

# Health-care establishments



Export meeting – Deauville mai 2014

# STERILIZATION



For You and Planet Blue.



## 1 > Sterilization

- Autoclave
- Trolley-washing cubicle
- Endoscope washer
- Washer-disinfector

### > Objective

- To assess, control and monitor the conditions in which the sterilization procedure takes place, in particular the quality of the water, air and other fluids
- Sterilization = preparing recyclable sterile medical devices and ensuring they are treated after use

=> reuse.

## Regulation

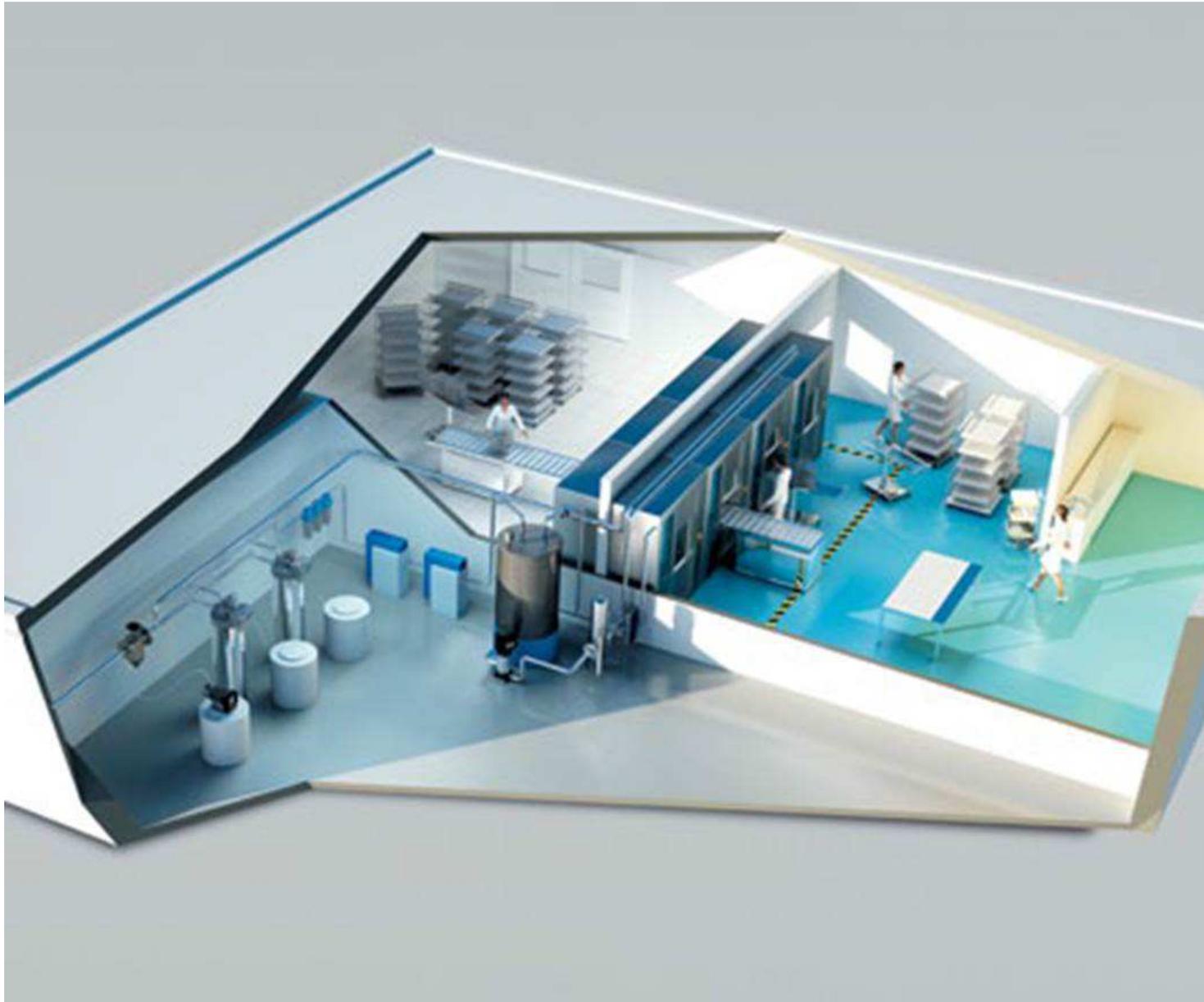
### Eaux techniques

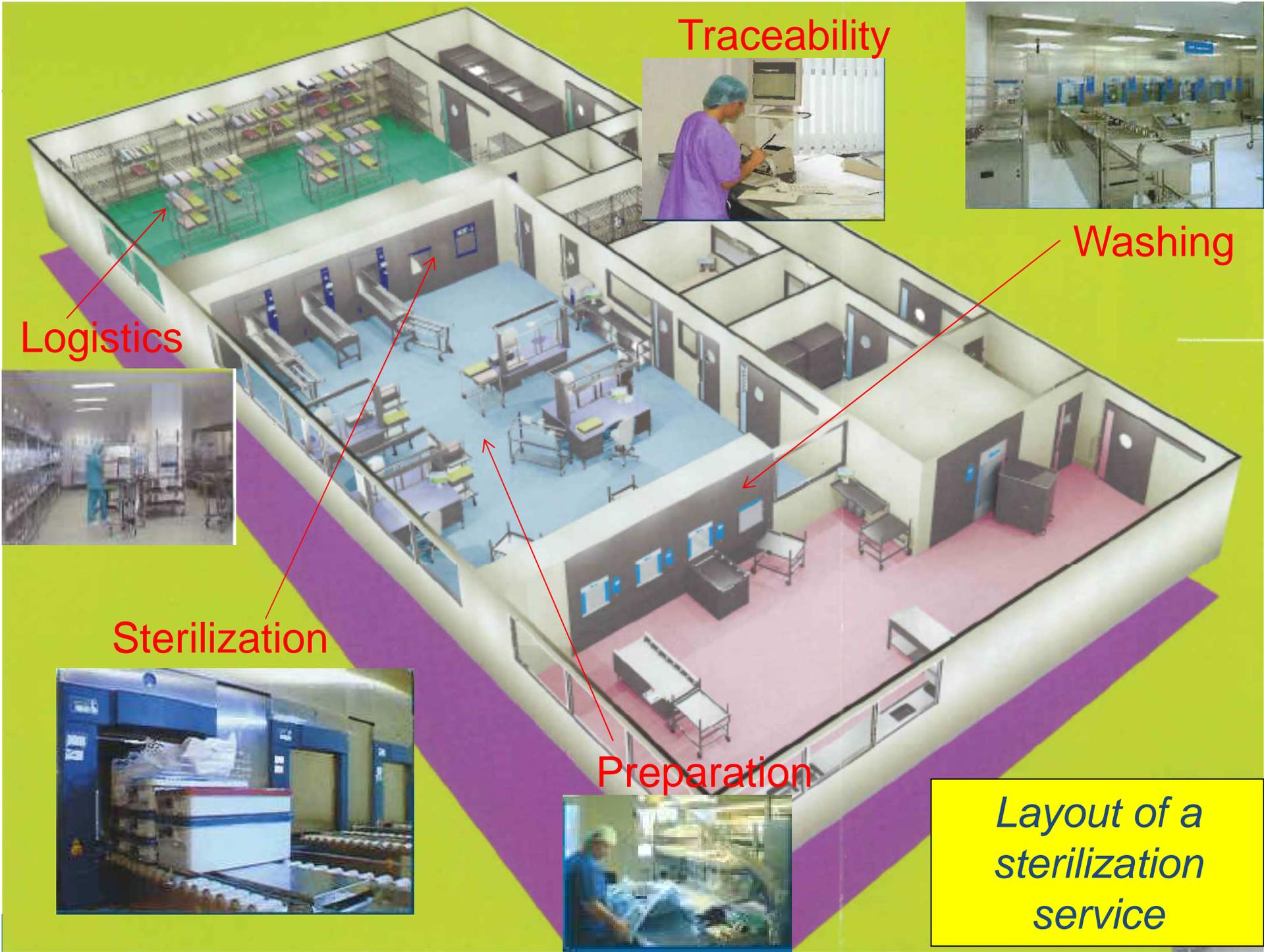
Pour de nombreux usages techniques, de l'eau de différents niveaux de qualité est nécessaire, en particulier pour la stérilisation, la buanderie, les réseaux d'eau de refroidissement, etc.

Comme ces eaux n'entrent pas directement au contact du patient, que les critères de leur qualité sont avant tout physico-chimiques et qu'un consensus ne semble pas exister concernant le niveau d'exigence entre les divers fabricants de matériel utilisant ces eaux, il n'est pas apparu possible de proposer des valeurs paramétriques.

# 1 > Sterilization

For You and Planet Blue.





Traceability



Logistics

Washing



Sterilization

Preparation



*Layout of a sterilization service*

## > Risks

- ❑ Wrong water quality => **indirect risk for the patient**
  - stages in the sterilization process
  - consequences for the instrumentation
    - ⇒ tasks=organic matter or high mineral concentration, water hardness or presence of metals (e.g. iron, lead or copper)
    - ⇒ deposits = silicates
    - ⇒ corrosion points = acid water (pH < 5) or high chloride concentration

## > Risks

- ❑ For **washer-disinfectors**
- ❑ washing and intermediate rinsing stages: mains drinking water or softened water (preferable if the water is too hard).
- ❑ final rinsing stage: softened water or preferably water purified by reverse osmosis, if the equipment is adapted and appropriate.
- ⇒ thermal disinfection stage:
  - water purified by reverse osmosis
- ❑ Supply to the **sterilizer** vacuum pumps may be softened water, semi-softened water or raw water.
- ❑ Supply to the steam generators: water (ideally softened) purified by reverse osmosis.



## Key contacts:

- ⇒ **Health-care establishments:**
  - ✓ technical and maintenance services
  - ✓ pharmacy
  - ✓ sterilization services
  
- ⇒ **Engineering firms**
  
- ⇒ **Installers**
  
- ⇒ **Manufacturers**
  
- ⇒ **Designers / operators (Stérence)**

# Installations





