



Science and technology to understand
flow behavior in environmental and water
quality studies

Real water does not flow as we think it does. We still understand little about how water moves in rivers. We make regulatory and industrial decisions based on assumptions, outdated formulas, and generic models, often without real data or with high uncertainty.


The result: regulatory mistakes, **poor water management and millions in cost** for governments and companies. 80% of the costs associated with the impacts concerning natural disasters are water or weather related, reaching 3% of GDP in countries like Colombia over the last decade.

WHY IS THIS A PROBLEM?

Because when we do not understand the movement of water...

 The impacts of pollution are underestimated, and rivers' health is affected without being detected in time.

 The risks associated to access to drinking water and poorly managed emergencies increase.

 The elevated cost of studies that do not necessarily reduce risks and can lead to poor decision-making (e.g, businesses and governments).

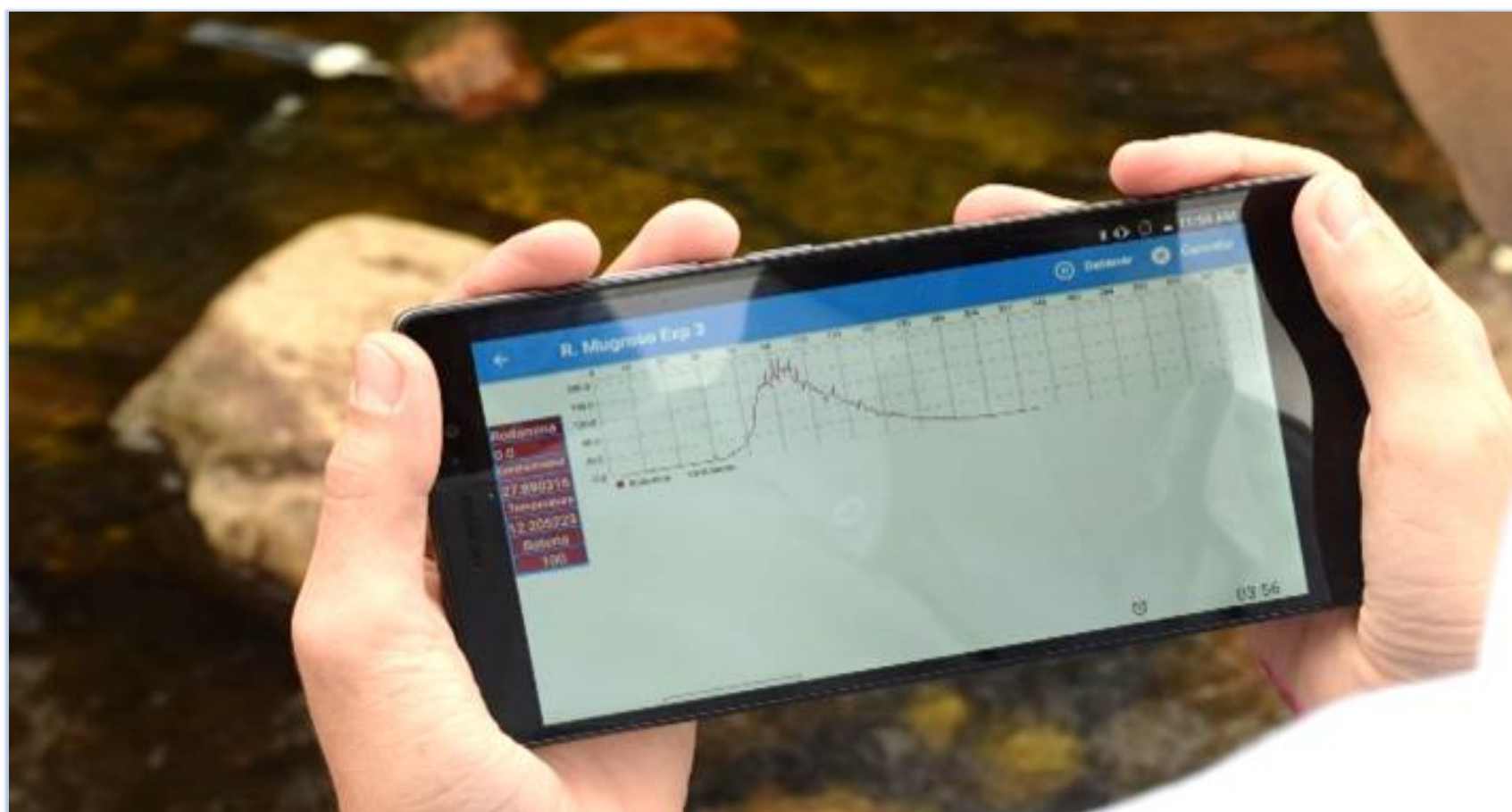
Uncertainty costs money and erodes trust: a single day of data collection in fieldwork costs millions, and data is often lost due to poor practices and outdated work models.



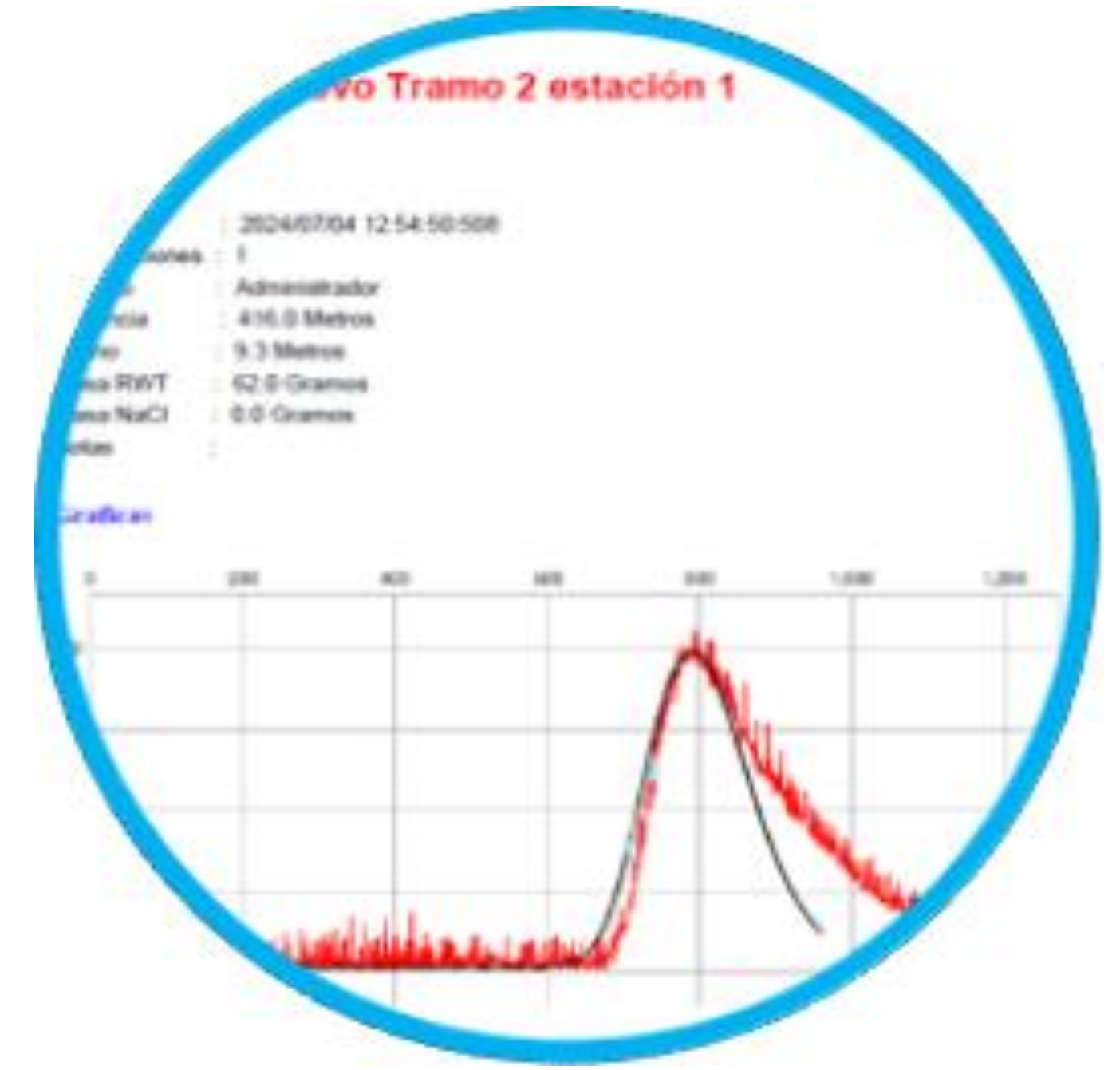
We measure the river as it really is!

1. We release a safe tracer into the flow
 2. We observe how the water moves in reality
 3. And turn that movement into clear information
- Instead of guessing, we measure!**

Our tech solution enables real-time understanding of hydraulic behavior and contaminant dispersion in any flow using tracers, processing data with new scientific methods in less time and, reducing costs.



OUR SOLUTION



Software (Fluvia App), analog-digital interface and sensors for temperature, conductivity and luminescence*.

A simple method and a user-friendly device designed to ease access to key data collection for all type of water bodies.

The app processes hydraulic and dispersion data in a practical way, reducing time and costs.

* We are currently developing a custom-made, domestically manufactured multiparameter probe with the support of ATENEA Agency

Tech-enabled business model

Use and applications

CO-CREATION
Development of new P&S




PRODUCTS
Equipment and supplies




SERVICES
Engineering as a service



 **ENVIRONMENTAL AUTHORITIES (B2G).** Watershed planning. Land-use planning. Risk and disaster management. Environmental permits.

 **INDUSTRY (B2B).** Environmental procedures. Occupancy and discharge permits. Water footprint. Water neutrality. Water availability.

 **UNIVERSITIES.** Training & Joint research. Co-development. Sale of equipment and supplies. Third-part consulting services.

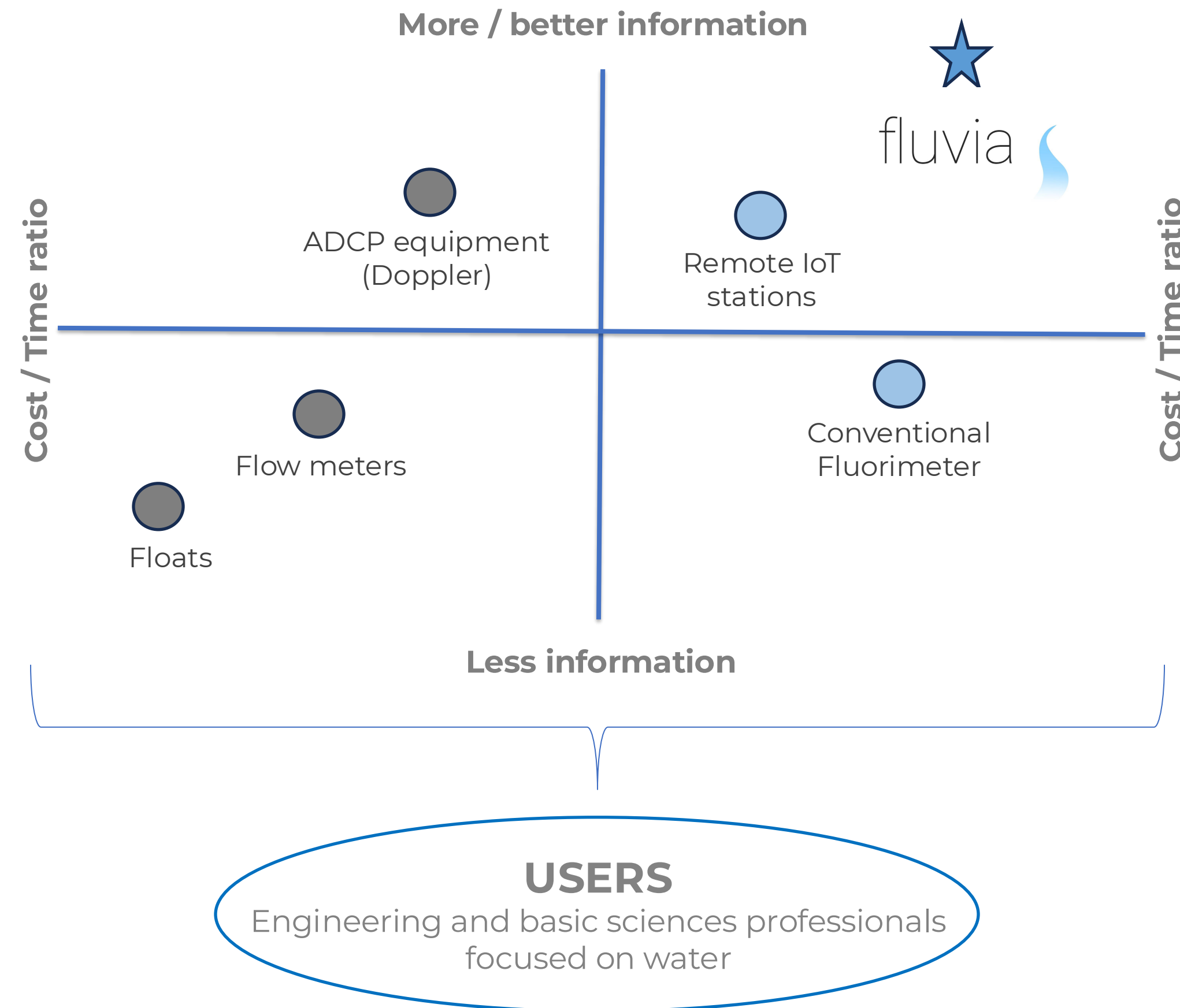
Travel time studies with Fluvia can be obtained in a single day!
(passing those savings on to our clients)

HOW DOES WE WORK?

¿WHAT IS REQUIRED?

1. Location
2. Length
3. Width
4. And with this, define the tracer mass

Replacing or combining different solutions to characterize flow behavior at the hydraulic and dispersive transport levels in all types of water bodies for different kind of projects



CLIENTES POR NICHOS

GOBIERNO			
ACADEMIA			
CONSULTORIA			



ABOUT US

- Colombian Deeptech and Climatech company
- Patented solution TRL7 and CRL3
- Multidisciplinary team: software, electronics, environmental, marketing, and management
- The best solution for large rivers
- Local development, GLOBAL OPPORTUNITY



OUR MILESTONES

- ✓ +40 satisfied customers
- ✓ +20 characterized watersheds
- ✓ +80 studies for industries
- ✓ +100 beneficiary communities
- ✓ +40 scientific papers
- ✓ 1 international presentation
- ✓ Supported by major organizations in Deeptech and Climatech ecosystems.



Invention Patent

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CONNECT



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