

# W O T E R



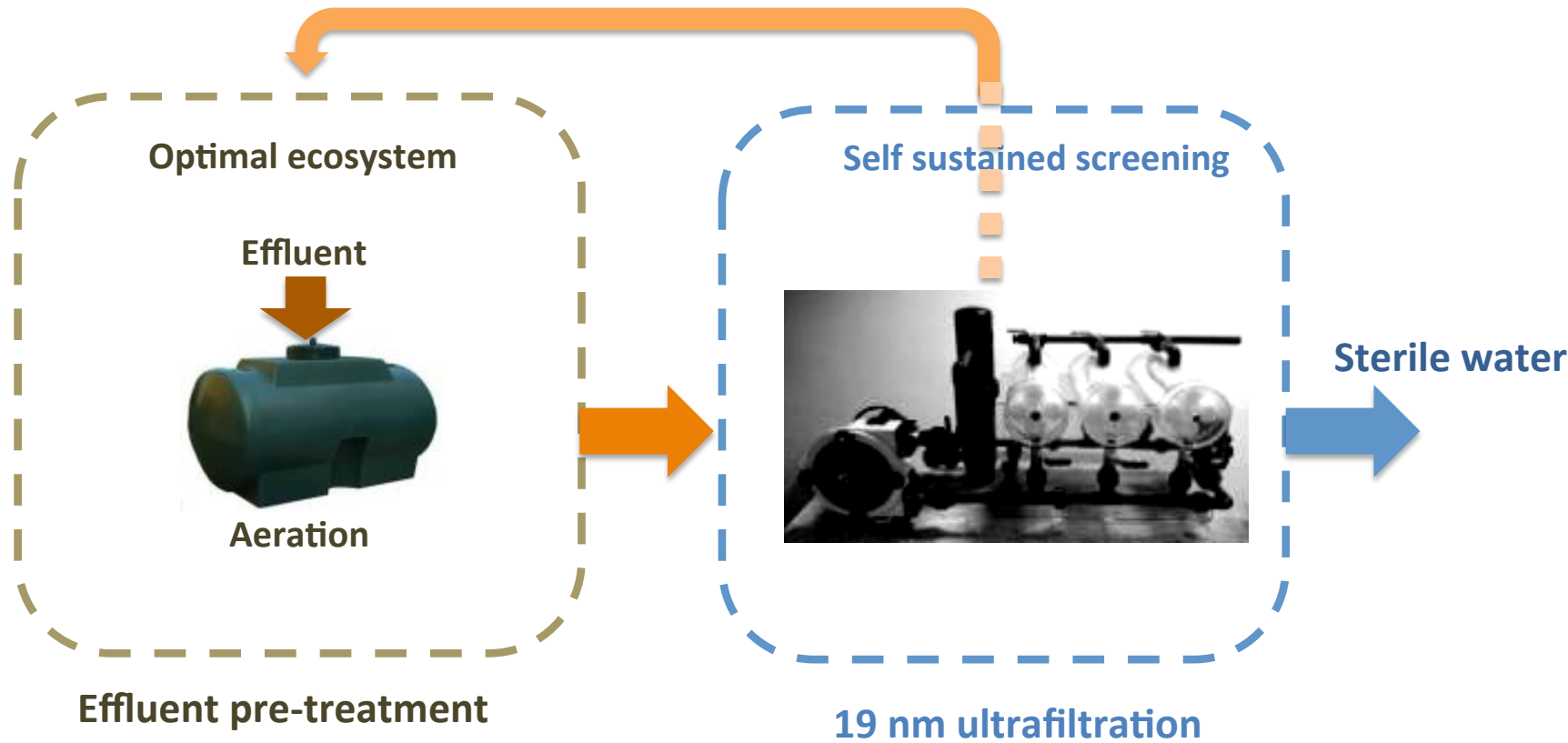
*Treatment and reUse of wastewaters*

*Ecological solution based on low consumption*

**Agriculture / Viticulture applications**

## Electronic piloting/drive

- Back to the tank and retro-washing
- Aeration cycles management / extraction
- Cloud communication





Pasture  
Farm breeding  
Agro-food  
industry

## Water treatment and re-use

- Toward water autonomy
- Crops irrigation even in water stress conditions
- Better output
- Washing
- Less use of detergents
- 0 environmental impact
- Economic savings

**Specific treatment  
of phytosanitary  
through progressive  
instillation**

**Necessity to adjust the system to the type of use and profession**

# Case of study: organic milk farm in semi-arid weather region

Farm of flavors

Nelly, Robin & Christophe Brodu



Pastures

Goats and sheeps



Milking process



Collecting water



The farm

Organic cheese





## Case of study: organic milk farm in semi-arid weather region

### The farm of flavors

200 ha of lands, 40 ha of groves

- Cereal culture
- Meadow
- Plantation of 80 trees for cultures' protection

#### Dairy production

60 goats, 110 sheeps (ewe)

#### Meat production

60 goalting, 12 lambs



1<sup>er</sup> regional price in Agro ecology

2<sup>e</sup> national price in Agro ecology

### Former systems of waste water treatment

- ✓ **Phytoremediation**
- ✓ **Reeds bed before release**  
(low achieving, non reusable water, reclaims landed property)
- ✓ **Softener at the entry of the cheese dairy combined with a UV treatment**  
(necessity to use chloride sodium)

# *Integral ecological virtuous approach With wOter®*

## Treatment phases of effluents

**Source :** dairy factory

**Effluent type :** animal excreta, urine, straw, fat, milk residue, washing canalizations

**Frequency :** 2 times/day 9:30am and 7:30pm

**Source :** cheese-making

**Effluent type:** objects cleaning, dirt during milk and dairy production

**Frequency :** 2 times/ day 12:00 am to 6pm

**Source :** dairy

**Effluent type:** cooling water from the yogurt maker. Low charged water

**Frequency :** 1 time/week

**Water treated: 3m<sup>3</sup>/day**

## *The farm of flavors and wOter*

- Pastures irrigation even in water stress periods
- All year long farm and dairy production
- Best economic output
- Less use of detergents
- water conveyance
- 0 environmental impact
- Money savings

**With a pure water no use of water softener nor chloride sodium**

**Necessity to adjust the system to the type of use and profession**

**The farm of flavors**



## Shared urban agriculture



**San Francisco :**  
**this « shared**  
**garden on the**  
**hillside »**  
**produced 11**  
**tons of fruits**  
**and vegetables**

**Mix of vegetables production, orchard, hives, wineries and wild areas production, sustained by a Californian weather that allows yearly growing. On spot products and offered on a free market.** Shared garden managed by the Association *Friends of Alemany Farm*.

**Objective: food safety improvement, promote education to the environment, to urban agriculture and sustainable development.**

*« Volunteers come to help making compost, weed out, amend, plant and collect salads, tomatoes, zucchini, green beans, etc.*

*It's important to remind the role of sharing that we play.*

**« What we collect today has been planted by strangers weeks ago and the result of our daily work will benefit to someone else later at this time of year. »**

*Statements collected by Mr Mondialisation's team / Alemany Farm / Basta Mag*

## *Exemplary cellar – a new approach*

*Save money with a key in hand solution*

Thanks to its international patent technology, wOter® offers a solution of a 100 % ecological effluents treatment, at low costs, allowing to respect regulation constrains while saving money in the installation as well as processing !

**This evolutive technology adjusts to the needs through 2 treatment phases and then allows to reuse treated water.**

In the presence of a washing station, a Phyto kit can be put in place in parallel of the treatment system.

Economic, compatible ENR, compact, lightweight, limited footprint, our solution doesn't request a dedicated crew.

Treat and reuse your  
wastewaters, at low  
costs and in  
accordance with  
existing regulations



# La cave exemplaire - Le process

## Phase 1: Cellar effluents preparation for bacteria/aeration degradation.

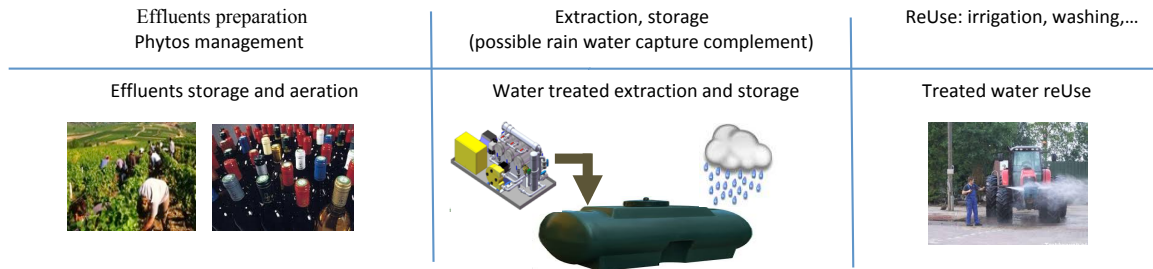
The effluents are stored in a specific wine harvest tank during bottling process

**Phyto Kit:** in case of effluents coming from a washing area, we recommend a specific treatment through our « Phyto Kit » : specific tank, progressive instillation in the effluent.

## Phase 2: Extraction – effluents filtration for release in the environment or secured storage for reuse

**REUSE:** paired up with storage, it allows a new approach of water treatment which lower the supplying and increase the use.

**Storage and aeration time and the filtration times are modular according to the use.**



## Stages:

1. Free diagnostic visit
  - . Water use
  - . Budget evaluation
2. Prior study\*
3. Realization
  - . Process optimization
  - . Cellar equipment
4. Installation certified by Cofrac certificated laboratory

\* 400 € without taxes refund if realization



## *Different treatment phases*

### *Harvest effluent*



**Effluents origin:** coming from the washing of wooden tubs, rammers and all the harvest instruments.

**Nature of the effluents:** sugars + organic particles  
=> Easily biodegradables

**Duration of pre-treatment in the tank before extraction :** 24 h

### *Cellar effluents*



**Effluents origin:** Coming from tank cleaning, barrels, ground...

**Nature of the effluents :** charged with yeast deposit + acid and/or soda + often presenting high temperatures (high pressure cleaning warm water).

=> hardly biodegradables

**Duration of pre-treatment in the tank before extraction :** 1 month

### *Phyto Kit*



**Effluents origin :** coming from cleaning of sprayers (washing area)

**Nature of the effluents :** charged with phytosanitary products  
=> hardly biodegradables

**Specific treatment and progressive instillation in main tank**

# WOTER

*wOter because the earth is thirsty for innovation!*

