

Water & Wastewater

Efficient systems for our most important resource:

Measurement, control, visualization & documentation

FFONSECA
SOLUÇÕES DE VANGUARDA



Our role in the association

Partner of the Plant OEM/construction companies,
engineering offices and planners, municipal institution...

in the fields of

Sensors & Automation Products

Digitalization

Sensor Networks & Communication

Cloud & SCADA Solutions

Service & Installation

Training & Capacity Building



JUMO at a glance...



That's JUMO

Since
1948

Headquarter
located in Fulda,
Germany



14
production
sites

26
subsidiaries

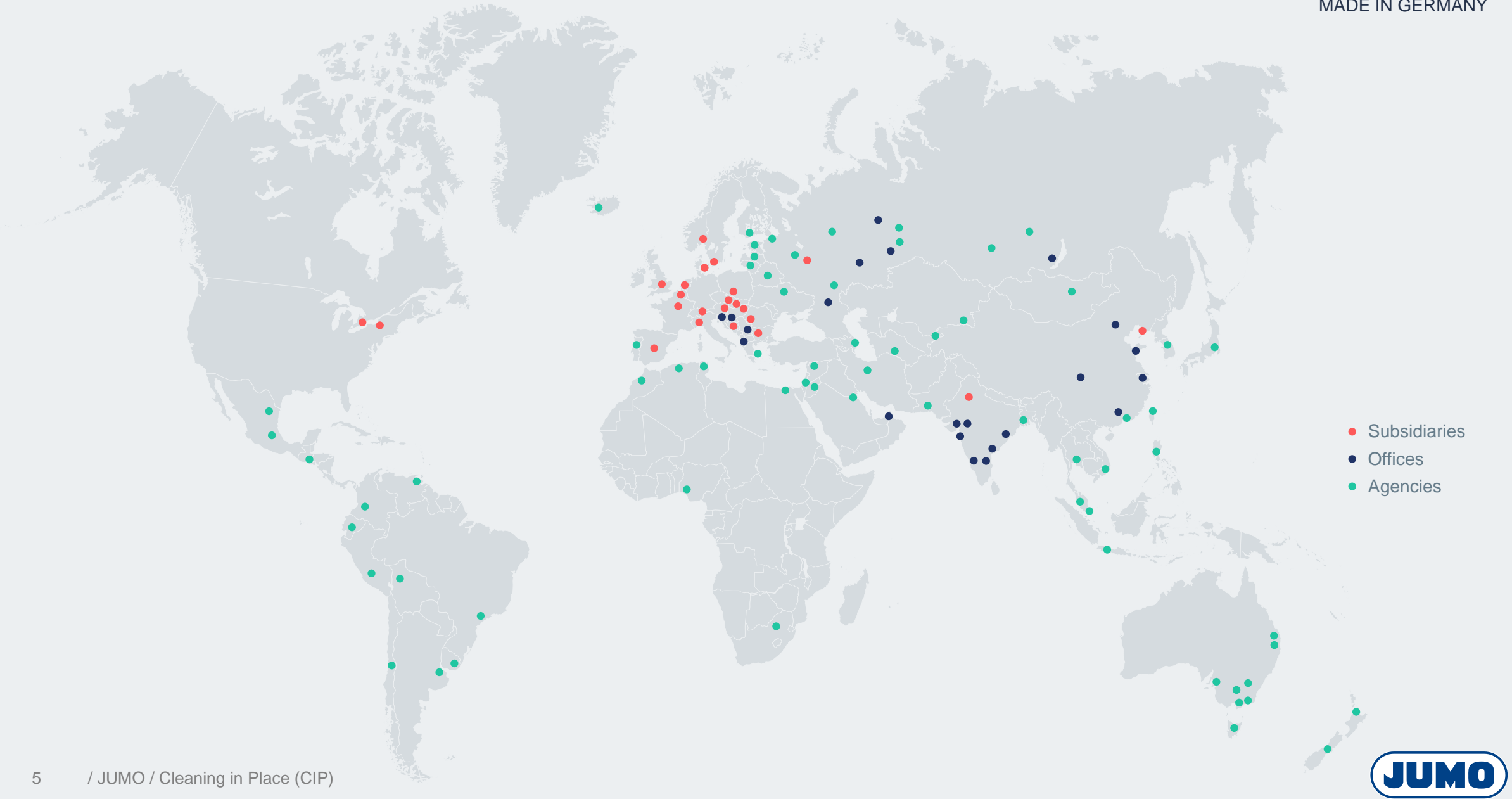
More than
60
agencies

More than
2400
employees

Nearly
350 Mio €
turnover

**Bound by tradition,
committed to progress**





100% Family owned

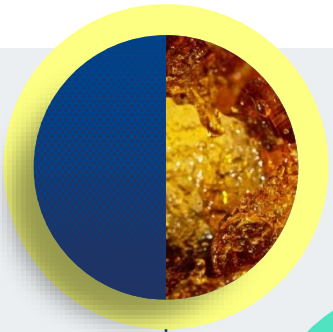


Michael Juchheim



Bernhard Juchheim

Our focus industries



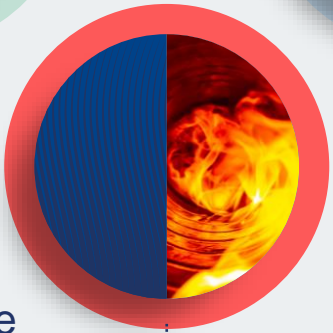
Food & Beverage



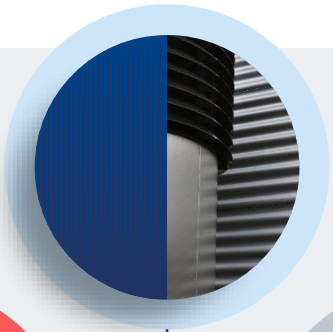
Water & Wastewater



Renewable Energy



Thermo-processing



HVAC



Transportation



Heat-Metering



Distribution



Safety (SIL/ATEX)

PROCESS ENGINEERING SEGMENTS

STRATEGIC SEGMENTS

Focus Industry Water & Wastewater



Your Partner in all water qualities

✔ Ultra Pure Water:

Pharma & HealthCare, Electronic parts & Optical products production

✔ Drinking Water:

from source to tap; Irrigation water; Pool- & Spa Control, River-, Lakewater Control

✔ Sea & Brakish Water:

Fish Farming; Seawater-Desalting

✔ Process Water:

Cooling (-tower) & Cleaning processes; Galvanics, Chemical Processes; Food/Beverage

✔ Waste Water:

Industrial/WasteWater; Recycling & ZLD Processes



Sensor technology for all main parameters in your water project



Liquid Analysis

Water quality parameters

pH & ORP
Conductivity, TDS & Concentration
Dissolved Oxygen
Turbidity (NTU)
Free & Total Chlorine
Peracetic Acid & Chlorine Dioxid
Brom



Flow

Different principles available

Magnetic-Inductive (MID)
Ultrasonic
Turbine
Finger MID
Flow Controller



Level

Certified for safe storage

Hydrostatic level probes
Pressure sensor as level probe
Wireless pressure transmitter
Capacity level switch
Float based switches
Float based level transmitters



Pressure

From basic sensor to process instrumentation...

Pressure sensor basic sensor
Sensors for relative and absolute pressure measurement
Precision pressure transmitters
Sensor with switching outputs
Digital pressure transmitters

Automation technology



Automation Components

For all your needs

Single-Chanel PID-Controllers

Multi-Chanel Controllers

Recorders

SIL-/Safety Products & Solutions

Electromechanical Thermostats

Automation System (PLC)

Scalable & state of the art

Codesys PLC

Intelligent IO-Moduls

Controller Moduls up to 120 PID loops

Fieldbus compatible (Profinet, EtherCat, ModBus TCP/RTU)

Communication via OPC/UA & MQTT

Web Services



SCADA & CLOUD

Data handling safe & smart

Visualisation and data control from anywhere (Web based)

Save data hosting & highest security

Flexible Dashboard design

Alarm & Control system

Engineering & Service

We will not leave you alone

Engineering solutions from Sensor to Cloud

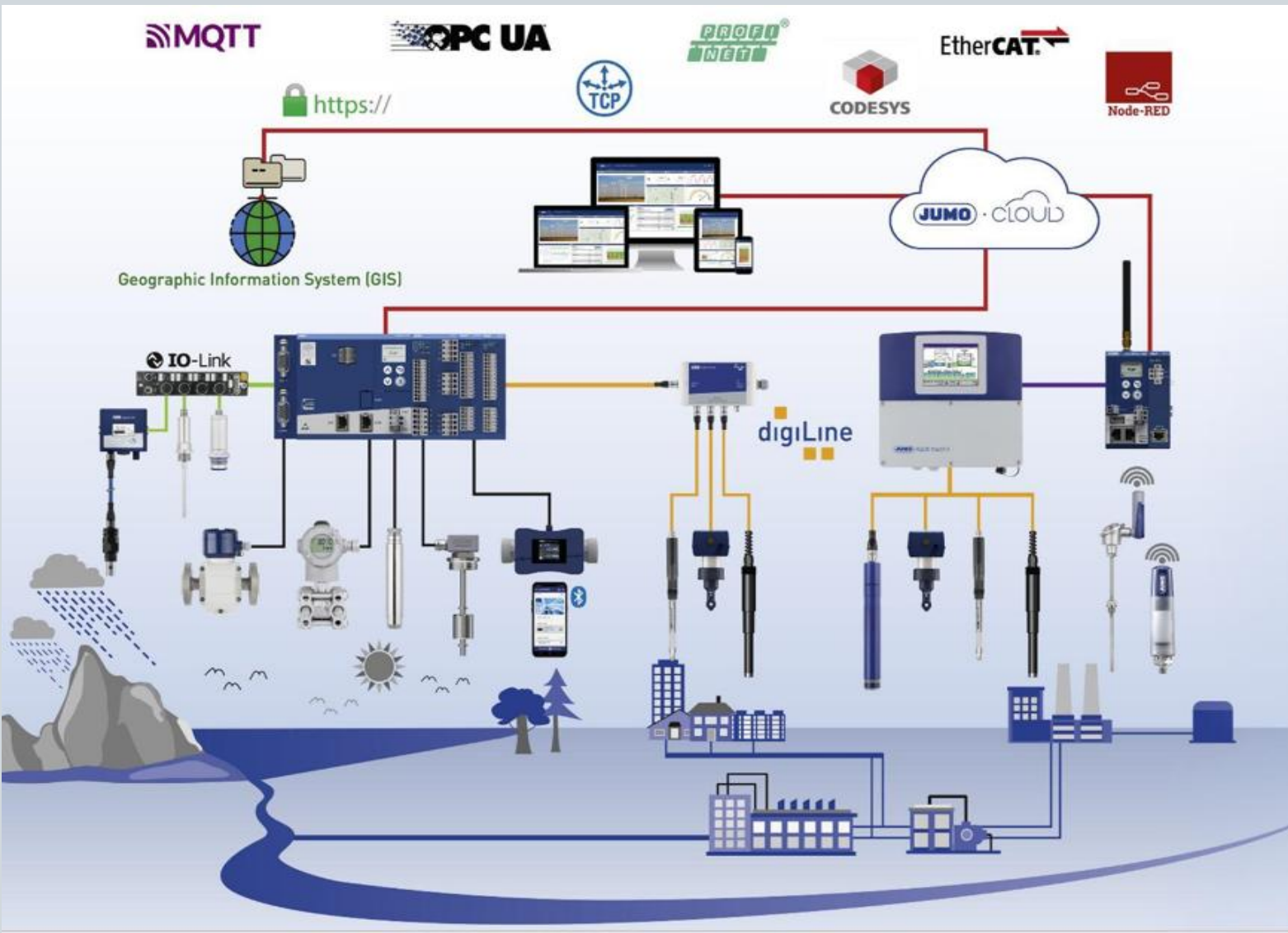
Software & Hardware Project planning

Pre- & After Sales Services

Installation support

Online support

And now FFonseca, Jumo's representative in Portugal...



FFONSECA
SOLUÇÕES DE VANGUARDA



F. Fonseca

Your partner for sensor and automation solutions



Carlos Gonçalves

Founder and CEO
F. Fonseca, S.A.

- Established in 1978
- 77 employees
- 2 locations
 - ✓ Aveiro
 - ✓ Carnaxide

Sales – Engineering – Technical Service

FFONSECA
SOLUÇÕES DE VANGUARDA



F. Fonseca – Main Office (5000 m2 workplace)

Sales / Engineering / Tech support / IT / Warehouse / Marketing / Finance & Accounting / Back Office / Training rooms / Gym



The team





F. Fonseca Water Project Samples

Water Treatment (Reverse Osmosis)



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Water Treatment (Reverse Osmosis)



- Measurement of ORP at the inlet of the treatment process.
- Dosing control.

Water Treatment (Reverse Osmosis)



- Control board and command center installation.
- Measurement of conductivity in untreated water (before treatment process) and treated water (after treatment process).
- With compensated temperature measurement.

Water Treatment (Dessalination Process)



- Control board and command center installation.
- Measurement of conductivity for the inlet water and for the treated water.
- With compensated temperature measurement.

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...why JUMO

- Complete range of products
- Strong sales & service network across Portugal
- JUMO offers complete solution
- JUMO's project references and experience
- Local and global engineering
- Wide range of products available for delivery from stock

Thanks for your audience

*Matthias Kremer
&
Bruno Carvalho*



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