



ECOMONDO 2023
BOOTH 401 PAVILION B5

TAILOR-MADE
SOLUTIONS
FOR SATISFIED
CUSTOMERS.



AGENDA



COMPANY

REFERENCES

PRODUCTS AND APPLICATIONS





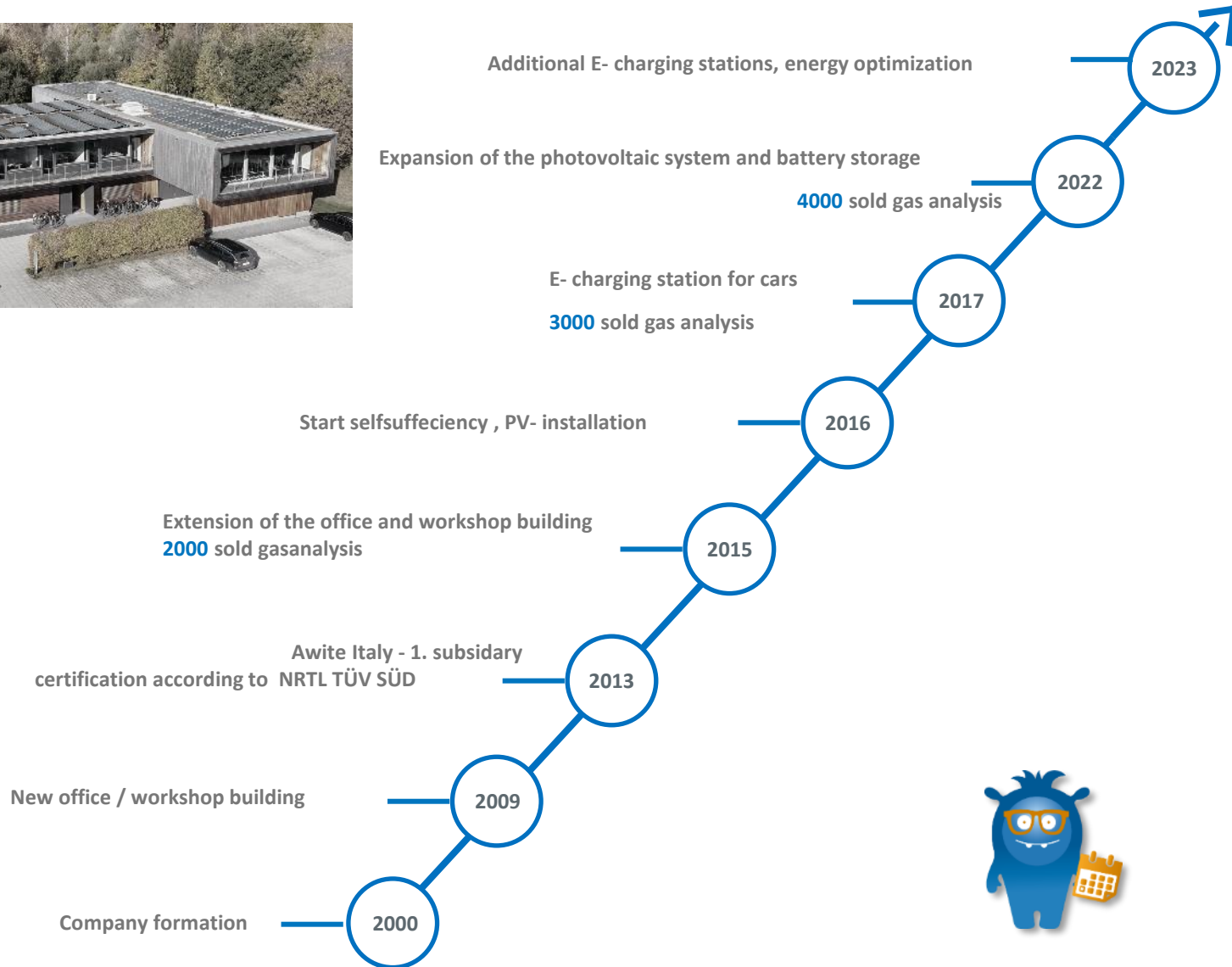
This is us ...

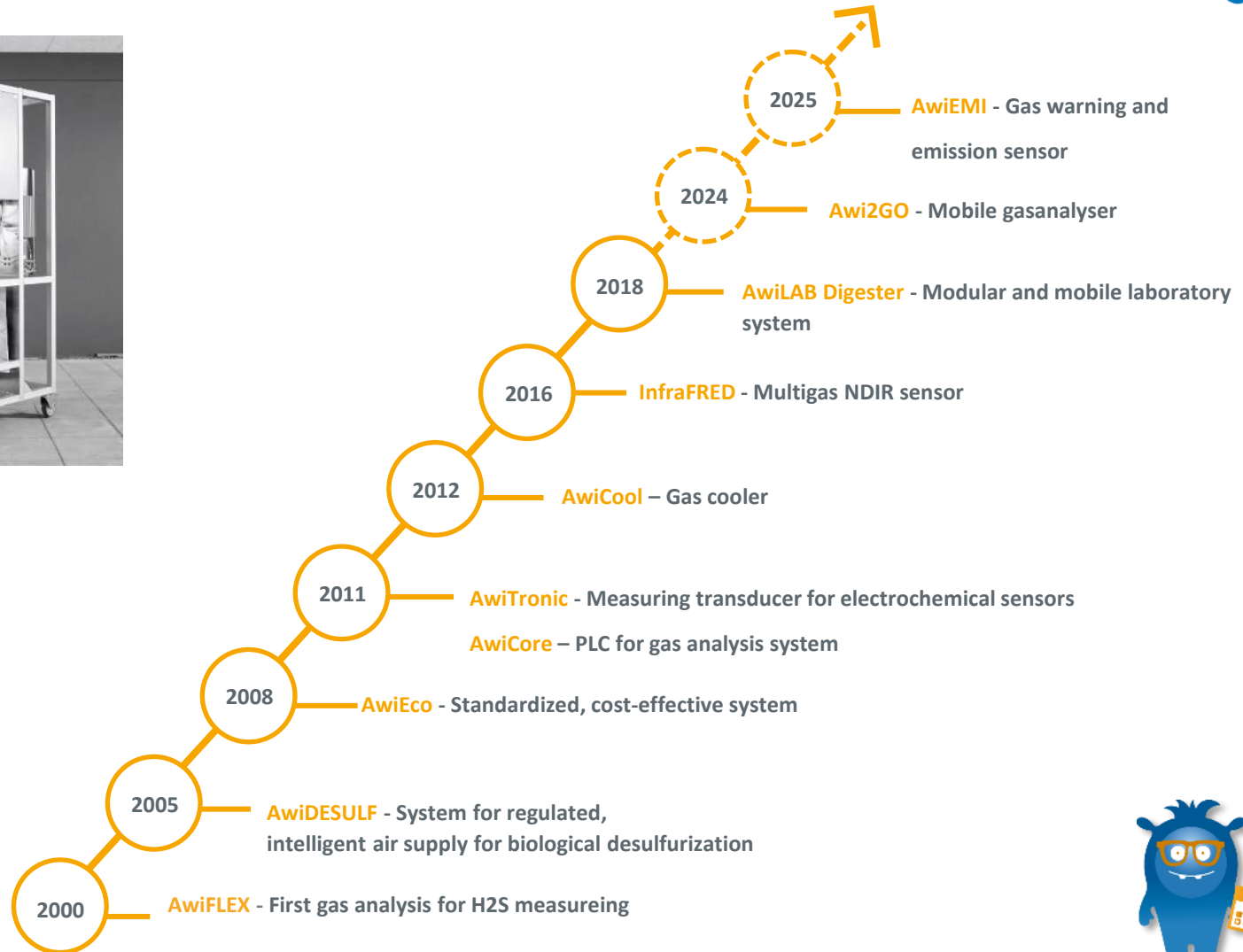
- Medium-sized, bavarian technology-enterprise
- With own development & production

...and this is what we do!

- Customer specific gas analysis systems of the highest quality for the renewable application areas of bio gas, biogas processing, Power-to-gas, sewage gas, dry fermentation, landfill gas, syngas, laboratory systems...

HISTORY AND TIMELINE OF AWITE





OUR PARTNERS – EUROPE



MB Biogalia



OUR PARTNERS – NORTH- AND SOUTH AMERICA



OUR PARTNERS – SOUTH EAST ASIA / AUSTRALIA



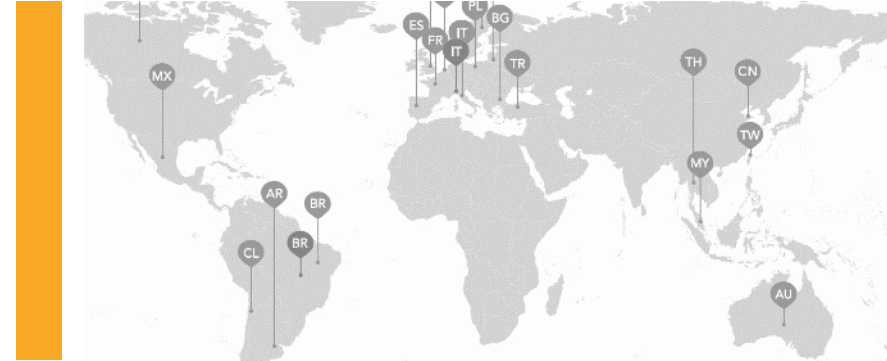
AGENDA



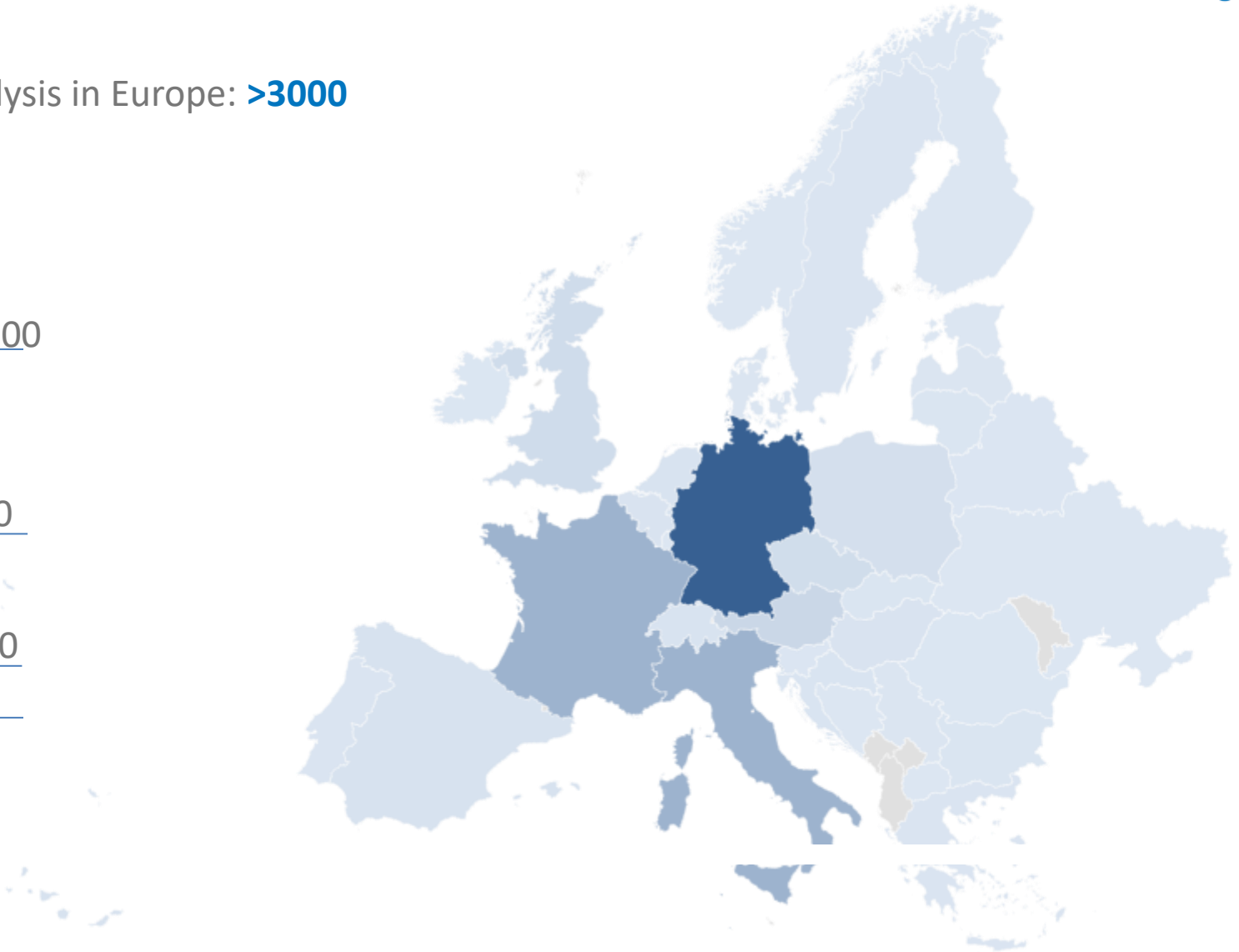
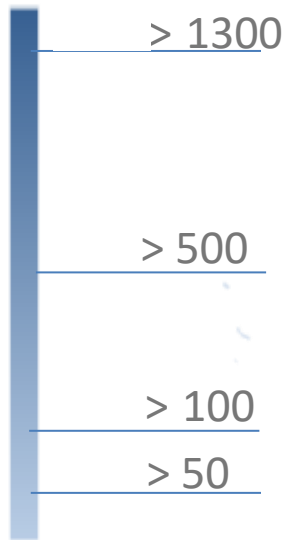
COMPANY

REFERENCES

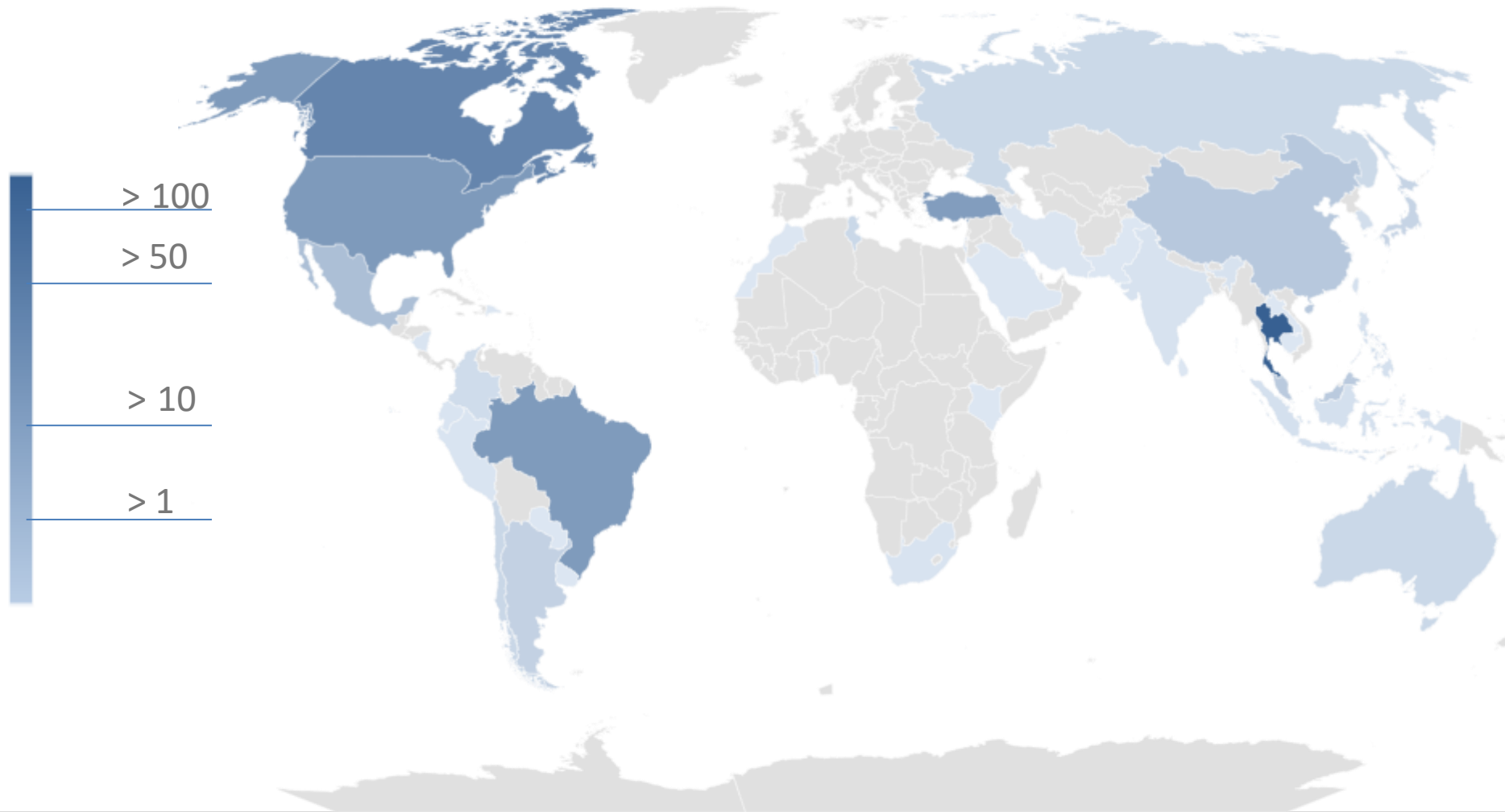
PRODUCTS AND APPLICATIONS



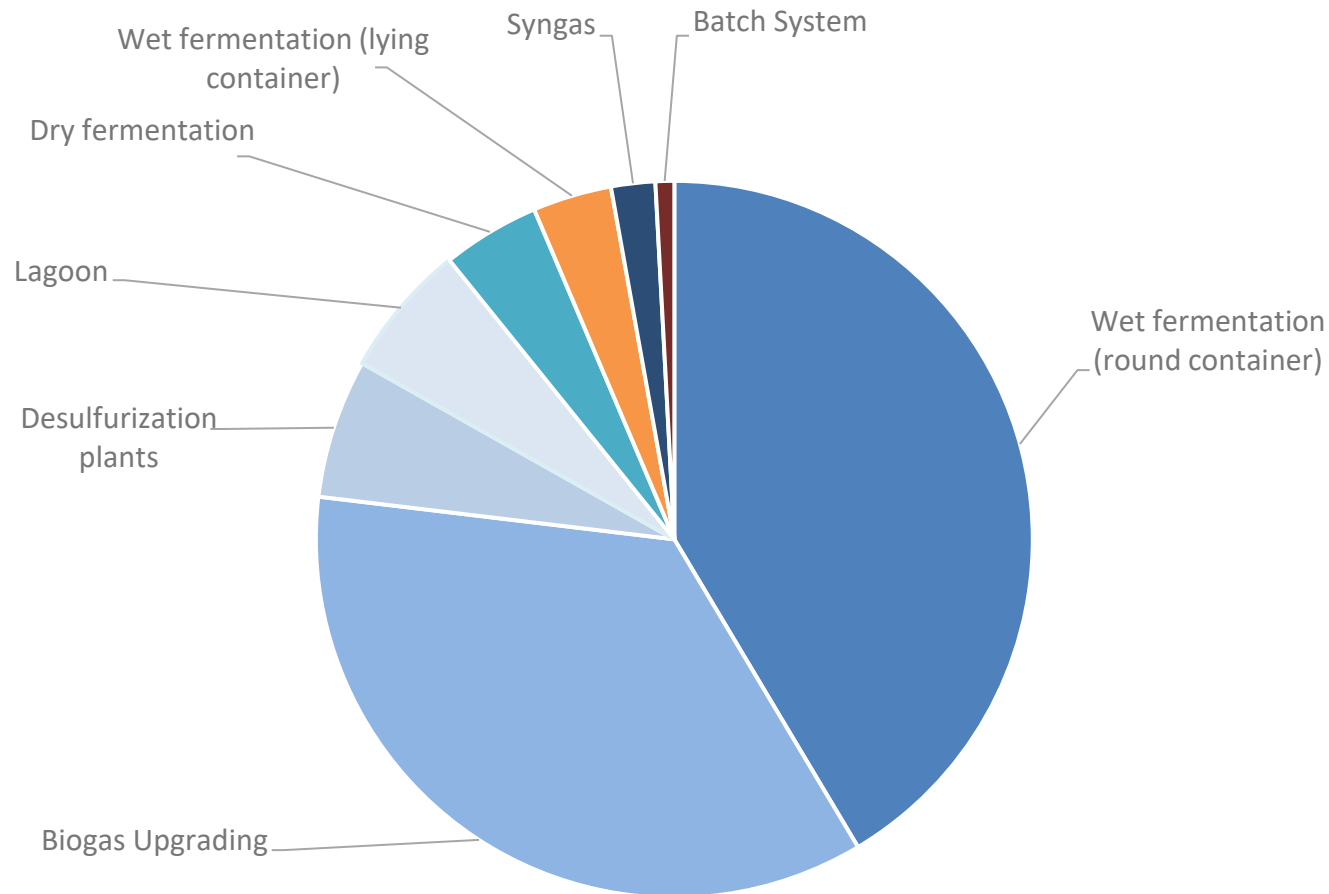
■ Gas analysis in Europe: **>3000**



Gas analysis worldwide: : **>500**



Procedure type



AGENDA



COMPANY

REFERENCES

PRODUCTS AND APPLICATIONS



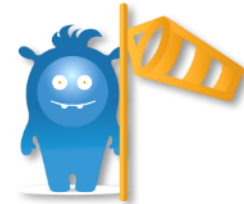
PRODUCTS



 GAS ANALYSIS



 DESULFURIZATION



 FLOW MEASUREMENT



 LABORATORY EQUIPMENT



 SERVICE

ANALYZE GASES WITH AWIECO AND AWIFLEX



A SUITABLE ANALYSIS – FOR EVERY
PROCESS



AWIECO

COMPACT
COST - EFFECTIVE
STANDARDIZED



AWIFLEX & AWIFLEX XL

INDIVIDUAL
MULTI – FUNCTIONAL
EXPANDABLE

GAS ANALYSIS



Technical information 

	AWIECO	AWIFLEX	AWIFLEX XL
1 to 2 measuring points	✓	✓	✓
Multiple Measuring points	✗	✓	✓
AwiDESULF	✗	✓	✓
SIL 1 for O2 measurement	✗	✓	✓
Ex zone 2 certification	✗	✓	✓
Continious measurement	✗	✓	✓
Parallel measurement possible	✗	✗	✓

+ Maintenance free gas cooler

Measurement accuracy
Lifespan
No wear



+ Closed stainless steel housing

Security
Measurement accuracy
No pollution



+ Touch-Panel

Simple operation
Graphical & tabular display
Menu multilingual

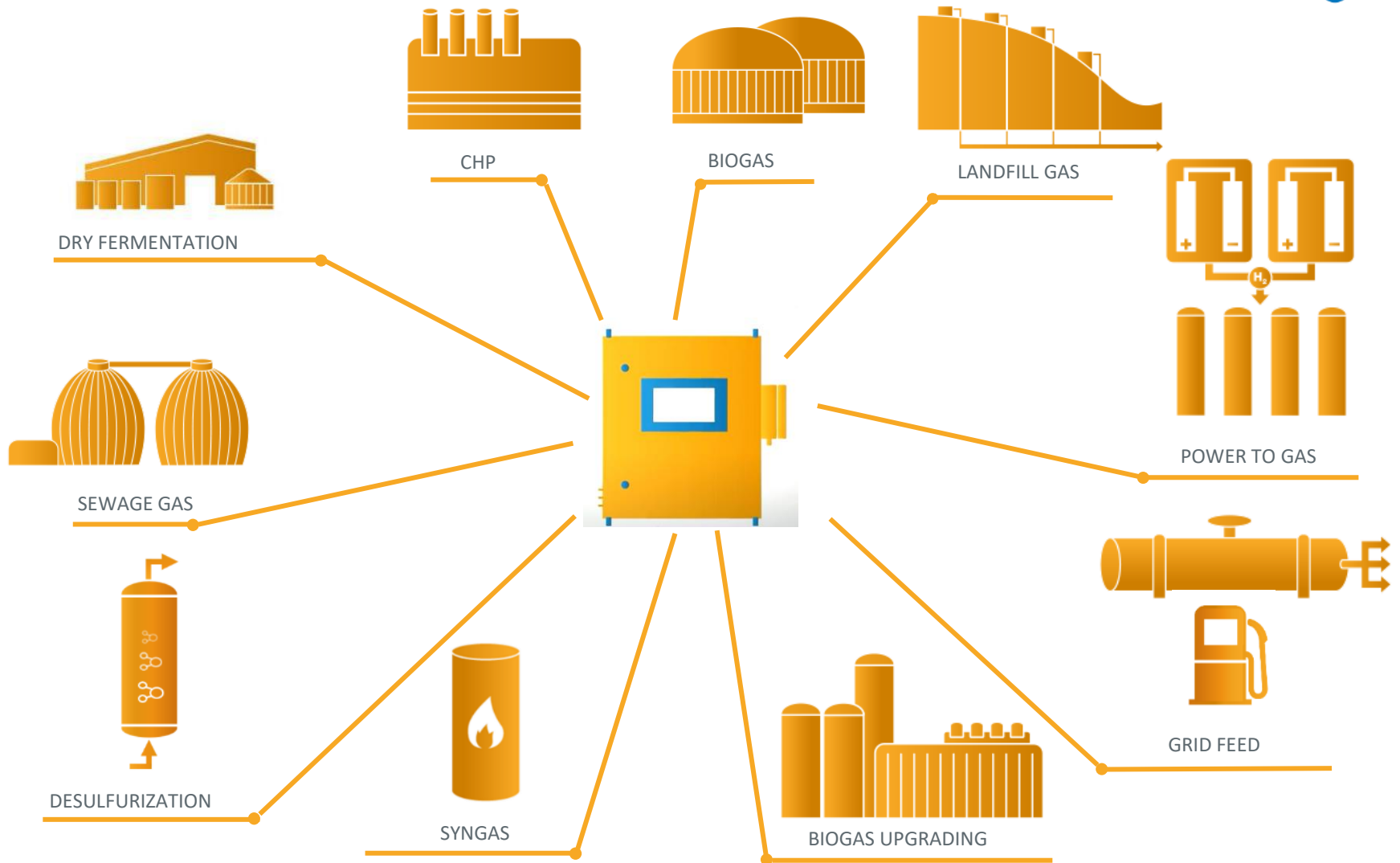


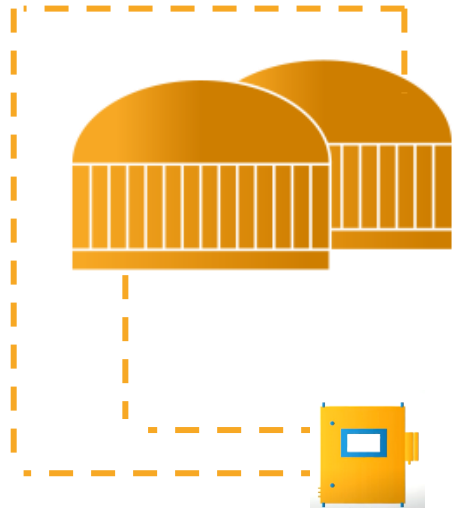
+ Expandable

Flow, temperature, pressure and
humidity sensor
Desulfurization system (AwIDESULF)



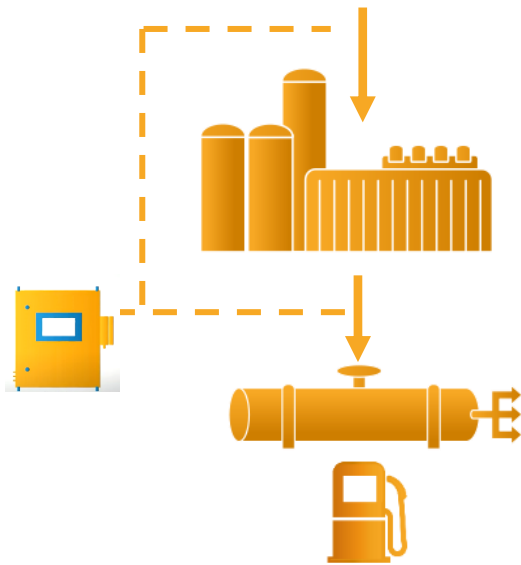
APPLICATIONS





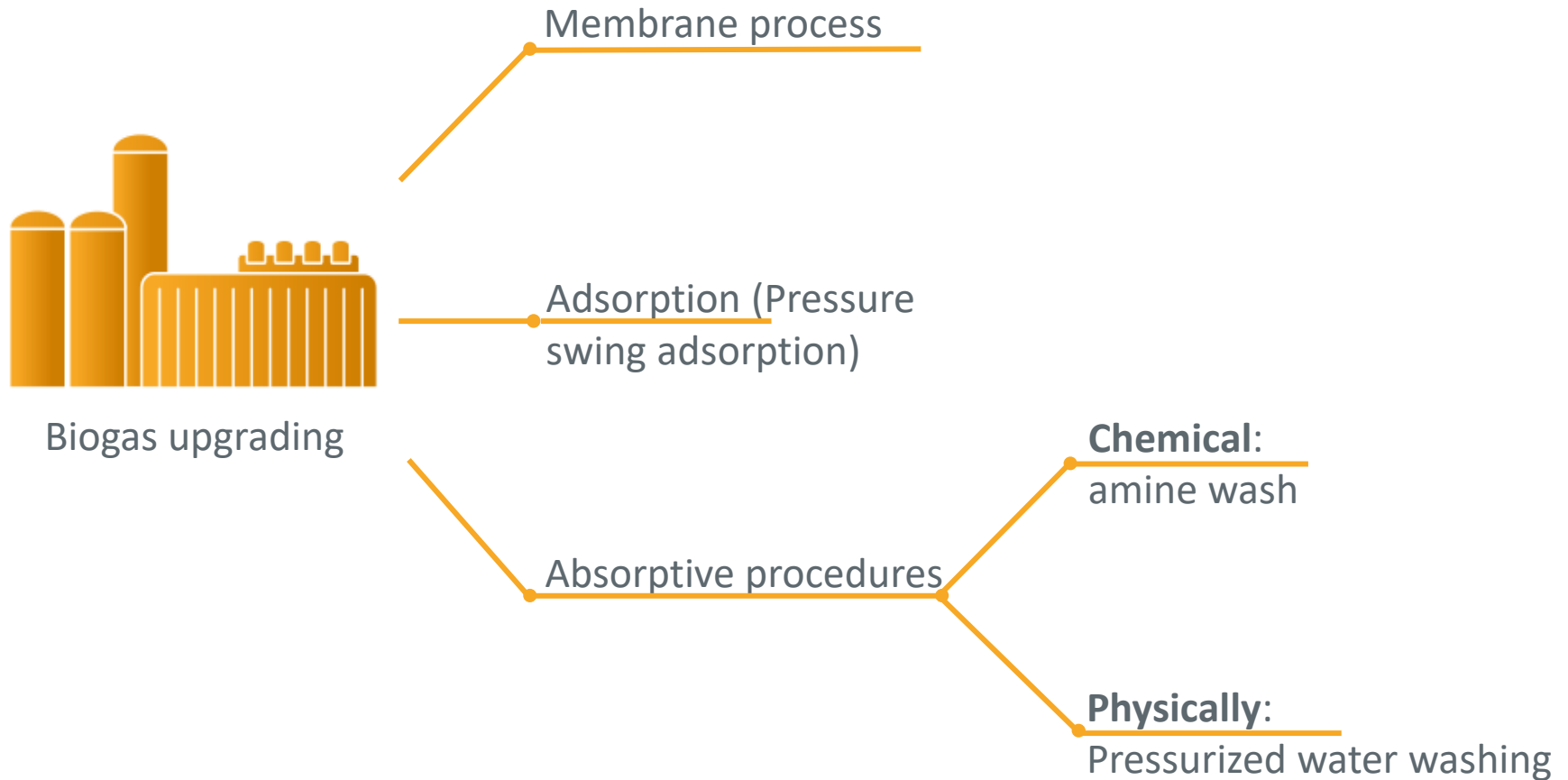
Measurement of CH_4 / CO_2 / H_2 / H_2S / O_2

- biological process control
- regulated O_2 - and air dosing
- oxygen limit monitoring
- desulfurization result, H_2S limits
- ex-protection (impermeability air-supported roof etc.)
- gap monitoring air supported roof
- monitoring during substrate change CH_4 , H_2
- response from procedural settings, e. g. stirring times



Measurement of CH_4 / CO_2 / O_2 / H_2S / H_2

- suitable for all sorts of biogas treatment
- control your treatment steps
- monitoring of limits
- microbiological desulfurization
- chemical desulfurization
- active carbon treatments
- monitoring activated carbon / raw gas cleaning
- acceptance quality of raw gas input
- low calorific gas CH_4 / CO_2 limit values
- delivery of biomethane – gas supply, consumer



DESULFURIZE BIOLOGICALLY WITH AWIDESULF



NEVER TOO MUCH O₂ IN THE
SYSTEM – WITH CERTAINTY



AWIDESULF
100/200 NM³/H

INDIVIDUEL
EXACT
COST - EFFICIENT



AWIDESULF
300/500/1000 NM³/H

INDIVIDUEL
EXACT
COST - EFFICIENT

⊕ process stability



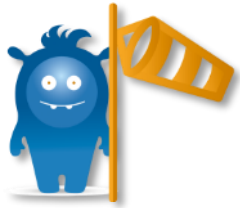
⊕ minimal running costs



⊕ also regulates precisely in the event of fluctuations amount of gas generated



MEASURE MORE
PRECISELY
WITH **AWIFLOW**



HIGHEST PROCESS ACCURACY STABLE
PROCESSES



**AWIFLOW – FLOW
MEASUREMENT**

INTELLIGENT
COMPACT
ROBUST

- ⊕ Balancing material and energy flows
- ⊕ Standard flow determination by integrated moisture correction
- ⊕ Possibility of proof of produced amount of gas
- Approval ExZone 1
- ⊕ Can be used anywhere due to low pressure loss, wide temperature range and high durability



LABORATORY
EXPERIMENTS

AWILAB PRODUCT
FAMILY



SPECIALLY FOR YOUR
LABORATORY APPLICATIONS
IN THE BIOGAS SECTOR



AWILAB
GASANALYSER

INDIVIDUALLY
AUTOMATED
EXPANDABLE



AWILAB DIGESTER

MODULAR WITH UP TO
7 FERMENTERS

LABORATORY EQUIPMENT



Small
batch tests
(1-5 L)

Customer provided



Gas production:
Stir, heat, test jar



Awite

- Flow measurement
- Gas collection
- Automation
- Gas analysis



Our gas analysis for
your laboratory
system...

Continius
large scale
testing

Our all in one
laboratory system for
you





- Fully equipped maintenance vehicles— always everything on board
- Abroad support from local partners
- Fast response times in support and shipping of spare parts
- Easy replacement of spare parts with the help of illustrated instructions



ECOMONDO 2023
BOOTH 401 PAVILION B5



AWITE BIOENERGIE GMBH
INFO@AWITE.DE
WWW.AWITE.DE
TEL. +49 (0)8761 / 72162-0

THANK YOU!

ANDREA ALBERINI
ALBERINI@AWITE.IT
TEL. +39 375 67 21 593

