



The world's most cost efficient, high productive, patented effluent water processing system\*

\*without any chemicals, membranes or filters

Below are just a few examples of products processed by Aqua Tuta



Distilleries



Hydrocarbons



Algae



Hotels/Resorts



Heavy Metals



Wastewater



Beer/Soft Drinks



Coffee/Sugar

# Effluents

- Effluent processing involves large volumes of water, wastewater and tracts of land
- Effluents have **high COD/BOD, pH**, etc.
- Effluents can xpose significant threat to natural ecosystems if discharged without the correct treatment, effluents being rich in nutrients and other contaminants
- Remedial action for water bodies difficult to be focused from a management and conservation point
- Wastewater from effluent processing is heavily polluted with organic matter, etc.
- The release of high amounts of contaminants into water bodies creates serious health and environmental problems and may lead to an upsurge in wastewater treatment cost\*
- Contaminants are being heavily restricted year upon year



Example of heavy metal effluent treated with Aqua Tuta  
Left: Treated. Right: Untreated containing for example molybdenum and mercury

# Limitation of conventional systems of wastewater treatment



- **High CAPEX**
- **High OPEX**
- **Chemicals**
- **Air Compressors**
- **Filters**
- **High footprint/large tracts of land required**





# Aqua Tuta wastewater processing technology

- **Extremely small footprint 2m<sup>2</sup>**
- **Up to 240m<sup>3</sup>/24h**
- **Continuous processing**
- **Aqua Tuta will adapt to more restrictive regulations**
- **CAPEX USD 4 cents/metric ton**
- **Non chemicals**
- **No membranes**



# Advantages of Aqua Tuta Technology

The Aqua Tuta process recycles the effluents to clean water and as a by-product automatically separates organic matter that can be used as natural, sustainable fertilizer.

Aqua Tuta advantages:

- **Lowest CAPEX**
- **Lowest OPEX**
- **Lowest annual maintenance**
- **Lowest square meter requirement/m3.**
- **High volume processing in cubic meters/module**
- **Fastest effluent processing time.**
- **Automatic separation of organic matter**
- **Easy to use**
- **Low threshold to operate.**
- **Sustainable**
- **NON CHEMICAL**
- **NO MEMBRANES**



# Aqua Tuta™ Patented Technology

- AQUA TUTA™'s technology, though extremely powerful, has the **smallest area footprint in the industry.**
- AQUA TUTA™ is the most cost efficient (CAPEX and OPEX) technology called **convective reaction**, with wide-ranging applications in water processing.
- Convective reaction's water processing treatment removes contaminants that are generally more difficult to remove by filtration, chemical or membrane treatment systems -- contaminants such as suspended solids, high levels of COD and BOD, phosphates, nitrogen, organic acids, heavy metals etc.
- AQUA TUTA™'s groundbreaking advancement in cost efficiency (CAPEX and OPEX) dramatically reduces the cost.



Installation USA

# AT-10 molecule crusher

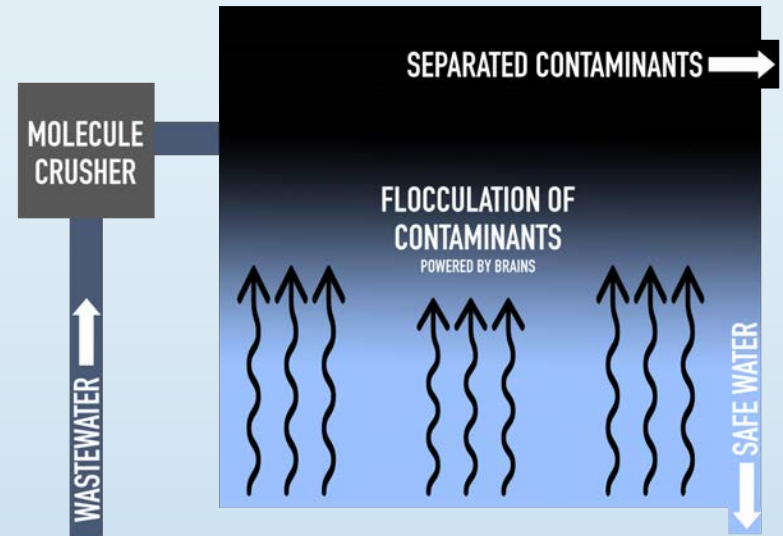


# AT-10 brains



# How Aqua Tuta works

1. Effluent is pumped through a molecule crusher that facilitates the flocculation of contaminants
2. Effluent enters the treatment deposit
3. 7,200 signals/s are transmitted from the brains through the effluents, separating the contaminants upwards
4. Contaminants flocculated upwards are skimmed off by rotating paddles
5. Automatically separated organic materials, like N and P, are disposed of via the chute
6. Safe water is released through the valve at the bottom





## Coffee and sugar effluent lagoons



## Aqua Tuta treated coffee and sugar effluents recycled to lagoons



One example of an effluent treated by the Aqua Tuta waste water processing.

# Heavy metal effluents treated in the USA by Aqua Tuta





# Coffee Effluents Colombia



# AT-10 at work with the smallest m<sup>2</sup> footprint, even in a jungle environment





# International Spanish Hotel Installation in Mallorca





Thank you!

Miguel Verhein  
Executive Director  
Aqua Tuta  
[mv@aquatuta.com](mailto:mv@aquatuta.com)  
+34609601000