

# First 18 months of the MEWLIFE project - MicroalgaE biomass from phototrophic-heterotrophic cultivation using olive oil Wastewaters



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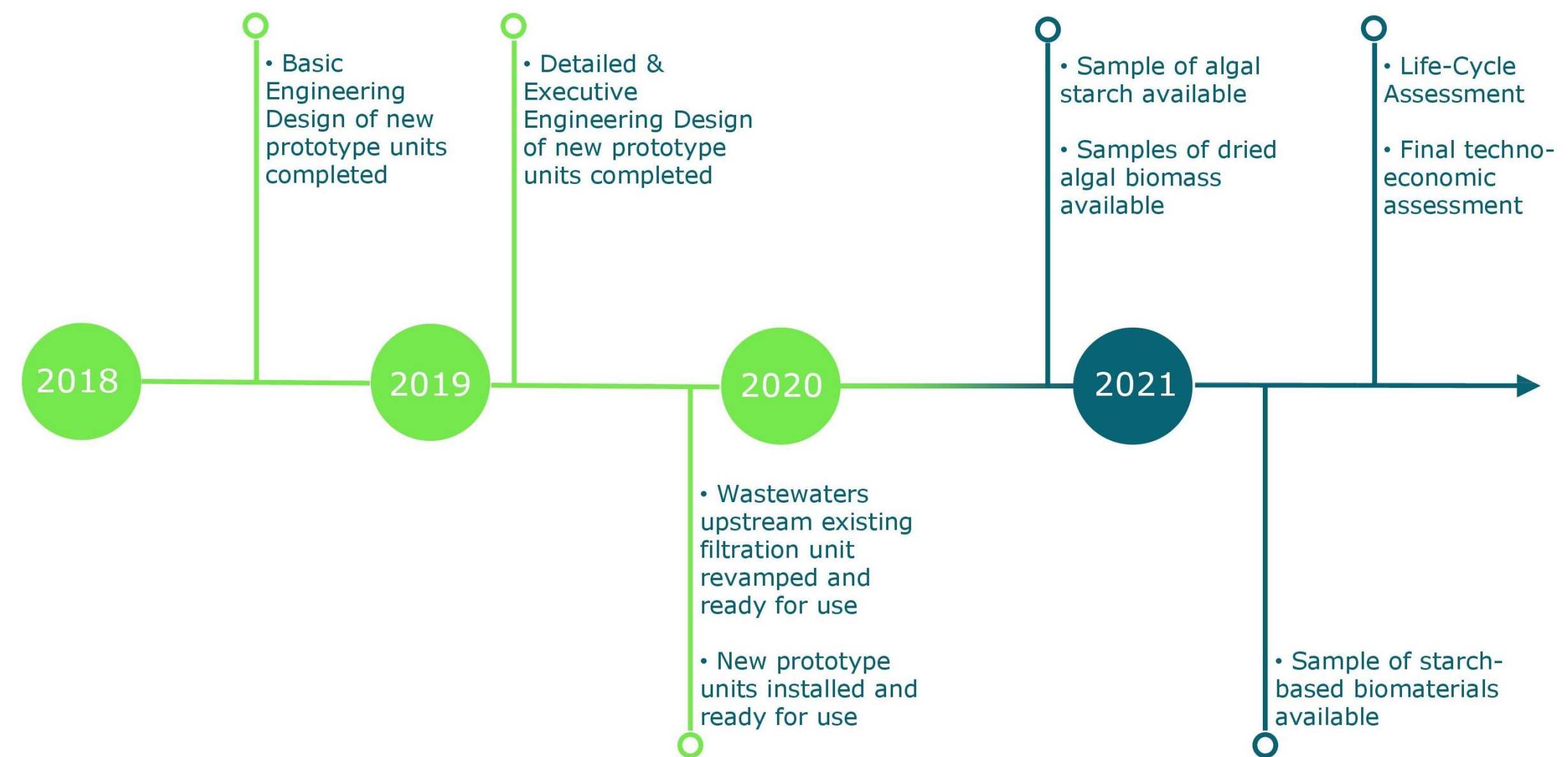
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## Specific objectives

- Wastewaters treatment and valorization**  
Wastewaters from agri-food industry will be treated, re-used and valorized, as input for algae cultivation.
- Microalgae biomass growth**  
The integrated phototrophic-heterotrophic system will allow costs reduction in microalgae cultivation step.
- High-added value products**  
Products for nutraceutical applications and bio-polymers formulations will be extracted from algal biomass.

## Project Work Progress



OMWW



Concentrates

NF/UF Permeates



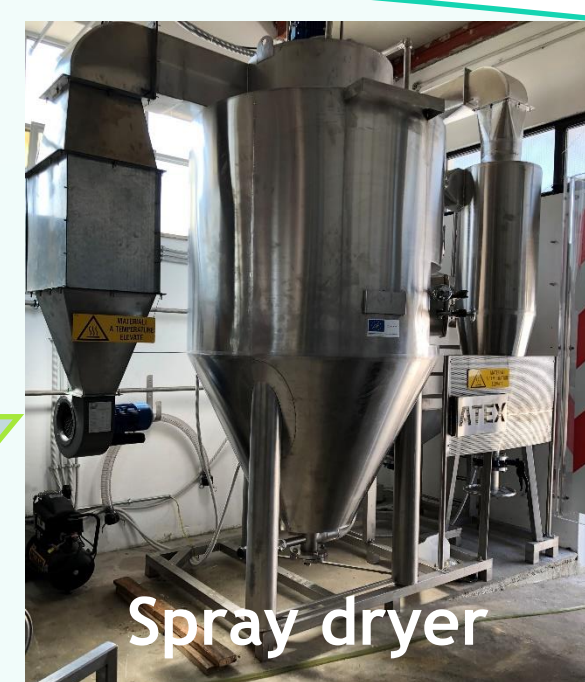
CO<sub>2</sub> NUT



10 g/l



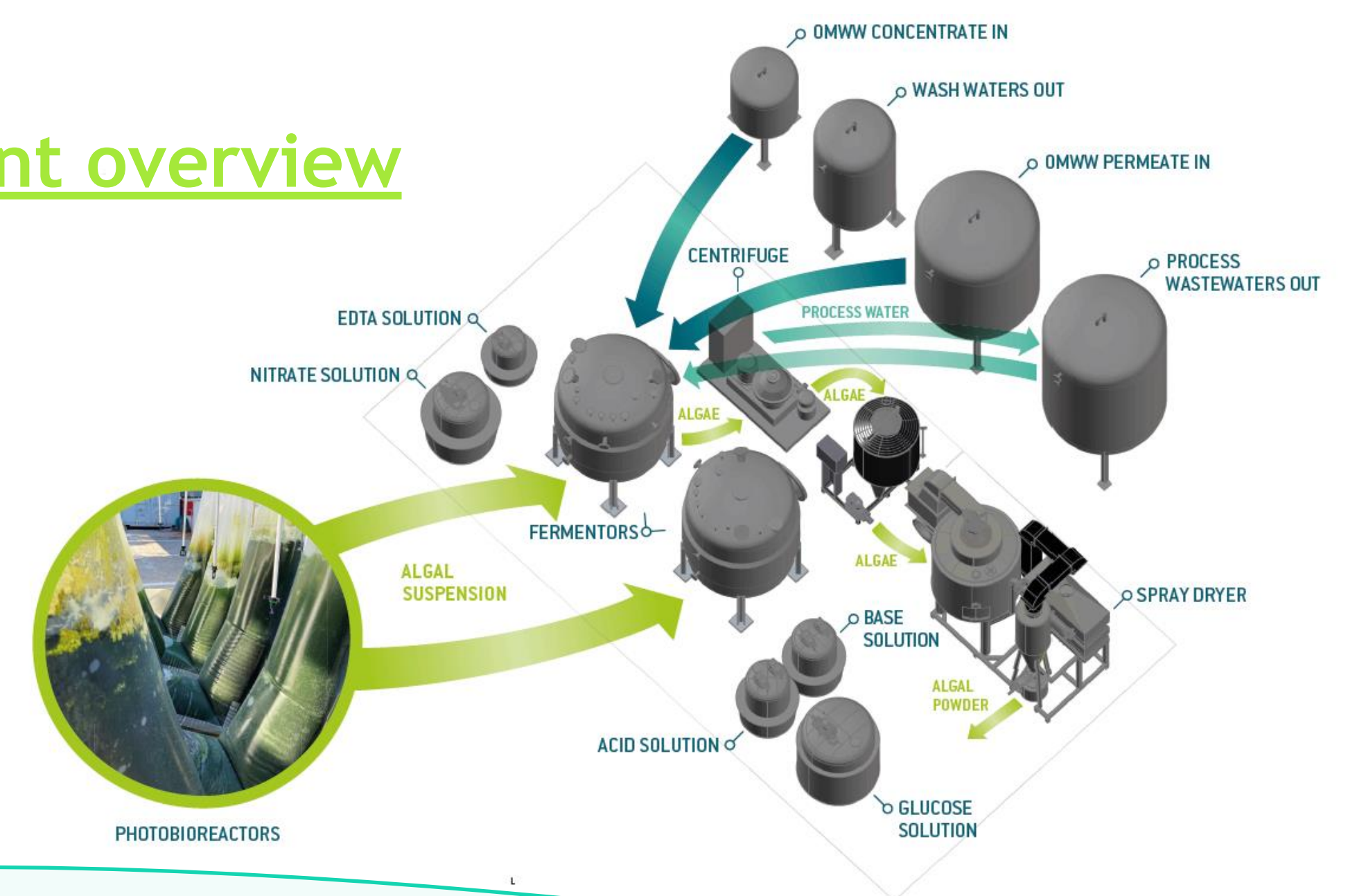
45 g/l



Glucose, nitrate & other

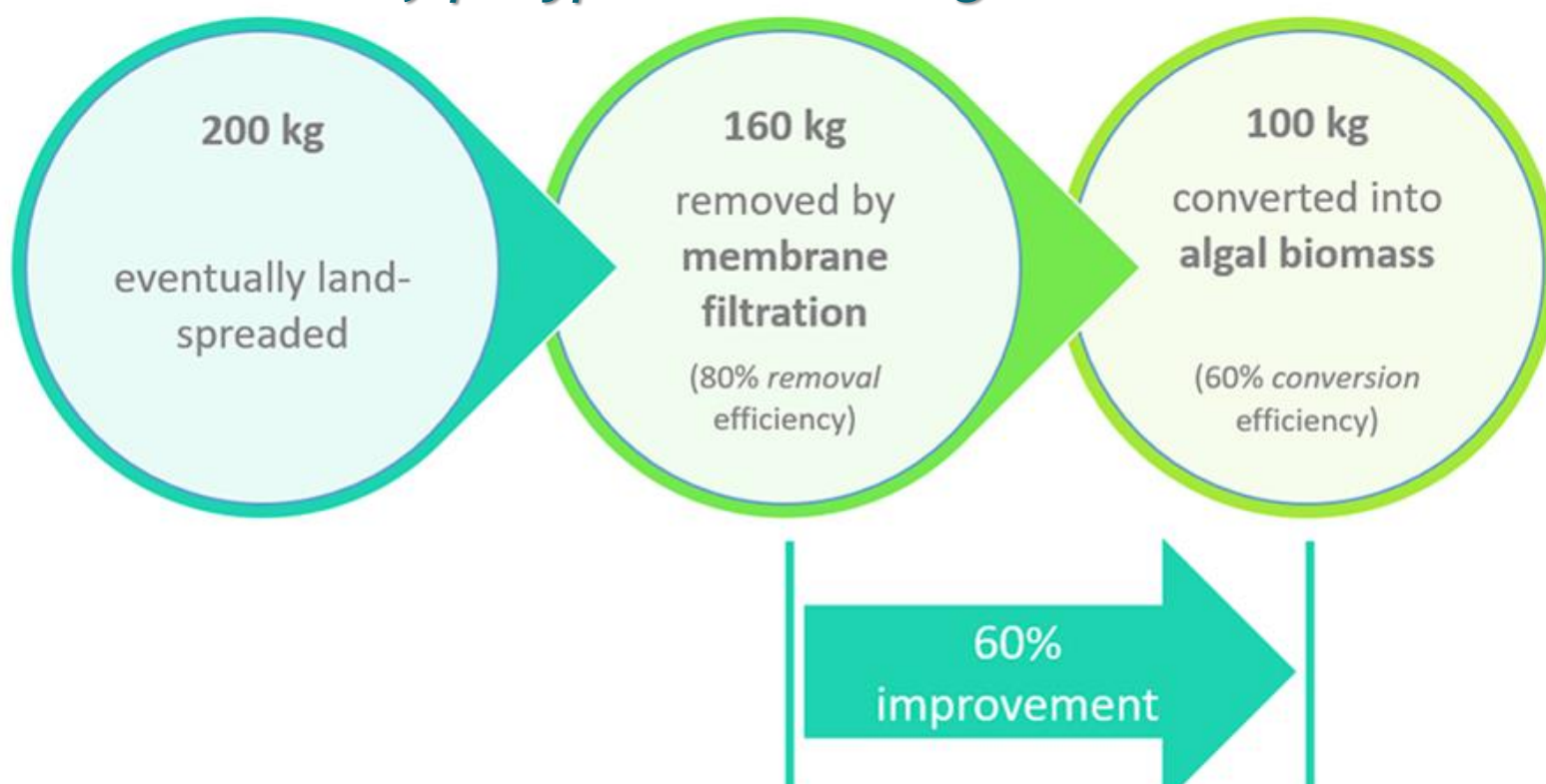


## Pilot Plant overview

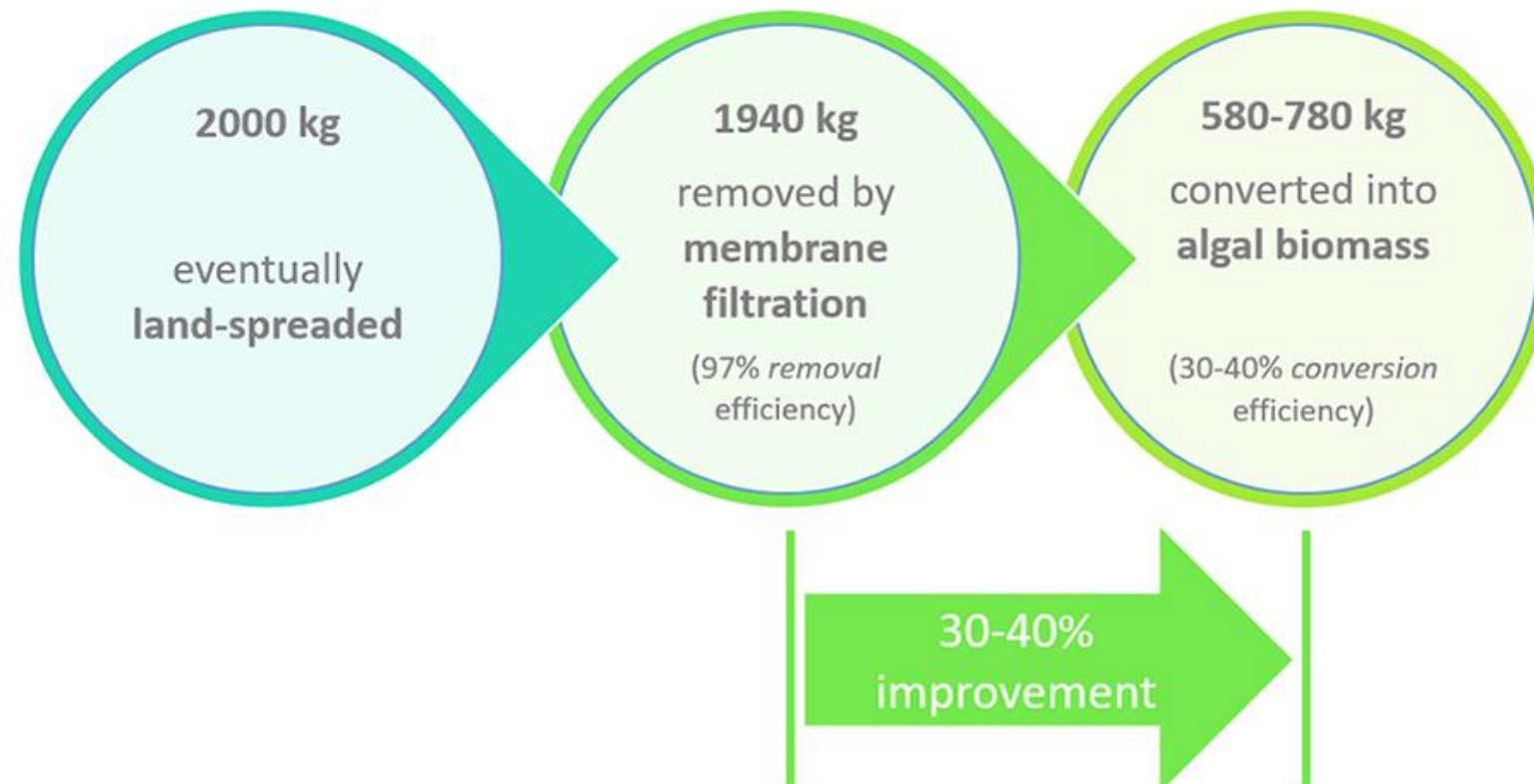


## Expected Impacts

### Abatement of polyphenols in vegetation waters



### Abatement of COD from vegetation waters



### Vegetation waters management

