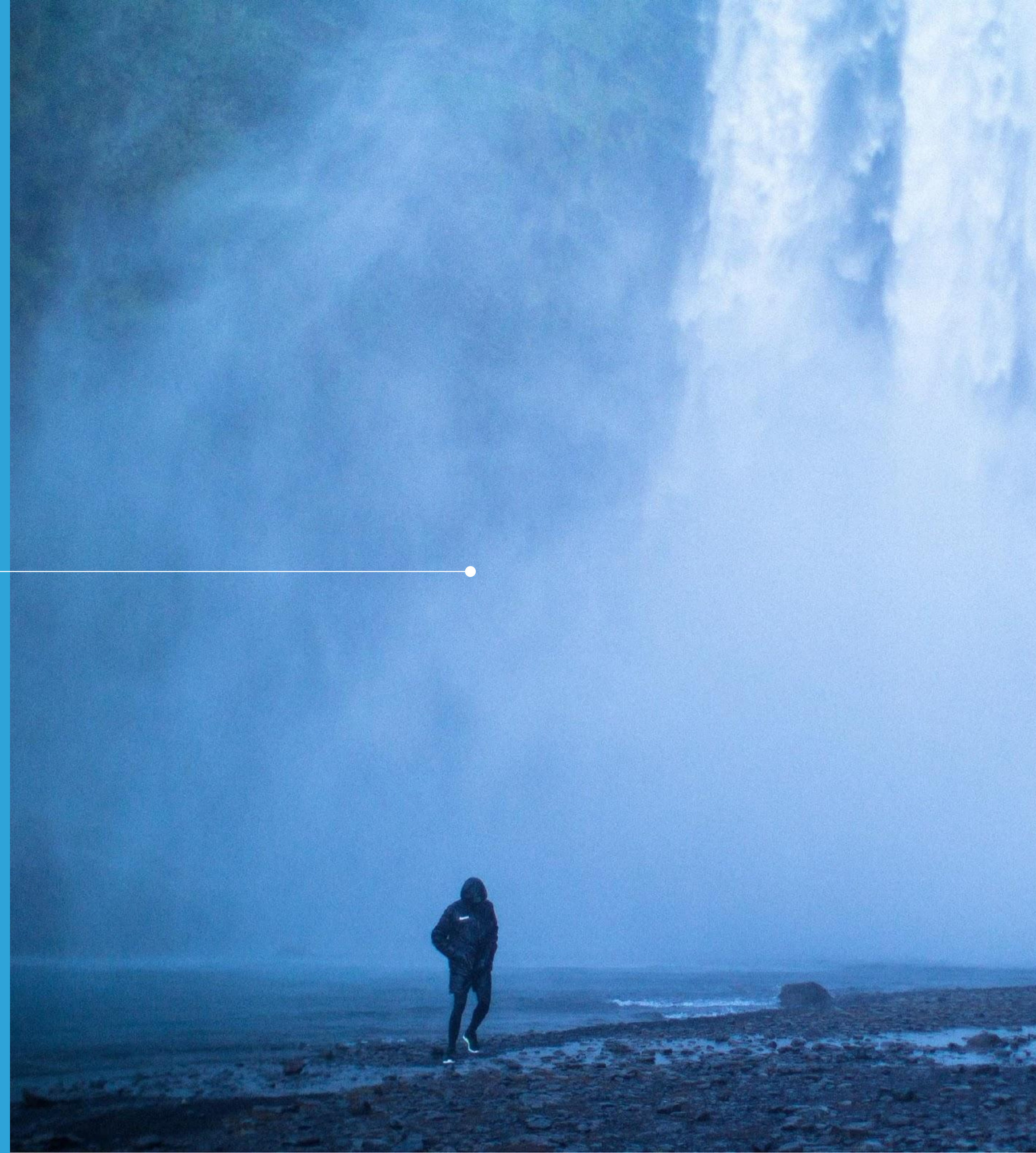Hi there, I'm EPHI, an artificial intelligence that huge goals. In this presentation you can see in detail our **Water Treatment Plant Monitoring system.**
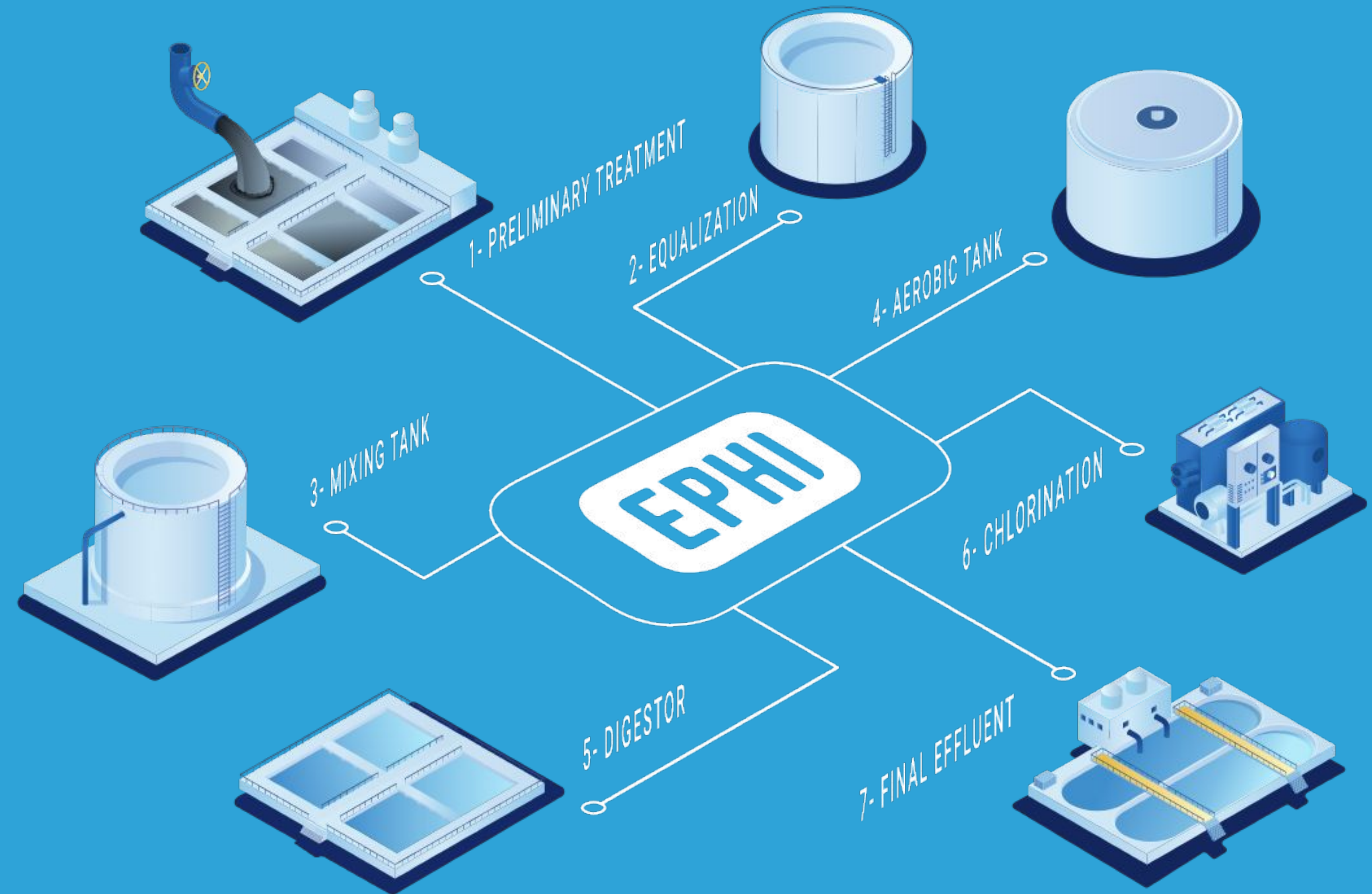
EPHI

EPHI

EPHI IS A RESIDUAL WATER PROCESSING SYSTEM THAT INTEGRATES ARTIFICIAL INTELLIGENCE.

EPHI has a microprocessor connected to the cloud that stores data remotely from the location of workstations and water treatment plants.

We are able to measure bacteria parameters, pH, mineral levels, organic material etc. and maintain them under control.

1- PRELIMINARY TREATMENT

2- EQUALIZATION

4- AEROBIC TANK

3- MIXING TANK

EPHI

6- CHLORINATION

5- DIGESTOR

7- FINAL EFFLUENT

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EPHI

VOLTAGE

When there are unusual fluctuations in the use of electric voltage used to operate one of the sections of your treatment plants notifications are sent out to operators for inspection and maintenance which will avoid costly issues and also increase the life expectancy of your equipment.

pH

We can measure the alkalinity or acidity of the water flow of your plant and keep the information electronically stored automatically.

AMPERAGE

We measure amperage differences of the system and notify the technicians in charge when where are unusual variations in the systems functionality. Regularly scheduled maintenance can avoid overheating and avoid replacing coils. This electrical analysis can avoid equipment from short-circuiting which would implicate needing to replace motors or coils.

BIOLOGICAL PARAMETERS

We measure and record the quantity and quality of aerobic bacteria inside a system and measure sedimented solids and active sludge age by using patented technology. Knowing this allows us to know the removal capacity that the system has, how to optimize and stabilize it.

PLANT LEVELS

We place sensors that inform you about abnormal increases in water levels avoiding spillovers.

ULTRASONIC MEASURING OF FLOW RATES

We use ultrasonic sensors that measure the flow rate inside the system without needing to intervene in an invasive manner, which reduces installation time and costs generating a registry of data online.

EPHI

EPHI

WHAT DO YOU GAIN WHEN YOU WORK WITH EPHI?

PREVENTION

When data is in the cloud EPHI processes, interprets and creates daily water and variable reports.

EFFICIENCY

The data that is collected will allow your company to:
- Optimize operational costs.
- Estimate the use and replenishment of chemical supply.
- Calculate energy use efficiently.
- Online data storage at your disposition.

EARLY ALARMS

With the obtained data, EPHI can predict future behaviors and send an alarm so that operators or the plants automated system can adjust the biological process before any negative impacts occur.

EPHI

WE GIVE YOU 2 OPTIONS:

1. ONLINE MONITORING

When **EPHI** delivers and early alert, we immediately alert plant operators so that they can find a solution to the identified problem.

2. DIRECT OPERATION

When EPHI delivers an early alert **we go to the scene** to solve the problem to prevent and avoid catastrophes.

BOTH OPTION INCLUDE:

DESIGN

We design treatment systems for diverse projects.

INSTALL

We install all systems and guarantee its functionality.

MAINTAIN

We perform routine maintenance of all equipment to ensure proper the functionality of EPHI.

EPHI

INNOVATION CAN'T WAIT

WE WANT

change the way wastewater is treated forever.

EPHI

is the first artificial intelligence specialized in biological process for the treatment of wastewater in the world.

EPHI

LET'S TALK

WRITE US AND WE'LL RESPOND IN LESS THAN 24 HRS

EPHI

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