ICTGROUP
SOFTWARE | TECHNOLOGY | INNOVATION

STERILIZATION MANAGEMENT
TRACEABILITY SYSTEM SURGICAL INSTRUMENTS

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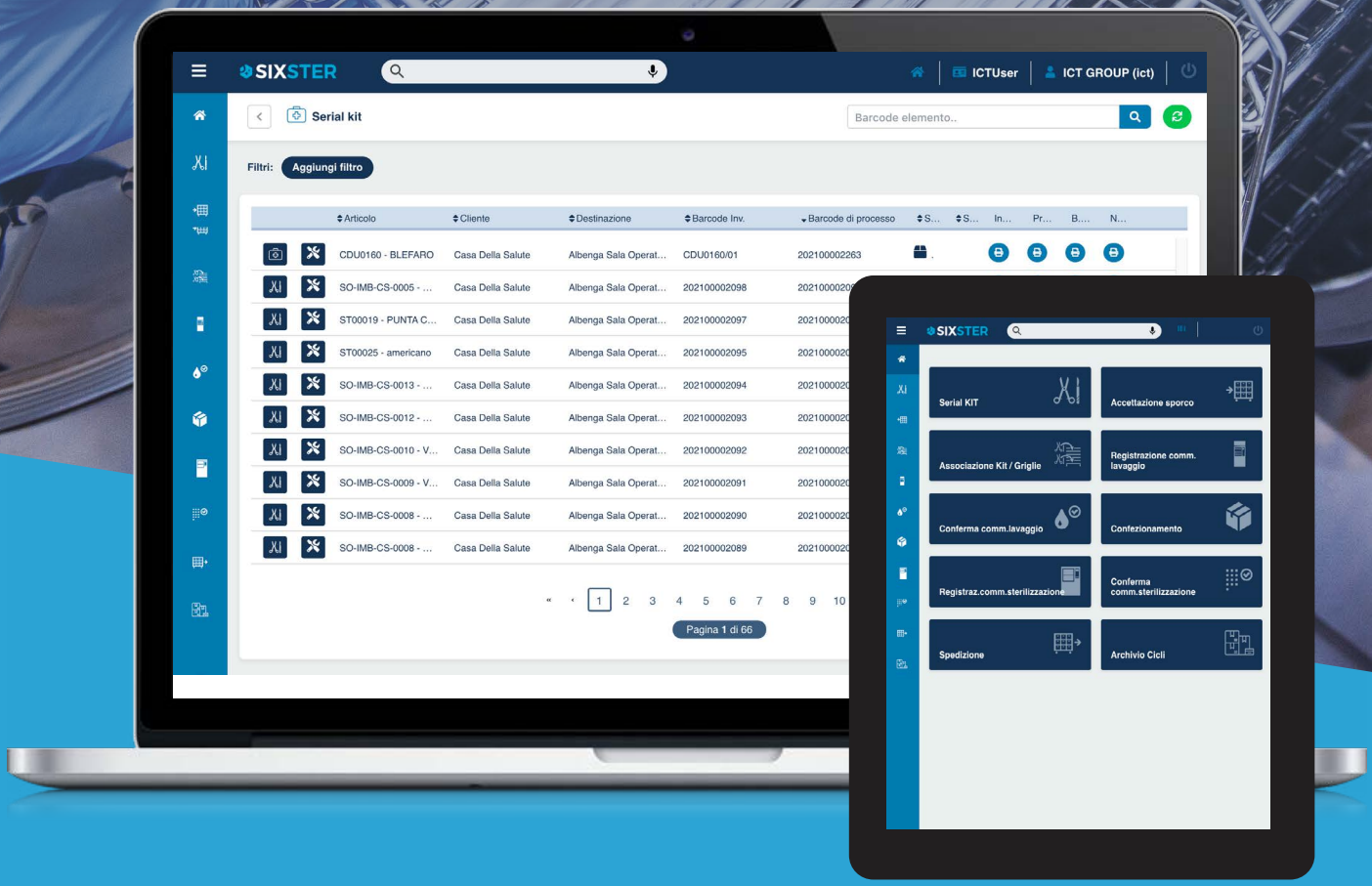
SIXSTER
STERILIZATION MANAGEMENT
AND TRACEABILITY SYSTEM

SIXSTER SOFTWARE



SIXSTER is a complete software application designed to trace surgical instruments in central sterile service departments (CSSDs). The software architecture is based on different check-points that every instrument/tray has to succeed in order to be processed by the CSSD and move to the next area/department.

WEB BASED

MODULAR

INTEGRATION READY

MULTI LANGUAGE

STRONG POINTS

WEB INTERFACE – CLOUD READY

Users can log into the system using a standard browser from any workstation within the corporate intranet or using the Internet if they are outside of the hospital. No client installation required.

AGILE

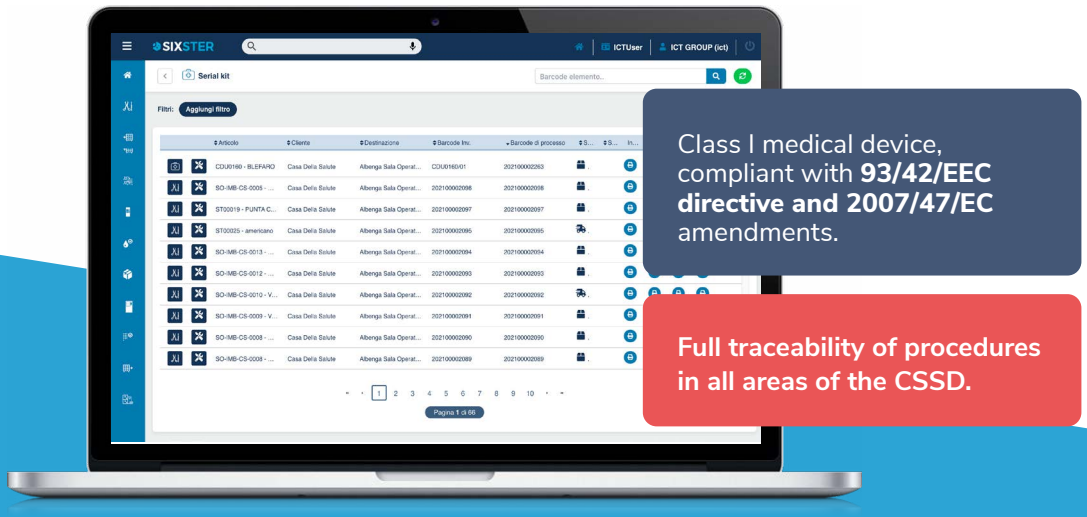
Designed and developed with modular technology, it allows you to support the company's growth by aligning with new business ideas.

PARAMETERIZABLE

The system can be completely parameterized and configured by the company using access policies that allow operators to display only information in their area of competence.

USER FRIENDLY

Guided procedures and simple user interface (designed for touch screen monitor).



MODULAR

Starting with basic features, **SIXSTER** can be implemented in time with additional modules according to the specific needs of the CSSD.

INTEGRATION READY

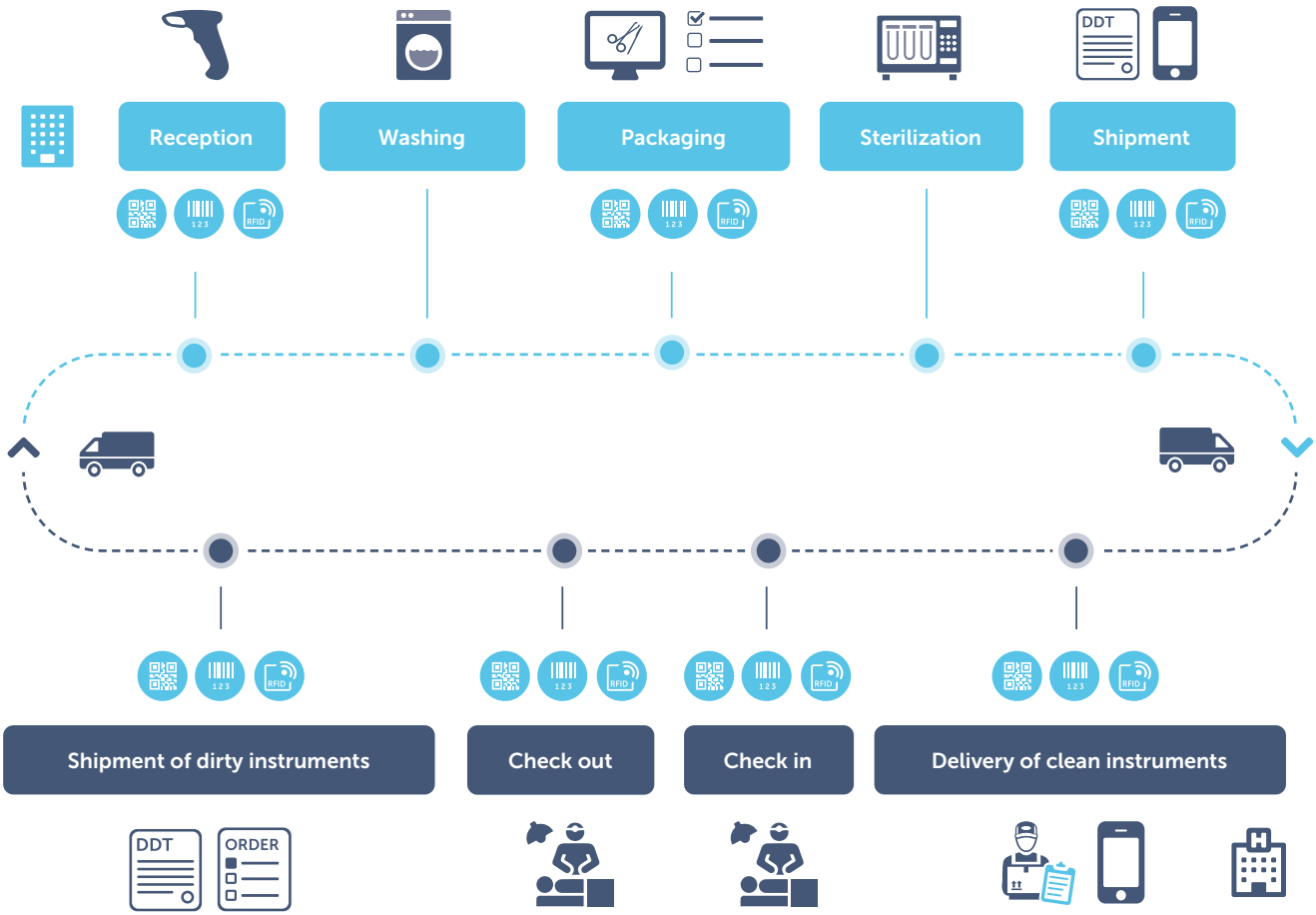
Integration with the different equipments used in the CSSD and collection of their information (instrument washers, sterilizers), integration with administration and finance (customer contracts, customer masters, delivery notes, invoices) and warehouse systems (in CSSDs, hospitals).

MULTI

Multi customers and CSSD, Multi platform and multi database.

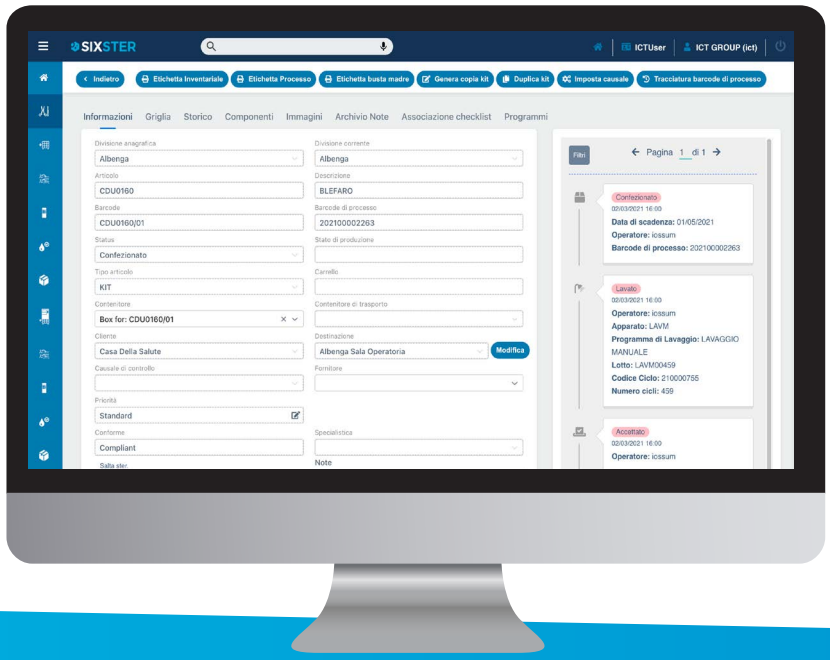
SURGICAL INSTRUMENTS MANAGEMENT WORKFLOW

SIXSTER provides leading-edge technologies to manage information with the aim of improving daily activities in the CSSD.



When instruments move to the next area in the CSSD, the system checks they succeeded all conditions required. Operators are acoustically advised if operations have been done correctly.

Surgical instruments to be sterilized can be codified using Datamatrix™, Barcodes or RFID tags, as identification system. SIXSTER can manage both hospitals' owned instruments than loans for use, with different invoicing rules.



CSSD

SIXSTER workflow is based on the following steps:

1 **RECEPTION**
Identification of incoming instruments owned or rented instruments / loans for use. The identification of the decontamination processes or any peculiarities of washing and the level of urgency (with relative priority in the following phases).

2 **WASHING**
Every instrument/tray in the washing area is assigned to a specific container and an instrument washer, users can trace them at any time, getting information about their location and progress. Electronic collection of washing results and working procedures (washing program, procedure serial number).

3 **PACKAGING**
Instrument packaging according to specifications defined for containers or surgical packs. Check of surgical instruments (both quantities than use/function) and management of potential non conformities. In this case instruments are sent to maintenance or they are sent back to the washing area. At this point the system prints a tag with traceability information and production lot.

4 **STERILIZATION**
Match trays and surgical packs with sterilizers to start sterilization procedures and print of the sterilization validation report. Management of contract work for special instruments that may be sterilized by third parties.

5 **SHIPMENT**
The system automatically prints delivery notes with indication of sterilization lots, suggesting the destination ward/customer for the trays.

HOSPITAL

In hospitals the system allows users to:

1 **DELIVERY OF CLEAN INSTRUMENTS**
Check deliveries and warehouse loads when sterilized instruments arrive.

2 **CHECK IN / CHECK OUT**
Check into the surgical block to use instruments in operating rooms. Instruments are matched to their cost centre and surgical operation; these information are saved by the system in order to trace all performed activities.

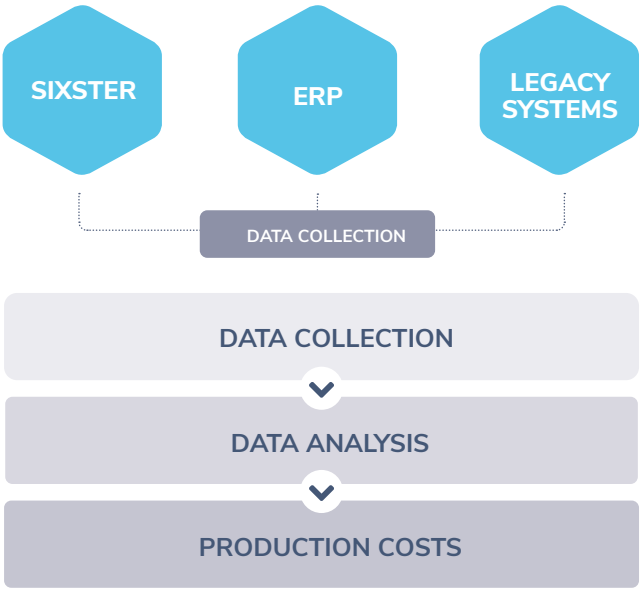
3 **SHIPMENT OF DIRTY INSTRUMENTS**
Pick-up of instruments to be sent to the CSSD. Instruments and trays are unloaded from the hospital warehouse and then loaded in the CSSD warehouse.

BENEFITS

TRACEABILITY	✓ Full traceability in production departments
STARTUP	✓ Short startup times and implementation of new workstations
SECURITY & PRIVACY	✓ System administrators can grant deny and check authorizations to access the system and configure security policies ✓ Avoiding the access to unauthorized users
MONITORING ANALYSIS AND REPORTING SYSTEM	✓ Full and detailed reports to analyze key performance indicators and production costs ✓ Electronic record keeping and invoice automation
ENTERPRISE SYSTEM	✓ It can be used in small CSSDs or in bigger hospitals ✓ In case there are several CSSDs, the system can manage the process partly on a CSSD and partly in another ✓ Sterilization can be carried out by an external company
PROCESS CONTROL	✓ Complete coverage of all areas/departments in the CSSD ✓ Support to all users in CSSDs using check-points, check-lists and help-on-line ✓ Visual and acoustic warnings in case of failed checks in every procedure ✓ Specific tools to support and speed up user effectiveness (for ex. optical and Datamatrix readers, RFID tags, wireless printers,...) ✓ Workflows can be completely customized
HELP DESK SUPPORT	✓ Available in English, German, Italian, French, Spanish, Russian and many other languages
MONITORING SERVICE	✓ The system and all devices are remotely monitored by Helpdesk service

MANAGEMENT CONTROL AND COST ACCOUNTING

SIXSTER records information about production, warehouse handlings, shipment, tracking times spent between the different departments/areas and procedures. For this reason it can easily analyze production costs for cost centre.



Management control functions allow the CSSD to reach fixed targets in operational scheduling, monitoring the gap between scheduled targets and results achieved using specific indicators.

Those information can be shared with the management in order to take proper actions.

The integration between SIXSTER and any management software allows the corporate management to get statistics to analyze production cost related to:

- user performances and costs
- working times and costs of equipments
- production times and costs
- time needed to dispatch orders and their delivery

HARDWARE DEVICES

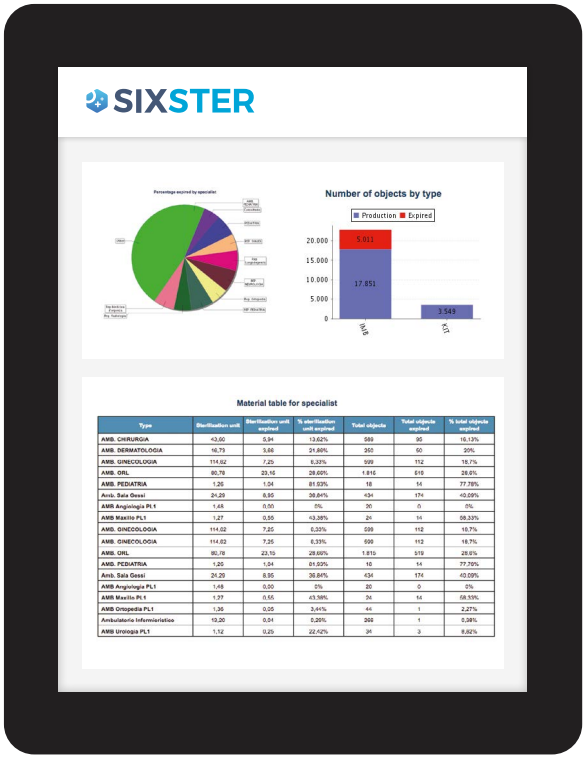
All-in-one personal computers

Barcode readers

Mobile devices

Datamatrix™ readers

Barcode printers



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