

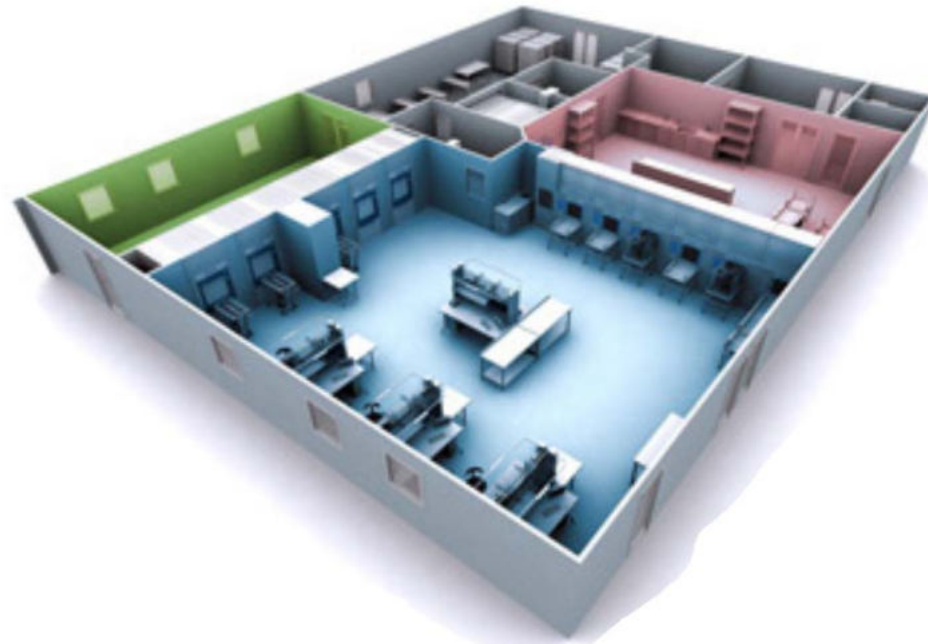
SKAT Technologies

One Stop Solution for Healthcare Needs

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Planning and Designing of a Modern CSSD





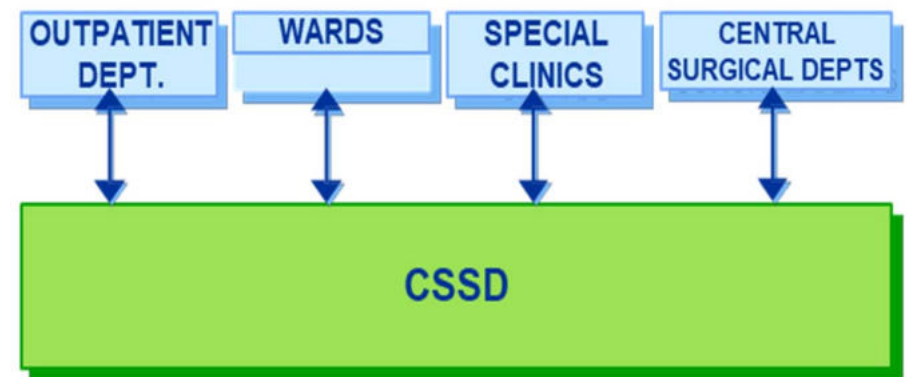
CSSD is production facility
(Manufacturing Plant) that produces Sterile
Materials required within the Healthcare Facility.



IMPORTANCE OF CSSD

The Objectives of CSSD is -

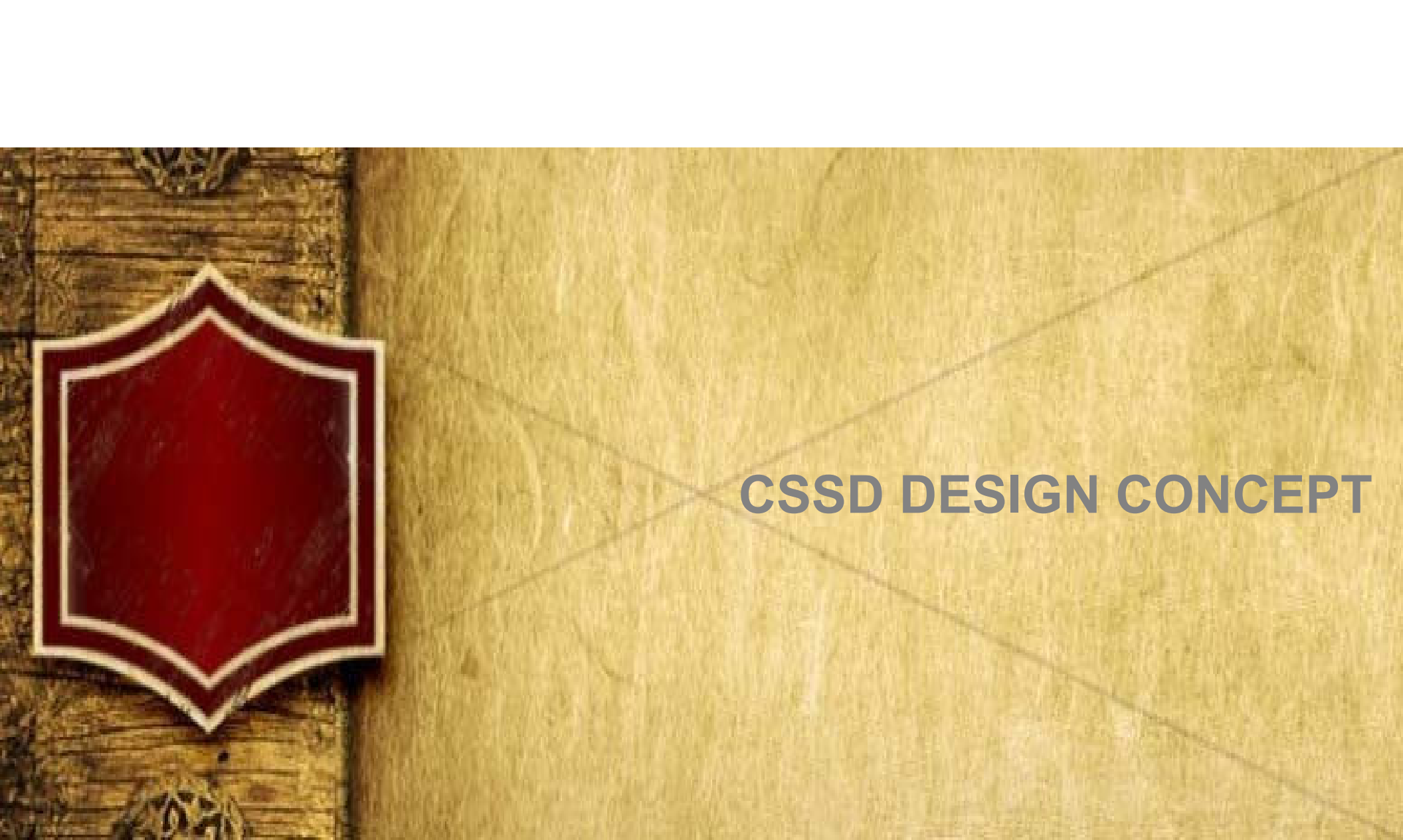
- To provide sterile supplies to end user.
- To maintain an adequate inventory of supplies.
- To establish and maintain sterile processing and distribution standards.
- To monitor and enforce controls necessary to prevent cross infection according to infection control policies.
- To provide consulting services to other departments in all areas of sterile processing and distribution, including in- service education programs and implementation of new processes.



CSSD is divided into five major functional areas:

Decontamination , Control and Packing, Sterilizing, Sterile storage, and Distribution.





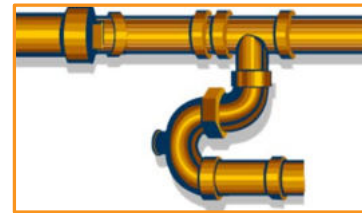
CSSD DESIGN CONCEPT

Workload Calculation

Data to make Workload Calculation

Number of:

- ✓ Operating Rooms with Specialty
 - In-patient surgery
 - Day-surgery
- ✓ Estimated Surgeries
- ✓ Hospital Beds: ICU/Ward Beds
- ✓ Working days / week
- ✓ Working hours / day



- Central Steam /Inbuilt Steam machines?
- Goods Carriers: Basket / Containers -Mixed?
- Disposable / Reusable Linen (surgeon & patient)?

Workflow: Identify the Needs

- Analyze **production statistics**: no of processes / Unit / day
- Plan for the **Future** – Expansion ?
- Required **Facilities in CSSD**:
 - Clean store
 - Linen inspection, folding & packing
 - Staff rest
 - Office
 - Staff change ...
- **Sterile store** at CSSD / user department ?
- Investigate available **locations**



Workflow: Identify the Needs

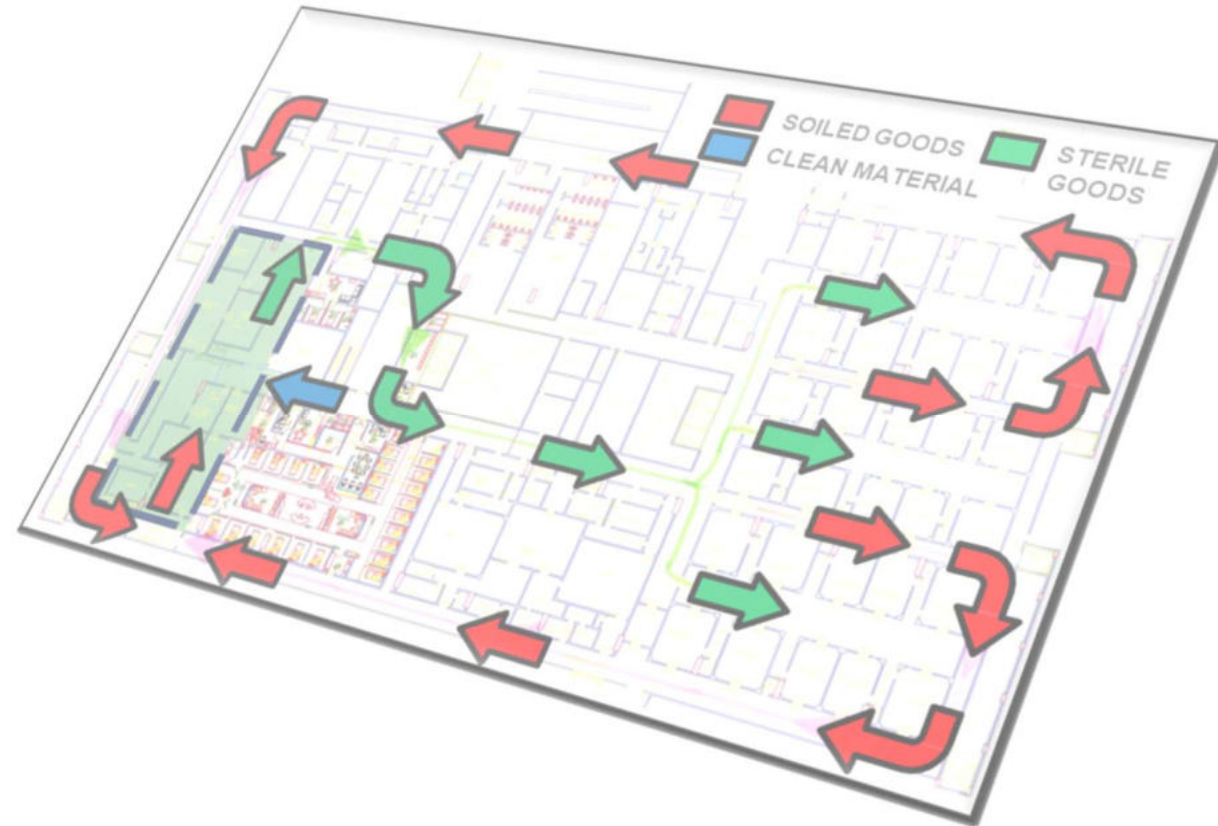
- What systems is / will be used?
 - Goods carrier
 - Distribution
 - ✓ Size
 - ✓ open / closed
- Disposable / reusable **Anesthesia**?
- Need **low temperature** Sterilization?
- Site Conditions & Intended Workflow

AutoCAD Drawing

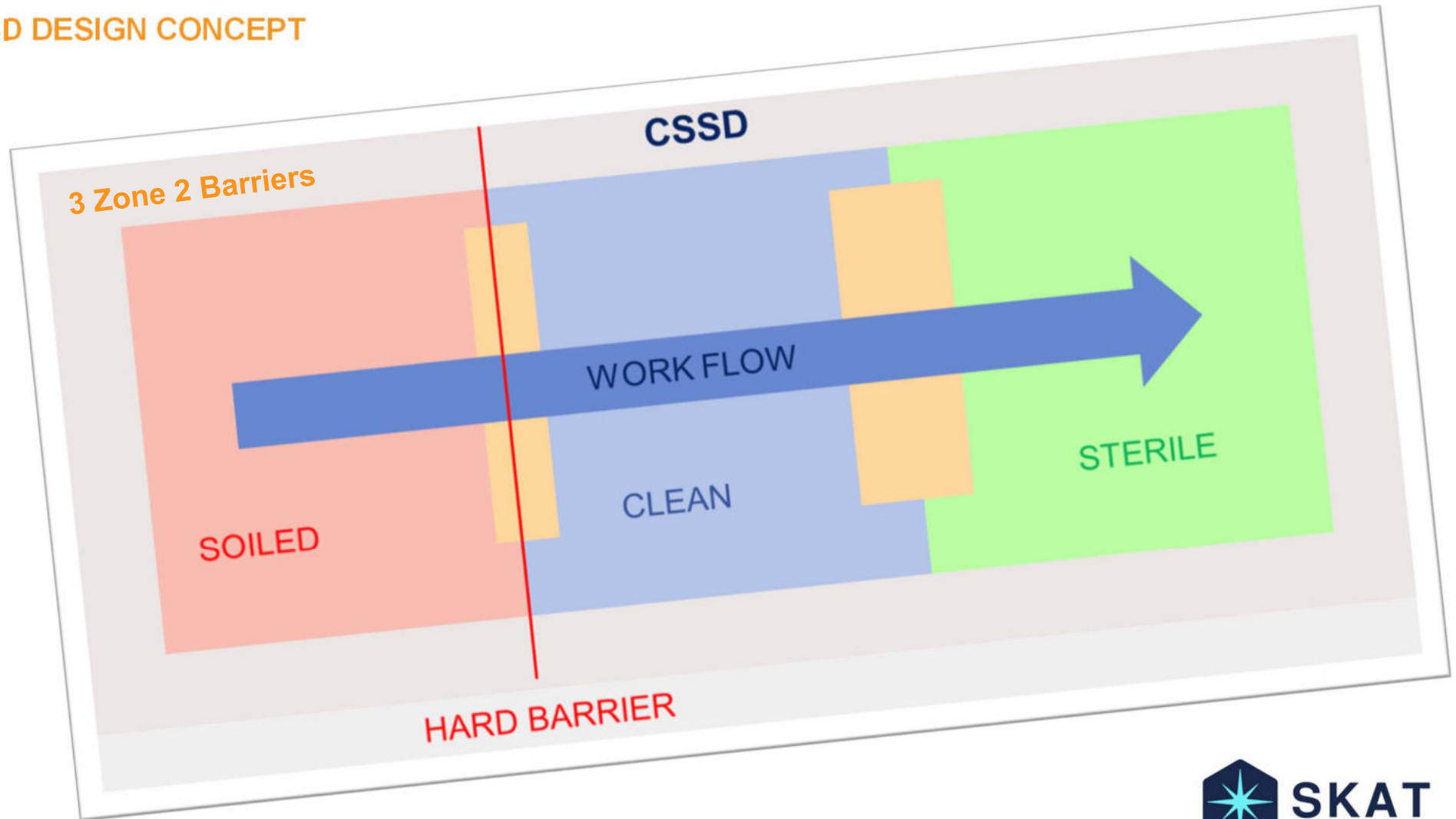


Site Conditions & Intended Workflow

- Area for CSSD
- Indicate entrance / exit:
 - ✓ Staff
 - ✓ Goods:
 - Soiled
 - Clean
 - Sterile
- **Elevator** connectivity to OR
 - ✓ Size & Type
(floor / dumb waiter)
- **Limitations in Structure:**
 - ✓ Columns
 - ✓ Shafts
 - ✓ Windows
 - ✓ Internal walls?
 - Completely free to change ?

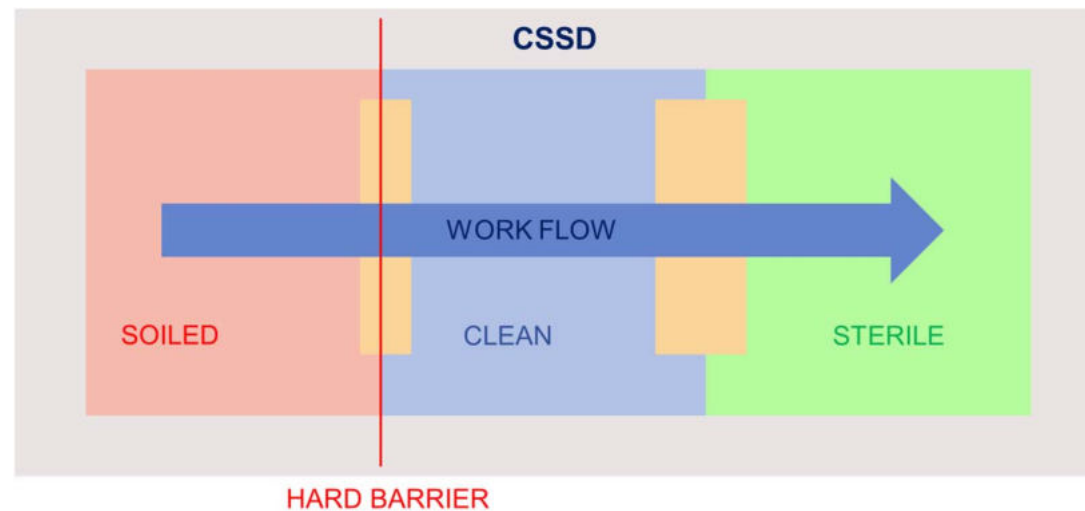


CSSD DESIGN CONCEPT



CSSD Design

3 Zones and 2 Barriers

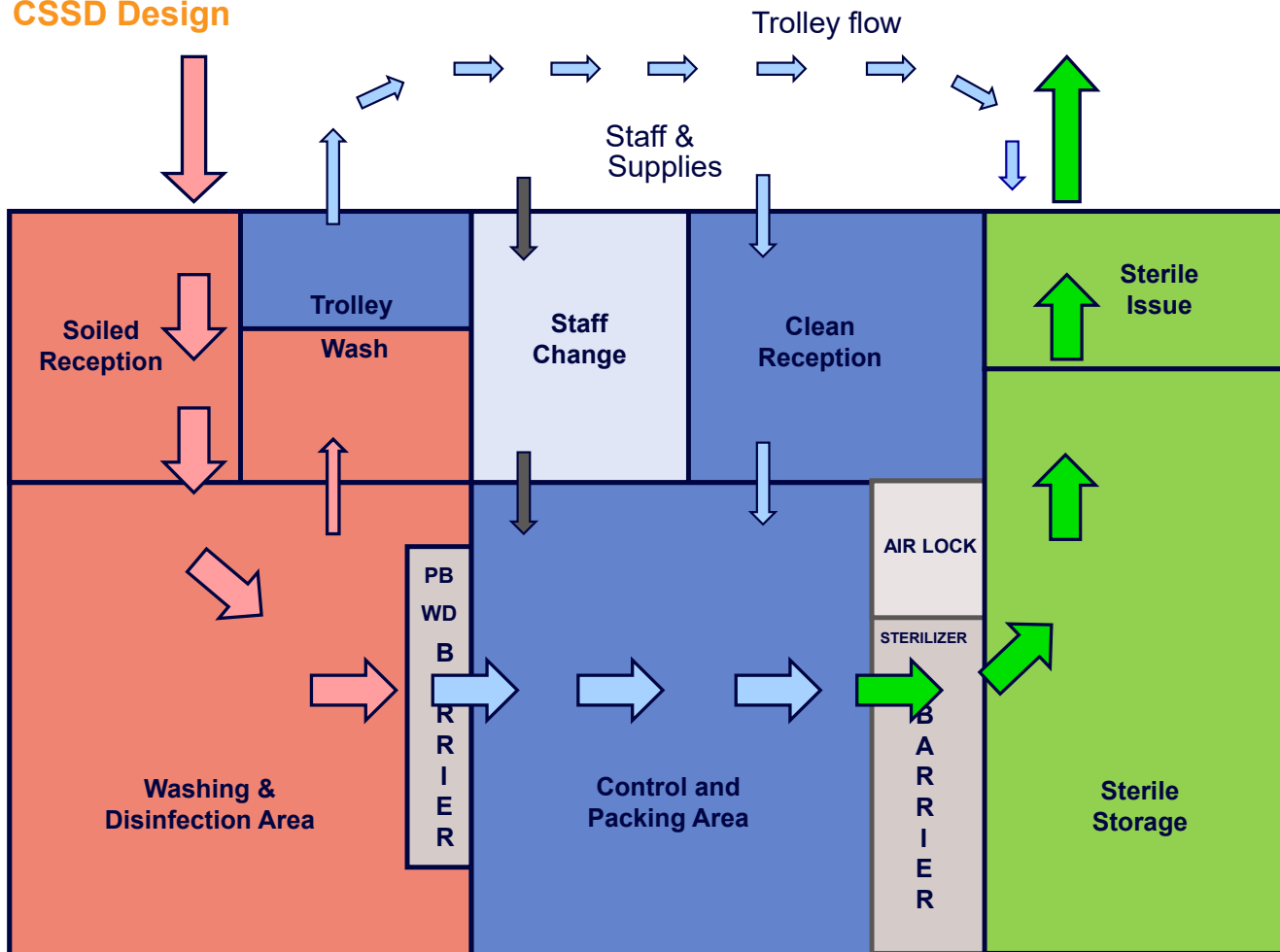


- Physical separation between soiled, clean and sterile zone
- The first barrier avoids cross-contamination of goods spread by staff
- The second barrier avoids mixing up clean and sterile goods

Controlled room ventilation has to be maintained :

- Soiled zone – negative pressure vs. adjoining areas
- Clean zone – positive pressure vs. soiled area
- Sterile zone – positive pressure

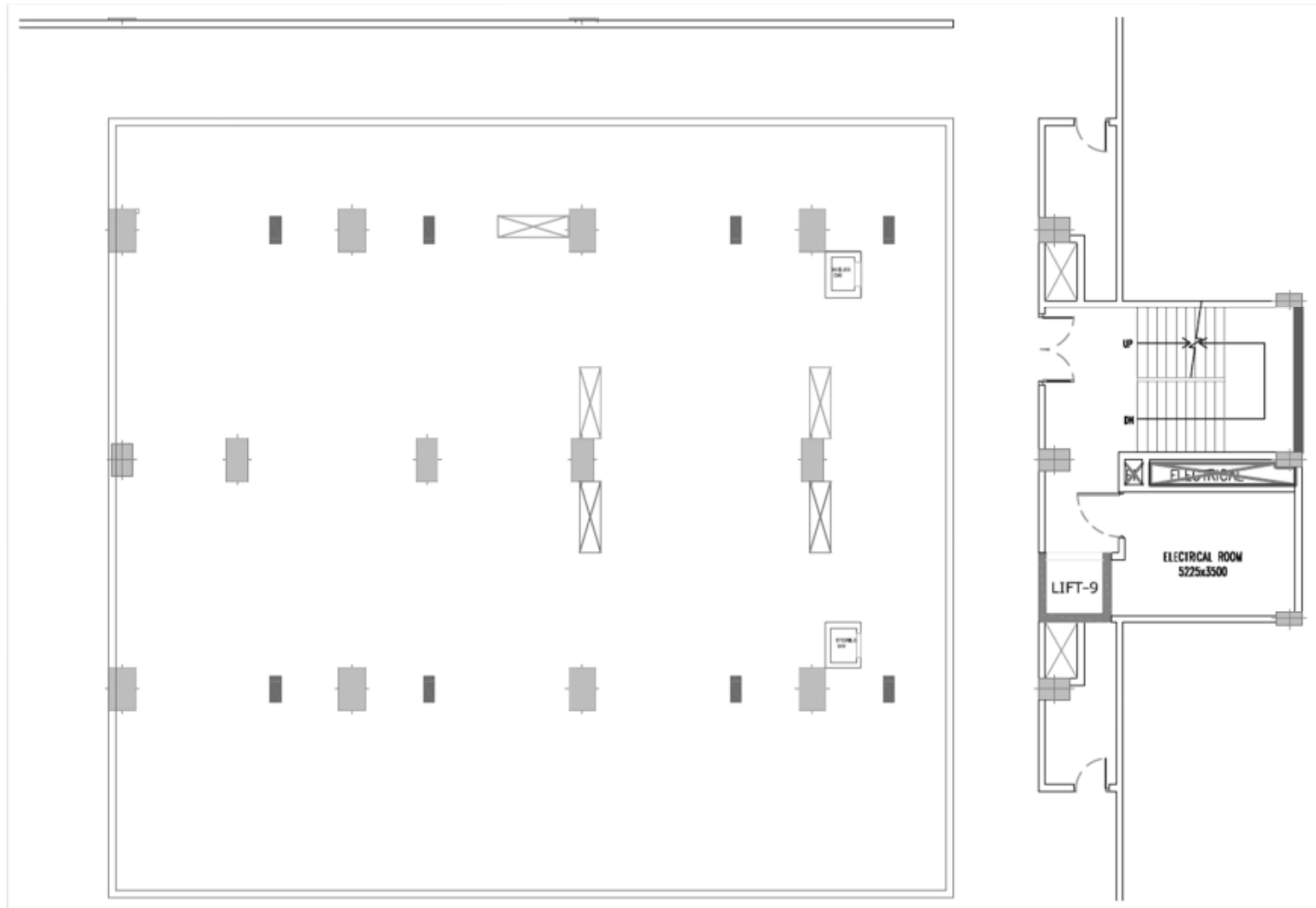
CSSD Design

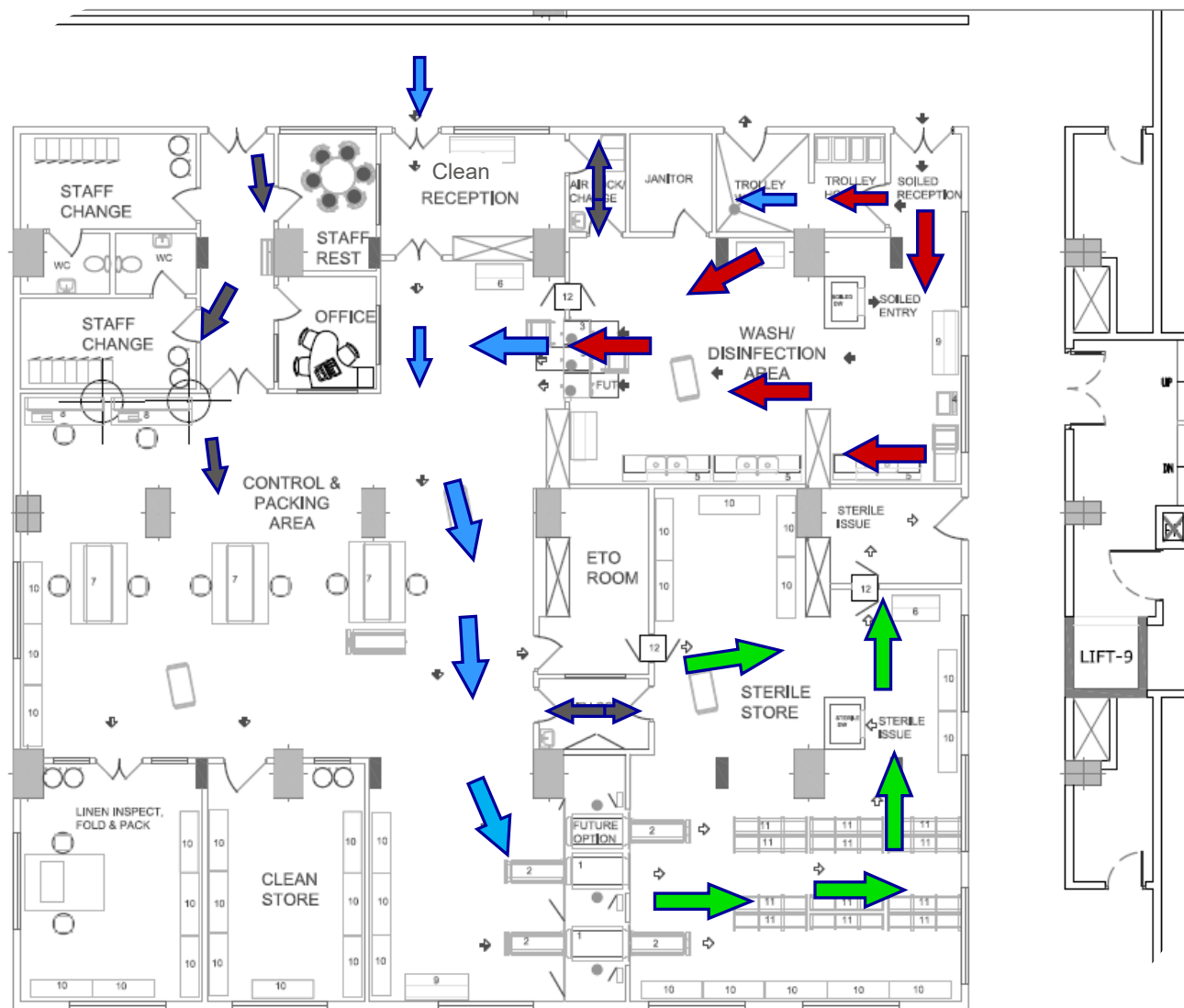


U-shape workflow

Goods flow





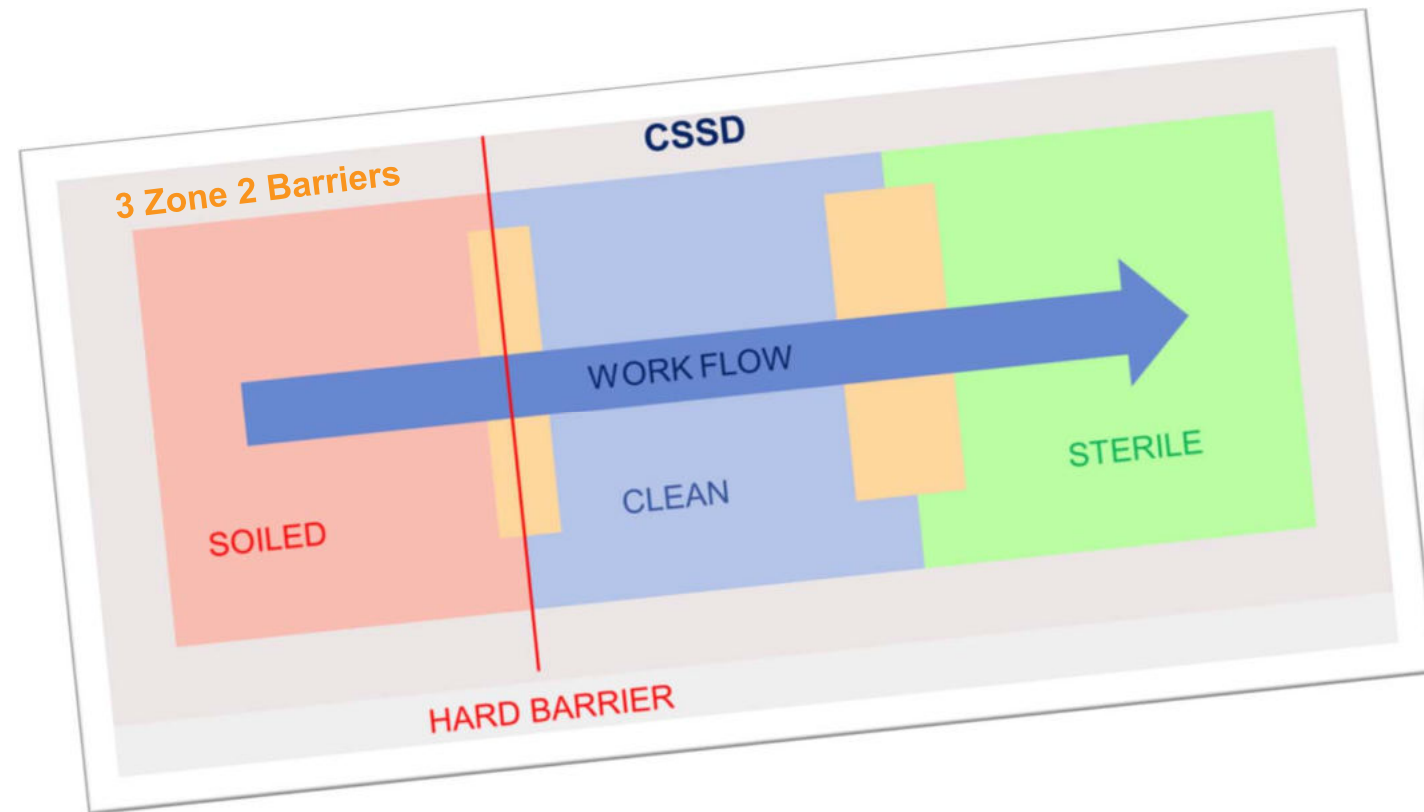


- Wherever possible try to locate the CSSD in a way that gives daylight to the main part of staff working here.

Goods flow



Summary



Thank you
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SKAT

PASSION FOR EXCELLENCE