



II Ciclo de 20 MasterClass

AGUASRESIDUALES.INFO

MasterClass 17



“Detección de microplásticos en las aguas residuales urbanas y su eliminación en la EDAR”



18 MAYO

16:30 h. española

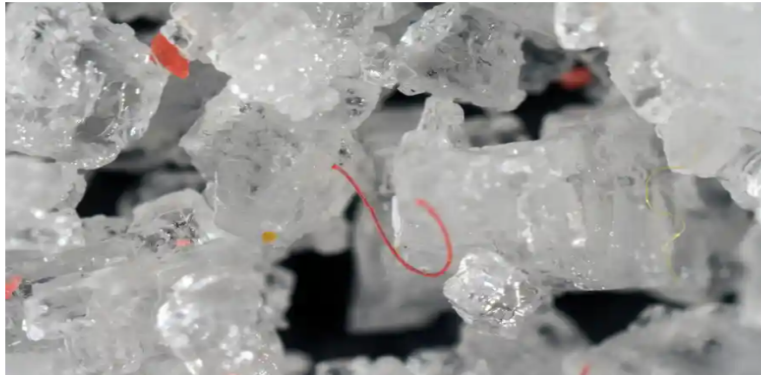
Raquel Parra

CEO Captoplastic S.L.



MICROPLASTICS – GLOBAL PROBLEM

Health effects of ingestion of microplastics via food, water and breathing still unknown



People eat at least 50,000 plastic particles a year, study finds

It took you approximately
1 WEEK
to eat this credit card



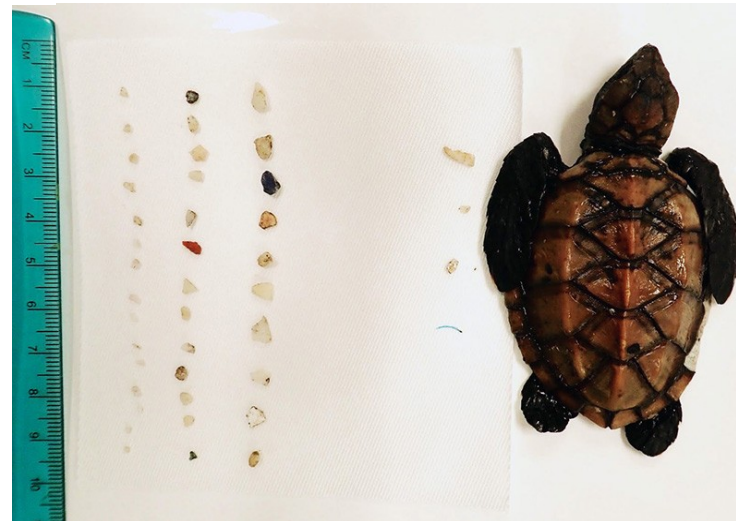
Microplastics Found in Human Placentas for the First Time

By Andrew Johnson Published on 1/21/2021 at 9:54 AM



Microplastic pollution in oceans vastly underestimated - study

Particles may outnumber zooplankton, which underpin marine life and regulate climate



Red microplastic fibres wrap around a *Temora* copepod, a species of zooplankton. Credit: Plymouth Marine Laboratory



1.4 trillion microfibers particles, weighing from 93,000 to 236,000 tons, can be found in the marine environment.

They are pretty much everywhere you look. We eat them, drink them, inhale them.

Upcoming regulation is being prepared

TA2019/0071, related MPs control and monitoring.

2020/2184, related to water quality and microplastics control in human consumption.

Target WWTP urban and industrial.



CAPTURE

CaptoSYSTEM



MPs captured in any water stream

CaptoFIBERS



MPs captured in Washing Machines

CONTROL

Quantification & Identification

CaptoLAB Service



CaptoLAB Equipment



CaptoCONTROL



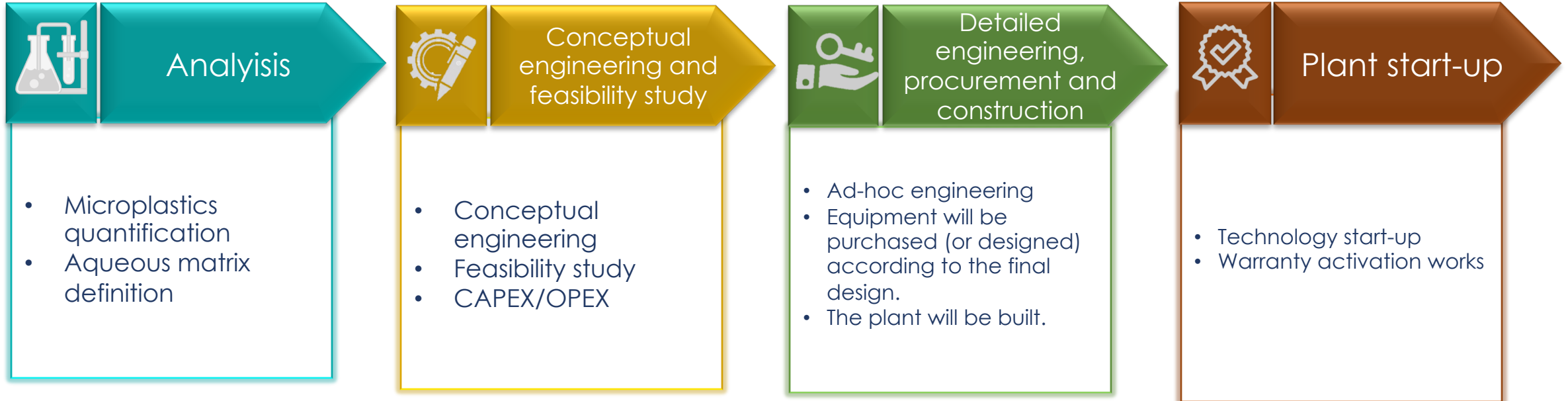
CaptoSYSTEM



PILOT PLANT 1.000 l/h

- Adaptable to any water stream
- > 90 % MPs recovery efficiency
- Capturer re-used over and over again. MPs can be revalorized
- Zero Waste Technology
- Tested with real wastewater (Urban & Industrial)
- Low CAPEX & Low OPEX
- Comply with upcoming regulations
- Main Objective 2023
Implementation on WWTP 5.000 m³/day





CaptoFIBERS



- Tested on Washing Machines with different type of fibers / clothes materials
- Easy integration
- > 90 % MPs recovery efficiency
- Comply with upcoming regulations

CaptoLAB Service



- Robust & Standardizable Lab Method



- High Precision



- Method Tested & Verified on all kind of water (industrial, urban, textile, etc) including drinking water



- Service Status - Under Accreditation (ENAC – Spanish National Accreditation Body)

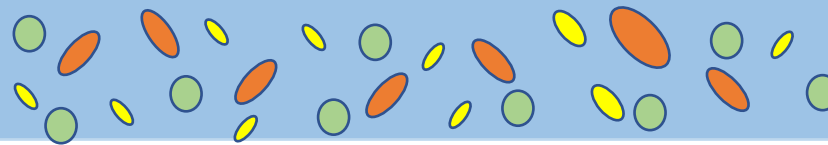
CaptoLAB Equipment



- Customers quantification by their own
- Not special laboratory requirements
- High Precision of detail & Quick Technique
- Competitive price

CaptoCONTROL

- Product Under Development
- Adaptable to any water stream
- Customers quantification by their own
- MPs Monitoring System 24/7
- Competitive price





WATER TREATMENT PLANTS

URBAN

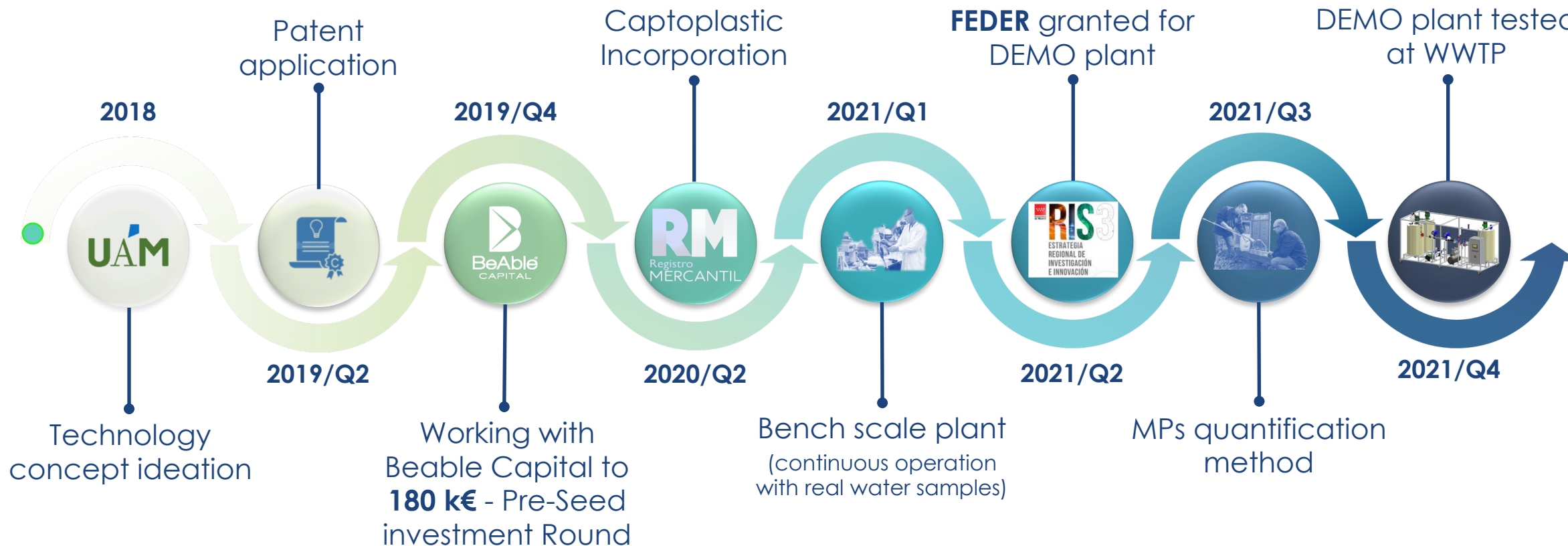
Logos of urban water treatment plant customers: acciona, global omnium, aqualia, Canal de Isabel II, GESTAGUA, FCE, raur, suez, VEOLIA, EMACSA (EMPRESA MUNICIPAL DE AGUAS DE CORDOBA, S.A.), GS Inima, DAM, esamur, Bilbao Bizkaia Ur Partzuergoa Consorcio de Aguas Bilbao Bizkaia.

INDUSTRIAL

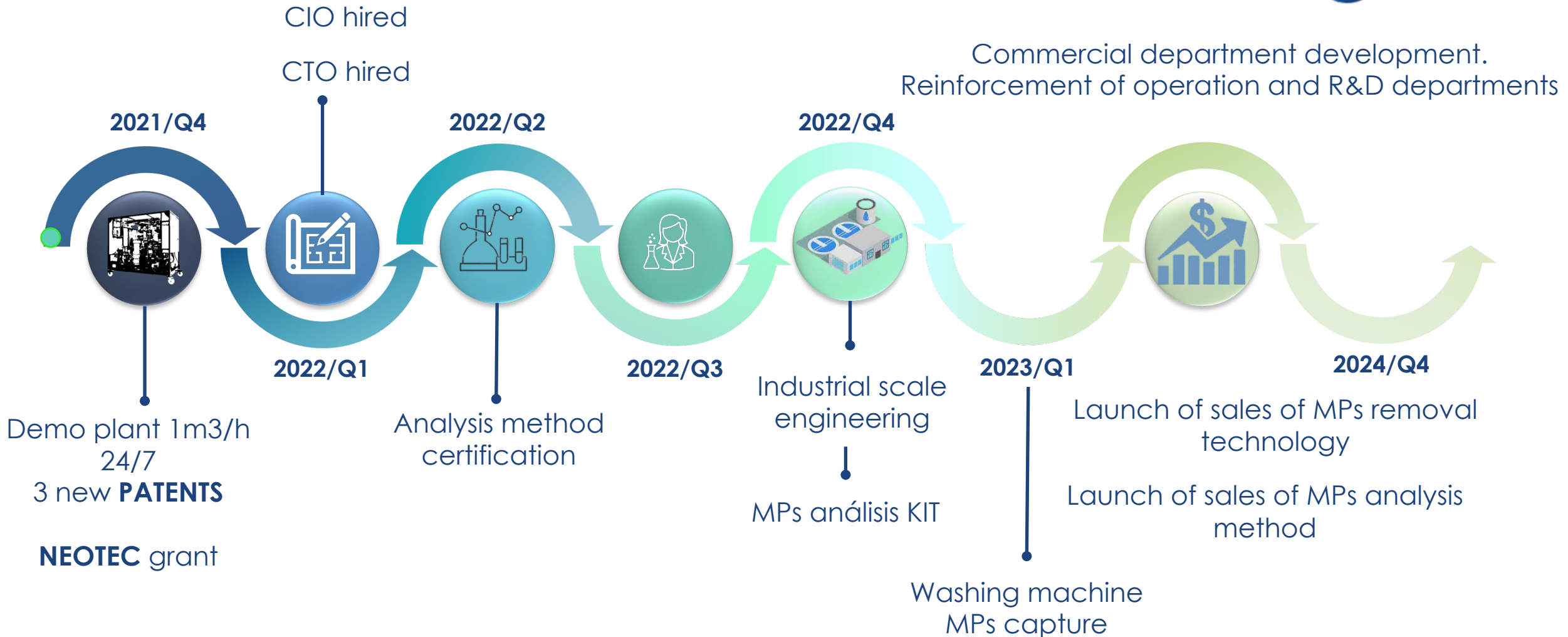
Logos of industrial water treatment plant customers: GIRBAU (BEYOND LAUNDRY), Ravago, anviplas (PLASTIC RECYCLING), ARKEMA (INNOVATIVE CHEMISTRY), Celanese, INDITEX, ALPLA, SOLVAY, REPSOL, BETAPACK, DOW, ORIENT (Coatings & laminates textile solutions), COSENTINO.

WASHING MACHINES

Logos of washing machine customers: BOSCH, Balay, SAMSUNG, Electrolux, Miele, LG, SIEMENS, Whirlpool.



OUR GOALS



OUR TEAM



A team with a great technical background and a clear business vision, leading the fight against Microplastics.



Raquel Parra
CEO



D. Belén Carboneras (PhD)
CTO



Patricia Domínguez
COO



Javier Páez
**Business Developer
Manager**



Alberto Salcedo
Operations Engineer



D. Amparo Fernández (PhD)
R&D Manager



Álvaro Pérez
R&D developer



Juliana Mejía
R&D developer



Esther Solera
Financial Controller

**WATER IS A SCARCE
RESOURCE THAT MUST
BE DEFENDED AND
PROTECTED**



**SUSTAINABLE
DEVELOPMENT
GOALS**



**Gracias por vuestra
atención.**



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