

## Sulzer Africa

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# SULZER

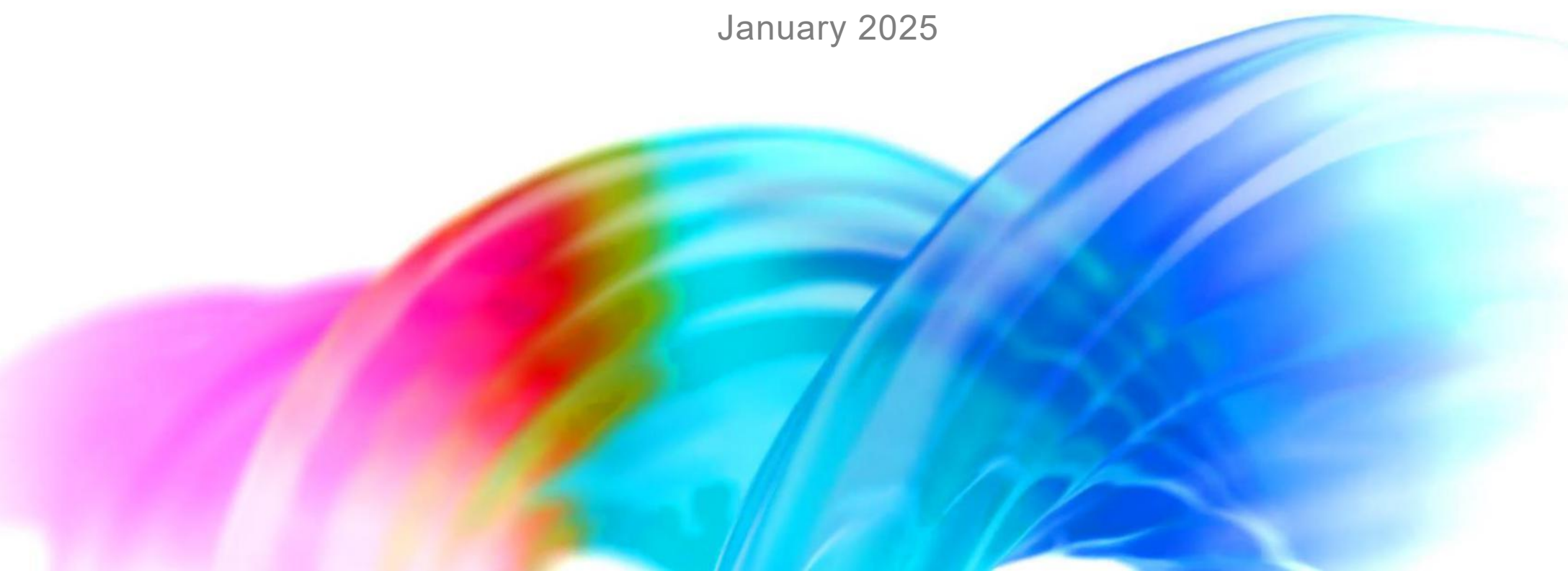


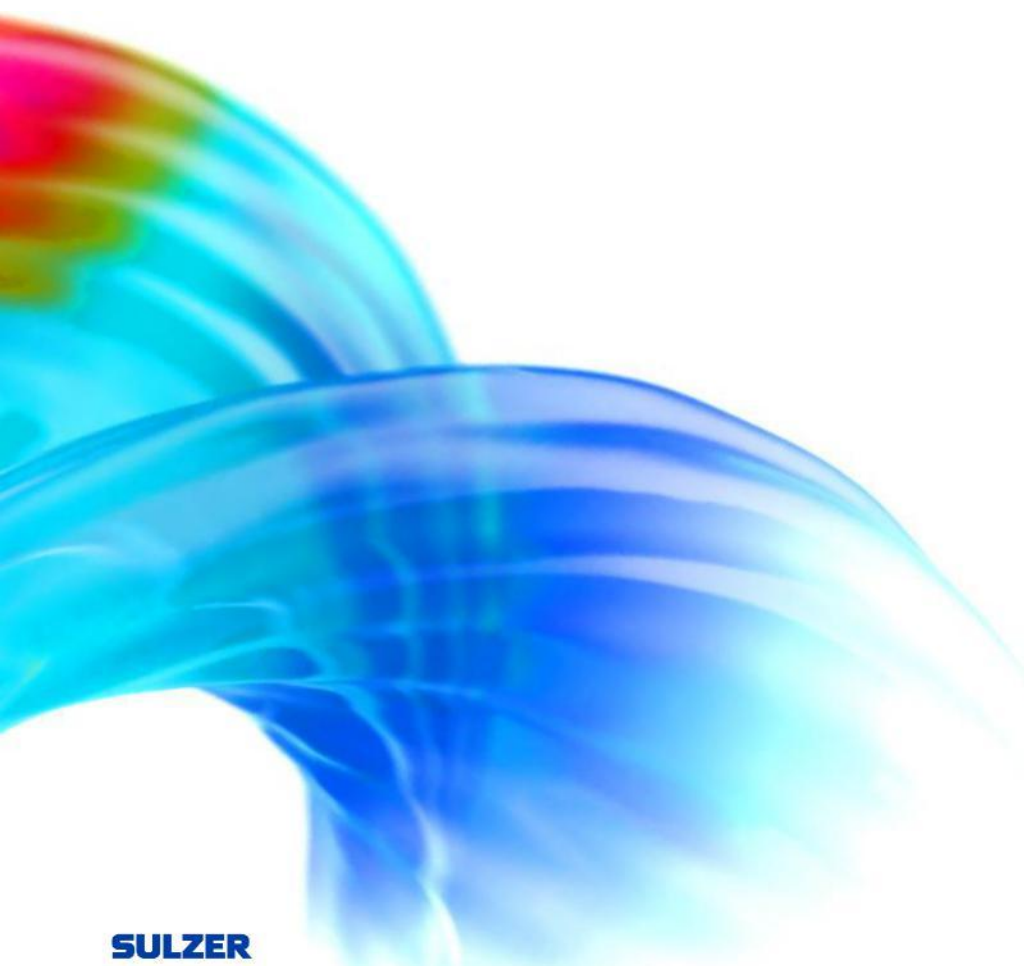
## Experts in fluid engineering

Who we are, What we do

Rikus Botha

January 2025





**Who We Are:** An overview of our organization, content our guiding principles, strategy for the region and our commitment to delivering high-quality services.

**Global Expertise:** Our capabilities abroad, focusing on our experience in performing comprehensive pumping studies, and how this knowledge can benefit our local operations.

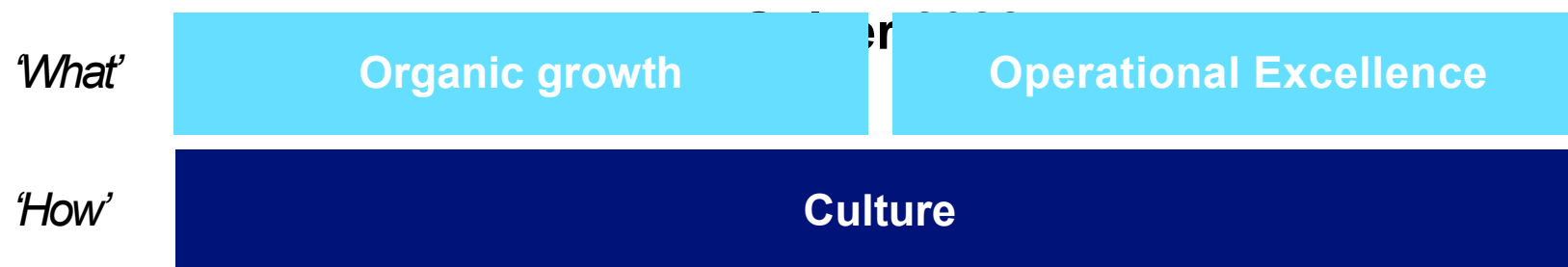
**Latest Technologies:** An introduction to some of Sulzer's cutting-edge technologies in pumps and condition monitoring, demonstrating how these innovations can enhance efficiency and reliability in our projects

**Local Capabilities in Africa:** A detailed insight into our service offerings in Africa, highlighting our skilled workforce, regional expertise, and successful project implementations.

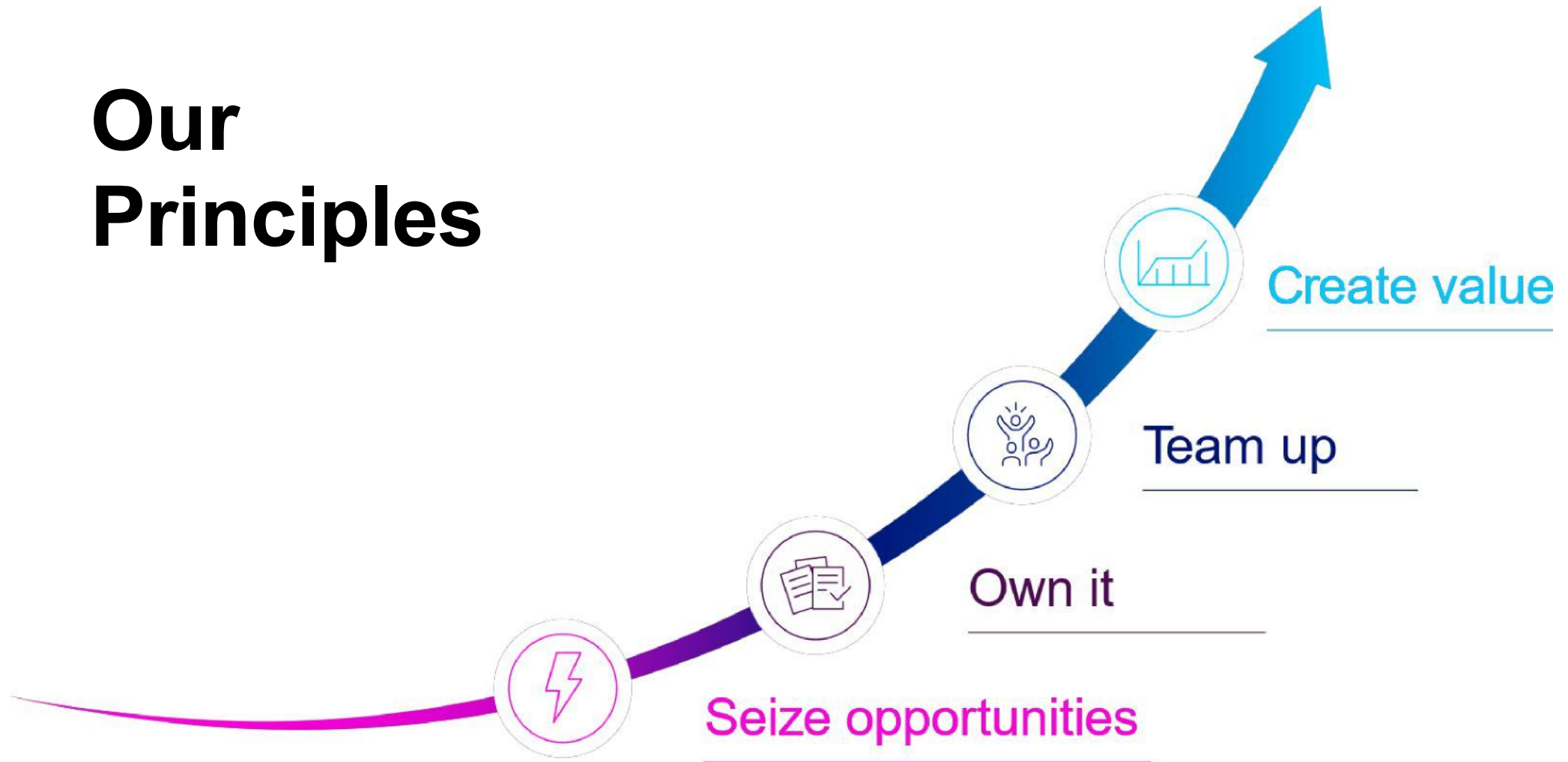
Sulzer today

# Enabling Sulzer 2028 with four new principles

- Culture is a key enabler for Sulzer 2028 – we need to focus both on *what* we do, and on *how* we do it.
  - Our aim is to establish an entrepreneurial, collaborative culture across the organization, based on four principles.
  - These principles describe how we want to work together going forward and represent an evolution of our values and behaviors (formerly TEAM/LEAD).
    - They apply to all of us, no matter which division, function, location or organizational level we belong to.



# Our Principles



# Sustainable flow-control innovation

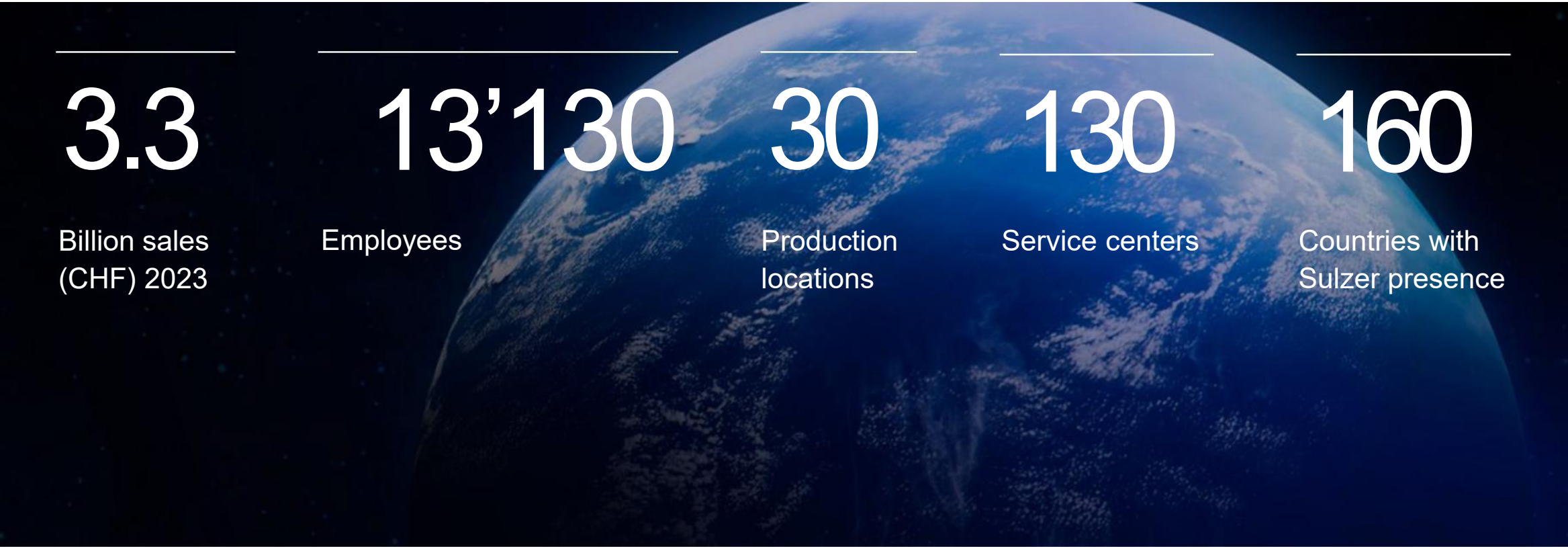
We help our customers build a better world

Sulzer is a global leader in fluid engineering, with two centuries of experience developing innovative products and services for essential industries that drive economic prosperity and sustainable progress — to help our customers build a better world.



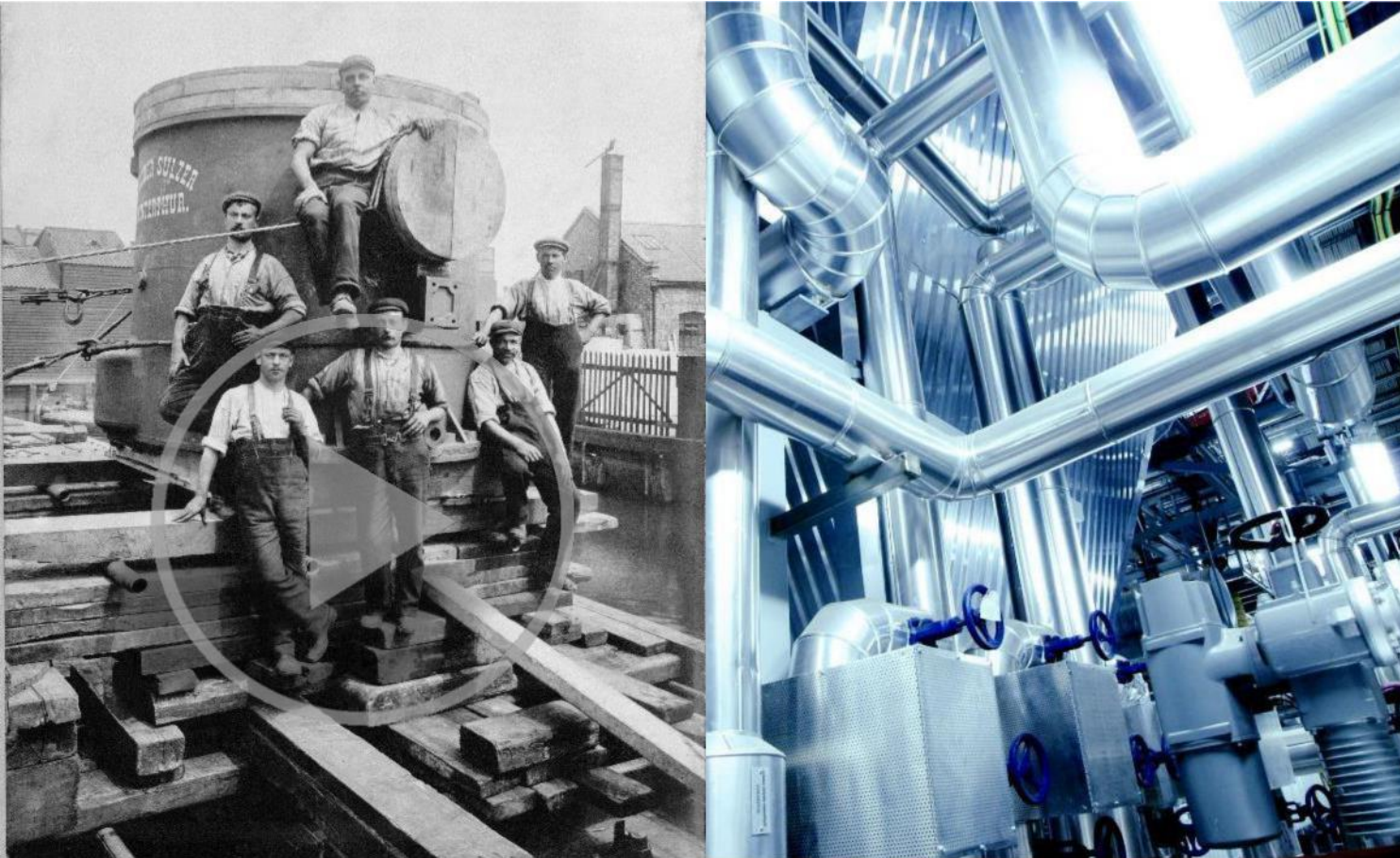
# Global and agile

We combine reach with responsiveness



# History

A tradition of innovation



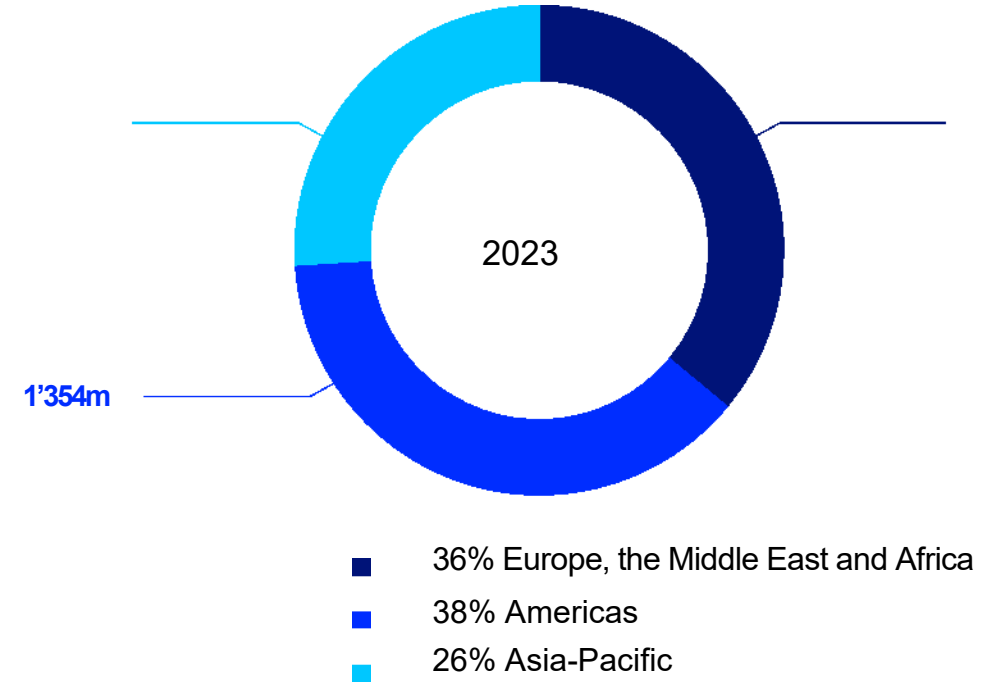
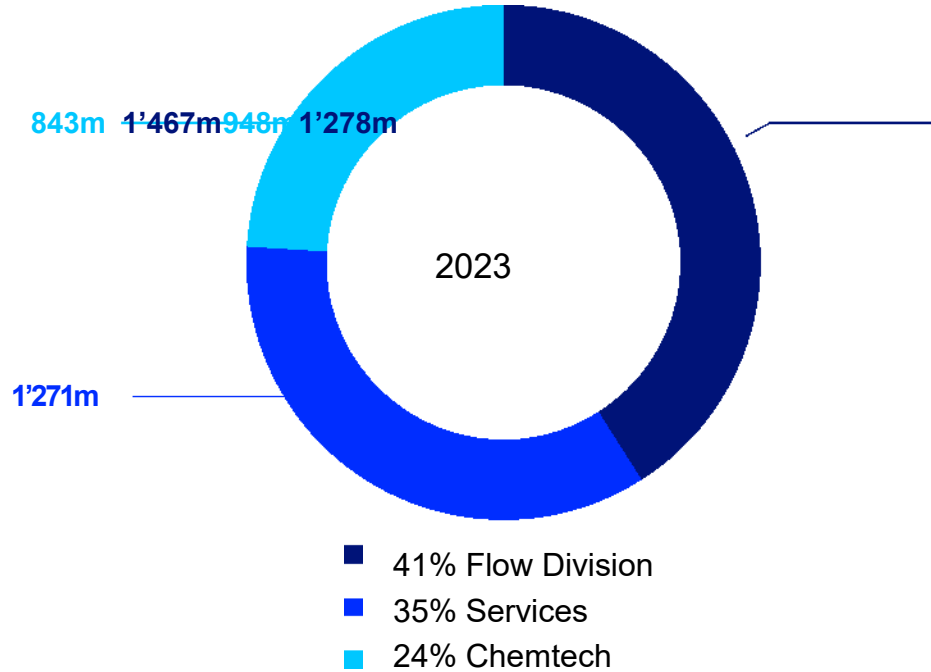
## Sulzer's technology evolution

- 1834: Established as a foundry
- 1854 – 1934: Steam engines, shipbuilding, tunneling, refrigeration
- 1900: Diesel engines, locomotives
- 1940: Turbines and engines
- 1960: Chemical process engineering; waste and water; medical technology
- 2000: High-pressure pumps; mechanical seals; energy transition
- 2020: Digitalization; carbon capture and biopolymers

# Three integrated divisions

A global manufacturing and service footprint

Order intake by division Order intake by region



EIBU - Energy and Infrastructure Business Unit



FLOW DIVISION



WIBU – Water and Industrial Business Unit

# Flow Division

We keep your processes flowing



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## Our mission

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Wherever fluids are treated, pumped, or mixed, we deliver highly innovative and reliable solutions for the most demanding applications.

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## Who we are

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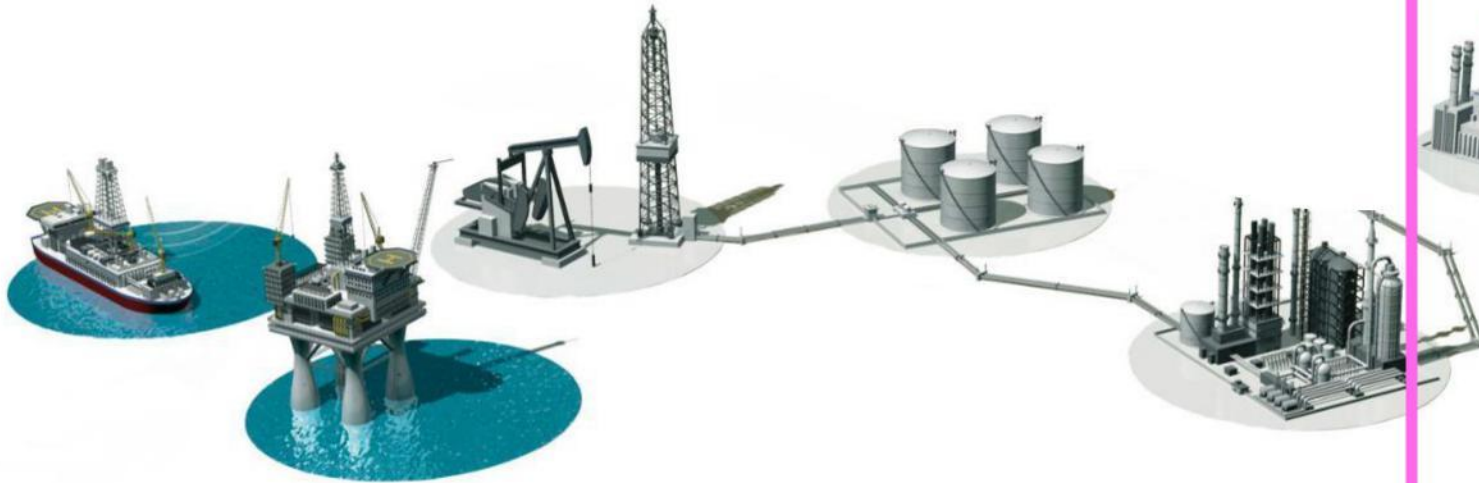
The Flow division specializes in pumping solutions specifically engineered for the processes of our customers. We provide pumps, agitators, compressors, grinders, screens and filters developed through intensive research and development in fluid dynamics and advanced materials. We are a market leader in pumping solutions for water, oil and gas, power, chemicals and most industrial segments.

# Energy and Infrastructure BU

\*Energy

\*Infrastructure

A market leader in engineered pumping applications for ERG contractors & End-Users



Market Segmentation:

Upstream      Power  
Midstream      Infrastructure  
Downstream

## Offshore incl. FPSO\*

Water injection  
Crude treatment and off-loading  
Subsea multiphase processing

## Onshore

Water injection  
Auxiliary pumps  
Produced water treatment

## Pipelines

Oil transport and boosting  
CO2 pipelines  
LNG gas processing & forwarding

## Refining, petrochemical, gas processing

Hydrocracking processes and Energy Recovery  
Biofuels, SAF (Sustainable Aviation Fuels)  
CO2 capture pumps

## Power Generation

Thermal Power  
Solar thermal (incl. Energy Storage)  
Nuclear

## Infrastructure

Desalination Water  
Intake Water  
Transportation

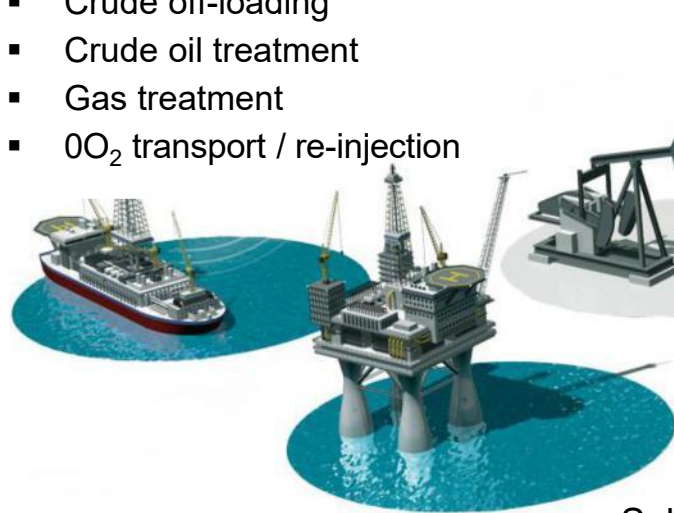
\*Floating Production, Storage & Offloading

# Energy – O&G

Solutions for upstream, midstream and downstream

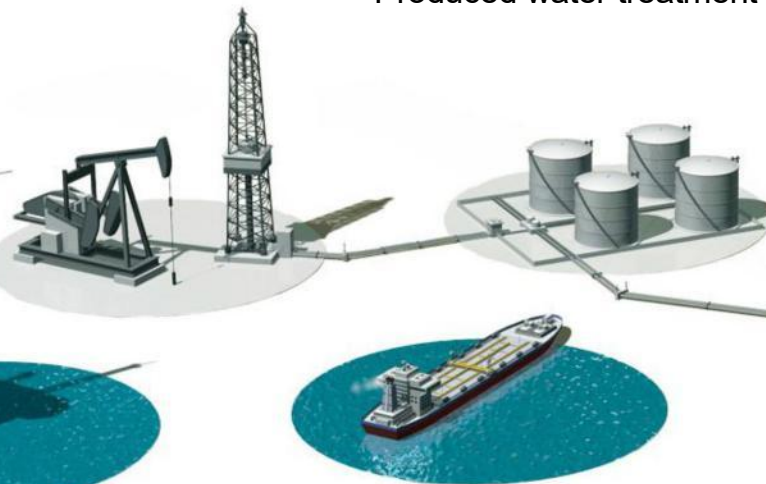
## Offshore production, FPSO, FLNG

- Water injection
- Seawater lift
- Firewater systems
- Crude off-loading
- Crude oil treatment
- Gas treatment
- $\text{CO}_2$  transport / re-injection



## Onshore production

- Water injection
- Water transfer
- Auxiliary pump
- Produced water treatment



## Subsea

- Multiphase and single phase processes

## Gas processing, refining, petrochemical

- Process pumps for cracking, coking, gas-to-liquids, and coal-to-liquids processes
- $\text{CO}_2$  capture through gas separation



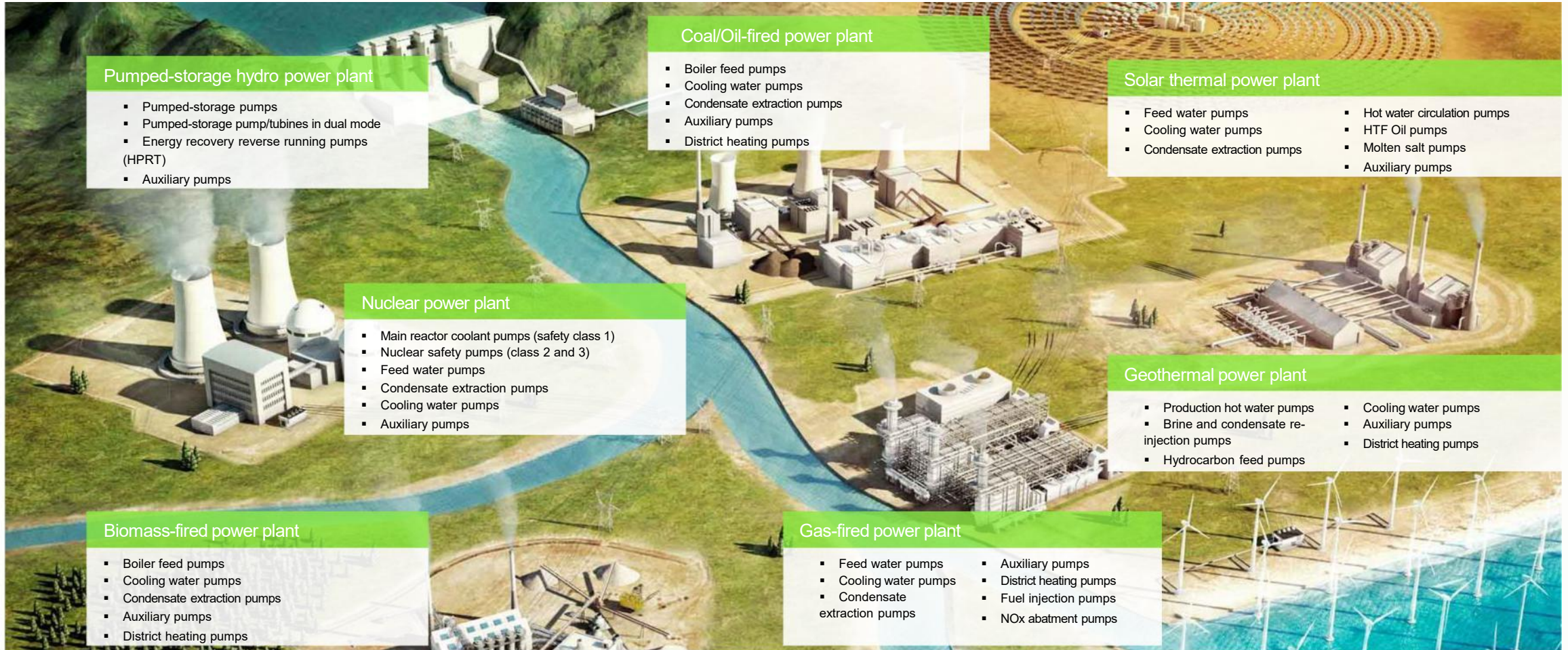
## Pipelines

- Oil transport and boosting



# Energy – Power& Renewables

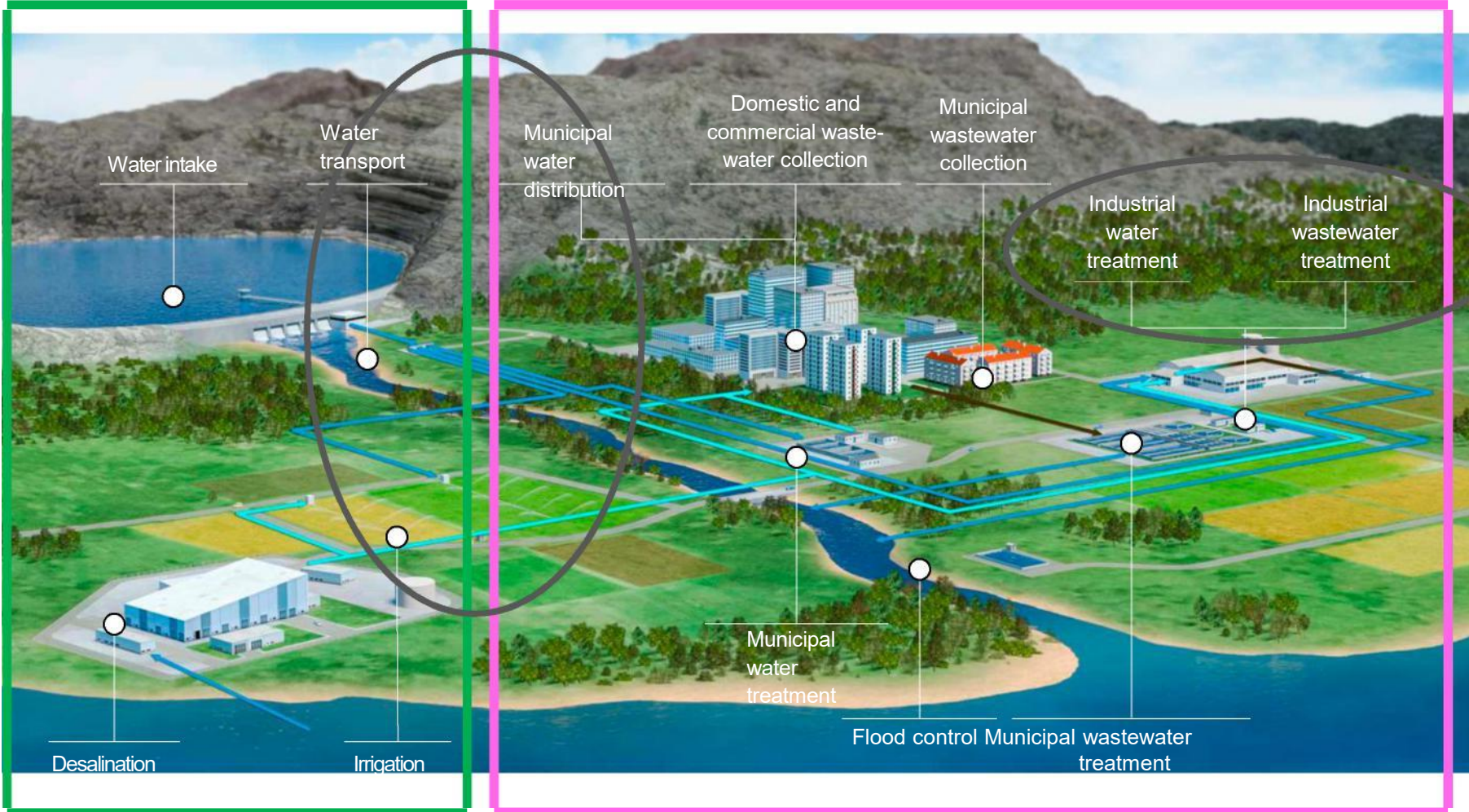
## Solutions for Power Generation



\*E&I BU – Engineered Water: Rikus Botha

\*W&I BU – Industrial Water: Paul Maifo

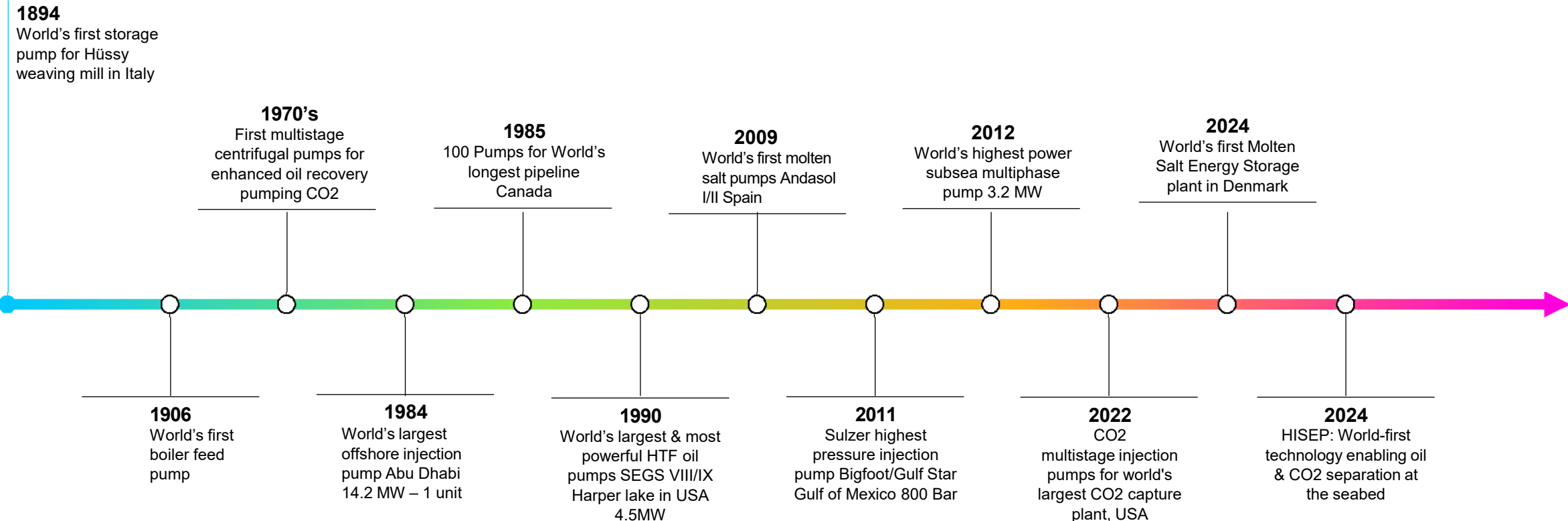
# Infrastructure – EIBU vs WIBU \*Overlap (Mining and dewatering) Solutions for the water management



- Submersible pumps
- Compressors and aeration
- Sewage grinders
- Submersible mixers and agitators
- Progressing cavity pumps
- Axially-split pumps
- Ring section pumps
- Vertical pumps
- Control and monitoring solutions
- Single stage pumps
- Dewatering pumps
- Lifting stations
- Screens
- Filters
- Sedimentation equipment

# Innovation Milestones

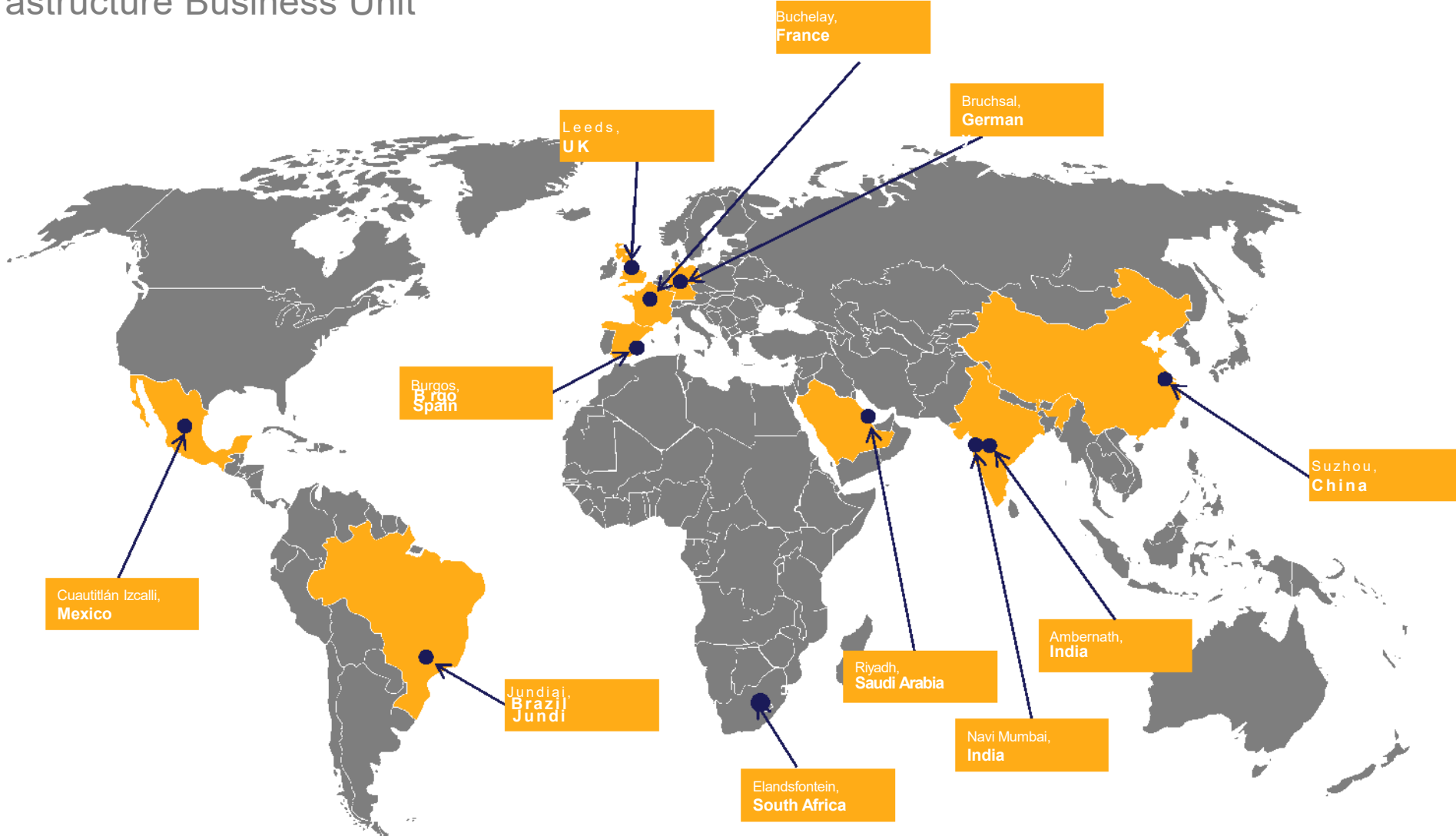
## Energy and Infrastructure Business Unit



# Industrial operations

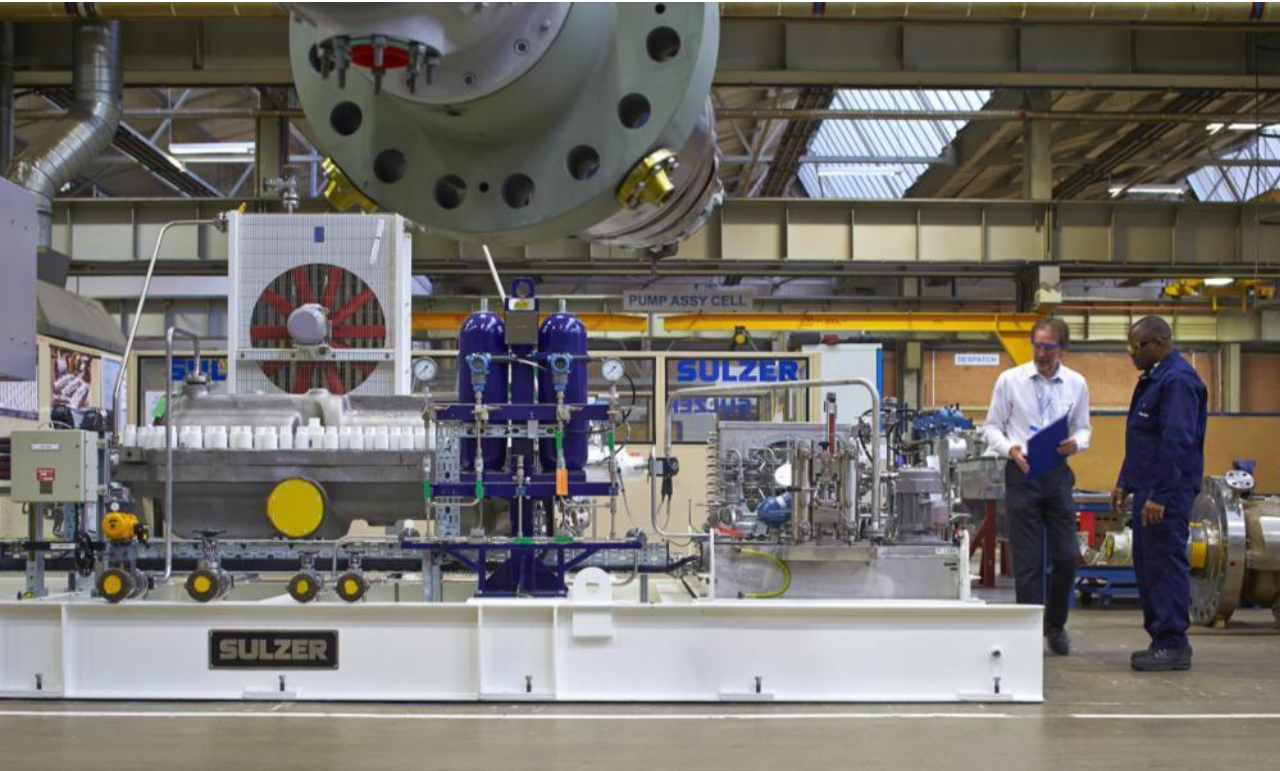
# Factory Network

Energy and Infrastructure Business Unit



# UK

Leeds



- Custom-engineered pumps for the oil and gas industry
- In operation since 1846
- Testing: one of the world's largest pump test beds for string testing gas turbine driven pump packages with installed drive power of up to 30 MW
- Certificates: ISO 9001, ISO 14001 and OHSAS 18001
- Specialty: subsea test bed to test pump/motor packages with powers up to 6 MW under realistic submerged conditions

# Spain

## Burgos



- Vertical pumps for seawater intake, cooling water and condensate extraction applications
- Single and multi-stage pumps for water pumping stations and irrigation plants
- In operation since 1966
- Testing: up to 1.2 MW, LV/MV
- Certificates: ISO 9001, ISO 14001 and OHSAS 18001
- Specialty: double loop with a suction tank for horizontals and 6.5 m pump pit depth for verticals to test units at normal running speeds for flows up to 11,000 m<sup>3</sup>/h and pressure ratings of 25 kg/cm<sup>2</sup>

# India

Navi Mumbai



- Engineered, pre-engineered and standard pumps for hydrocarbon processing, industrial and power markets
- In operation since 1974
- Testing: 3.5 MW capacity, 50Hz and 60 Hz, up to eight pumps. There are 8 test beds
- Certificates: ISO 9001, ISO 14001 and OHSAS 18001
- Specialty: addressing the entire chain of API pumps in the oil & gas and supercritical power segments. A best cost sourcing global platform catering to mostly all types of API pumps supporting Global Sulzer legal entities

# Saudi Arabia

Riyadh



- Engineered horizontal and vertical centrifugal pumps to API 610 and ASME B73.1 standard for the oil and gas, water and power industries
- In operation since 1988
- Testing: 460 V, 4.16 and 13.2 kV electrical supply installed, motor capacity up to 3.7 MW and a sump depth of 10 meters to allow for vertical pump testing
- Certificates: ISO 9001, ISO 14001, ISO 45001
- Specialty: Lube oil systems to API 614 are manufactured under license from Enpro
- Firefighting pump packages are UL listed and to NFPA20 standard

# China

Suzhou



- Wide range of custom-engineered pumping solutions for the oil and gas and power industries
- In operation since 2009
- Testing: up to 65'000 m<sup>3</sup>/h of bare shaft pumps or packaged units
- Certificates: ISO 9001, ISO 14001, ISO45001
- Specialty: 10 MW power supply and variable frequency drive ability

# India

Ambernath



- Engineered, pre-engineered and standard pumps for hydrocarbon processing, industrial and power markets.
- In operation since 2019
- Testing: 8 MW capacity, 50Hz and 60 Hz with 3 test beds
- Specialty: The state-of-the-art fully air-conditioned manufacturing facility is equipped with Sulzer testing software gCATS with remote monitoring. This factory will be dedicated to supercritical power segment like Nuclear.

# South Africa

## Germiston



- In operation since 1922.
- Africa Team of 360 employees (300 in SA, 60 Ghana/Nigeria)
- Manufacturing HPH range of pumps + Parts/Duplicate/Retrofit
- Servicing and repairing all Sulzer pumps
- Packaged solutions
- Certificates: ISO 9001, ISO 14001, ISO 45001, ISO 3834
- Specialty: Repairs on all makes of pumps including reverse engineering.
- Test bed largest of its kind in the southern hemisphere. Dedicated areas to test large vertical pumps, water supply pumps, **mine dewatering** and specialized hydrocarbon processing pumps.
- Full speed testing can be done with power absorption figures up to 4000Kw at 11000 Volts.
- Pressures up to 16 MPa and flow rates of 20'000 liters per second can be accurately recorded. HPT up to 72 MPa
- Lifting capacity consists of 2 x 20 Tonne cranes and various NPSH requirements can be simulated using the 22'000-liter supply vessel. <sup>26</sup>

# Product offering - EIBU

For every need

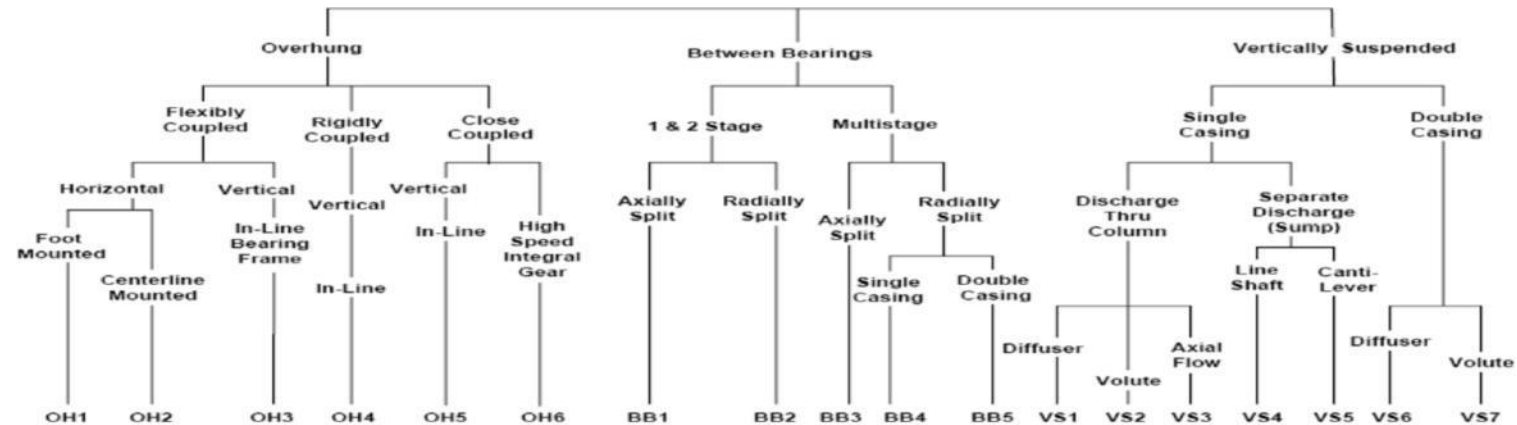
## Pre-engineered

Pre-defined scope according to market requirements, standard components for faster delivery time and reduced cost

## Engineered

Fully tailor made pumping solutions to suit customer requirements for the most complex applications

# Product offering energy unit



Model	Type	Max Head (m)	Max Pressure (bar)	Flow Rate (m <sup>3</sup> /h)	Industry	Industry/Application
BB5	Radial split multi-stage barrel	10 000	1100	4000	Power/Renewables	Hazardous fluids, high pressure applications
BB3	Multistage, axially split	2,900	300	3,200	O&G/Power/Renew/Clean water/Desalination	High pressure boilers, water injection
BB2	Radially split, 1-2 stage	760	100	2600	O&G/Power/Renew/Clean water	General industrial, water supply (Transportation) irrigation, Large volumes of water.
BB1	Axially split, 1-2 stage	250	34	18,000	O&G/Power/Renew/Clean water/Desalination	Crude oil pipelines, heavy duty applications. Low to medium pressure applications
VS4	Vertically suspended, single casing	280	40	750	ALL (VA/VAP)	Sewage, sump service
VS1/2	Vertically suspended, diffuser	900	78	5000	O&G/Power/Renew/W-WW/Desalination	Irrigation, flood control, cooling towers
OH3	Vertical inline pump	450	50	1450	O&G/Power/Renew/W-WW/Desalination	Light pumping around, tankfarm boosting
OH2	Overhung, CL supported	400	75	2250	O&G	High temperature applications
OH1	Overhung, Foot flexibly coupled	300	50	4500	ALL (AHLSTAR)	Moderate applications, general industrial

# Product overview

## Upstream and midstream

### Axially split pumps MPP and PP-OHH

HPDM HSA HSB MSD



MPP MPP-OHH



### Radially-split multistage, barrel pumps Radially-split one/two stage pumps

CP GSG HPcp/HPcpV



BBS/CD BBTD



### Single stage, end suction/ overhung pumps

CPE EMTECH OHH/OHHL OHV/OHVL PRE/



PRELF



PRER/  
PRETR



ZA/ZE/ZF



### Vertical pumps

SJD-API SJS SJT-API OCV/OCVL

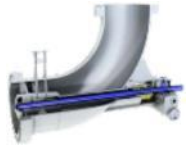


# Product overview

## Downstream

### Axially flow pumps Axially split pumps

AH



HSA HSB MSD



### Radially-split multistage, barrel pumps Radially-split multistage, one/two stage pumps

CP GSG



BBS/CD BBTD



### Single stage, end suction/ overhung pumps

CPE EMTECH OHH/OHHL OHV/OHVL PRE/PRELF PRER/PRETR ZA/ZE/ZF



### Vertical pumps

SJT-API SVE VAS SJD-API OCV/OCVL VA/VAP VSF



# Product overview

## Fossil-fuel power

### Feedwater pumps

HPT GSG CP MSD MC MD ME



### Booster pumps Condensate extraction pumps

HZB ZE BBS PRE



SJD-CEP ZE PRE MC BBS



### Cooling water pumps

SJT / SJM CWP SJT SJM SMD HSA ZPP



### Auxiliary services pumps

ZE / ZF PRE

/ PRER /  
PRETR

AHLSTAR SNS CPE SMD HSA



# Product overview

## Nuclear power

### Nuclear island services pumps

GVG GSG CP MSD HSB HZB CD ZFn



### Nuclear island services pumps Feedwater and booster pumps

REL OHH SJT/SMM VCR



HPTd CD HZB



### Condensate extraction pumps Cooling water pumps

SJD-CEP



SJT/SJM CWP SJT/SJM



### Auxiliary services pumps

AHLSTAR CPE OHH SMD SMN CZ/ZA/ZE/ZF SJT/SJM



# Product overview

## Solar power

### HTF oil pumps Molten salt pumps

HZB-HTF BBS ZE/ZF OHH



VEY/VNY



### Hot water circulation pumps Feedwater pumps

ZE / ZF PRER/PRETR



MD MC MBN GSG



### Cooling water pumps

SJT SJM SMD SMN ZPP



### Condensate extraction Auxiliary pumps

SJD-CEP ZE



AHLSTAR SNS



# Product overview

## Biomass power

### Boiler feed pumps

HPT GSG MD MC MBM MSD



### Cooling water pumps

SJT/SJM CWP SJT SJM SMD SMN ZPP AHLSTAR CPE

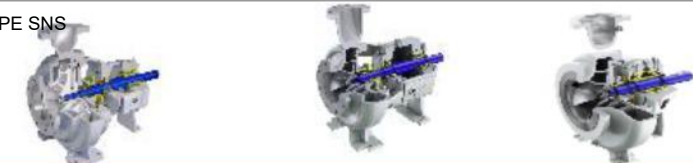


### Condensate extration pumps Auxiliary pumps

SJD-CEP SJD-API ZE/ZF PRE



AHLSTAR CPE SNS



### Auxiliary pumps

PRE/  
PRER/PRETR

AFP XFP CVT NKP/NKT NVP/NVT



# Product overview

## Geothermal power

### Brine re-injection pumps (BRIP)

OHH PRE BBS MBN MC MSD HPcp



### Condensate re-injection pump (CRIP) Production pump

SJD-CEP ZE PRE



SJT-Geo



### Hydrocarbon feed pumps Auxiliary

SJD-API SJD-CEP



AHLSTAR CPE SNS



### Cooling water pumps

SJT SJM SMD SMN ZPP



# Products overview

for water intake and water transport

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## Vertical pumps Ring section pumps

SJT vertical pumps SJM vertical pumps JTS standard



vertical turbine pumps



MBN-RO  
multistage  
ring section  
pumps



MBN medium pressure  
stage casing  
pumps



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## Axially split pumps

SMD axially split casing  
double suction  
pumps



HPDM axially split  
volute casing  
pumps



# Product overview

## Desalination

### Single stage pumps

Ahlar  
A-range  
pumps



A - RO  
pumps



SNS end-suction  
single stage  
centrifugal pumps



ZE / ZF end-  
suction  
pumps



CPE chemical  
end-suction  
centrifugal  
pumps



BBS and CD  
between bearings  
single stage pumps



PRE end suction  
process pumps



### Axially split pumps

SMD axially split casing  
double suction  
pumps



MSN-RO  
axially split  
multistage  
pumps



MSD-RO  
axially split  
multistage  
pumps



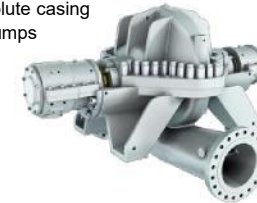
MSD axially split  
multistage pumps



HSB horizontal axially  
split single stage between  
bearing pumps



HPDM axially split  
volute casing  
pumps



ZPP double suction,  
axially split  
single stage  
centrifugal  
pumps



### Ring section pumps Vertical pumps

MBN-RO  
multistage  
ring section  
pumps



MBN medium pressure  
stage casing  
pumps



MC high pressure  
stage casing pumps



SJT vertical pumps SJM vertical pumps



# WIBU – Water and Industrial Business Unit

Product offering

# Solutions for Industrial applications



## Pulp, paper and board

- wood yard
- chemical pulp fiber line
- chemical recovery
- pulp drying machine
- mechanical pulp line
- recycled fiber line
- paper and board machine and systems
- coating and finishing
- chemicals
- water supply
- industrial water and effluent treatment
- process equipment development for cellulose, textile and bio-based feedstock
- oil-free compressed air applications
- power plant (in co-operation with Energy BU)



## Metals, mining, mine dewatering

- |   |  |
|---|--|
| <p><b>Metals</b></p> <ul style="list-style-type: none"> <li>• copper processing</li> <li>• carbon steel processing</li> <li>• zinc processing</li> <li>• nickel processing</li> <li>• steel processing</li> <li>• precious metal processing</li> <li>• alumina and aluminum processing</li> <li>• lithium processing</li> <li>• metals water treatment</li> </ul> | <p><b>Mining</b></p> <ul style="list-style-type: none"> <li>• minerals processing</li> <li>• ore separation</li> <li>• slurry transfer</li> <li>• flotation</li> <li>• process water transfer</li> </ul> <p><b>Mine water</b></p> <ul style="list-style-type: none"> <li>• open pit processing</li> <li>• underground water transfer</li> <li>• process dewatering</li> <li>• tailing ponds and water reclamation</li> <li>• mine water treatment</li> </ul> |
|---|--|



## Chemical processing

- From raw materials to end-products in:
- Basic organics and polymers (in co-operation with EIBU)
  - Basic inorganics including industrial gases
  - Specialty chemicals (paints, coatings, pigments, agrochemicals, pesticides, ...)

- Applications:
- Tanks for neutralization/mixing/reaction/storage
  - Evaporation-crystallization units
  - Extraction tower and liquid-liquid extraction
  - Product transfer and scrubbing of waste/tail gas
  - Waters transfer including boiler unit, cooling water unit, water treatment plant



## Food & beverage, biofuels

- |  |   |
|--|---|
| <p><b>Food</b></p> <ul style="list-style-type: none"> <li>• cane and beet sugar factories</li> <li>• sugar refineries</li> <li>• starch and sweeteners plants</li> <li>• yeast production</li> <li>• amino acids</li> <li>• vegetable oils</li> <li>• fish farming</li> <li>• industrial water and effluent treatment</li> </ul> | <p><b>Biofuels (1st and 2nd generation) production</b></p> <ul style="list-style-type: none"> <li>• biogas plants</li> <li>• storage tanks</li> <li>• mixing stations</li> <li>• industrial water and effluent treatment</li> </ul> |
|--|---|



## Fertilizers Industrial treatment

- From raw materials to end-products in:
- Organic and inorganic fertilizers (phosphate, potash and NPK)

- Applications:
- Tanks for neutralization/mixing/reaction/storage
  - Evaporation-crystallization units
  - Extraction tower and liquid-liquid extraction
  - Product transfer and scrubbing of waste/tail gas
  - Waters transfer including boiler unit, cooling water unit, water treatment plant



- Industrial water treatment
- Industrial wastewater treatment

# Home of many brands

Original spare parts and service guaranteed

**SULZER** | Nordic Water

**Ensival Moret**  
A Moret Industries Company

**JWC**  
Environmental

**SCABA**

**EG** ENSO-GUTZEIT OY

**TARTEK OY**  
Mechanical seals

**SALOMIX**



**GOTHIA**

**AHLSTROM**  
PUMPS



**JMW**

**abs**

**Serlachius**  
Pump Factory

**Warren**  
Pumps

**scanpump**

## All brands

- ABS
- Ahlström
- API
- Bingham Pumps
- Deplechin
- Ensival Moret
- Enso
- Gothia
- Hidrotecar
- JMW
- Johnston Pump Company
- JWC Environmental
- Kestner
- Nopol
- Nordic Water
- Pump Industry
- Pumpex
- Salomix
- Scaba
- Scanpump
- Serlachius
- Swedmeter
- Tartek
- Warren
- Virax

# Products for municipal wastewater

## Submersible light and medium duty pumps

Light drainage pumps type ABS Robusta



Light drainage pumps type ABS Coronada



Light wastewater pumps type ABS MF



Light drainage pumps type ABS IP



Submersible wastewater pumps type ABS AS



Submersible grinder pumps type ABS Piranha



Submersible sewage pumps type ABS XFP



## Submersible heavy-duty pumps Recirculation pumps Dry installed pumps

Submersible sewage pumps type ABS XFP



Submersible sewage pumps type ABS AFP



Submersible sewage mixed flow column pumps type ABS AFLX



Submersible recirculation pumps type ABS XRCP / RCP



Submersible sewage mixed flow column pumps type ABS AFLX



Submersible propeller pumps type ABS VUPX



Dry-installed sewage pumps type ABS FR



## Lifting stations

Lifting stations type ABS Synconta



Lifting stations type ABS Sanimat



Lifting stations type ABS Piranhamat



Lifting stations type ABS Nirolift



Lifting stations type ABS Sanisett



Lifting stations type ABS Sanimax



# Products for municipal wastewater

## Progressing cavity pumps Sewage grinders

PC transfer pumps PC transfer perform pumps PC cake pumps PC dosing pumps



Inline Muffin Monster™ grinders



Open channel Muffin Monster™ grinders



Channel Monster™ grinders



## Submersible mixers and agitators

Submersible mixers type ABS XRW



Submersible mixers type ABS RW



Flow boosters type ABS XSB



Flow boosters type ABS SB



Scaba top-mounted agitators



SALOMIX SSF and SSA side-mounted agitators



# Products for municipal wastewater

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## Compressors and aerators

HST™  
turbocompressors



OKI aerator  
mixers



Venturi Jet  
aerators  
type ABS



Submersible aerators  
type ABS  
XTA / XTAK



Disc diffuser systems  
type ABS



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## Control and monitoring equipment

Pump monitoring Equipment



controllers



Control panels Measuring devices



# Products for municipal wastewater

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## Screening solutions

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Auger Monster™ Vertical Auger



Monster™



Monster wash press with grinder



Honey Monster™



# Products for municipal wastewater

## Filtration solutions

DynaDrum  
self-cleaning drum filter



DynaDisc  
microscreen filter



DynaCloth  
fiber disc filter



DynaSand  
continuous sand filter



Sobyte  
fine screen belt filter



## Sedimentation solutions Screening solutions

Lamella  
settler



Zickert  
sludge scraper



MevaGrit  
grit washers and classifiers



MevaPress  
screenings treatment



MevaScreen MevaSpiral



# Products for domestic and commercial wastewater

## Submersible light and medium duty pumps

Light drainage pumps type ABS Robusta



Light drainage pumps type ABS Coronada



Light wastewater pumps type ABS MF



Light wastewater pumps type ABS MF hot water



Light drainage pumps type ABS IP



Submersible wastewater pumps type ABS AS



Submersible grinder pumps type ABS Piranha



## Lifting stations

Lifting stations type ABS Synconta



Lifting stations type ABS Sanimat



Lifting stations type ABS Piranhamat 100/120



Lifting stations type ABS Piranhamat 701\_1002



Lifting stations type ABS Nirolift



Lifting stations type ABS Sanisett



Lifting stations type ABS Sanimax



## Sewage grinders Control and monitoring equipment

Inline Muffin Monster™ grinders



Open channel Muffin Monster™ grinders



Channel Monster™ grinders



Pump monitoring Equipment



controllers



Control panels Measuring devices



# Products for municipal water

## Single stage pumps

SES / SKS end-suction centrifugal pumps



AhIstar A-range



SNS end-suction single stage centrifugal pumps



CPE chemical end-suction centrifugal pumps



SIL inline single-stage centrifugal pumps



## Axially split pumps Ring section pumps Vertical pumps Progressing cavity pumps

SMD axially split casing double suction pumps



VMS vertical multistage pumps



JTS standard vertical turbine pumps



SJT vertical pumps SJM vertical pumps



PC transfer pumps



## Submersible mixers and agitators Compressors

Submersible mixers type ABS XRW



Submersible mixers type ABS RW



Scaba top-mounted agitators



HST™ turbocompressors



HSR turbocompressors



# Products for water intake and water transport

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## Vertical pumps Ring section pumps

SJT vertical pumps SJM vertical pumps JTS standard



vertical turbine pumps



MBN-RO multistage ring section pumps



MBN medium pressure stage casing pumps



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## Axially split pumps

SMD axially split casing double suction pumps



HPDM axially split volute casing pumps



# Products for irrigation

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## Vertical pumps Ring section pumps

SJT vertical pumps SJM vertical pumps JTS standard



vertical turbine pumps



MBN medium pressure stage casing pumps



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## Axially split pumps Single stage pumps Recirculation pumps Vertical pumps

SMD axially split casing double suction pumps



HPDM axially split volute casing pumps



SES / SKS end-suction centrifugal pumps



Submersible propeller pumps type ABS VUPX



SJP vertical propeller pump



# Products for flood control

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## Submersible heavy-duty pumps Vertical pumps Submersible light and medium duty pumps

Submersible sewage pumps type ABS XFP



Submersible sewage mixed flow column pumps type ABS AFLX



Submersible propeller pumps type ABS VUPX



SJP vertical propeller pump



Light drainage pumps type ABS Robusta



Light drainage pumps type ABS Coronada



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## Submersible dewatering pumps

Submersible drainage pumps J



Submersible drainage pumps XJ



Submersible drainage center-line pumps JC



Submersible drainage center-line pumps XJC



Submersible sludge pumps JS



Submersible sludge pumps XJS



# Products for construction and tunneling dewatering

## Submersible dewatering pumps

Submersible drainage pumps J



Submersible drainage pumps XJ



Submersible drainage center-line pumps JC



Submersible drainage center-line pumps XJC



Submersible sludge pumps JS



Submersible sludge pumps XJS



## Submersible light and medium duty pumps Lifting stations Slurry pumps

Light drainage pumps type ABS Robusta



Light drainage pumps type ABS Coronada



Light wastewater pumps type ABS MFVO



Submersible sewage pumps type ABS XFP



Lifting stations type ABS Piranhamat



EMW slurry pumps



## Single stage pumps Axially split pumps Ring section pumps Optional features for submersible dewatering pumps

Process pumps Ahlstar



A-range



SMD axially split casing suction pumps



MBN, MC high pressure pumps



VMS vertical multistage pumps



AquaPlug AquaTronic Level



sensor

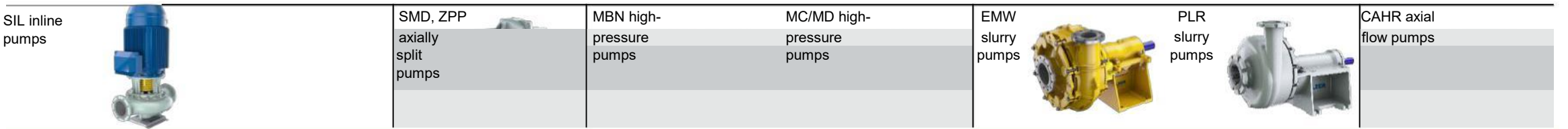


# Products for metals and mining industry

## Single-stage pumps



## Single-stage inline pumps Axially split pumps Ring section pumps Slurry pumps Axial flow pumps



## Vertical pumps PC pumps



## Agitators Submersible pumps and mixers Aeration and compressors



# Products for mine water management







## Submersible dewatering pumps

Submersible drainage pumps XJ		Submersible drainage center-line pumps XJC		Submersible sludge pumps XJS		Submersible drainage pumps J		Submersible sludge pumps JS		Submersible drainage center-line pumps JC		Submersible sewage pumps type ABS XFP		MSHA pumps J Mex (available in the USA only)	
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## Single-stage pumps Ring section pumps Agitators

AHLSTAR process pumps		AHLSTAR WPP/T wear-resistant pumps		SNS process pumps		CPE ANSI process pumps		MBN high-pressure pumps		HPH/HPL high-pressure pumps		Scaba top-mounted agitators		SALOMIX top-mounted agitators	
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## Vertical turbine pumps Axially split pumps

SJT vertical turbine pumps		VE/VN vertical pumps		JTS vertical pumps (available in the USA only)		CS vertical pumps (available in the USA only)		SMD axially-split casing double suction pumps		ZPP axially-split casing double suction pumps	
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## Optional features for submersible dewatering pumps



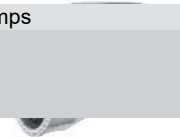



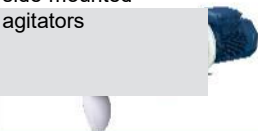

AquaPlugs		Aqua Tronic Level sensor		control panel	
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# Products for biofuels industry

## Single-stage pumps MC products

AHLSTAR process pumps		AHLSTAR NPP/T non-clogging pumps		AHLSTAR WPP/T wear-resistant pumps		AHLSTAR self-priming and gas removal pumps		SNS process pumps		CPE ANSI process pumps		SIL inline pumps		MCE <sup>TM</sup> pumping systems	
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## Slurry pumps Axially split pumps Axial flow pumps Ring section pumps Vertical pumps Agitators

EMW and PLR slurry pumps		ZPP and SMD double suction pumps		CAHR axial flow pumps		MBN multistage ring section pumps		VA/VAP cantilever pumps		SJT vertical turbine pumps		SALOMIX <sup>TM</sup> side-mounted agitators		SALOMIX <sup>TM</sup> and Scaba top-mounted agitators	
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## Positive displacement pumps Grinders Submersible pumps

PC transfer pumps		PC cake pumps		PC dosing pumps		Muffin Monster <sup>TM</sup> grinders		Submersible grinder pumps type ABS Piranha		Submersible heavy-duty pumps type ABS XFP		Submersible propeller pumps type ABS VUPX		Submersible sewage mixed flow column pumps type ABS AFLX	
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## Submersible mixers Aeration and compressors

Submersible mixers type ABS RW and XRW		Flow boosters type ABS SB and XSB		OKI aerator mixers		Aerators type ABS Venturi jet		Submersible aerators type ABS XTA XTAK		Disc diffuser systems type ABS		HST <sup>TM</sup> turbo-compressors		HSR turbo-compressors	
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# A full range of lifecycle services



## Diagnostic and consulting services

- Inspection
- Monitoring
- Diagnostics and analytics
- Consulting and connected services

## Maintenance and support services

- On-site services
- Workshop repairs
- Spare parts
- Rentals
- Service agreements

## Technical and economic optimization

- Technical improvement
- Reliability and energy efficiency increase
- Economic optimization

## Replacement products

# Sulzer Technology Advancements – Condition monitoring

Product offering

# Sulzer Sense

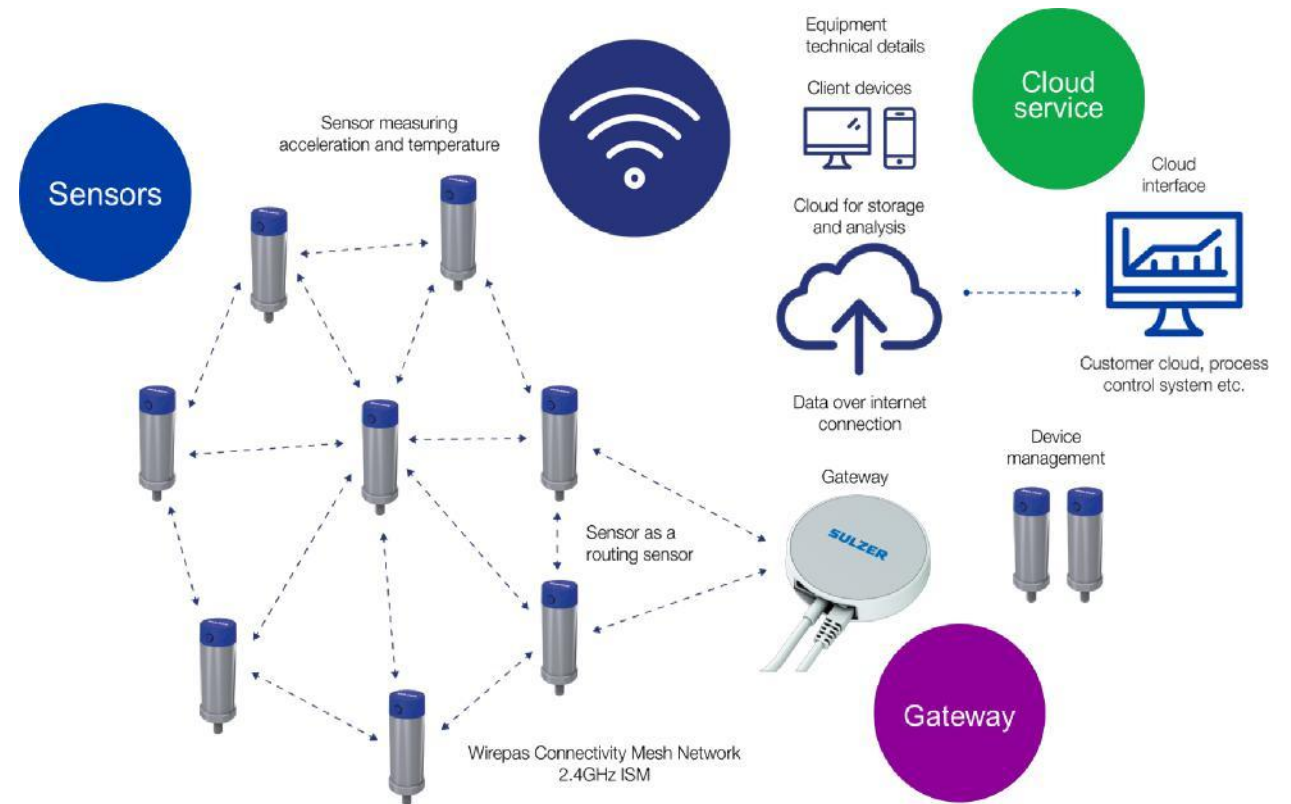
## Wireless IoT condition monitoring

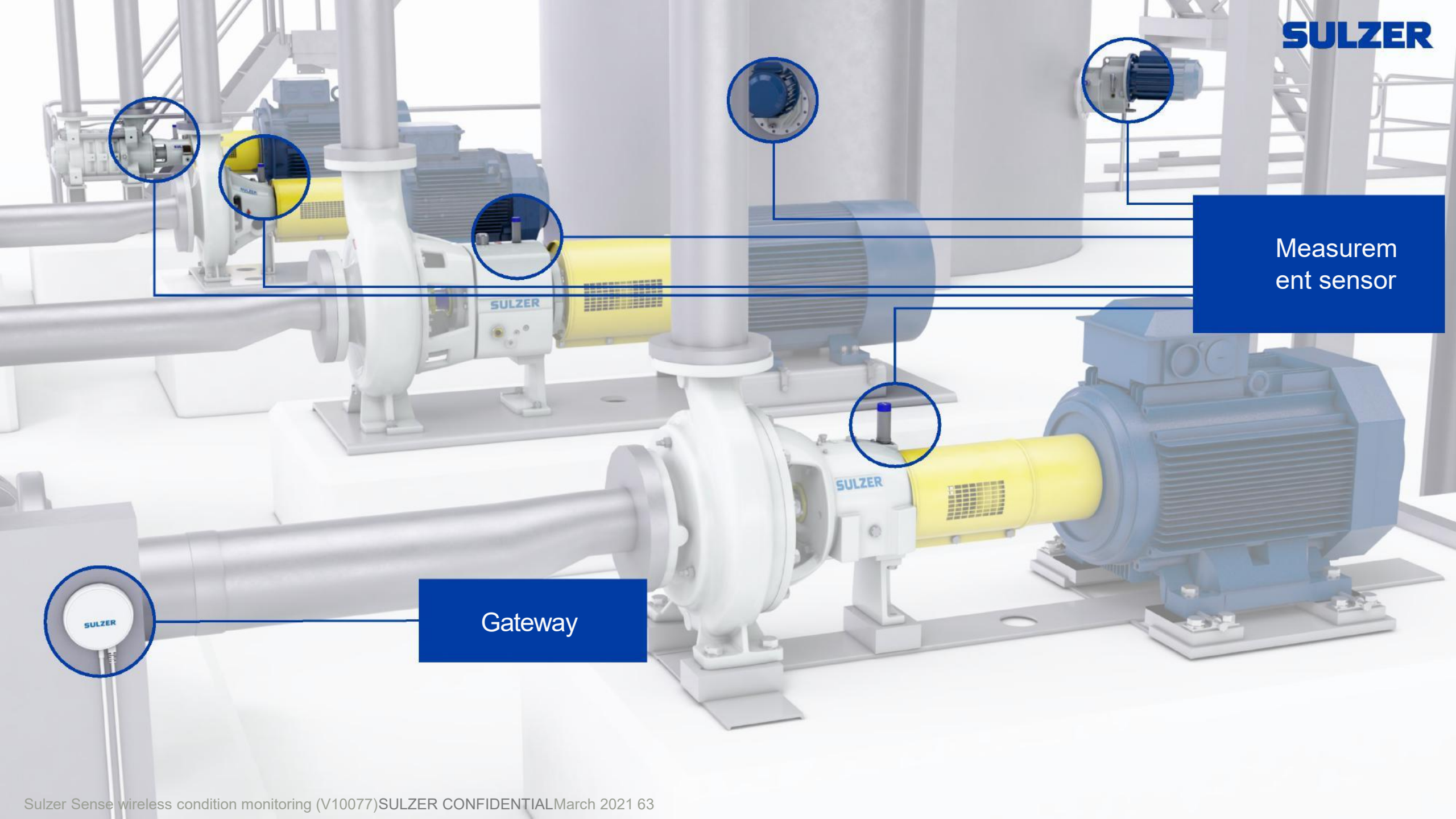
### Monitoring concept

- Sensors, gateway and cloud services
- Wireless Mesh technology
- Cellular, WiFi or Ethernet connection
- Easy access to data through cloud service
- Possibility to transfer measurement data to customer's own system
- Compatible with all types of rotating equipment

### Measurement sensor

- Temperature and vibration
- Battery-operated, quick and easy installation
- Water and dust-proof





Measurement sensor

Gateway

# Sulzer Sense condition monitoring

## Sulzer Sense Cloud Interface

### Benefits



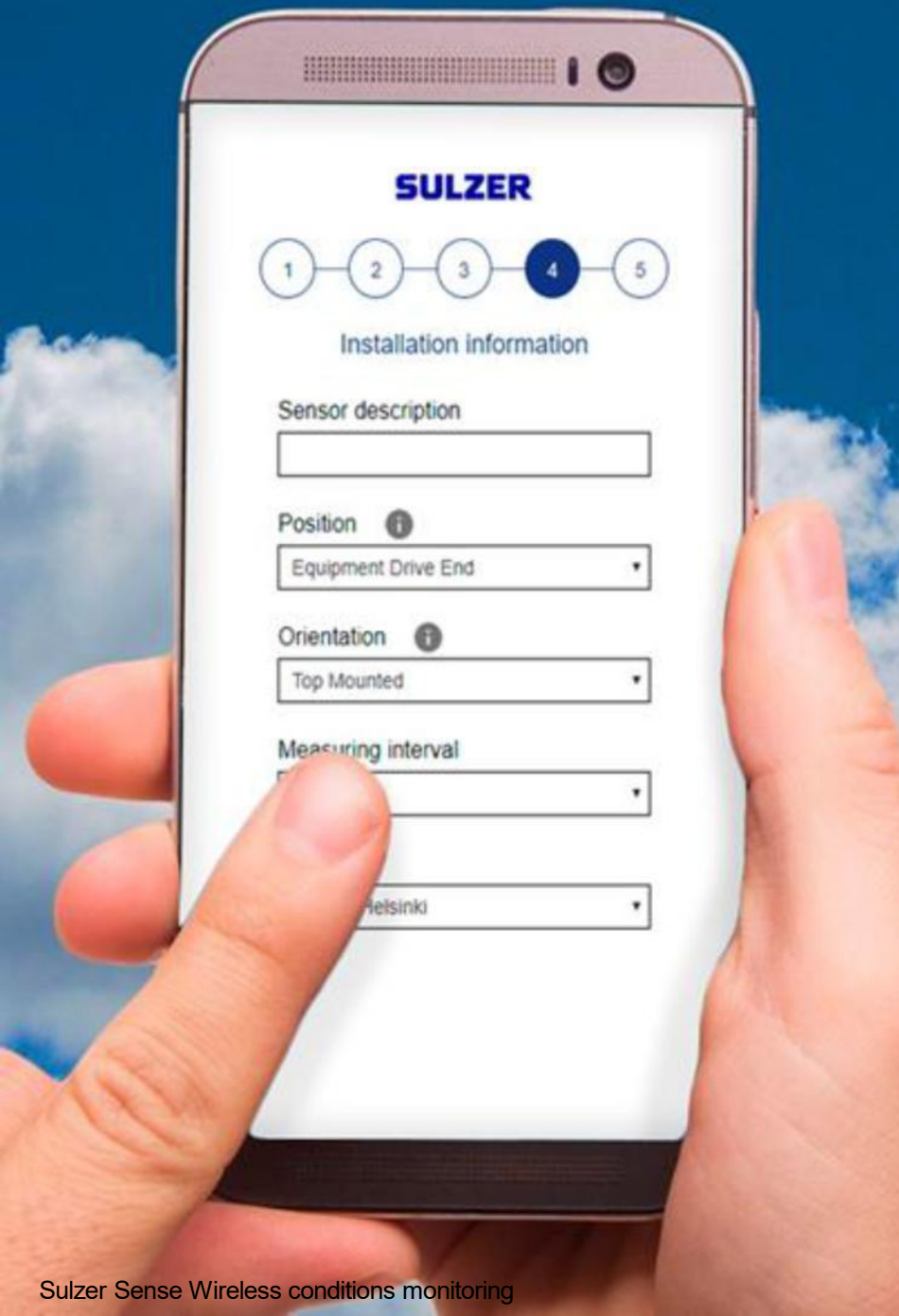
- Get the data into your own system
- Store the data wherever you want
- Visualize, analyze and combine data in your environment
- Monitor your equipment independently of Sulzer Sense cloud service dashboards

### Transferred data



- A list of equipment and measuring devices
- Sensor measurement intervals, threshold levels and statuses
- The time of the last measurement
- Historical measurement data
- Vibration RMS values
- Temperature values
- Vibration FFT values

# Sulzer Sense condition monitoring Deployment application



- User-friendly application helps setup and configure sensors, routing sensors and gateways\*.
- Supports both Sulzer and non-Sulzer equipment
- Sulzer recommended or custom threshold levels
- Available both for IOS and Android devices
- Requires username and password

\*Gateway configuration is done by Sulzer

## Sulzer Sense condition monitoring Online service – content

- Data and analysis collected by Sulzer Sense

### Additional information:

- Pump documentation
- Product specification including bill of material, technical documentation, curves, IOM
- Online quotation / order of spare parts (currently available only in USA)



# Sulzer Sense condition monitoring

## Online service desktop

Equipment Order history Quotations My account ENGLISH Sign Out

**SULZER** Welcome test

Bulk Orders Your Cart \$239.32

HOME / EQUIPMENT

### Equipment

SEARCH RESULT MY LOCATIONS

Serial/equip. Nr./location

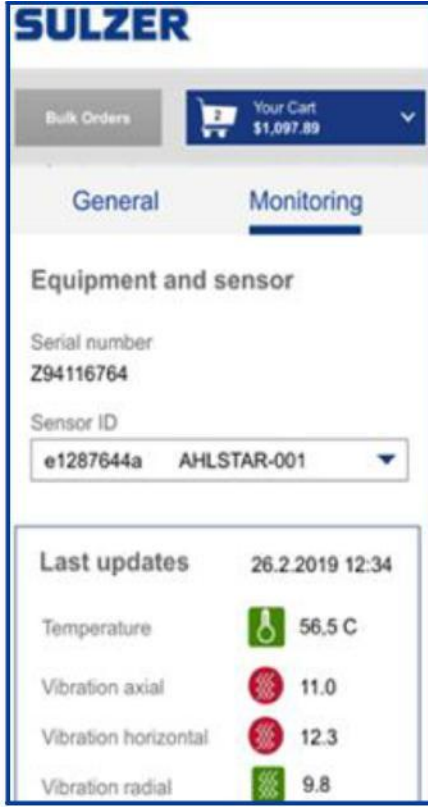
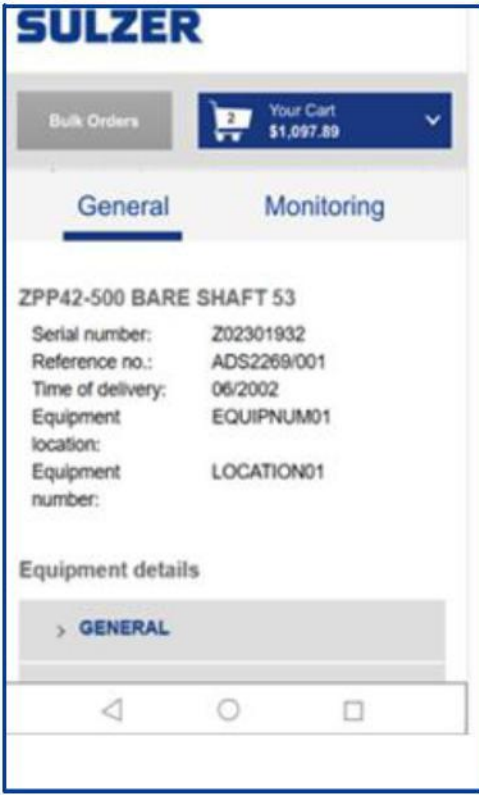
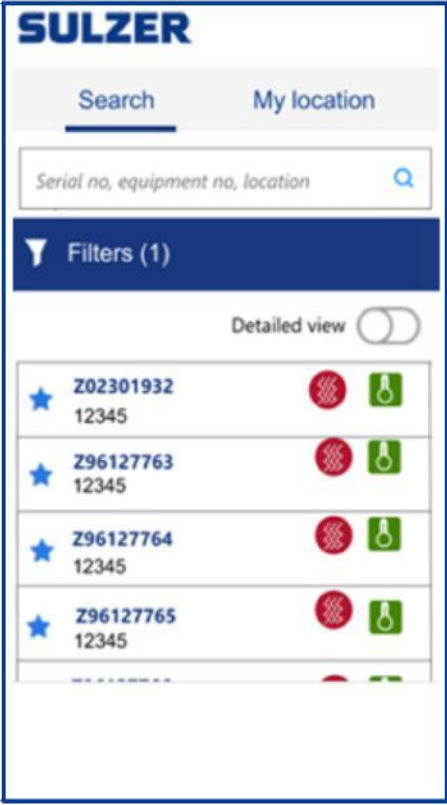
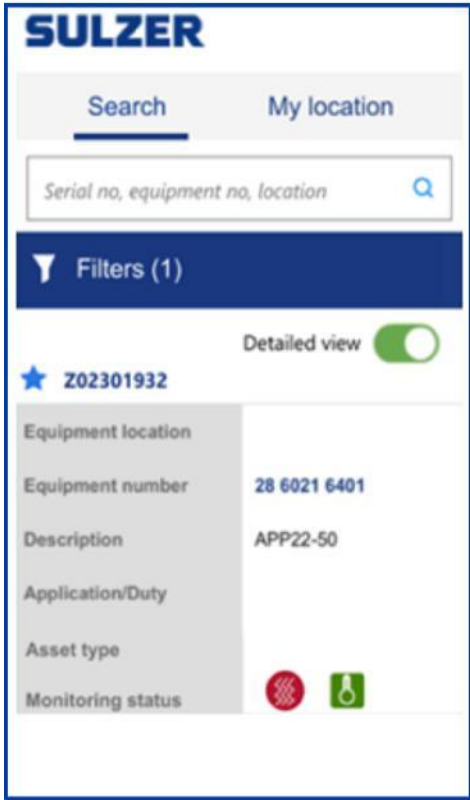
**Favorites**  
Monitoring data  
 MONITORED (22)  
 DISCONNECTED (16)  
 VIBRATION ALERT (6)  
 TEMPERATURE ALERT (2)

Serial nr.	Equipment location	Equip. Nr	Description	Application/Duty	Asset type	Monitoring status
☆ SET3-EQ1			APP11-32			
☆ 100049008	P0005-5	PULM01-000001-P0005	A31-100			
☆ 100071336	E1002-1	PAPM01-002110-E1002	A72-600			
☆ 100078817	E1005-3	PAPM01-002110-E1001	A32-100	WARM WATER		
☆ 100025260	P0002-2	PULM01-000001-P0002	APP 44-200	STRIPPED CONDENSATE		
☆ 100025249	P0001-1	PULM01-000001-P0001	APP 31-100	LIVE STEAM CONDENSATE		
☆ 100025249	P0001-1	PULM01-000001-P0001	APP 31-100	LIVE STEAM CONDENSATE		
☆ 100025249	P0001-1	PULM01-000001-P0001	APP 31-100	LIVE STEAM CONDENSATE		
☆ 100025249	P0001-1	PULM01-000001-P0001	APP 31-100	LIVE STEAM CONDENSATE		

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# Sulzer Sense condition monitoring

## Online service mobile





## ■ BLUE BOX™

- Advanced pump analytics services
- Delivering advanced pump optimization and failure prevention by transforming data into trusted and actionable insights.



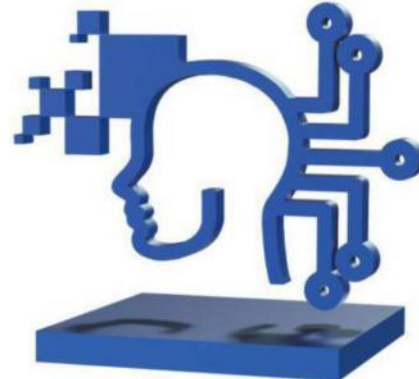
# What sets BLUE BOX apart?

## Secure Smart Supported

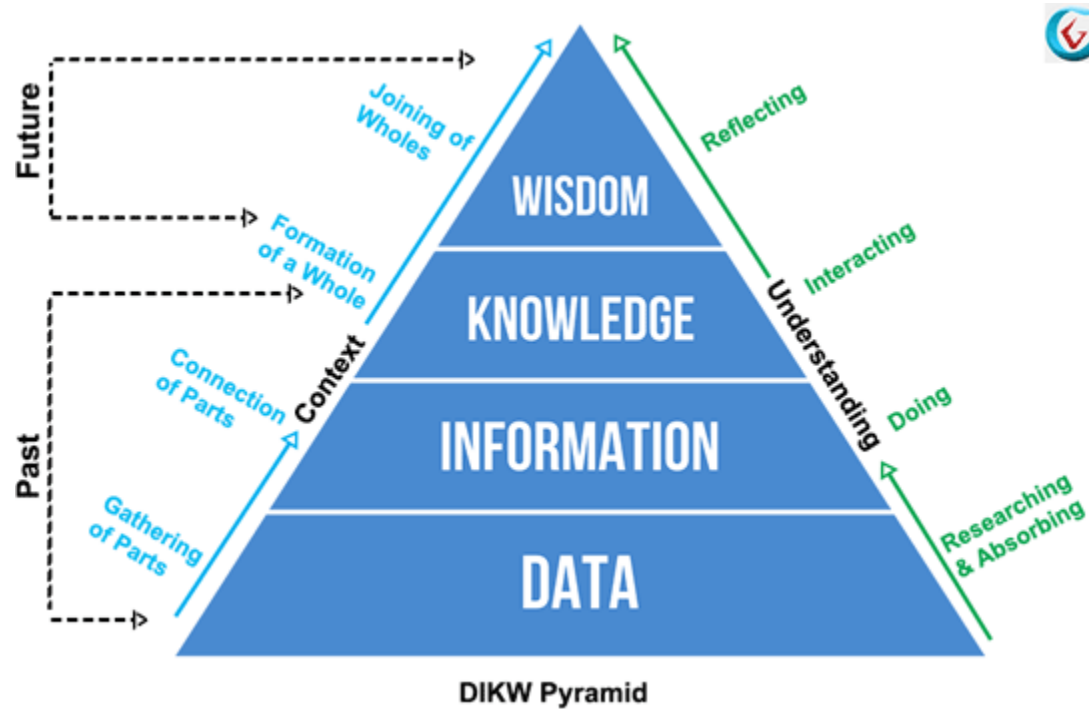
State-of-the-art IoT technology Artificial Intelligence (AI) based Deep expertise in pump technology

- You send us the data **modeling** • On-demand Sulzer engineering
  - It gives you better answers even faster support
- We don't have access to your systems
- You are in full control

to take out the complexity in taking  
acti  
and more accurate on



# ■ Why BLUE BOX



# ▪ Pump-specific, AI-based analytics platform



- Increase pump performance by pinpointing where your assets operate on the curves to debottleneck installations.

- Ensure pump availability by identifying abnormal operations, helping to mitigate operational risks.

- Reduce lifecycle costs and carbon footprints using calculated potential savings.

- Improve pump reliability by estimating remaining pump lifetime.

# Your journey to actionable data



▪ Your data, enhanced by the key features of our solution, enable you to make secure, smart and supported decisions.

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+  
▪ Who we work with ▪ Some BLUE BOX partners



▪ vår energi



**SULZER**

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# Pumps Services

# Services

Unique breadth of OEM and ISP service offering

Pump Services Turbo Services Electro Mechanical Services



Fast, integrated solutions to service, upgrade, and repair **Sulzer** and **non-Sulzer pumps**

**OEM ISP with OEM heritage ISP**

#1

ISP Independent Service Provider; OEM Original Equipment Manufacturer



**OEM like solutions** for parts, maintenance, upgrades, and repairs of turbomachines

Leading ISP with most advanced technology

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SULZER CONFIDENTIAL



Fast response, **technology driven solutions** for industrial users of electric motors and generators.

Leading ISP with most advanced technology

## Your service partner

Delivering solutions customized to your needs and achieving service and product excellence through innovation



### Efficiency

- Optimize your operational efficiency with our customized solutions
- Enhance your competitive advantage with our expertise through energy efficiency, improved production output, arid extended maintenance cycles

### Reliability

- Rapid turnaround to minimize disruption and keep your projects on schedule
- Delivery of outstanding service solutions which can be implemented at any time to increase reliability and availability of your equipment

### Service partner

- Find the right solutions together with our dedicated service teams
- Sulzer is at your side during each phase of the project to develop the best solution to your needs
- We measure our performance in your success and in long-term customer relationships

### Equipment we serve

#### Turbomachinery

- Advanced gas turbines
- Mature gas turbines
- Utility steam turbines
- Industrial steam turbines
- Ancillary turbines
- Centrifugal compressors
- Axial compressors
- Screw compressors
- Reciprocating compressors
- Hot gas expanders

#### Electromechanical equipment

- Air-cooled generators
- Hydrogen-cooled generators
- AC/DC motors
- LV/HV motors
- Permanent magnet motors
- Servo motors
- Alternators
- Transformers
- Gearboxes
- Electro-magnetic brakes
- Variable frequency drives
- Controls
- Wind turbine generators
- Rail specific equipment
- Mining specific equipment
- Marine specific equipment

#### Pumps

- Axially split pumps
- Barrel casing pumps
- Medium consistency products
- Multiphase pumps
- Ring section pumps
- Single stage pumps
- Submersible pumps
- Two stage pumps
- Vertical pumps



## Sulzer Africa

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