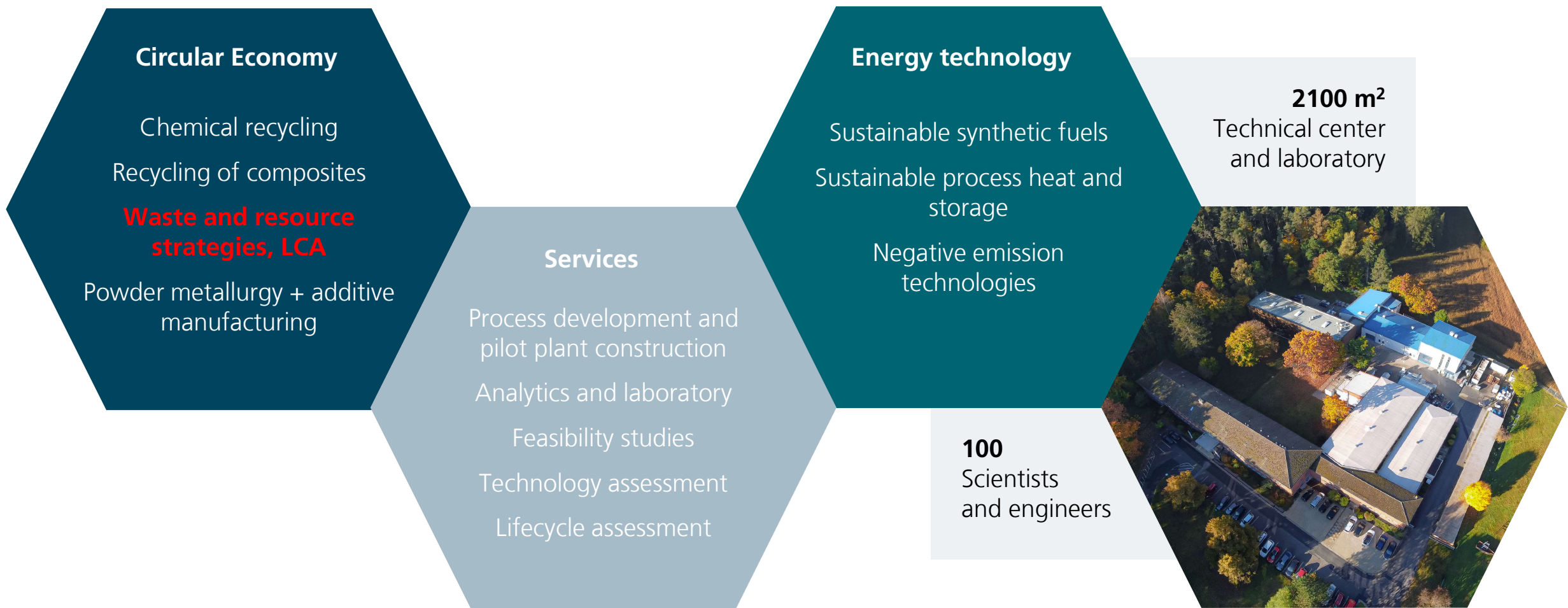
Staff	104
Turnover	10,2 Mio EUR
Technical infrastructure	2100 m ²



08.2022

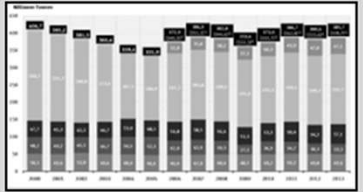
Fraunhofer UMSICHT Institute Branch Sulzbach-Rosenberg

Contributions to the energy and raw materials transformation



Fraunhofer UMSICHT – Circular Economy

Reference: Surveying, Geodatabase and Waste Management (eMISK_{Waste}), EPA, State of Kuwait



Data collection and Survey

- Waste Types and Amounts, Sources
- Collection and Transport
- Treatment and Landfills
- Legislation
- Finance



eMISK_{Waste}

- Geodatabase and Systems for Data Storage, Processing, Analysis and Presentation
- Basis for Decision Making
- Monitoring
- Web-Applications
- Beatona.net



National Waste Management Strategy

- Forecasts
- Goals, Indicators, Target Values
- Action Plans
- Treatment and Recycling Technologies
- Landfill Concepts
- Capacity Planning
- Finance Plans
- Legal Framework

Partners:



Project Duration:

January 2017 - December 2021

Budget:

approx. 17 Mio. €

Fraunhofer UMSICHT – Circular Economy

Reference: Sustainable Waste Management for Tunisia funded by Free State of Bavaria



- Model regions: Siliana, Tabarka and Douar Hicher/Tunis
- Analysis Status Quo, Development of Solutions for Tunisian Waste Management
- Green points for Waste Segregation for Recycling
- Composting
- Dismantling of CRT
- Knowledge Transfer and Creation of new employment opportunities

Partner:



Project Duration:

August 2018 – May 2022

Budget:

> 1 Mio. €

Fraunhofer UMSICHT – Circular Economy

Reference: Recycling of waste electrical and electronic equipment (WEEE) in Ghana



- Innovative technology for WEEE recycling
- Aim of the project is to examine how the existing treatment can be supplemented by thermochemical methods and optimized distribution channel

Supported by:



Federal Ministry
for the Environment, Nature Conservation,
Nuclear Safety and Consumer Protection

based on a decision of
the German Bundestag

Partner:



German RETech Partnership
Recycling & Waste Management
Made in Germany



Project Duration:

January 2022 – December 2023

Budget:

approx. 350.000 €

Many thanks for your attention



Fraunhofer Institute for
Environmental, Safety and Energy
Technology UMSICHT

Contact

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