

**From Waste Water to high quality re-usable water**



DECENTRALIZED  
WASTEWATER  
TREATMENT

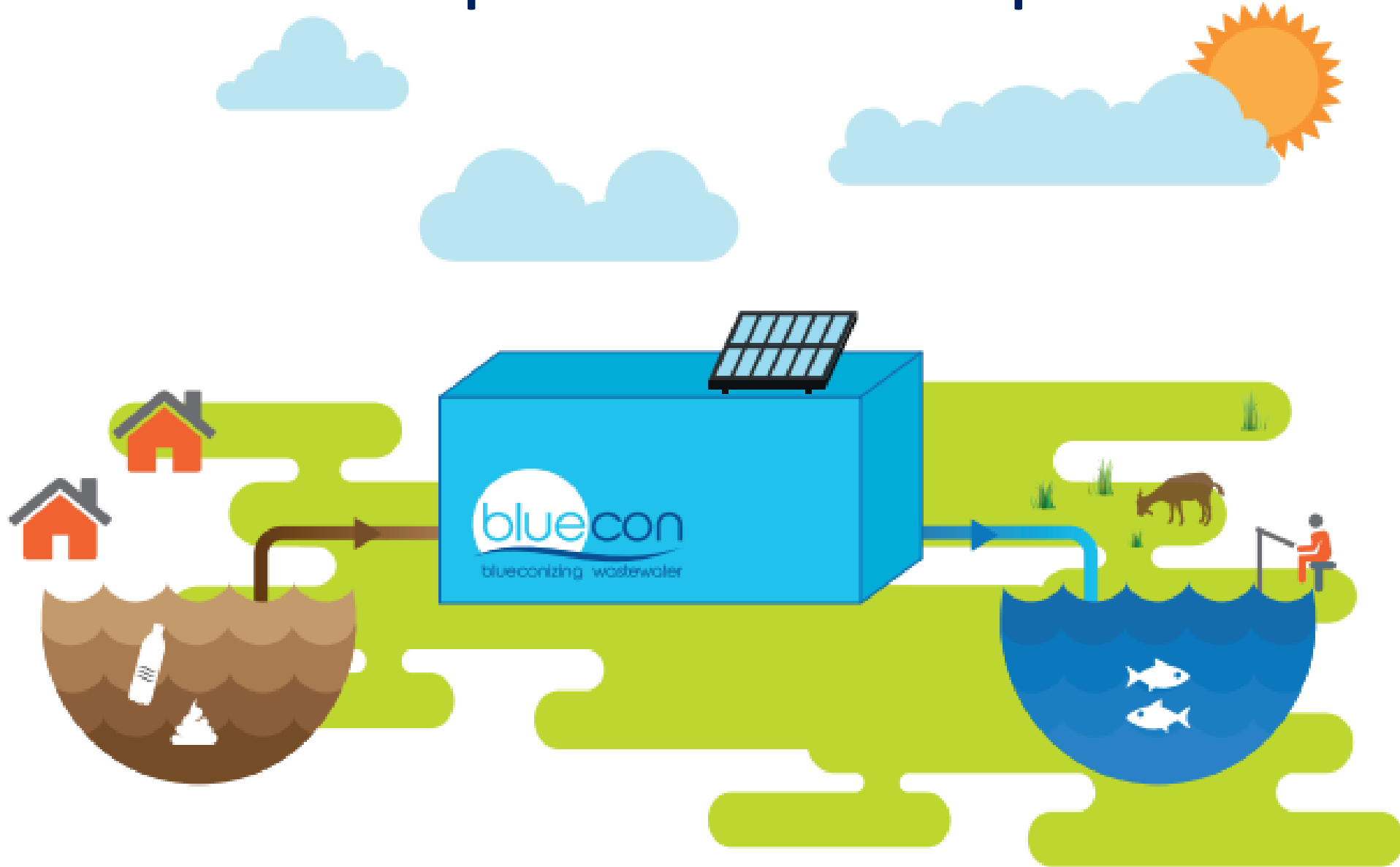
**Bluecon developed a decentralized 100% physical/chemical process to purify wastewater to re-usable water.**



Our goal:

*“Optimise water cycle for local communities”*

# Bluecon simplifies the treatment process....







**....and offers clean water for re-use**

- ✓ **Discharge**
- ✓ **Irrigation**
- ✓ **Parks and green zones**
- ✓ **Re-use in household**
- ✓ **Groundwater infiltration**

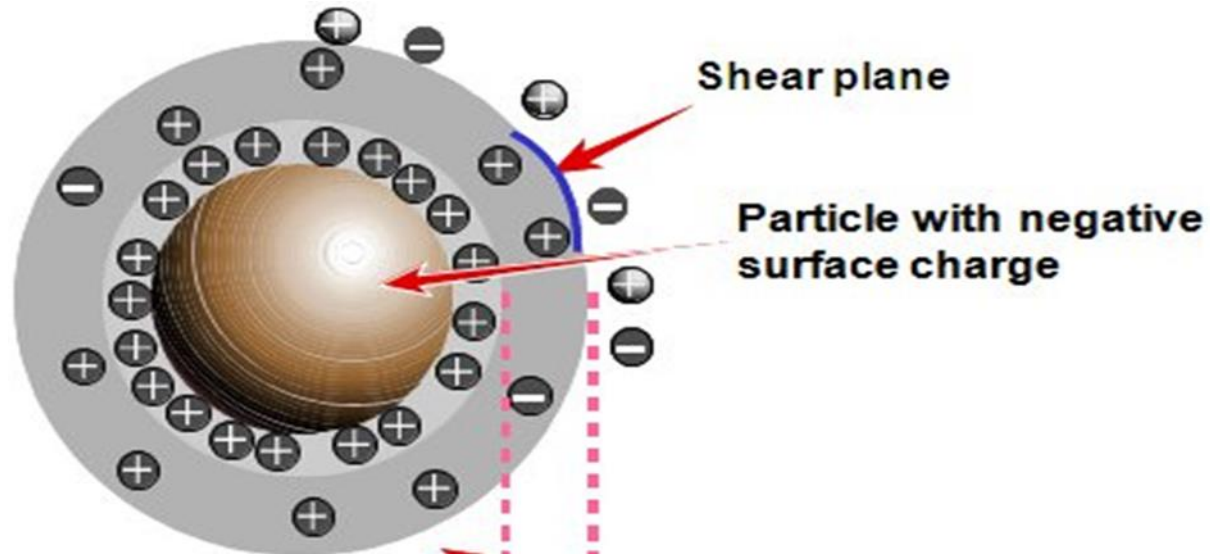
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## Just a few treatment steps



1. Flocculation, Coagulation and Flotation process to reduce COD, BOD, SST, Phosphor y Nitrogen.
2. Super Filtration to eliminate practically al remaining particles.
3. Bacteria and other pathogen are made inoffensive in the disinfection module by oxidation and UV. Here ammonium is also eliminated if desired.
4. Further reduction of COD and BOD in the polishing module, where color is made transparent and odor is further eliminated.

# Bluecon Super flotation by Coagulation & Flocculation



Coagulation is the process whereby destabilization of a solution is effected.



Flocculation is the process whereby destabilized particles, are induced to come together, make contact and thereby form large(r) agglomerates.

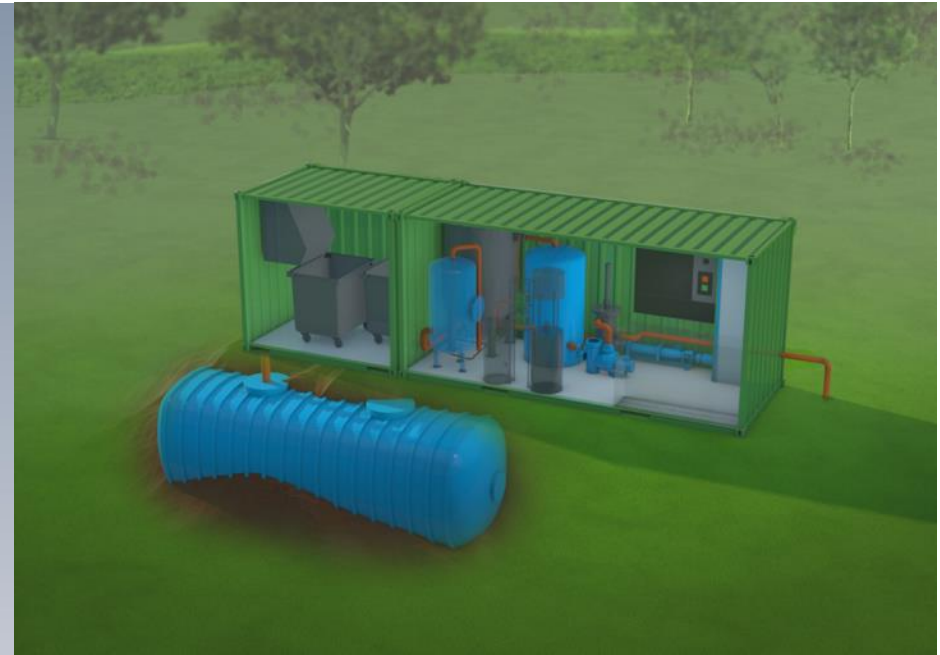
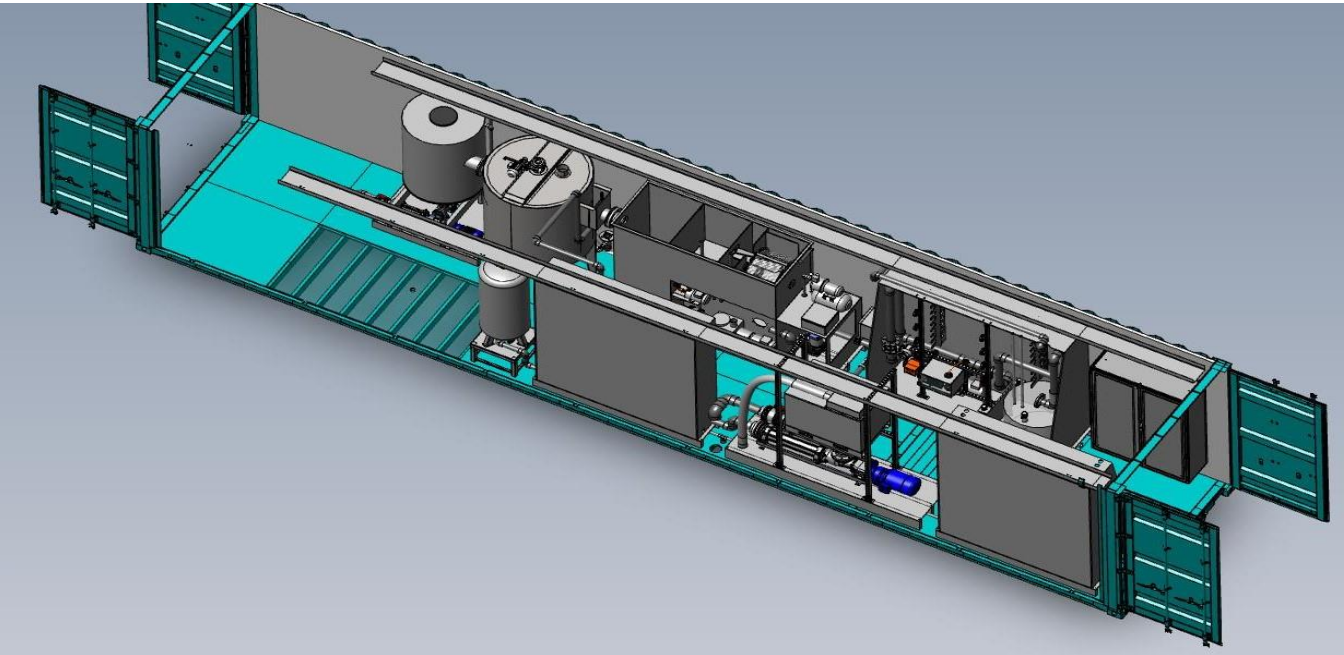


# Gravitair dewatering by bigbag or dewatering screw



- 30% less sludge
- Primary sludge only
- Good for biogas
- Rich of raw materials

**Blueco's modular units are quick to built and install...**

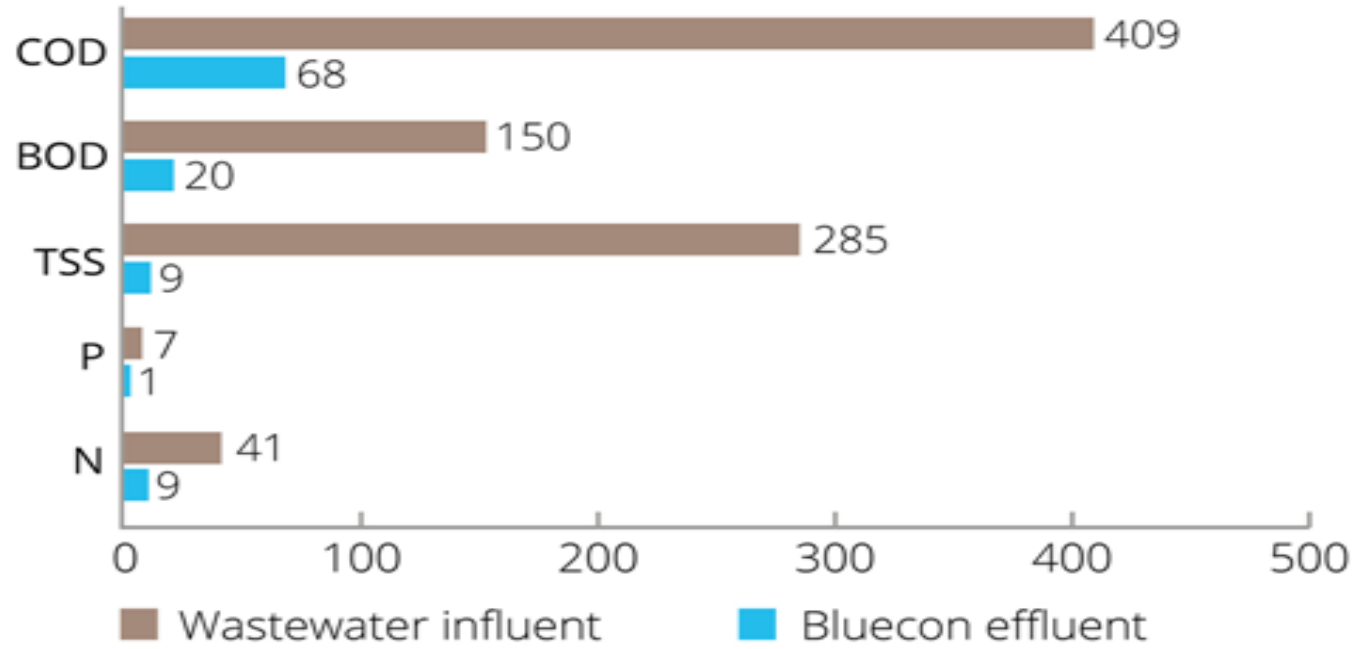




# ... and it's water quality is superior!

## Average discharge results of Bluecon®

For standard domestic wastewater



COD = Chemical Oxygen Demand  
BOD = Biological Oxygen Demand  
TSS = Total Suspended Solids  
P = Total Phosphorus  
N = Total Nitrogen

bluecon  
blueconizing wastewater  
That's clear



BC10



- Low operational costs per m3 (OPEX)
- No large investments in infrastructure, pumps and sewage systems



- Providing water security to farmers
- Possibility to re-use treated water for food production
- Sludge rich of raw materials



- Using recycled water for food production fits well in a circular approach.
- Possibility to use solar energy for the operation.