

## Specific challenge

Innovative technologies that allow greater water reuse in the sanitation process of boxes and pallets

## Challenge type

Process

Technology

Business

Product

## Keywords

#Water#Reuse #Nourishment #Logistics #Agrifood#Circular economy #Sustainability

## Description

The challenge is to find an innovative solution that allows water to be reused more times in the sanitization process of Logifruit boxes and pallets. Ideally, beyond reuse, the technology should provide **a reduction in water and/or chemical consumption** during sanitization, keeping in mind the high standards of food safety.

## How could we

Nowadays a large part of the water is reused, but how could we reuse it more and better?:

1. The **pre-wash** allows the use of the final wash and rinse water, but it must be replaced every X turns.
2. In **washing and disinfection**, the water is mixed with chemicals that ensure the quality of the sanitization, then it is recirculated to the pre-wash.
3. In the **final rinse**, there is a constant consumption of mains water that is recirculated to the pre-wash.

## Specific restrictions or requirements

- **Hygiene:** You must maintain or improve current hygiene standards.
- **Safety:** You must ensure the safety of workers at all times.
- **Sustainability:** The solution must be sustainable and promote the efficient use of resources.
- **Efficiency:** The solution must achieve a significant reduction in the consumption of mains water and/or chemical product.
- **Compatibility:** The solution must be compatible with existing machinery or easily integrated, taking into account that there are different models.
- **Ease of use:** It should be easy to operate and maintain.
- **Scalability:** That the solution can be deployed at scale in the organization

## Profile of the collaborator we are looking for

We assess the proposal provided by the solver according to its degree of quality...

- Innovation
- Impact
- Feasibility
- Scalability

It is essential:

- That the solution is already tested
- Meet specific requirements

## Target indicators

KPI #1

Reduction of mains water consumption (50% or more)

KPI #2

More use cycles without substitutions (50% or more)

KPI #3

Escalabilidad (100%)