

THE HOUSEKEEPING RULES FOR A SMOOTH FORUM

- The event is recorded and will be shared
- Please remain muted during the meeting, turn on microphone only when you are speaking
- Make sure your full name and organisation is properly displayed
- Please announce questions or comments that via the chat box. The
 President will open the floor for questions at each agenda point
- The questions will be managed by Anne Claire. Questions will be read loudly from the chat box, or participants will be given the floor
- If you can, turn on your camera on so we can see each other



THE HOUSEKEEPING RULES EIA CODE OF CONDUCT

- EIA believes it is important that its activities are at all times carried out in accordance with the applicable law, especially competition law.
- EIA believes that business shall be conducted in an atmosphere of free competition, i.e. on the basis of price and quality.
- The Code of Conduct aims at providing clear rules to EIA's members, thus reducing the risk of improper conduct and consequently of fines being imposed.
- This Code of Conduct shall be binding on all members as well as on other participants when taking part in activities of EIA.



Agenda 11 March 2022



14:00-14:15	Opening	Moshi Berenstein/ EIA President
14:15 -14:20	Welcome to New Members	Fleur Martin/ EIA Communication Officer
		Javier Juàrez, Azud
14:20-14:35	Introduction to Wastewater	Bruno Molle / EIA Executive Advisor
	Reuse	
14:35-15:10	Guest speaker: "Wastewater	Dr Christoph Hugi, FHNW Basel
	Reuse: focus on the Poseidon	
	tool"	
15:10-15:20	Innovation and Technology by	Jan Gould, CEO, RDI
	our members: Responsive Drip	
	Irrigation	
15:25 – 15:30	Closing session / Q&A	







Urban Landscape



Standardization

EIA Working Groups - updates



Training



Wastewater Reuse



Communication















Sustainability

Urban Landscape

Standardization

Training

Wastewater Reuse

Communication

We invite you to join our Working Groups

Please contact Fleur Martin:

communication@irrigationeurope.eu



Welcome new members

We are very pleased to welcome Azud in the association

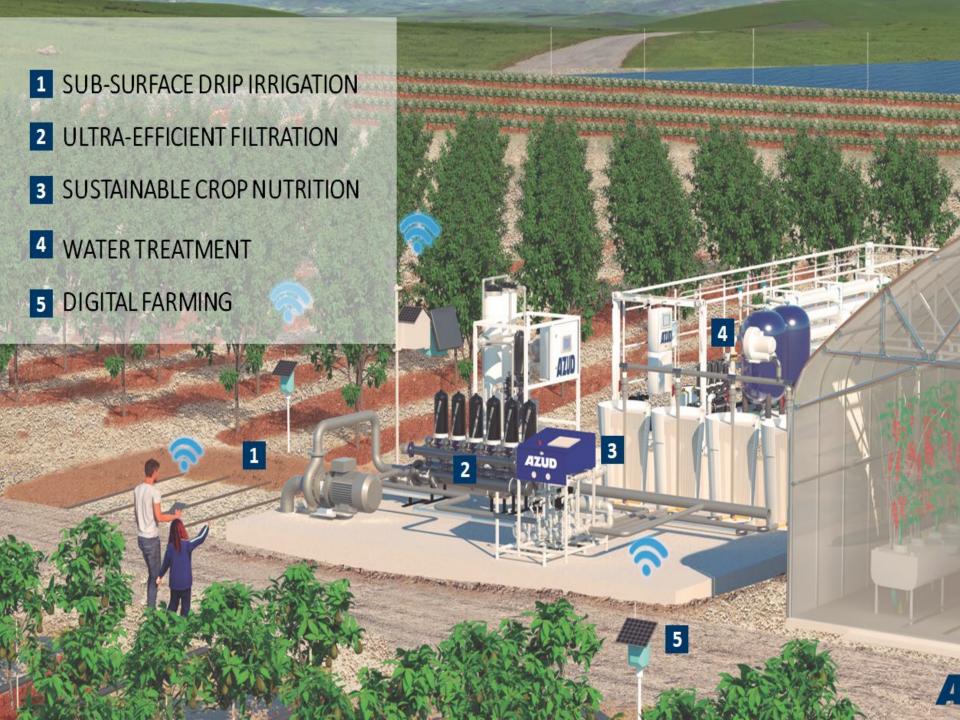


The Culture of Water

for a New Agriculture



AZUD



40 years450 employees

9 factories

7 subsidiaries

65 patents

3% R&D



































LINDSAY











Sentek





















































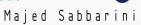














EIA - Wastewater Reuse workshop

Introduction: Several figures and challenges

Dr Bruno Molle, EIA Executive Advisor

Presentation: Poseidon Decision Support Tool

Dr Christoph Hugi, FHNW Basel





- Water bodies cover 72% of the surface of the earth, 3% of the volume available for drinking and food production
- Accross Europe drought events are no more limited to Mediterranean and Central Europe
- At least 11% of EU population and 17% of the area are affected today
- 20% of EU-Med population lives under constant water stress
- Over 50% have been temporarely affected
- In 2020 in EU
 - More than 40,000 Million m³ of WW are treated yearly...
 - 964 Million m³ were reused





• In Europe

- Wastewater Reuse potential is estimated 6,000 Million m³ by 2025
- Water Market is growing 20% yearly
- 9,000 water business oriented companies in Europe
- 500,000 jobs...

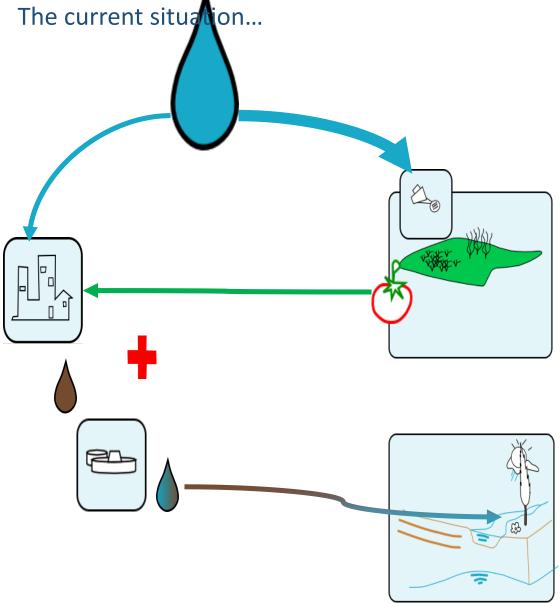
Worlwide

- Depending on countries 30 to 92% of WW are not passing through a wastewater treatment plant
- Target in 2030 : 15 to 46%
- Strong growth of Nature Based Treatment Solutions
- Large potential of recycling from source separated effluents

Reusing Wastewater:

What are the challenges in terms of Water management?





Sharing resources between Cities and Agriculture

→ Feeding populations

Growing tensions

- → Quantitative
- → Qualitative

Linear water use system

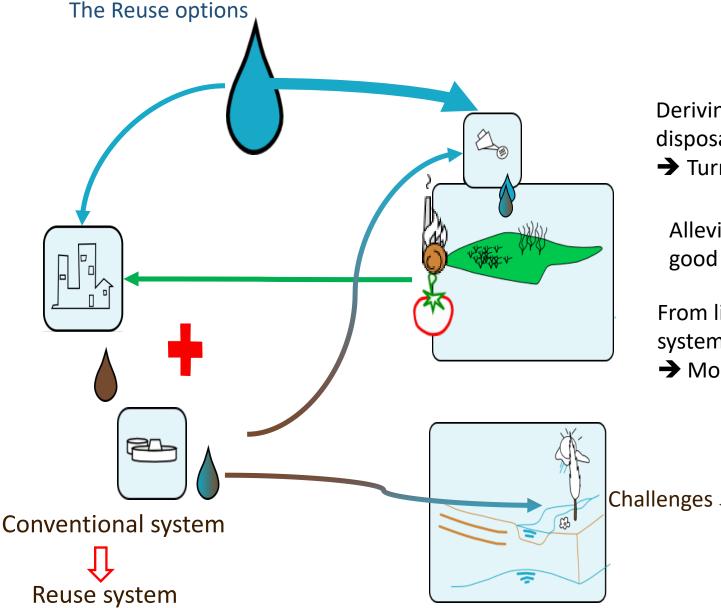
- → Treatment cost (E and €)
- → Impacts

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Reusing Wastewater:

What are the challenges in terms of Water management?





Deriving resources before disposal in the Environment

→ Turn Waste into Resource

Alleviates pressure on good quality resources

From linear to circular water system

→ More Flexible Treatment

Water (Energy Food Environment Health Social

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- How to anticipate the Sustainability of a Project
 - A multidisciplanary process
 - From Bacteria to Social percpetion

Feasibility Safety Technique Acceptability X **Profitability Organisation Project** Sanitary x Economic x **Judiciary** (Process) **Sustainability** Agronomic Financial Institutional Regulatory Environmenta

WW Reuse – Safety: EU Regulation (2023)

- Applies only for Ag Reuse
- Minimum quality requirements
- Monitoring and control
- Risk management: QMRA
- Increased transparency
- Regulation full text: <u>https://data.consilium.eu</u> <u>ropa.eu/doc/document/S</u> <u>T-15301-2019-REV-</u> <u>1/en/pdf</u>

- Risk Management Guidance
 - Guidance I: Agricultural irrigation
 - Guidance II:(Managed) aquifer recharge
- Regulations in Perspective:
 - Water reuse in industrial activities
 - Water reuse for other purposes: e.g. urban practices and landscape irrigation



WW Reuse – Safety: limits of the EU approach

- Very stingent regulation
 - The price for safety and confidence
 - Levels of quality required may be difficult to reach at acceptable cost and on long term
 - Removes all nutrients
 - Questions on MP (micropollutant) is pending
 - All responsibility is on the treatment train

- Need to change perspective for more flexibility
 - Shift to fit for purpose treatment
 - The chain of responsibilities could be revised to better include end user
 - Shift to separated effluents for better nutrient recycling
 - Research needs to progress on MP on Nutrient recycling
 - Inform and commune more