

swisslog

Member of the KUKA Group

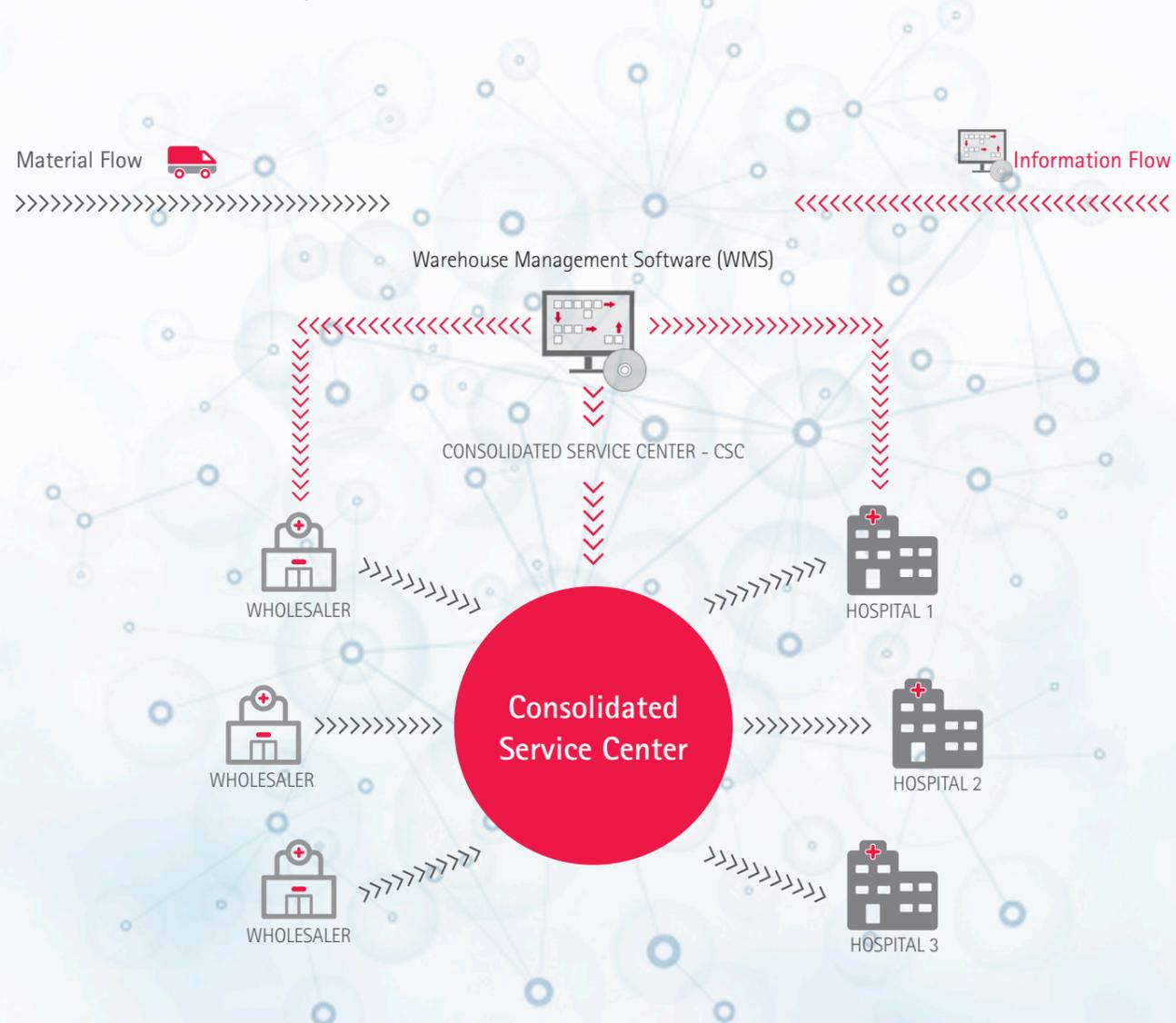
HEALTHCARE SOLUTIONS

**AUTOMATED SOLUTIONS FOR
CONSOLIDATED SERVICE
CENTERS**



CHANGE THE WAY YOU WORK THROUGH INTEGRATED AUTOMATION SOLUTIONS

“The AVEN warehouse is the largest, advanced healthcare logistics site in this country, (...) our goal is to build a network able of operating in a unified manner to ensure maximum quality and the best management of public resources via the highest levels of technology. Our motivation not only comes from economic considerations, but also from our desire to provide better services.”



Source: Visentini, Ilaria. "A Reggio Emilia nasce il magazzino hi-tech dei farmaci", Il Sole 24 Ore, November, 11 2013

IS THERE A NEED FOR A CHANGE?

Supply chain costs strain hospital budgets and boost inefficiencies. These costs include the true cost of procurement, inventory overhead, waste, storage space and utilities; as well as nursing and pharmacy staff time spent on supply-chain activities.

Manual processes create supply-chain inefficiencies, such as excess labor spend, mis-picks, purchasing errors, product shortages and expired inventory. Managing multiple locations can create waste through redundancies in labor and inventory, resulting in high overheads.

All of these factors impact not only the cost to care for patients but also the ability to respond effectively to their medication and medical supplies needs.



HOW CONSOLIDATED SERVICE CENTERS ENHANCE EFFICIENCY

A Consolidated Service Center (CSC) facilitates the aggregation of materials and services across multiple points of care for distribution from a central location. Consolidation enables system-wide visibility and standardization, thereby eliminating redundant inventory and processes. All this results in improved care coordination and clinical outcomes.

Cost reduction

- Lower purchasing costs due to economy of scale
- Reduce manual labor
- Reduce error rates
- Transportation savings
- Eliminate non-clinical supply management tasks for nursing and pharmacy

Improved visibility and control

- Reduce medication and supply waste through automated inventory management systems
- Improve traceability from the warehouse to patient administration
- Streamline the supply chain continuum across the hospital system

Storage Optimization

- Reduce redundant storage locations and lower inventory costs
- Lower immobilized costs
- Opportunity value of re-purposing space for better usage

Swisslog automated solutions streamline your supply-chain

RECEIVING

- Real-time inventory update via Warehouse Management System
- Improved control and traceability of incoming goods

CSC OPERATIONS

Storage

- A single source for storage of medication and medical supplies
- High-density automation enables space savings and security

Picking

- High throughput goods-to-person technology
- Software-assisted operations to reduce potential human error and improve picking efficiency

Unit Dose Packaging

Consolidation of services may extend beyond logistics activities to central packaging and distribution of unit doses to hospitals.

- Eliminates medication errors
- Reduces drug expenditures
- Improves pharmacy workload

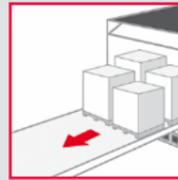
Medications are singularized and packaged into barcoded unit doses for total control of inventory and improved patient safety.

DELIVERY

- Traceability guaranteed up to point of care
- Ensures the right item is delivered to the right place at the right time

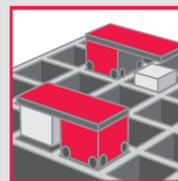
RECEIVING

Goods receiving

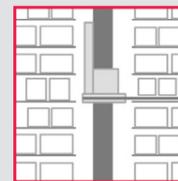


CSC OPERATIONS

Storage & Picking



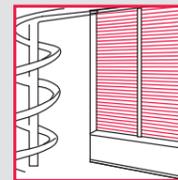
AutoStore®
Automated Central
Supply System



Miniload System

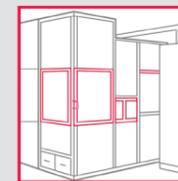


Vertical Storage
System



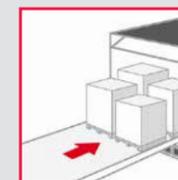
UniPick™ 2
Automated Pack
Dispensing System

Unit Dose Packaging



PillPick®
Automated Packaging
and Dispensing System

Shipping



THE SWISSLOG ADVANTAGE:

Custom Solutions for Seamless Integration

When considering ways to optimize your hospital supply chain, it can be difficult to identify which projects will deliver the largest return.

With multiple companies all offering the same benefits of cost reduction, improved efficiency and patient safety, your vendor of choice has to bring something more to the table.

At Swisslog, every project begins with a full current-state analysis that will inform the development of your custom solution. In addition to hardware and software, we are master integrators - seamlessly connecting our solutions to your existing information systems.

Swisslog provides fully integrated solutions for efficient workflows and an improved patient experience.

Swisslog delivers decades of healthcare experience in material handling, medication management, and warehousing to solve the problems of security and transparency in healthcare delivery.

Swisslog delivers the hardware and software that enable integrated Chain-of-Custody and workflow solutions throughout the hospital.

TAILORED SOLUTIONS AT A GLANCE

A complete suite of technologies supporting different processes within your CSC

AUTOSTORE® AUTOMATED CENTRAL SUPPLY SYSTEM

The AutoStore quickly processes small parts orders and single-item picking. Robots collect the required bins and present them to the integrated picking stations – increasing efficiency and maximizing space utilization.

With its high storage capacity and fast operability, AutoStore is the ideal solution for managing a large variety of goods in a Consolidated Service Center.

- Provides better use of the available space than any other automated system, decreasing inventory storage footprint by an average of 60%¹
- Easy to integrate into existing buildings
- Fully automates bin storage, retrieval and delivery, increasing picking speed by up to 50%²
- Future-proof through scalability of strictly modular design
- Delivers a 90% improvement in picking error rates versus non-automated distribution centers³
- Efficient processing at integrated goods-to-person workstations



¹ http://www.mwpl.com/html/swisslog_autostore_review.html
² <http://autostoresystem.com/theystem#benefits>
³ <http://swisslog.com/en/Products/HCS/Automated-Material-Transport/AutoStore-Automated-Central-Supply-System>

MINILOAD SYSTEM



Fast, efficient and reliable, miniload system combines lightweight and robust design for the storage of light goods.

With its modern control technology, high throughput and lightweight design, Miniload is the ideal solution to streamline picking and dispensing operations in a centralized facility.

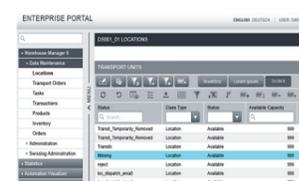
CONVEYOR SYSTEM



Conveyor system transports bins containing items retrieved from automated warehouses to the picking area.

Flexible and modular conveyors optimize and speed up the materials in/out flow in a Consolidated Service Center.

WAREHOUSE MANAGEMENT SOFTWARE (WMS)



WMS offers comprehensive functionality with simple, user-friendly interfaces for automated warehouse management and control.

WMS defines how Swisslog systems integrate people, processes and technology into an overall solution to provide maximum value for hospitals.

VERTICAL STORAGE SYSTEMS



Automatic vertical storage systems that enables intensive and secured storage, ergonomic retrieval and efficient management of stored items.

The vertical storage systems optimize space and streamline picking operations thanks to a goods-to-man concept.

CARRYPICK



Extremely flexible and modular, CarryPick offers a new approach to picking. It supports storage of items in its mobile goods carriers.

Robot vehicles lift and transport shelving on an optimized route to workstations. At each ergonomic workstation, customer-specific processes are integrated using both pick-by-light and put-to-light techniques. Users enjoy increased

AUTOMATED MEDICATION MANAGEMENT SYSTEMS



Swisslog offers a complete suite of innovative solutions that resolve medications storage and dispensing concerns of health systems.

PillPick®, UniPick™ 2 and BoxPicker™ are automated medication management systems that may dispense either patient-specific unit dose therapies or medications in original package.

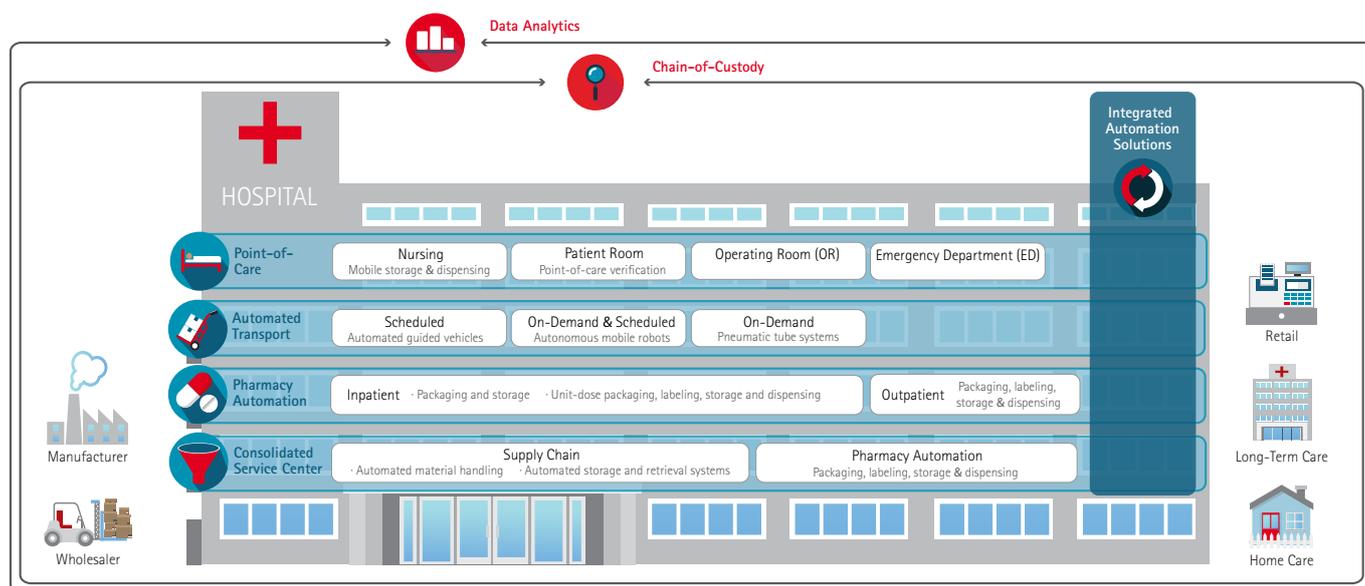
Integrated solutions to streamline daily operations for enhanced cost efficiency and patient safety.

SWISSLOG DELIVERS BEST-IN-CLASS AUTOMATION SOLUTIONS THAT INCREASE EFFICIENCY AND ENHANCE THE PATIENT EXPERIENCE IN FORWARD-THINKING HEALTH SYSTEMS

Swisslog has installed automation systems in more than 3000 hospitals and 1000 industry sites worldwide. The synergy of our industrial expertise and our focus on healthcare processes has brought us to the forefront in delivering best-in-class solutions to secure the chain of custody in health care.

Swisslog Healthcare Solutions offers total system design, manufacturing, installation and customer support – providing an integrated solution for lean workflow and operations that enhances information access, patient safety and cost efficiency.

CHAIN-OF-CUSTODY IN HEALTHCARE



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