



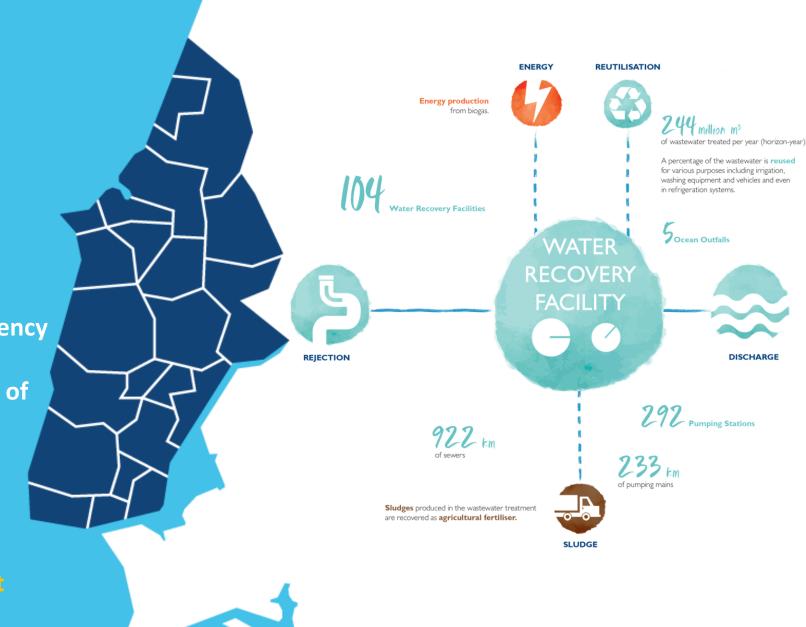
## Our Mission

Explore and manage the multimunicipal wastewater sanitation system of Greater Lisbon and West

Ensure the quality, continuity and efficiency of public water services, in the sense of protecting public health, the well-being of the population, accessibility to public services, environmental protection and economic and financial sustainability

Contribute to the regional development

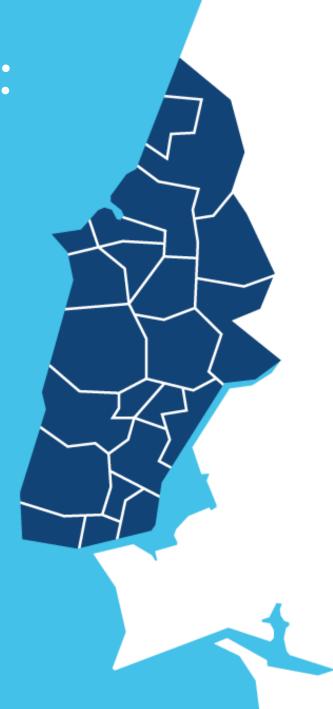
Tariff stability



Some of our Results:

### 2022

- 200km coast
- 52 Blue Flags in our region!
- **Dolphins** return to the Tagus
- Safeguarding ecosystems attracted species (fauna and flora)
- Excellent conditions for tourism and water sports
- Increase in economic activities linked to Rivers and Sea







# An evolution of the sector in Portugal that marked 3 decades

2022 - 2032

2022 2032



**CONSOLIDATION:** Scale and professional services

2

2003 a 2012

**EFFICIENCY:** The generalization of regional integration

1

1993 a 2003

**EFFECTIVENESS:** Solving 1st generation problems, principle of entrepreneurship

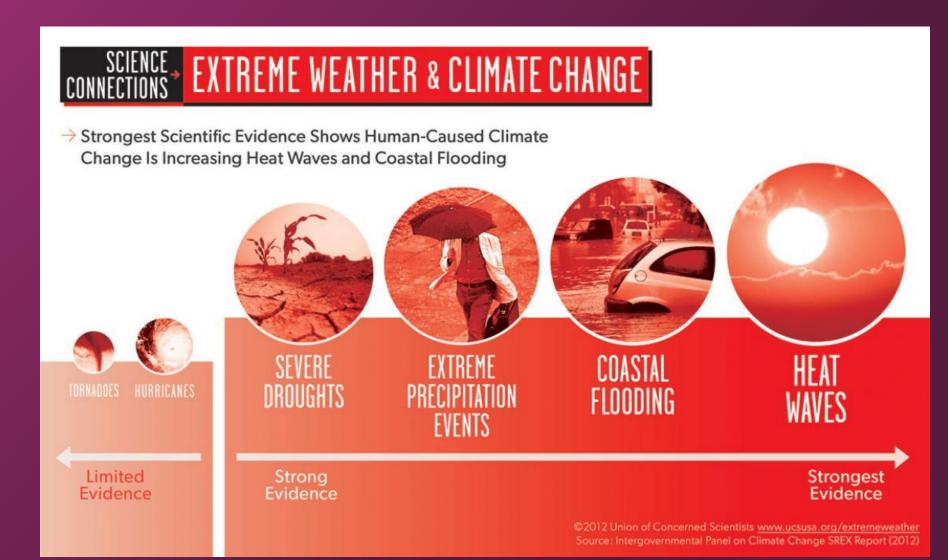


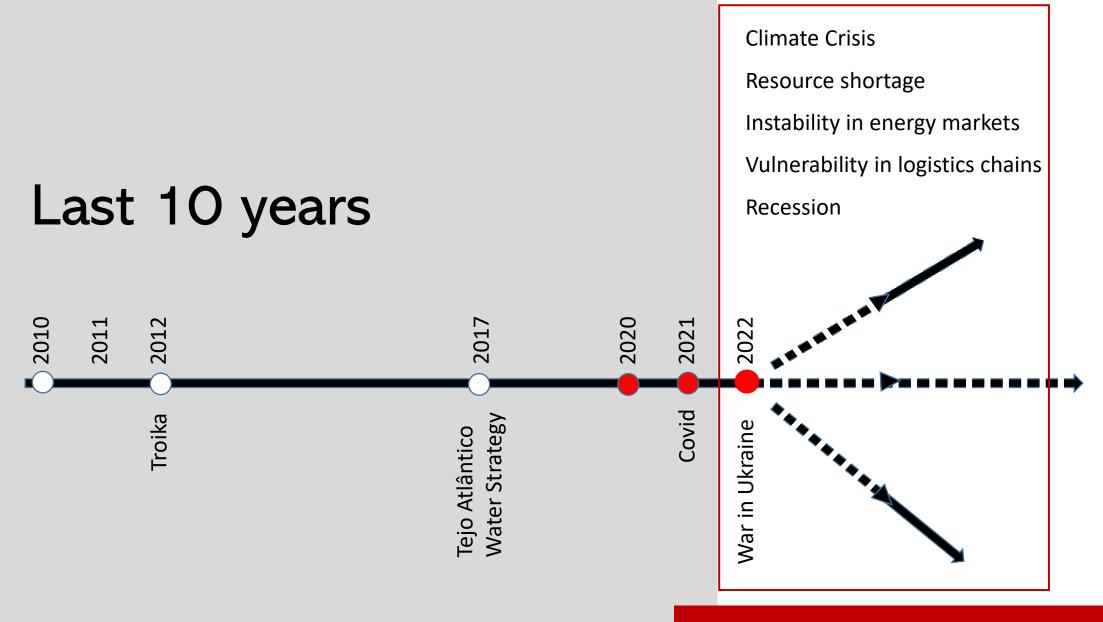
# NEW REALITIES!



Climate change and associated extreme factors demands

NEW
(SIMPLER)
MINDSETS!





Next 10 years

# **Priorities**

- Resilience
- Adaptation
- Efficient use of resources
- Decarbonisation
- Transformation

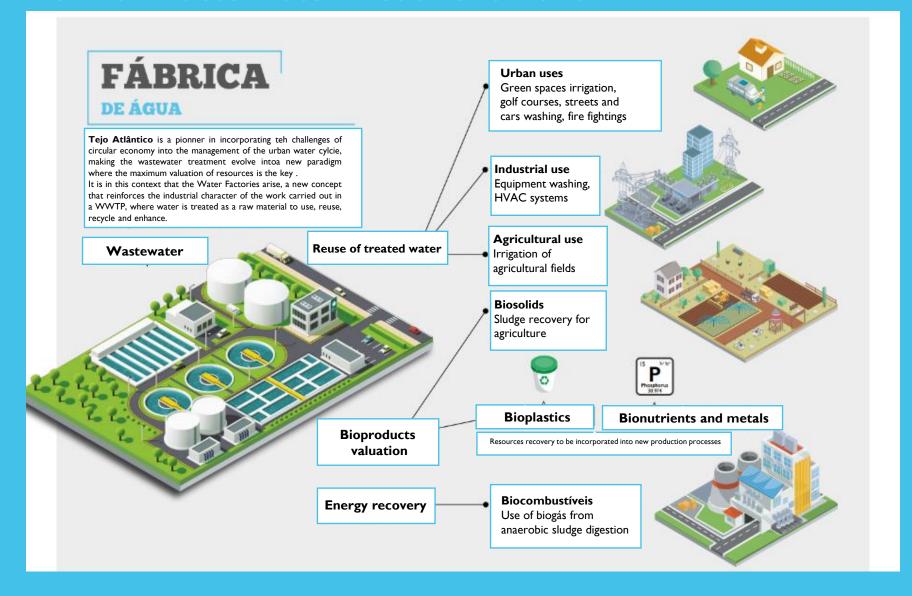


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# Water Recovery Facility

**Former Waste Water Treatment Plant** 





A concept that increase the industrial feature of the work carried out in a Wastewater Treatment Plant (WWTP), where water is treated as a raw material full of resources for:

use, reuse, recycle and recover.

# Creating Value to the society

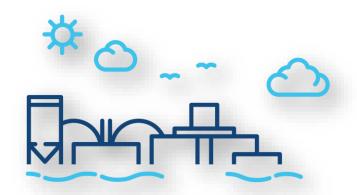


2 500 000 m3/year





BIOPLASTICS





### HIDROGASMOVE- (partnership with DOUROGÁS)

Biogás purification and transformation into biofuel to power public transport fleets





## **GUIA (2022)**

Average flow 2 m<sup>3</sup>/s
Served population 800.000

Biogas production 4.7 M m3
Energy consumed 14 MWh
Energy produced 12 MWh
85% energy neutral

**BIOENERGY** 







### **PROMINENCE**

**Pilot Project** 

**Rock in Rio 2018/2022** 



### **ONGOING...**

Mafra Urban Park

**IKEA Loures-Air Conditioning** 

Parque das Nações - watering green spaces

#### Result of a working group that included:

Portuguese Environment Agency, Lisbon City Council, Águas do Tejo and Atlântico and General Directorate of Health and the National Institute of Health Doctor Ricardo Jorge.

## **EXAMPLES IN DEVELOPMENT...**

Watering Golf Courses - Royal Óbidos Street washing Lisbon, Loures and Cascais

















#### Diário de Notícias

INÍCIO / LOCAL

# Jardins do Parque das Nações começaram a ser regados com água reutilizável

Os espaços verdes da zona norte do Parque das Nações, em Lisboa, começaram esta terça-feira a ser regados com água reutilizável e não potável. O sistema poderá ser replicado noutros jardins da cidade.

#### DN/Lusa

22 Março 2022 — 19:58













#### **TÓPICOS**

- · nacional
- Parque das Nações
- o seca
- o local
- o Câmara Municipal de Lisboa





# Cooling and heating **IKEA** Loures (456.420 m<sup>3</sup>/Year)













**Treated wastewater** 18.883.300 m<sup>3</sup>

**Internal reuse** 274.037 m<sup>3</sup>

**Irrigation potencial reuse** 100%

# Strategic Plan for Water Reuse in Lisbon

SUSTAINABILITY STRATEGY ON WATER USE

WATER EFFICIENCY PLAN

LISBON DRAINAGE PLAN

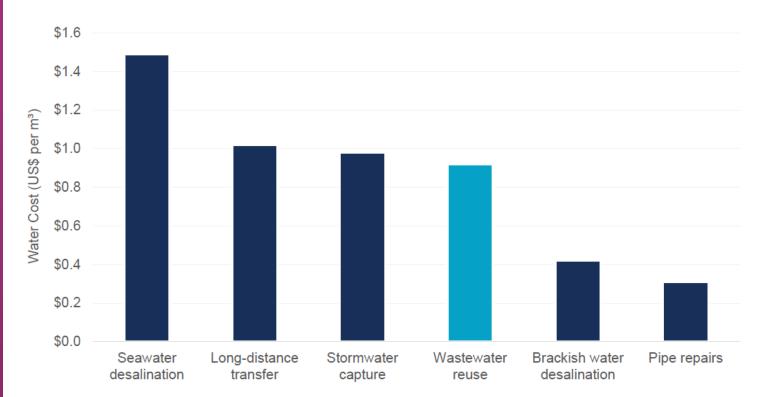




#### drivers ECONOMIC FEASIBILITY



#### Relative Water Supply Cost per Source



Source: Bluefield Research

Potable water reuse economic feasibility is increasing because of the constriction of water resources. Bluefield Research
study reveals that
the costs of
Water Reuse
are very competitive
versus alternatives.





New EU Regulation about **Reuse Water** will apply from 26/06/23



New law in Portugal (DL nº 11/2023) simplify the 2019 version

Simplify the 2019 law version:

SIMPLEX

 Quality parameters suitable for the defence of public health;

Licensing / prior communications;

• ...

+ INNOVATION

+ Efficiency in agricultural irrigation;

+ Technology: Reuse monitorization;

+ Sensors / IoT / IT management;

+ Water "Circulars";

+ Aquifer recharge

+ COMMUNICATION

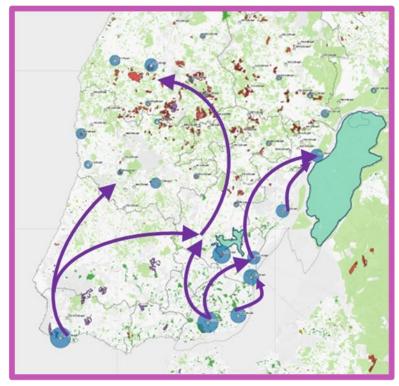
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+ Recognition;

+ Involvement;

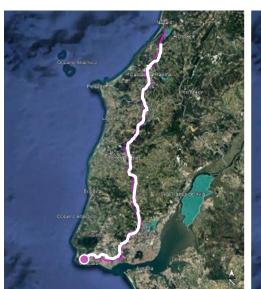
+ Information;

+ Results

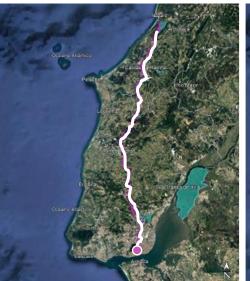


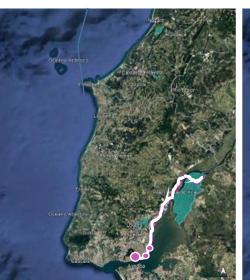
## WATER CIRCULARS

From the largest WWTP to where water is needed for irrigation













VIRA, a brand of craft beer created by Tejo Atlântico made from **água+**, with complementary treatment through ozonization and reverse osmosis, subject to the most rigorous quality tests

### 100% secure.

VIRA was created to change mindsets and raise awareness of the importance of reuse as a way to preserve our most precious resource, water.



