



ECOMONDO 2024  
BOOTH 303 PAVILION B5

TAILOR-MADE  
SOLUTIONS  
FOR SATISFIED  
CUSTOMERS.



# AGENDA



COMPANY

REFERENCES

PRODUCTS AND APPLICATIONS



# AWITE – WHO WE ARE AND WHAT WE DO

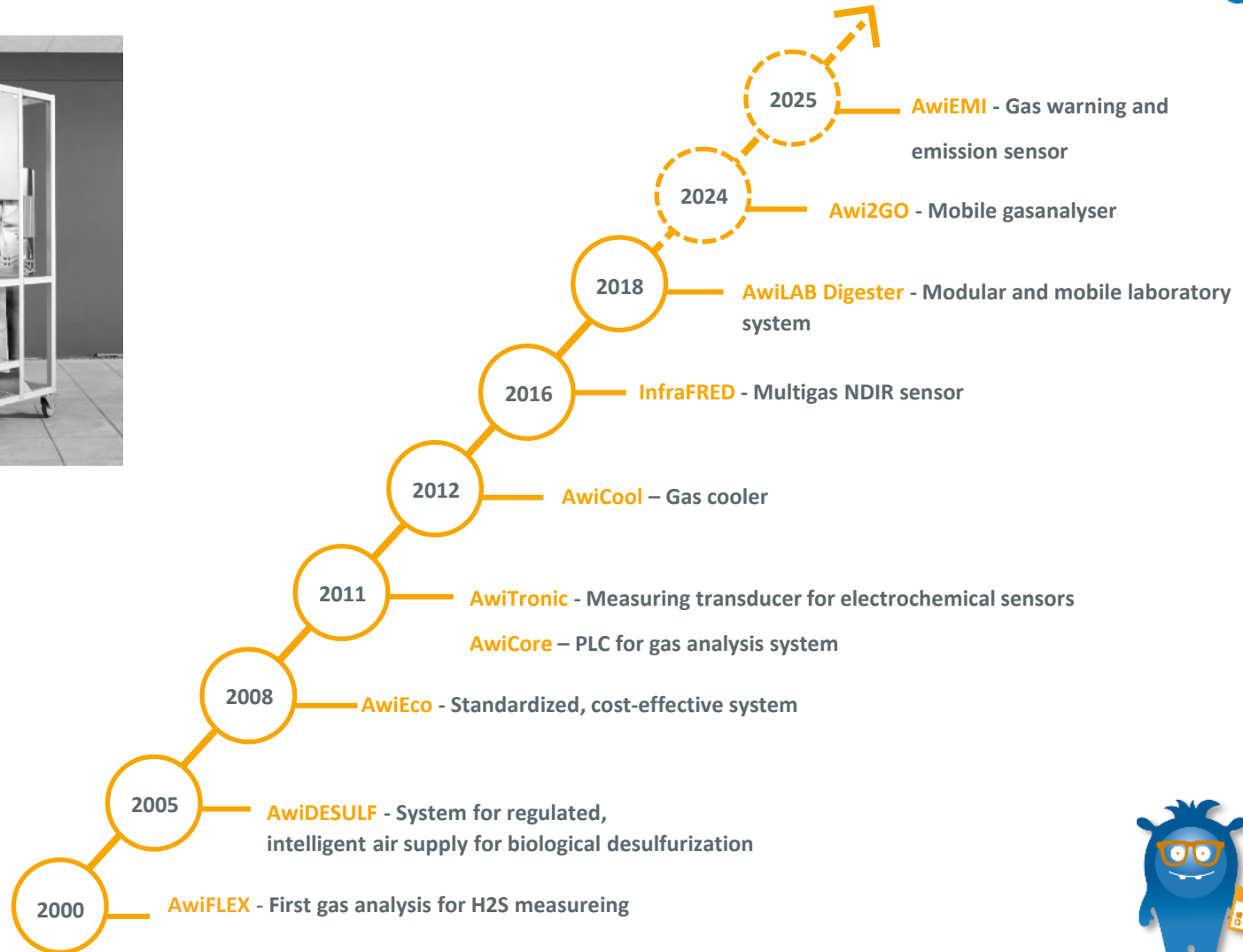


## This is us ...

- 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...



# OUR PARTNERS – EUROPE



MB Biogalia



# OUR PARTNERS – NORTH- AND SOUTH AMERICA





# OUR PARTNERS – SOUTH EAST ASIA / AUSTRALIA



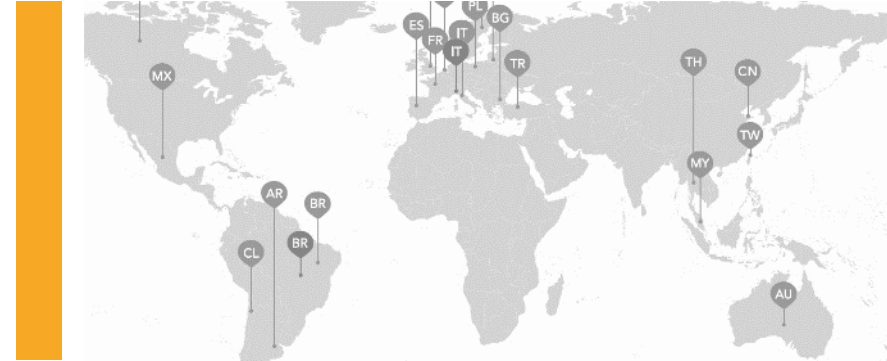
# AGENDA



COMPANY

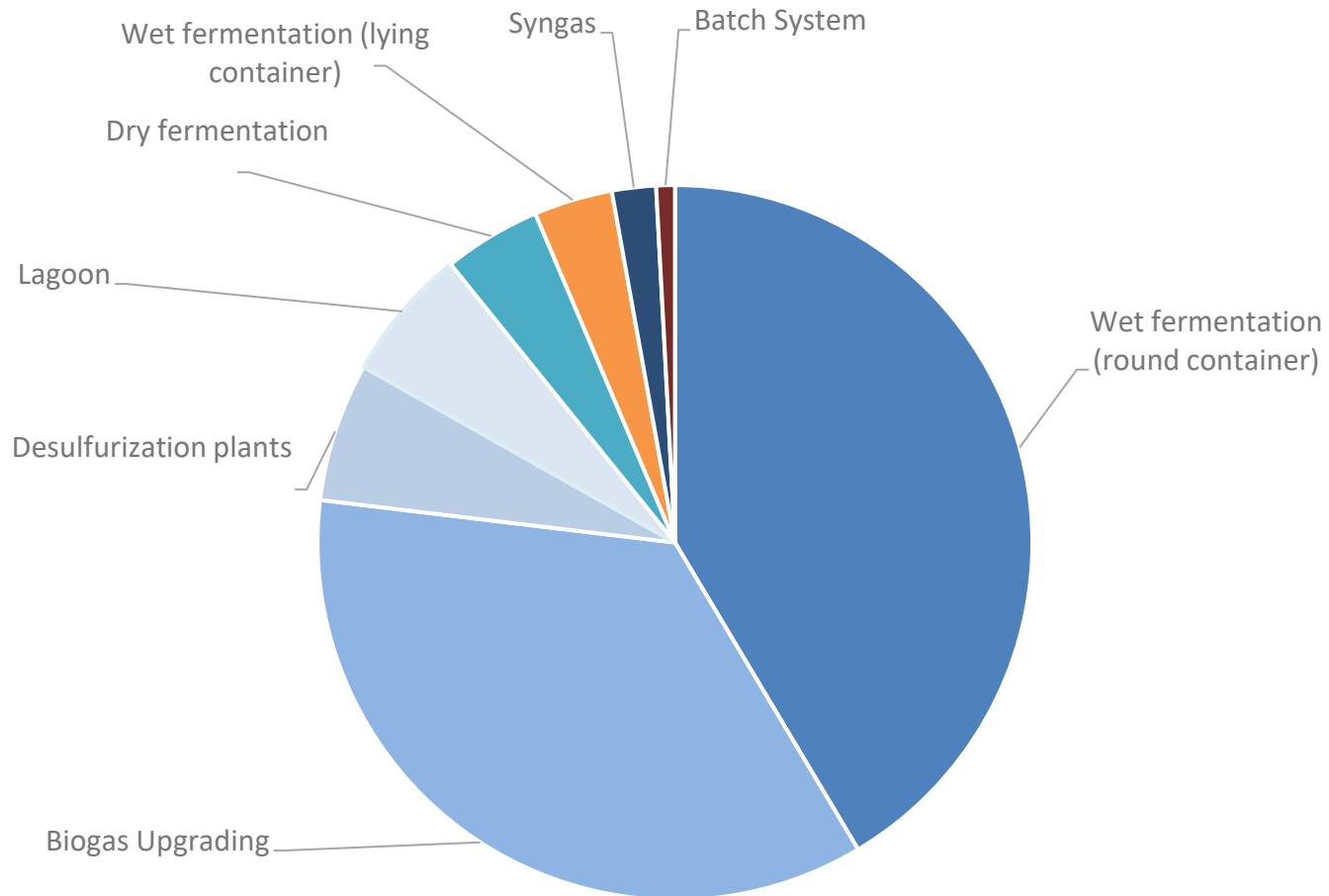
REFERENCES

PRODUCTS AND APPLICATIONS





> 4700 units worldwide



# AGENDA



COMPANY

REFERENCES

PRODUCTS AND APPLICATIONS





 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



|                               | AWIECO | AWIFLEX | AWIFLEX XL |
|-------------------------------|--------|---------|------------|
| 1 measuring points            | ✓      | ✓       | ✓          |
| Multiple Measuring points     | ✗      | ✓       | ✓          |
| AwiDESULF                     | ✗      | ✓       | ✓          |
| SIL 1 for O2 measurement      | ✗      | ✓       | ✓          |
| Ex zone 2 certification       | ✗      | ✓       | ✓          |
| Continuous 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

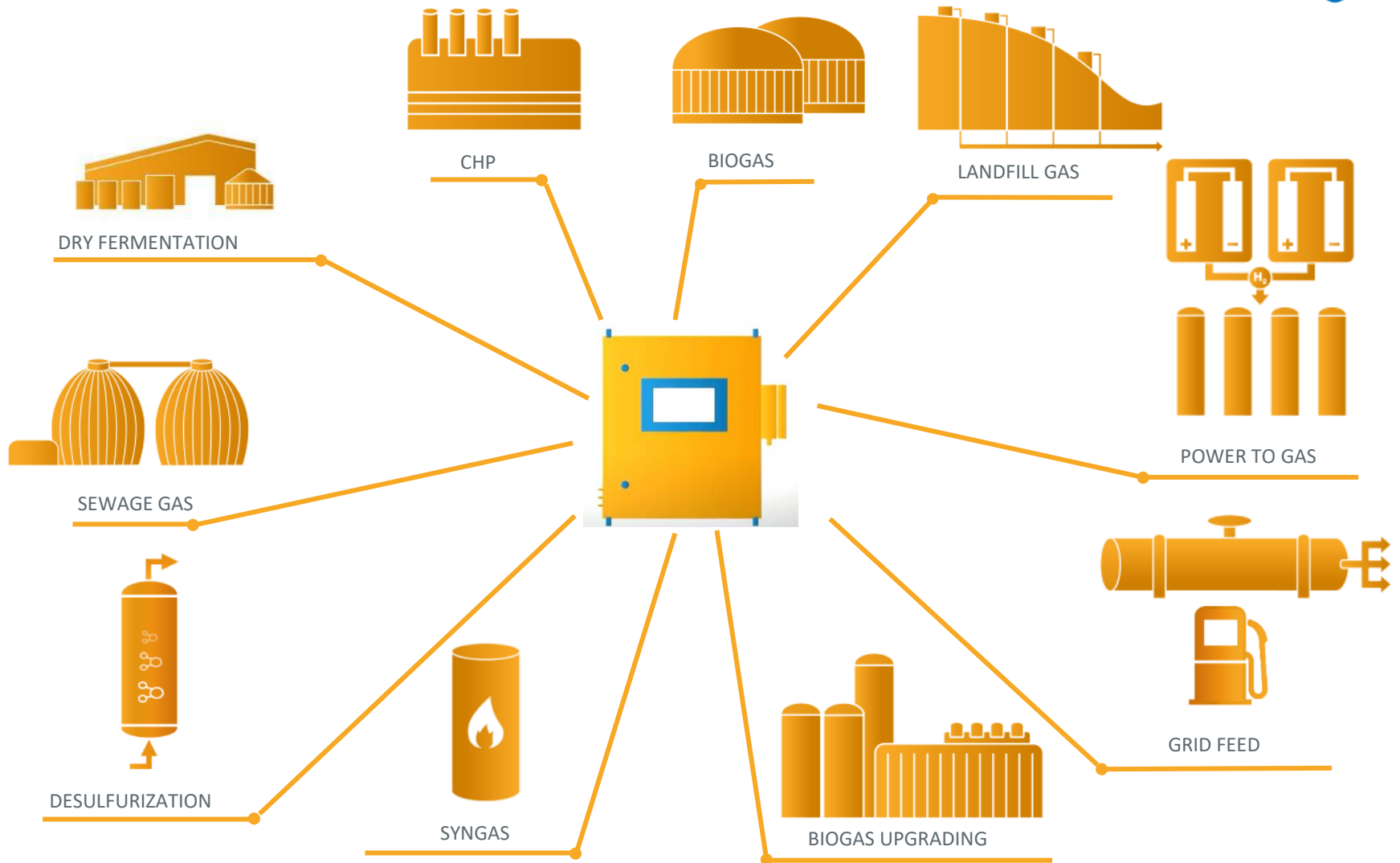


## + Expandable

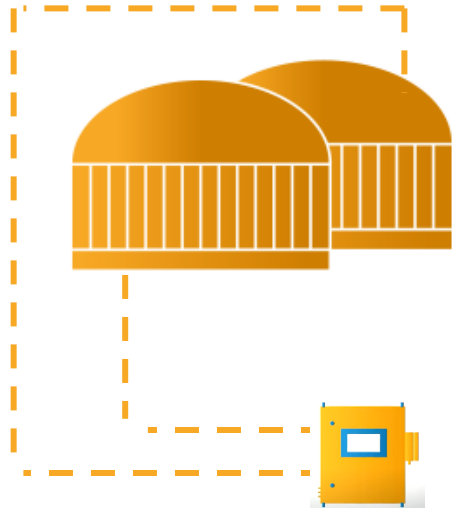
Flow, temperature, pressure and  
humidity sensor  
Desulfurization system (AwIDESULF)



# APPLICATIONS

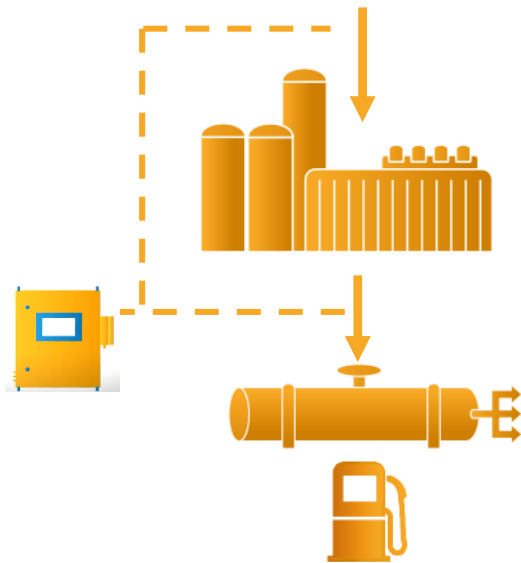






## Measurement of $\text{CH}_4$ / $\text{CO}_2$ / $\text{H}_2$ / $\text{H}_2\text{S}$ / $\text{O}_2$

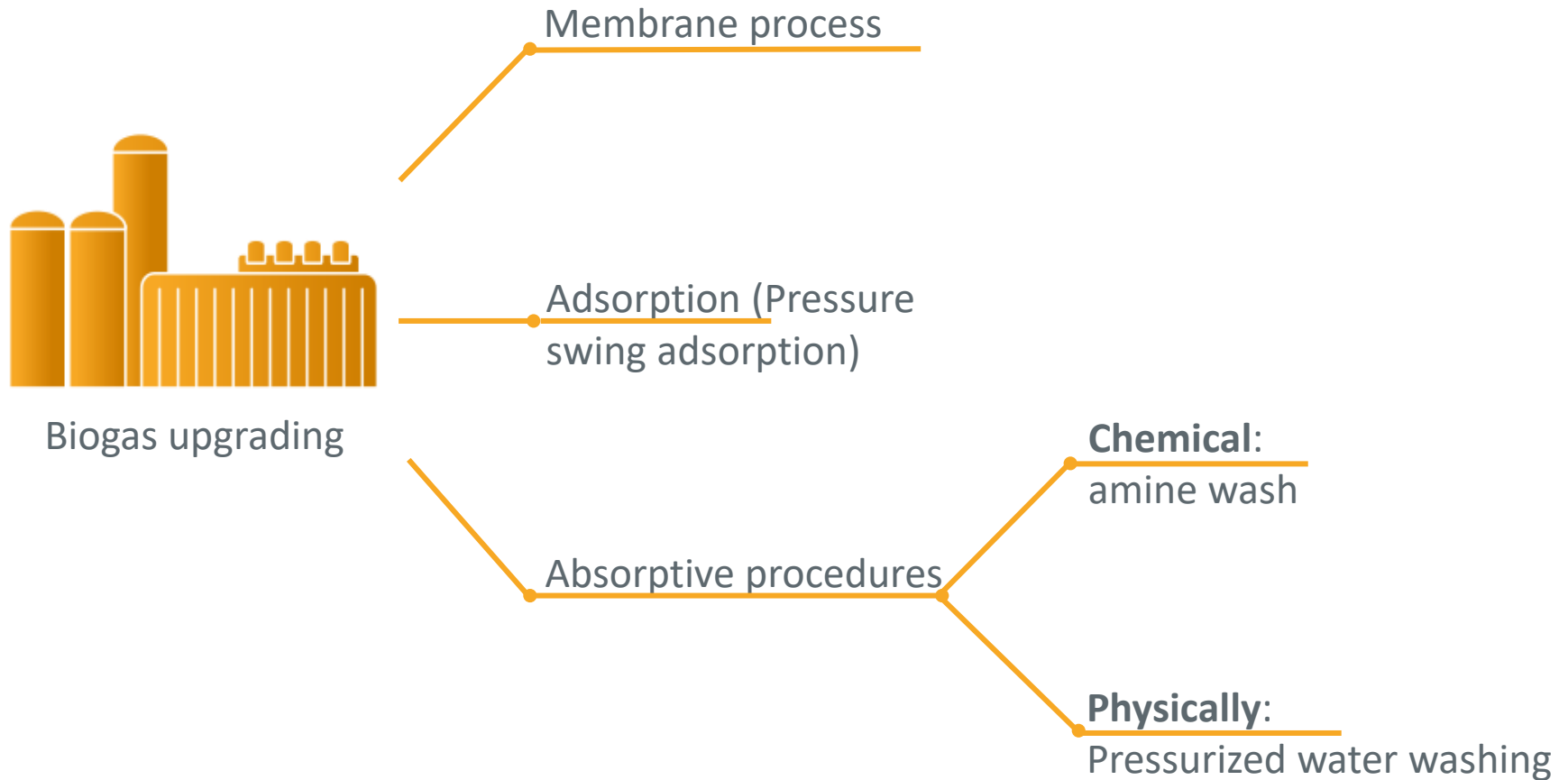
- biological process control
- regulated  $\text{O}_2$ - and air dosing
- oxygen limit monitoring
- desulfurization result,  $\text{H}_2\text{S}$  limits
- ex-protection (impermeability air-supported roof etc.)
- gap monitoring air supported roof
- monitoring during substrate change  $\text{CH}_4$ ,  $\text{H}_2$
- response from procedural settings, e. g. stirring times



## Measurement of $\text{CH}_4$ / $\text{CO}_2$ / $\text{O}_2$ / $\text{H}_2\text{S}$ / $\text{H}_2$

- 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  $\text{CH}_4$  /  $\text{CO}_2$  limit values
- delivery of biomethane – gas supply, consumer

# APPLICATION: BIOGAS UPGRADING



# MICROBIOLOGICAL DESULFURIZATION



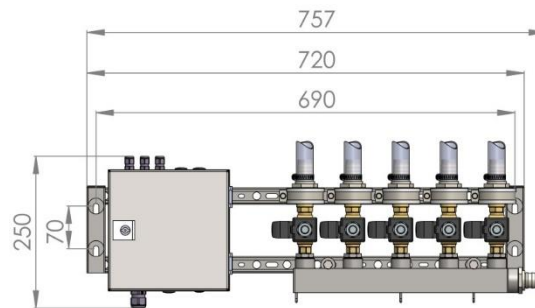
DESULFURIZE  
BIOLOGICALLY WITH  
**AWIDESULF**



NEVER TOO MUCH O<sub>2</sub> IN THE  
SYSTEM – WITH CERTAINTY



AWIDESULF



AWIDESULF  
PURE OXIGEN

INDIVIDUEL  
EXACT  
COST - EFFICIENT

⊕ process stability



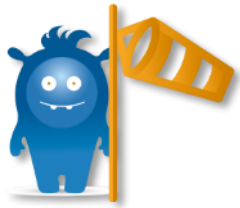
⊕ minimal running costs



⊕ 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

## Awite 2GO

- + Intuitive & smart use: Operation like on a smartphone
- + Ready for use in 30 seconds
- + Measuring process with just one button. 6 measured values, CH<sub>4</sub>, CO<sub>2</sub>, O<sub>2</sub>, H<sub>2</sub>S + CO + H<sub>2</sub>, in 60 seconds.
- + 2,000 plants, 4,000 measuring points, 75,000 measured values and 5,000 messages, label and save everything individually.





- 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



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THANK YOU!

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