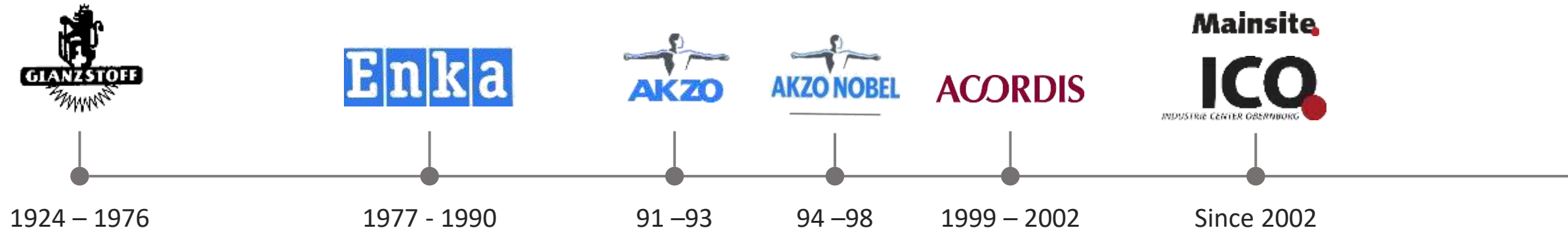




Industrie Center Obernburg

The Industrial Park
in northern Bavaria

From Glanzstoffwerke to Industrie Center Obernburg



In the heart of Germany



ICO
INDUSTRIE CENTER OBERNURG

 ≈ 3.000 employees and 230 apprentices	 188 ha area (more than half of NY Central Park)
 Over 30 companies	 Europe's largest chemical fiber site







We are here for your safety!

High-performance yarns
Made at ICO for

Automotive Safety
Medical Technology
Clothing

Mainsite

We produce for



Car tires



Safety belts



Airbags



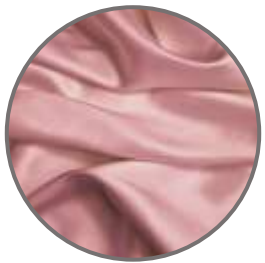
Battery
technology



Sails &
awnings



Ropes



Fabrics &
Clothing



Mattresses &
home textiles



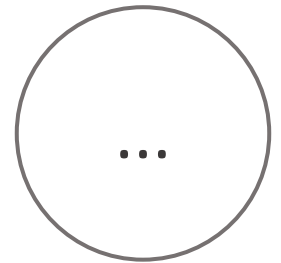
Medical
products



Tensioning ropes
for drilling rigs



Drainage mats for
tunnel construction



and much
more



Mainsite GmbH & Co. KG



... is the operating company of the ICO



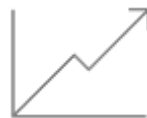
... operates the entire infrastructure of the site



... provides customers inside and outside the ICO with industrial services



... leases industrial space and buildings



... ensures a sustainable and future-oriented development of the ICO



Power Plant

- Gas turbine in base load operation and additional high-pressure steam boiler
- Process heat for the ICO
- Electricity for the ICO and the public grid (approx. 130,000 inhabitants in the region)
- High reliability thanks to redundant turbines and public grid
- Very fast response time
- Various steam grids:

Grid	Pressure (bar ü)	Temperature (°C)
HD-Grid	70 – 74	515
MD-Grid	20	400
ND-Grid	2	200



Media Supply on site

(excluding own consumption and electricity export)

Media	Annual quantity	Average per hour
Power	270,000 - 300,000 MWh	30 - 33 MWh
Steam	1,200,000 - 1,400,000 t	100 - 200 t
Diphyl Heat	360,000 - 400,000 GJ	41 - 45 GJ
Cooling	150,000 - 180,000 GJ	17 - 20 GJ
River-/Well water	17,000,000 - 20,000,000 m ³	1,700 – 2,000 m ³
Softened water	3,800,000 - 4,000,000 m ³	430 - 460 m ³
Demineralized water	600,000 - 700,000 m ³	70 - 80 m ³
Nitrogen	9,000,000 - 11,000,000 m ³	1,050 – 1,250 m ³
Compressed air	240,000,000 - 300,000,000 m ³	20,000 – 35,000 m ³

Future hydrogen supply

H₂ conversion in the grid area of Ferngas

Interim status of gas network development plan 2022 - 2032

Existing grid of the Ferngas

— Ferngas pipelines

H₂-network until 2032

— Changeover till 2025

— Changeover till 2027

— Changeover till 2030/32

▤ New pipelines

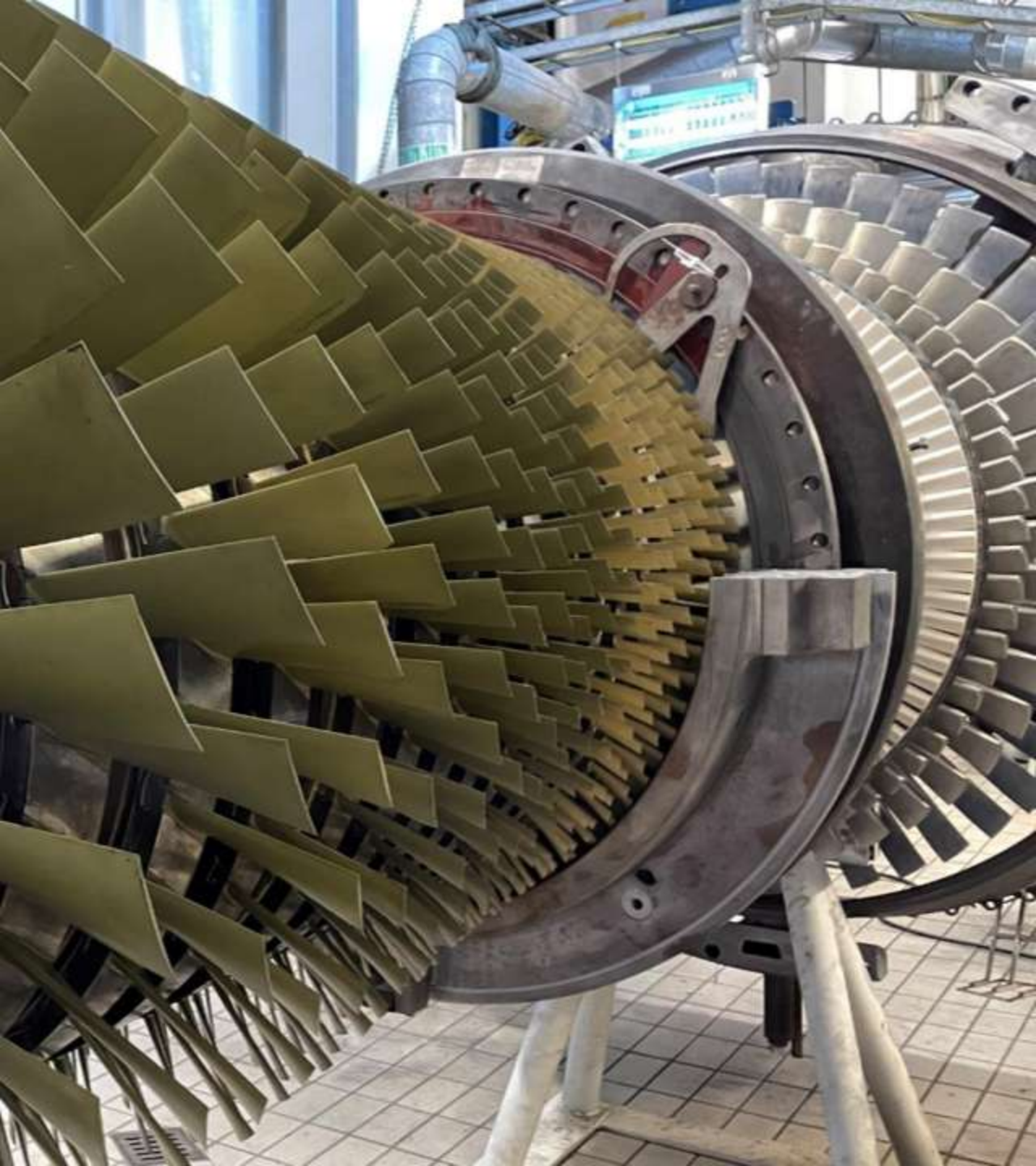
— Supraregional H₂-lines of other grid operators

↔ H₂-Transport



ICO
INDUSTRIE CENTER GERMANY

Mainsite



Possible Hydrogen use



Gas turbine



Auxiliary firing
waste heat boiler



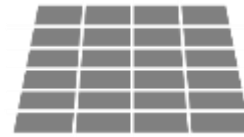
High and medium
pressure steam
generator



Diphyll heat



Future energy concepts



Renewable
energies



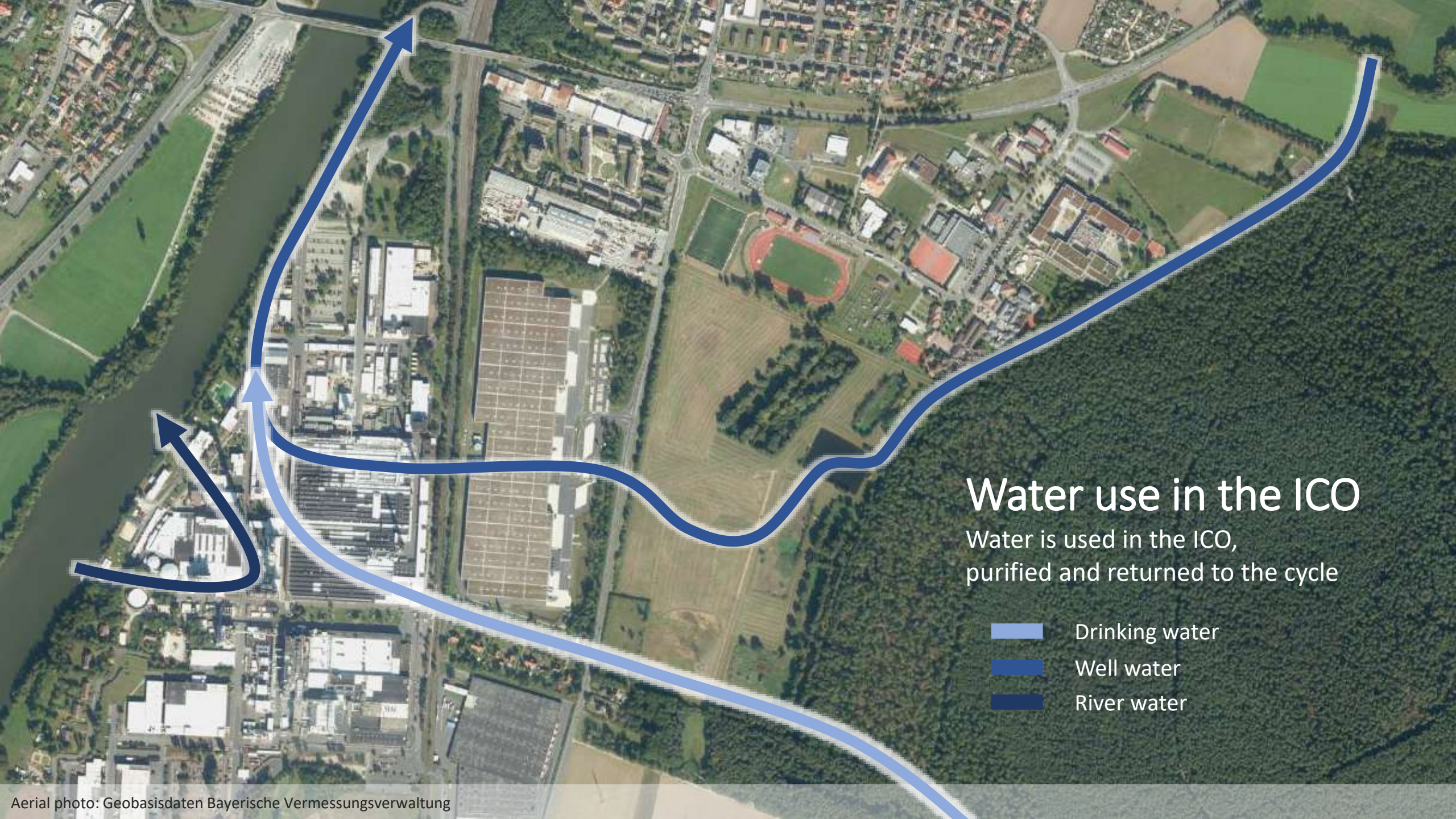
Energy storage



Power-to-Heat



Biogas



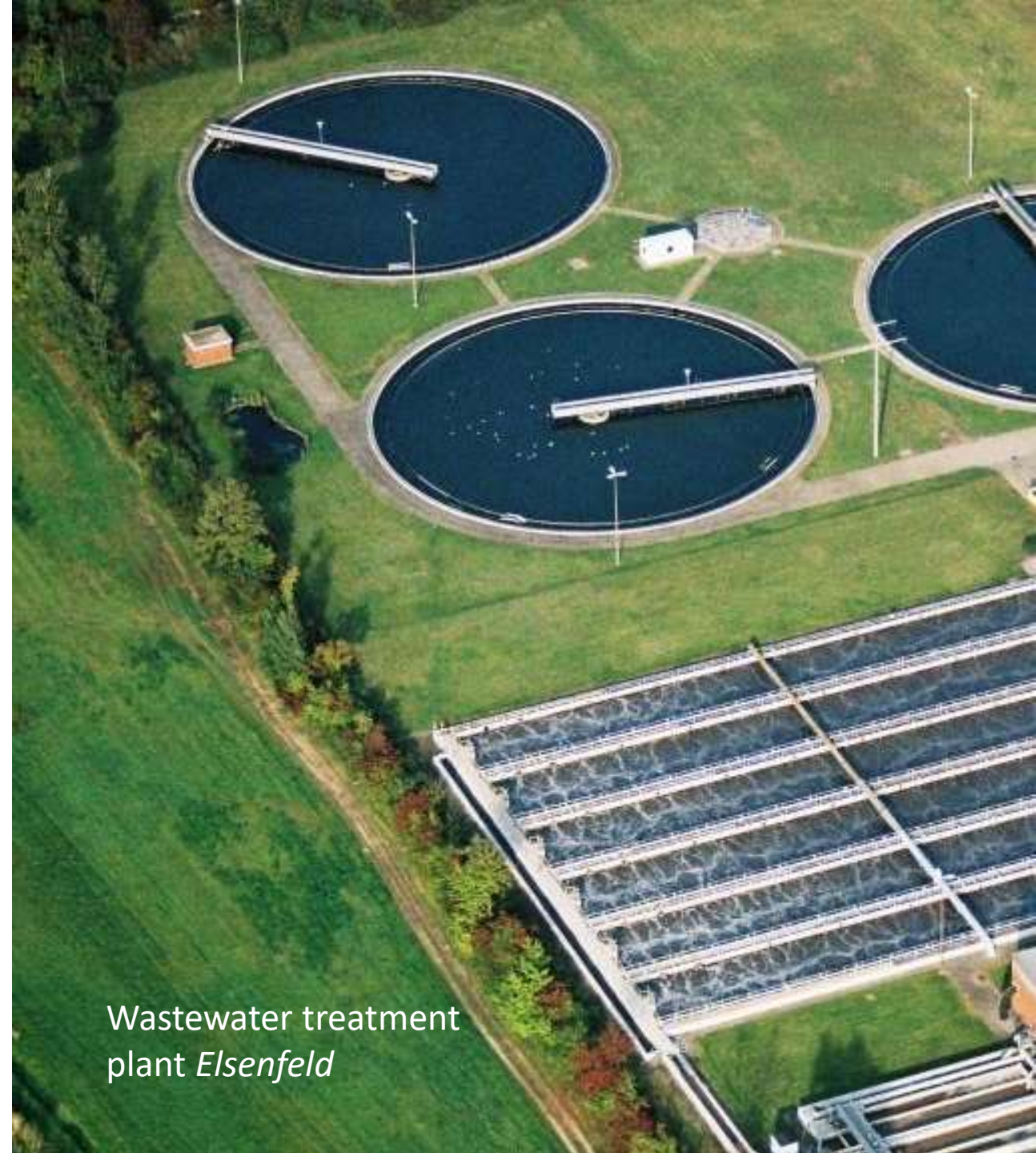
Water use in the ICO

Water is used in the ICO,
purified and returned to the cycle

- Drinking water
- Well water
- River water

Wastewater treatment plant

- is operated jointly by local wastewater association and ICO
- serves people from 18 municipalities and about 3,000 ICO employees
- processes 45,000 - 55,000 m³ of wastewater per day
- is particularly efficient because municipal and ICO wastewater ideally complement each other in terms of temperature and freight
- will be expanded to 285,000 population equivalents by 2026



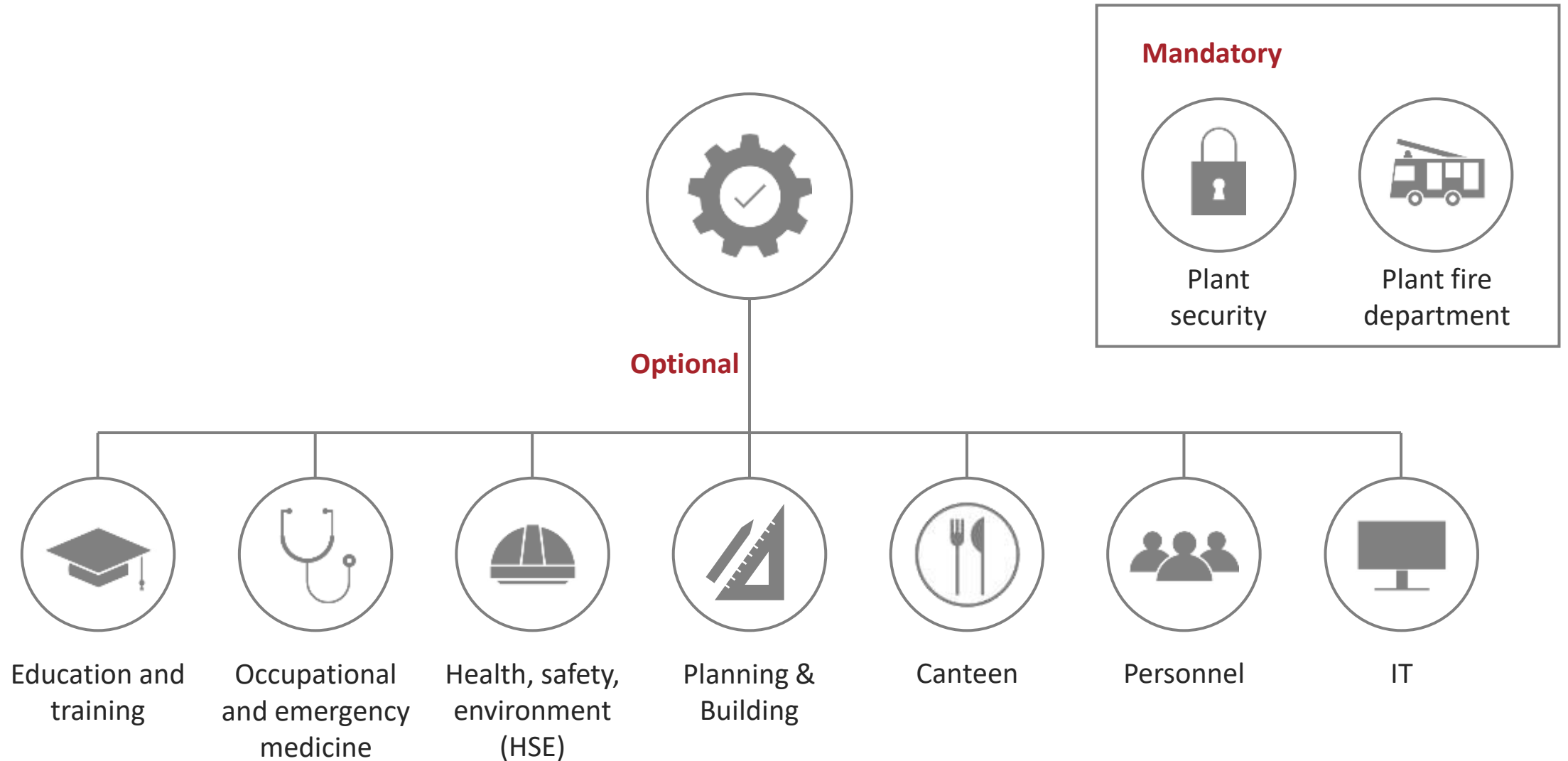
Wastewater treatment
plant *Elsenfeld*



Waste water

- Wastewater is permanently monitored
- Special basins for emergencies
- Expertise and experience in wastewater treatment
- No separate approval required for wastewater discharge in the ICO
- Sewage sludge recycling plant with zinc recovery

Services





Planning & Building



Preparation and submission of documents for approval procedures



Assistance with procedures under the Federal Immission Control Act (BImSchG) and the Federal Water Act (WHG)



Creation of fire protection concepts, fire department plans & escape route plans



Authorized civil engineers, structural engineers and construction technicians

Planning & Building



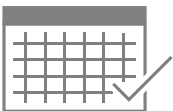
Documents on existing buildings, permits and structural calculations available



Network of consultants and experts for BImSchG, Noise, TA-Luft, WHG, HKLSE, Laboratory Construction



Trusting relationship with the approval authority → Reliable preliminary assessment of the project

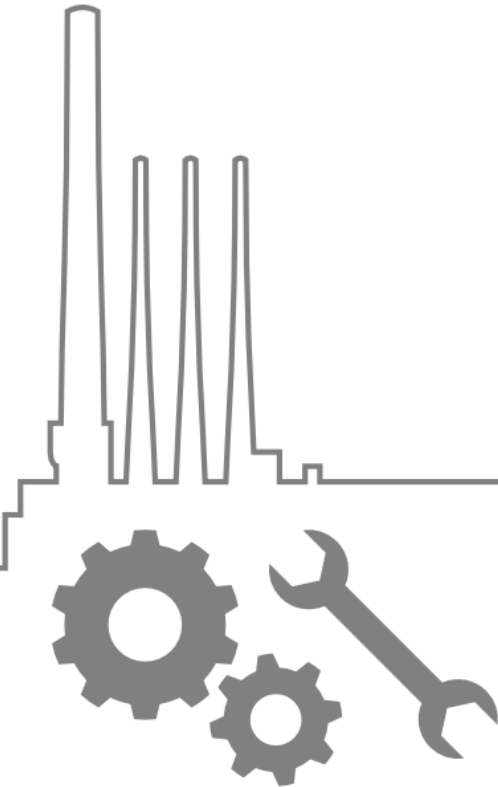


Expected approval period
(from the time the documents are complete)

- Building application: 3 months
- BImSchG: 9-12 months



Technical services



- Engineering and plant construction
- Pipeline construction
- Metalworking / sheet metal processing / Insulation
- Chipping
- Plastics processing
- EMSR technology

**Plant engineering, maintenance and service
from a single source!**

Tri-modal connection



500 m to the B 469 as a direct connection to the freeways A3 and A45



3 dedicated delivery tracks for freight transport. Passenger transport: 20 min from ICO station to Aschaffenburg (ICE)



Helipad at the site



Own pier on the Main. Connection to European waterways, e.g. Rotterdam - Obernburg: 610 km, 47 h



60 km to Frankfurt Rhine-Main Airport, reachable in 40 minutes by car, 90 minutes by train

Key Facts



Various industrial areas
(30 ha industrial area, numerous developed and undeveloped existing areas of various types)



Process heat in large quantities



Own gas-fired power plant (60 MW_{el})
plus dual 110 kV grid connection



Water in large quantities
(Well water, drinking water, river water, demin. Water)



Efficient own wastewater treatment plant
with high capacity



Excellent transport connections
(2-lane main road to the highway,
delivery tracks, train station, jetty,
40 min to Frankfurt/Main airport)



Optimal conditions for rapid approvals



Very broad service portfolio



Redundant data connection and
27001-certified data center



Flood-proof (HQ extreme)



We look forward
to your questions!

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