

HEALTHCARE

CATALOGUE



TECASER SUPPORTING HOSPITAL OPERATIONS

From hospital logistics flow analysis to the
commissioning of automated solutions.

Analyze Material Flows

Care units, pharmacy,
laundry services, and clean
and soiled material flows.

Deploy Solutions

System sizing, equipment
coordination, supervision,
and maintenance.



OUR OBJECTIVE

“ Automate repetitive logistics tasks,
enabling healthcare teams to focus more
on their core responsibilities. ”

KEY CHALLENGES IN HOSPITAL LOGISTICS

Streamline logistics operations without disrupting patient care activities.

Clean and Soiled Flows

Separate material flows in accordance with hygiene protocols.

Traceability

Track transport missions and the loads being transported.

Service Continuity

Meet departmental schedules and operational priorities.

Healthcare Staff

Reduce manual handling and repetitive transport movements.



MATERIAL FLOW MAPPING



LOGISTICS FACILITIES

- Central Kitchen
- Central Pharmacy
- Laundry Services
- Sterilization Department

HOSPITAL DEPARTMENTS

- Care Units
- Clinical Departments
- Collection Areas
- Floor-Level Transfer Stations

AUTOMATED HOSPITAL LOGISTICS

Transport missions tailored to the operational requirements of each department.



MEALS



PHARMACY



STERILIZATION



LINEN



WASTE



MEALS

➔ Delivery of meal carts according to care unit schedules.

MEDICATIONS

➔ Secure and traceable transport from the pharmacy.

STERILIZATION

➔ Transport of sterile medical devices and devices requiring reprocessing through separate circuits.

LINEN

➔ Separate transport circuits for clean and soiled linen.

WASTE

➔ Collection and transport to designated areas in accordance with site-specific procedures.

ORGANIZING HOSPITAL TRANSPORT ROUNDS

Transport campaigns, time windows, and priority management.

1. Transport Scheduling:

Group transport missions for meals, linen, and waste.

2. Time Windows:

Schedule transport missions according to departmental time slots.

3. Supply Operations:

Supply hospital departments with consumables and equipment.

4. Collection Operations:

Collect soiled linen and waste along designated routes.

5. Priorities:

Adapt transport missions to urgent needs and peak activity periods.



MOBILE ROBOTICS FOR HOSPITALS

AGVs and AMRs automate load transportation within healthcare facilities.

AGV: AUTOMATED GUIDED VEHICLE

Automated transport along predefined routes.

AMR: AUTONOMOUS MOBILE ROBOT

Autonomous navigation and adaptation to the surrounding environment.

THE OBJECTIVE:

Automate repetitive logistics tasks while improving the efficiency of internal material flows.



HOSPITAL INFRASTRUCTURE INTEGRATION

Coordinate mobile robots with building infrastructure
and safety requirements.

**Floor-Level
Transfer Stations**

**Load pick-up and
drop-off.**

Freight Elevators

Vertical transport.



Automatic Doors

Access and passage management.

**Fire Safety Systems /
Fire Doors**

Safety scenarios.

**Conveyors /
Airlocks**

**Load transfers and
access management.**

**BMS — Building
Management System**

**Building management
and control.**



FROM ANALYSIS TO MAINTENANCE

A project approach based on the healthcare facility's
actual operational constraints.

01

Material Flow Analysis

Transport routes, throughput rates, and time windows.

02

System Sizing

Transport missions and required number of robots.

03

System Integration

Building infrastructure, hospital information systems,
and fire safety systems.

04

Commissioning

Testing, validation, and training.

05

Supervision

Mission monitoring and robot coordination.

06

Maintenance and Operations

System availability and operational monitoring.

LOGISTICS SUPPORTING PATIENT CARE

Benefits to be assessed according to the hospital's material flows and operational constraints.

MORE TIME FOR ESSENTIAL TASKS

Efficiency

Better-organized transport rounds.

Traceability

Tracking of transport missions and equipment.

Punctuality

Compliance with scheduled delivery time windows.

Safety

Reduced repetitive manual handling.



TECASER SARL
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+212 5 30 47 53 10



contact@teca-ser.com



www.teca-ser.com



15, Centre d'Affaires Hassan II
5th Floor, Office 7 – Kenitra
14000, Morocco

