



**SNS COLLEGE OF ALLIED HEALTH SCIENCES**

SNS Kalvi Nagar, Coimbatore - 35

Affiliated to Dr MGR Medical University, Chennai



**DEPARTMENT OF OPERATION THEATRE AND ANAESTHESIA  
TECHNOLOGY**

**COURSE NAME: STERILIZATION**

**TOPIC :- CSSD WORK FLOW**

**MRS.GAYATHIRI.K**

**Lecturer**

**OTAT**

**SNSCAHS**



## DEFINITION



It is a Service, with in the hospital, catering for the sterile supplies to all departments, both to specialized units, general wards and OPDs



# PACKING MATERIALS



## ❖ **Mission of CSSD**

- ❖ Timely delivery of sterile goods
- ❖ Quality
- ❖ Efficiency (line process)

## ❖ **Activities of the CSSD**

- ❖ Cleaning
- ❖ Disinfection of semi- / non critical items
- ❖ Sterilization of critical items (high risk for infection)
- ❖ Supply of sterile materials

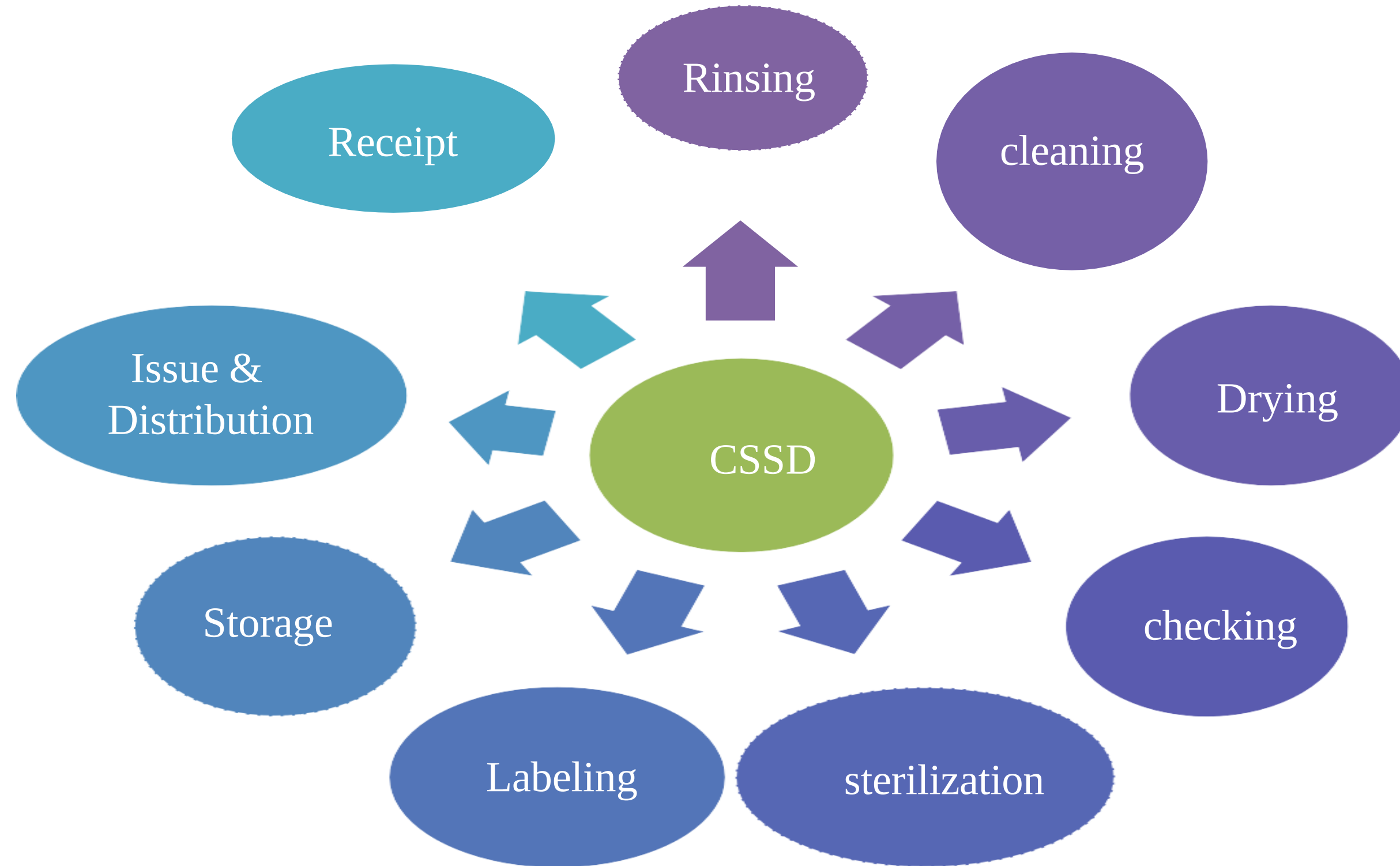


## OBJECTIVE AND FUNCTION

- Contributing to a reduction in the incidence of hospital infection.
- To avoid duplication of costly equipment.
- To maintain record of effectiveness of cleaning, disinfection and sterilization process.



# FUNCTIONS AND ACTIVITY





# FUNCTIONS OF CSSD

- Receiving and sorting soiled materials used in the hospital.
- Determining whether the item should be reused or discarded.
- Carry out the process of decontamination or disinfection prior to sterilization.
- Carry out specialized cleaning of equipments and supplies.
- Inspecting and testing instruments, equipments and linen.
- Assembling treatments trays, instrument sets, linen packs, etc.
- Packing all materials for sterilization.
- Sterilizing.
- Labeling and dating materials.
- Storing and controlling inventory.
- Issuing and distributing.



## DESING OF CSSD

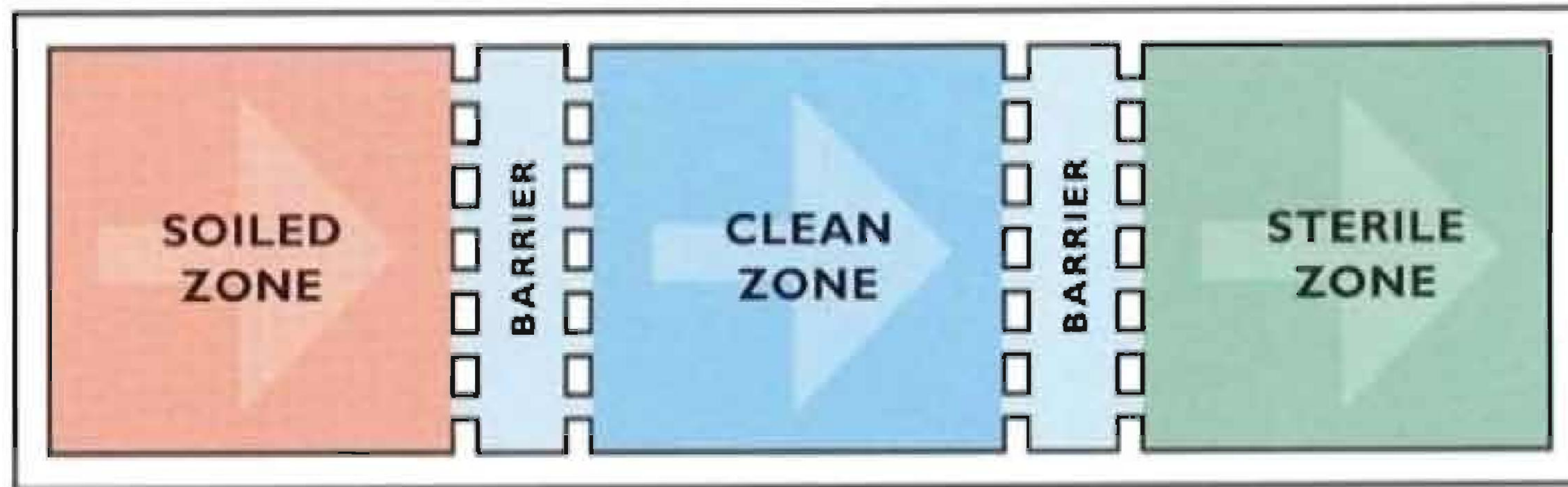
- Size and location of CSSD varies
- 7 to 10 square feet per bed is recommended
- It should be located as close as possible to Operation theatres,
- Accidents and Emergency department and wards
- The CSSD layout should be designed for a unidirectional flow

CSSD should have four zones for a smooth work flow:

- a. The unclean and washing area
- b. The assembly and packing area
- c. The sterilization area
- d. The sterile area

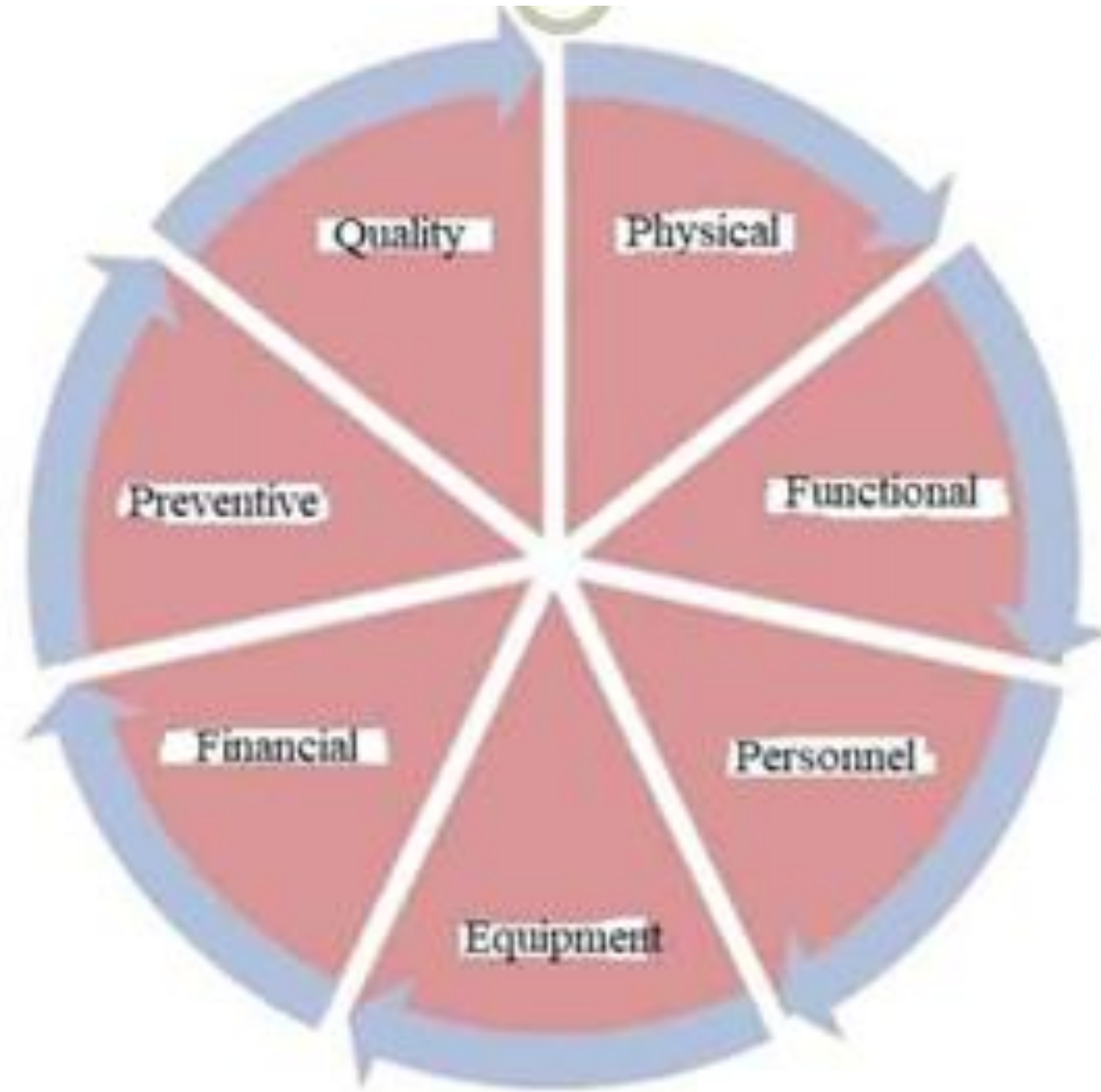


# GENERAL CSSD DESING CONCEPT

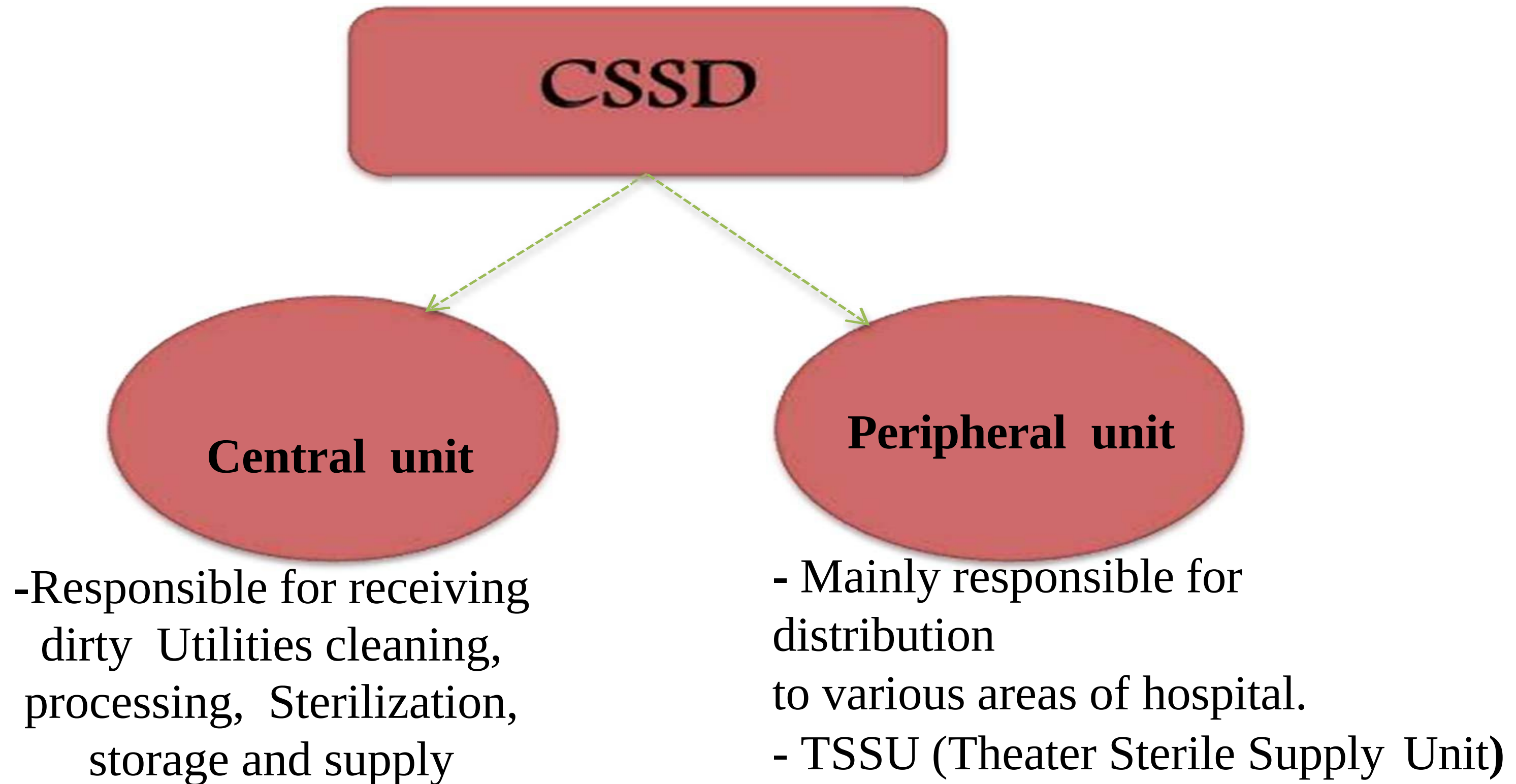




# PLANNING OF CSSD DEPARTMENT



# Methods of circulatory access





# PLANNING OF CSSD

- The materials/items from contaminated and sterile areas should not get mixed.
- There should be physical barrier between clean and dirty areas.
- The floor should be smooth, non skid & robust.
- Relative humidity should be maintained at  $45 \pm 5$  %
- The clean area should be maintained under positive pressure
- The minimum ventilation rate should be 6-10 airchange /hour
- The work area should be made up of granite/marble/stainless steel



- . The CSSD should be close to the casualty, Operation Theatre and wards which are the largest consumer Of the sterilized material.
- .In multistoried buildings,
- . CSSD may be planned in the lower floor right under
- . the Operation Theatre,
- . where vertical movement will be the quickest possible movement of the material.



# EQUIPMENT IN CSSD



- .Cleaning and decontamination devices
- .Hot air Oven for drying & heat sterilization
- .Glove processing unit for surgical gloves
- .Instrument sharper e.g.. Needle sharper
- .Testing apparatus for emergency sterilization
- .Others :- trolleys, work surface, telephones
- .Maintenance and repair of equipments
- .Material : chemicals for washing and cleaning

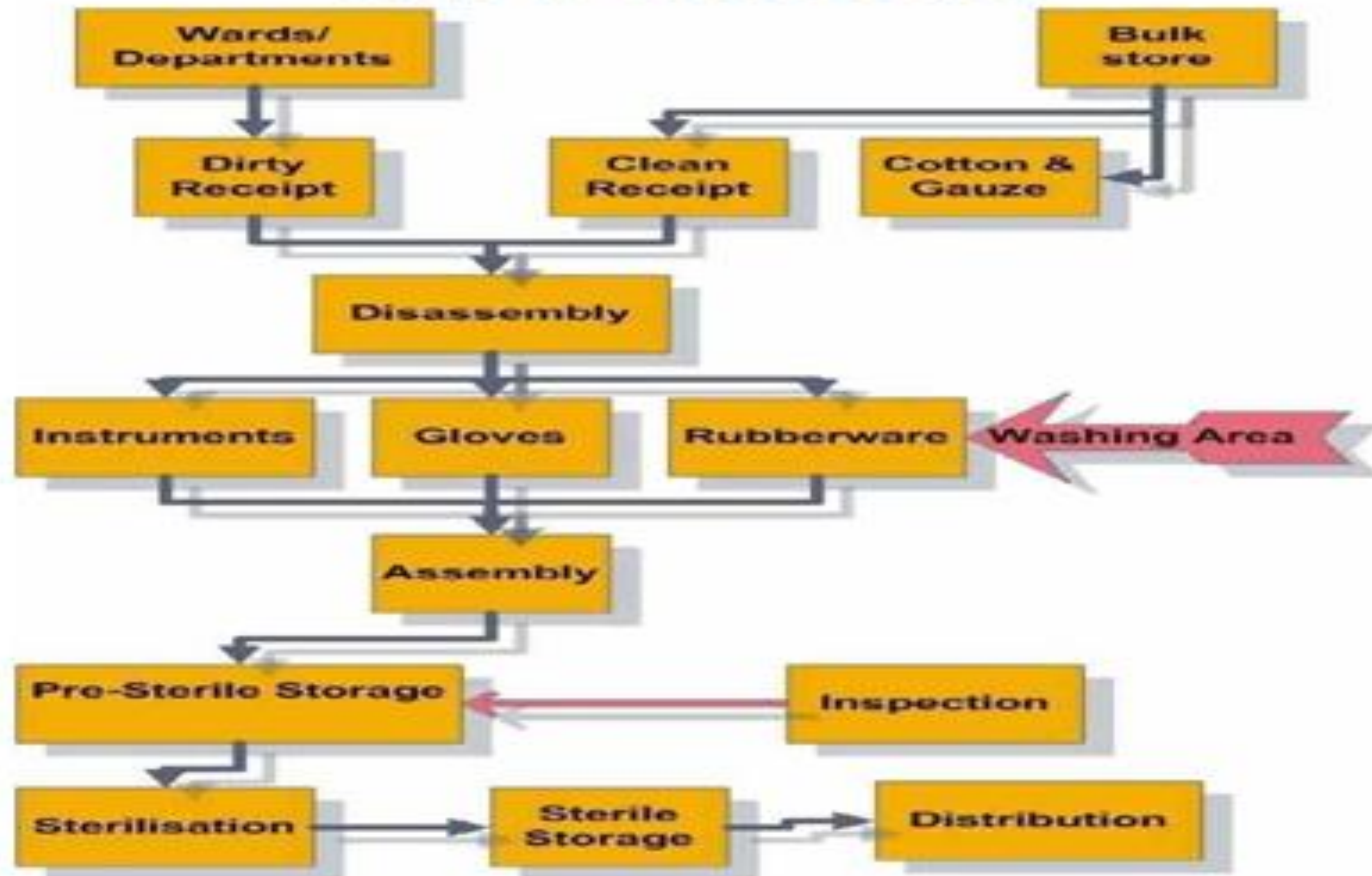


# EQUIPMENT IN CSSD



- Steam Boiler
- Hot air ovens for drying instruments
- Autoclaves using dry heat, moist heat.
- Ethylene oxide sterilizers.
- Testing material to check effectiveness of sterilization.
- Sealing machine
- Ultrasonic Washer

# FLOW PROCESS





# WORK FLOW



- **MAJOR ACTIVITIES IN A CSSD:**
  - ❖ **RECEIVING THE USED ITEMS FROM USER DEPARTMENTS**
  - ❖ **CLEANING**
  - ❖ **PACKING**
  - ❖ **STERILIZING**
  - ❖ **STORING (TEMPORARY)**
  - ❖ **DISTRIBUTING TO USER DEPARTMENTS**

# SWOT ANALYSIS





# PRODUCT ROTATION



FIFO - First /n-First Out  
Older packages should be used first.

## PRODUCT HANDLING

- ◆ Clean, Dry Hands

Handle gently

- ◆ Do not drop, crush, etc.

Keep Storage area clean and organized



- After sterilization the sterilized items are kept in different racks as per labeling.
- Supplied as per the demand of different area.
- To ensure continuous availability of sterile supply five times of daily requirement should be available in storage.



. **THANK YOU**