CETAQUA
WATER TECHNOLOGY CENTRE

VEOLIA

New contexts and market/industry expectations for innovative technologies with reduced environmental impacts

WHERE INNOVATION HAPPENS

SUMMARY

1. Introduction
2. Who we are
3. What we do
4. New challenges
5. Market expectations

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01

Introduction

Who I am

Chemical Engineer with a postgraduate degree in Water Treatment Facilities Operation and Management.

Passionate about **Environment and Water Treatment**.

Enthusiastic about **learning and solving problems** and new challenges.

Currently in the **Innovation Area of AGBAR - Veolia Spain.**

OPERATIONS

INTERNATIONAL

ENGINEERING

INNOVATION

BUSINESS

KNOWLEDGE MANAGEMENT

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02

Who we are

WE ARE CETAQUA

A network of water technology centres based on a **unique public-private collaboration model**.

We offer **RDI solutions that ensure that the entire water cycle is sustainable and efficient at all stages**, for all the **AGBAR-Veolia companies in Spain.**

Always **connected to the local area**, understanding local needs in order to cope with global challenges and thus ensure economic, environmental and social growth.

From the **Return Area** we work on high TRL solutions to generate **short-medium term impact in our business.**

We are a connected network of RDI centres that carries out the innovation roadmap for adaptation and resilience to climate change.

CETAQUA CHILE
AGUAS andinas
VEOLIA
CSIC
UNIVERSIDAD TÉCNICA FEDERICO SANTA MARÍA

CETAQUA GALICIA
ViAQUA
CSIC
USC

CETAQUA ANDALUCÍA
HiDRALiA
CSIC
UNIVERSIDAD DE MÁLAGA

CETAQUA BARCELONA
Aigües de Barcelona
CSIC
UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH

CETAQUA COMUNITAT VALENCIANA DELEGATION
HiDRAQUA

INNOVATION ECOSYSTEM

We work collaboratively with the public and private sectors, relying on the key players in territorial ecosystems.

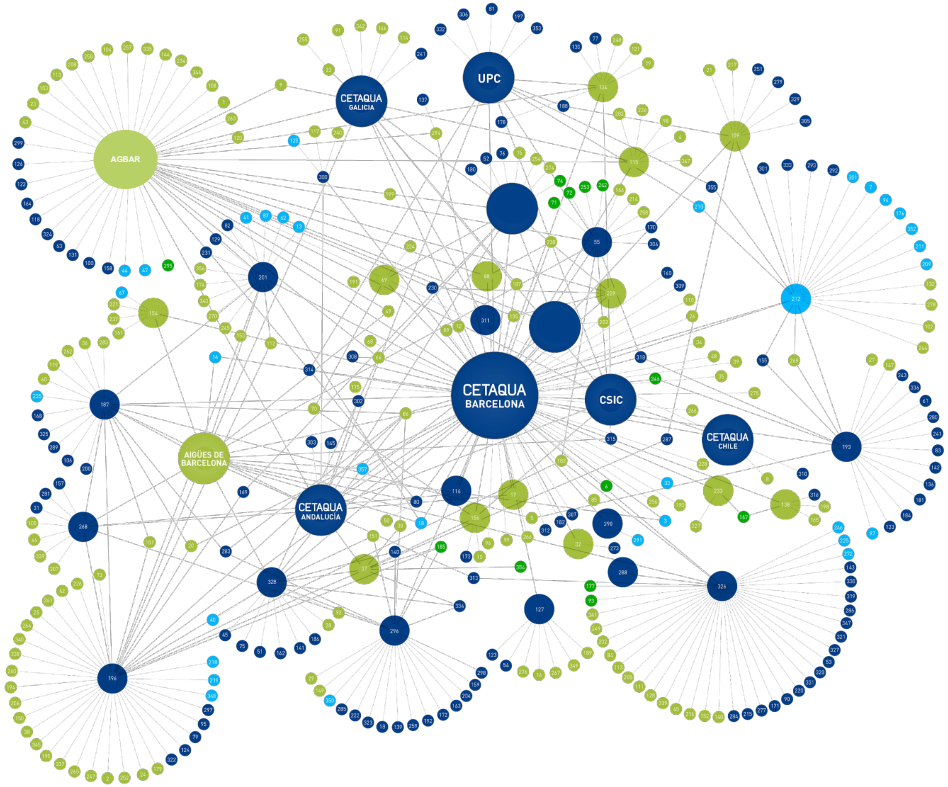
The relationships we establish ensure that we work on **innovative, solid and robust solutions that contribute to economic development, the environment and the improvement of people's quality of life.**

+300 COMPANIES

+150 UNIVERSITIES AND RESEARCH CENTRES

+50 PUBLIC BODIES

+50 ASSOCIATIONS



We believe in the power of public-private collaboration, because by working together we not only move faster, we go much further.

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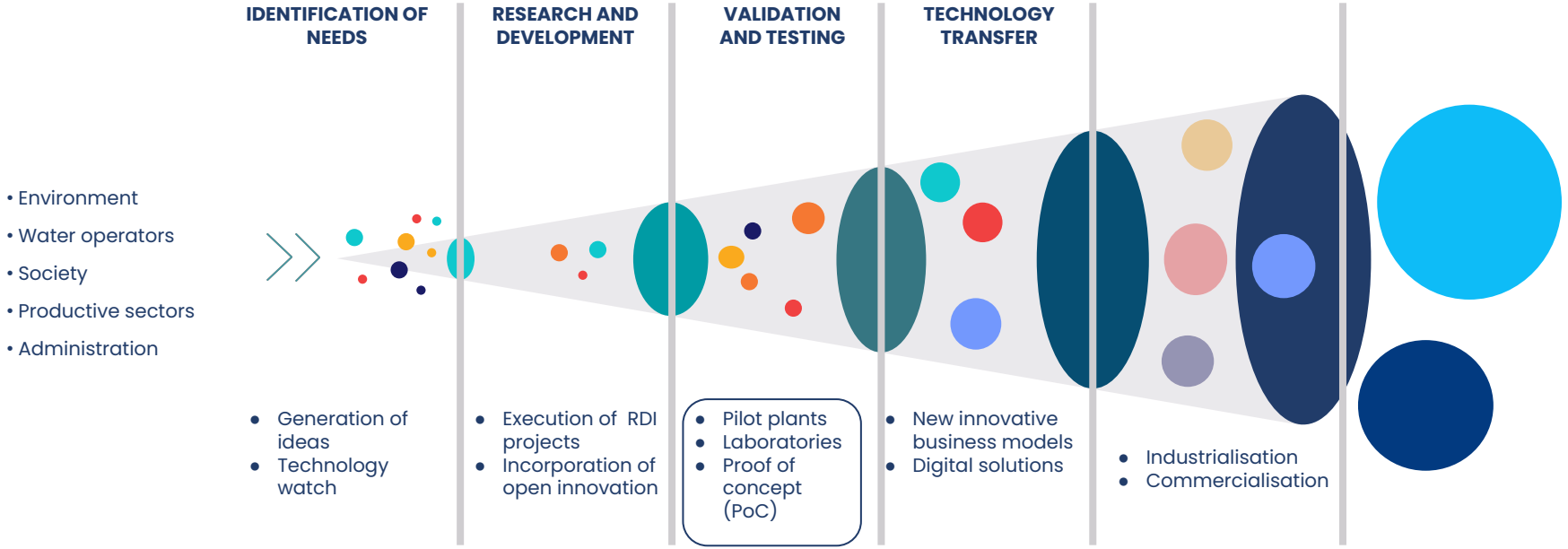
03

What we do.
The model

INNOVATION MODEL

Our methodology covers the entire **innovation process**: from the identification of opportunities and needs in the environment to the generation of scientific knowledge that materialises into applicable solutions.

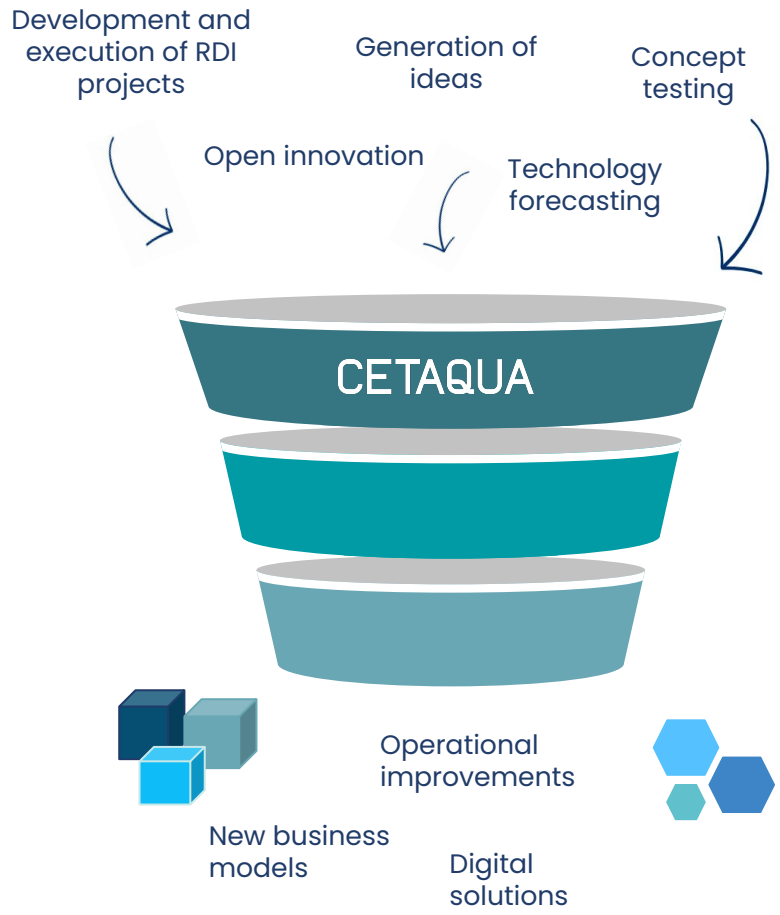
Robust solutions that cover the complete water cycle, including the link with the management of energy and waste that depend on this resource.



OVER 15 YEARS TURNING IDEAS INTO TRANSFORMATIVE REALITIES

Through our activity, we develop and implement tangible, measurable and robust solutions that have a positive impact on economic development, the environment and people's quality of life.

Be it through innovative business models, revolutionary products, advanced services or improvements in the management of water resources.



COLLABORATION MODELS

Flexible models of agreement with Agbar-Veolia, for companies with (proven) innovative solutions (either existing References or performed Proof of Concept Trial)

- ✔ **Preferential Supplier** with special conditions
- ✔ **Partnership** to co-develop a solution for a specific market (with/without funding)
- ✔ Exclusivity **Agreement**
  - ✔ by Customer List
  - ✔ by Geography
  - ✔ By Market segment
- ✔ **Investment**

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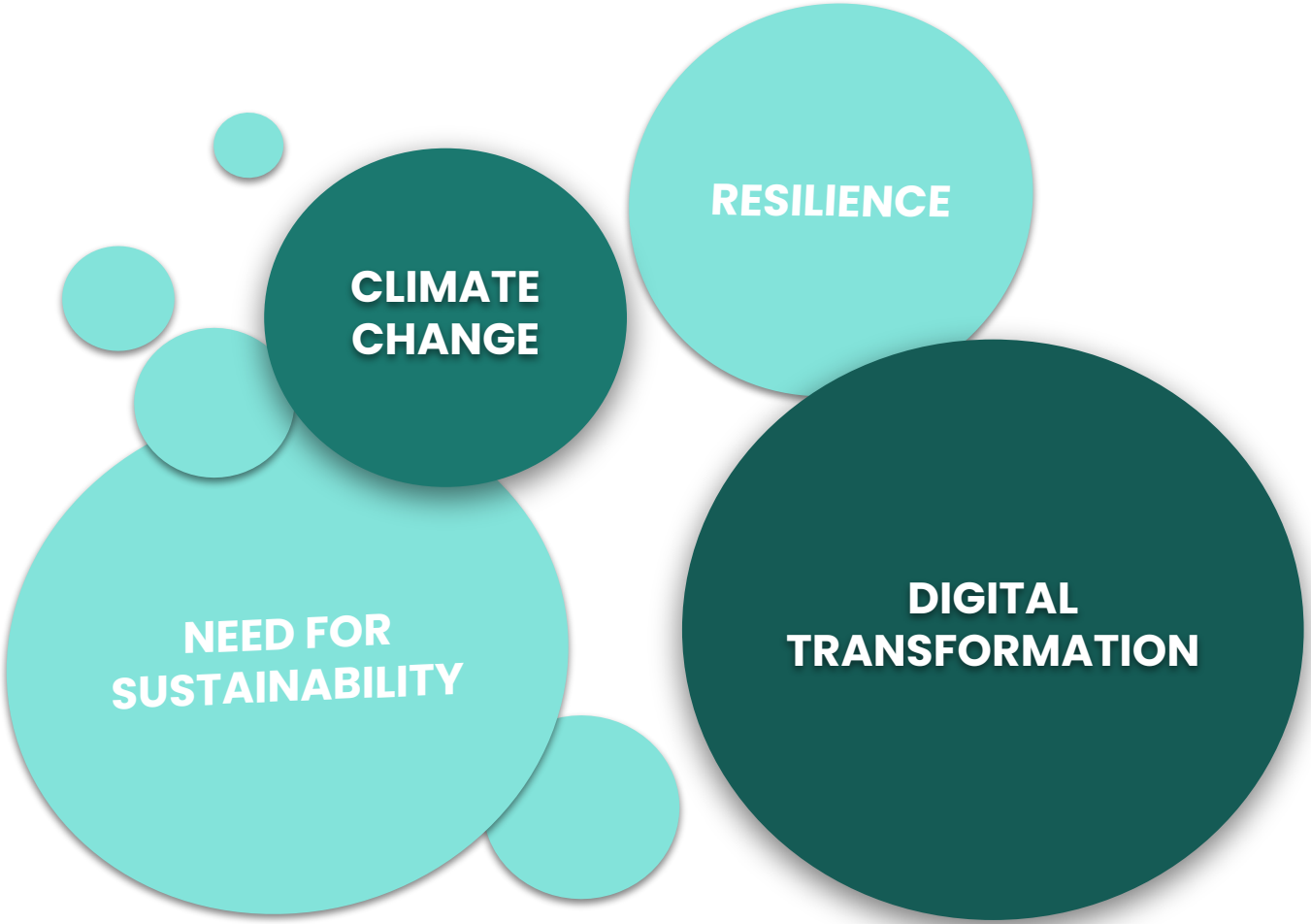
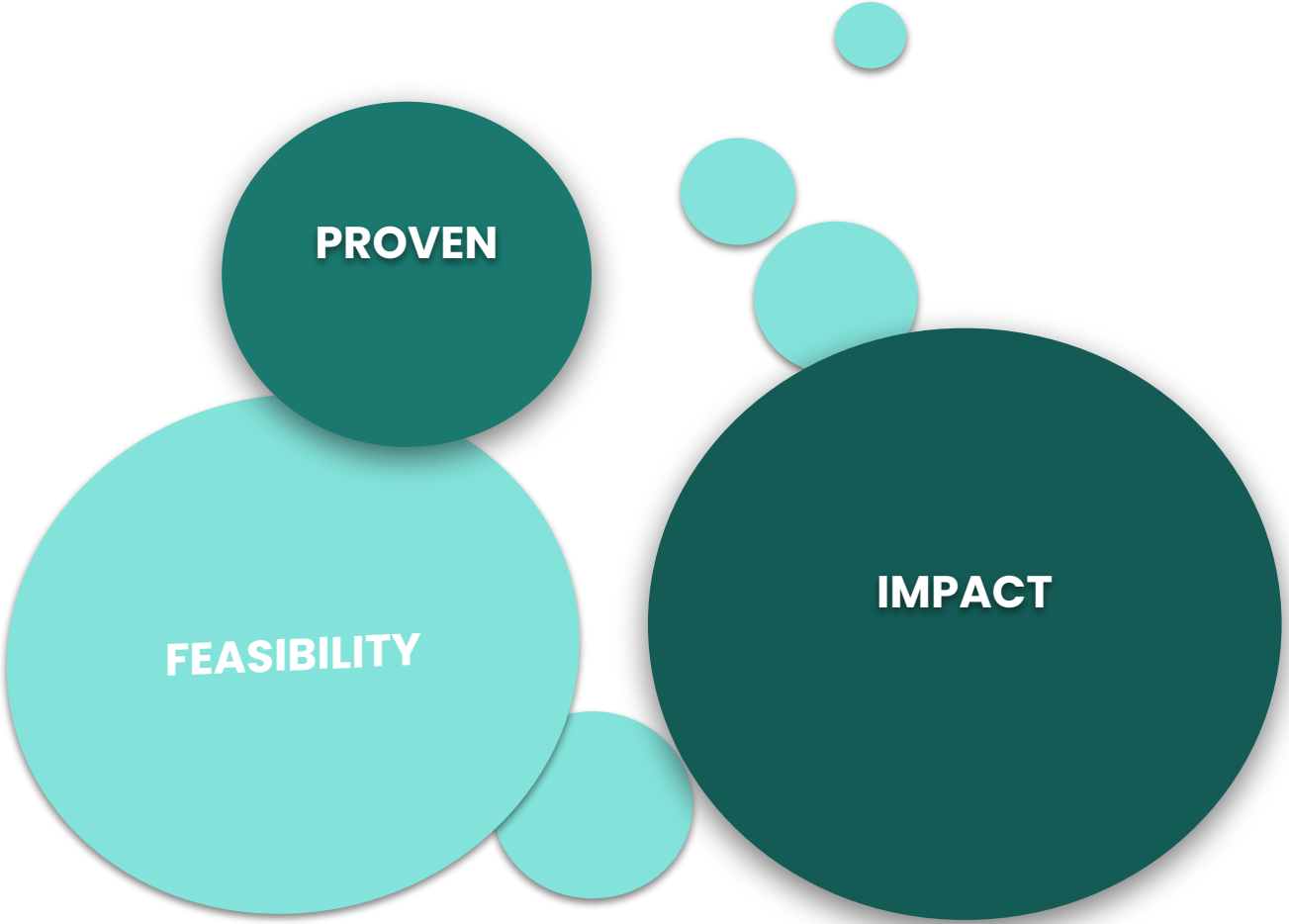
04

New challenges

NEW GLOBAL CHALLENGES



LOCAL CHALLENGES



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05

Market expectations

MARKET EXPECTATIONS

CLIMATE CHANGE

- Decarbonisation of our business to reduce carbon footprint
- Guarantee availability of drinking water in quantity and quality (emerging pollutants, advanced wastewater treatments, new water resources,...)

RESILIENCE

- Resilience in front of extreme events
- Guarantee availability of drinking water in quantity and quality
- Resource planning and management
- Energy self-sufficiency

Aligned with the Sustainable Development Goals promoted by the United Nations:

MARKET EXPECTATIONS

DIGITAL TRANSFORMATION

- Optimization of processes using digital solutions (IOT, AI based controls, computer vision,...)
- Secure operation of assets (cybersecurity, reliability,...)
- Improve customer service
- Asset management

NEED FOR SUSTAINABILITY

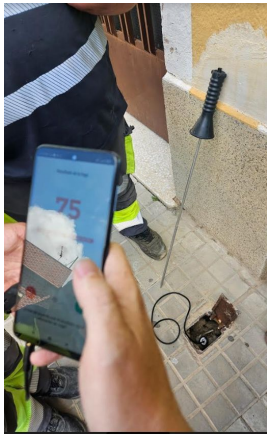
- Energy efficiency and recovery
- Zero waste & new resources (processes to recover resources to new products)
- Reduction of water and carbon footprint

Aligned with the Sustainable Development Goals promoted by the United Nations:

OUR EXPERIENCE

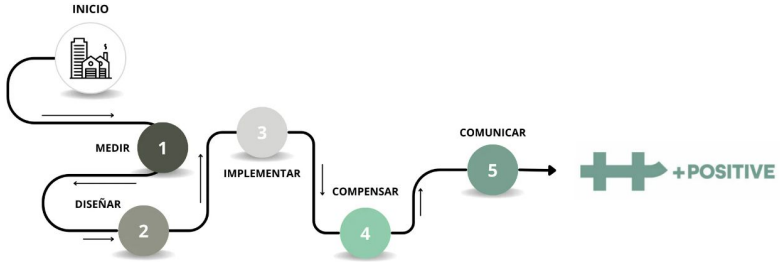
WATER LEAKAGE DETECTION

SoundWater



ENVIRONMENTAL CONSULTANCY

+POSITIVE



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Thank you

WHERE INNOVATION HAPPENS

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HiDRAQUA

CETAQUA

EsAgua · CO2 Trabajamos por el desarrollo sostenible en todas nuestras actividades. Cetaqua es una organización neutra en carbono y calcula su huella hídrica.