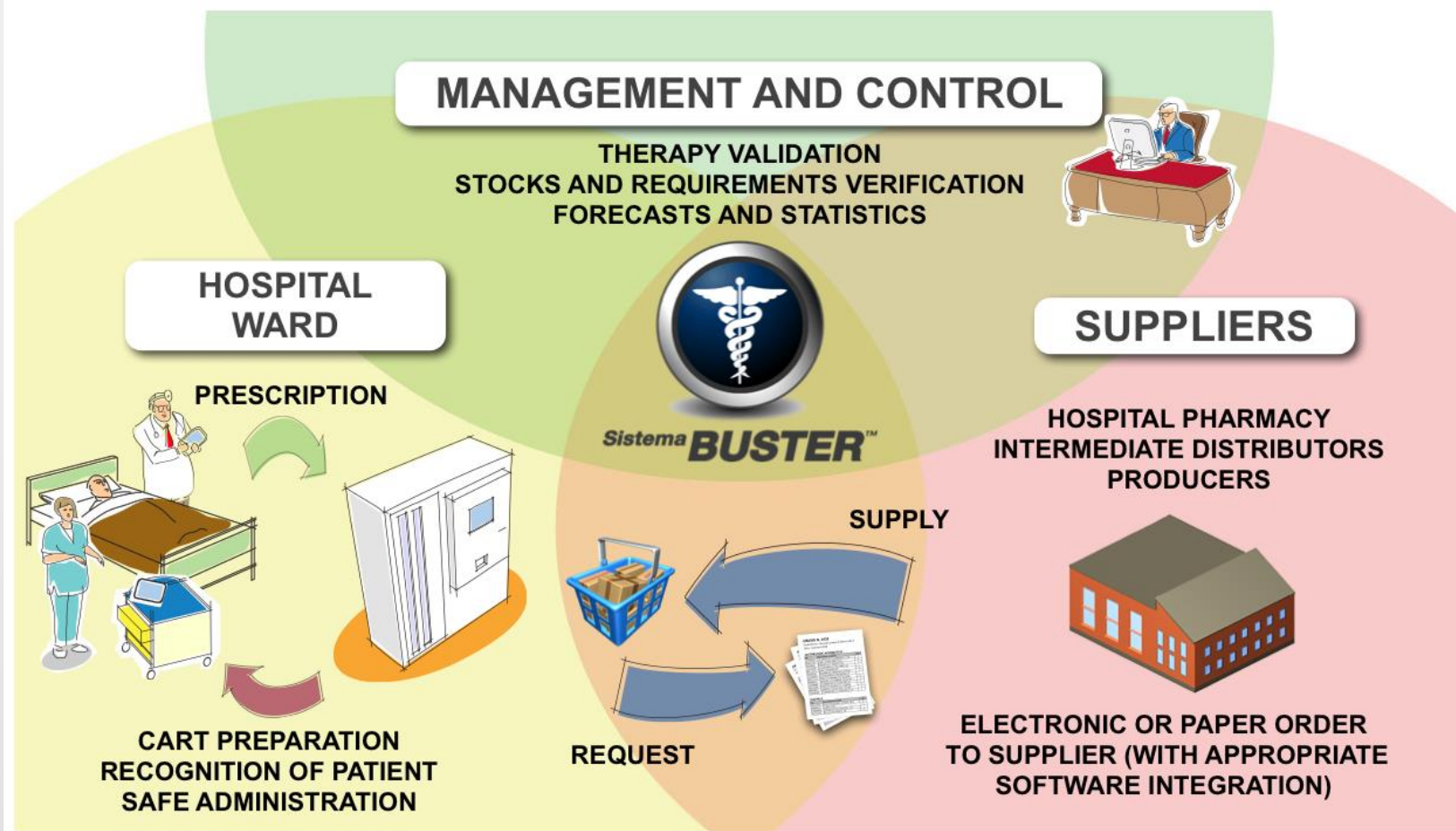


BUSTER™ System

***How does drug
logistics enable
care processes?***



BUSTER™ System



A complete system for the clinical and logistic management of drugs

BUSTER™ System



BUSTERSPID™

Robotic cabinet for the management of drugs in wards



Nursy Rolly™

Computerized medicine trolley for the management of therapies



Suite **BUSTERMED™**

For computerized prescriptions and administrations

BUSTERPICK™

High-tech automatic warehouse that manages the drugs workflow in the central pharmacy



SOFTWARE

BUSTERMED™

CLINICAL MANAGEMENT OF THE DRUGS

Complete and safe management of prescription and administration of drugs

WARD LOGISTIC

Management and control of the robotic BUSTERSPID dispenser for the storage and completely automatic distribution of the drugs in the ward

PHARMACY LOGISTIC

Management and control of the robotic BUSTERSPID dispenser for the storage and completely automatic distribution (h24) of the drugs in the Pharmacy



HARDWARE



BUSTERSPID™

BUSTERSPID is a sophisticated robotic cabinet for the management of the drugs in the hospital wards that owns:

- Touch-screen monitor for the secure access to the functionality of the distributor;
- Single collection point;
- ***RASTER™*** device for the automatic loading and unloading up to 110 packs at a time;

HARDWARE



NURSY ROLLY

Sophisticated computerized ward trolley equipped with:

- Integrated touch screen PC;
- Drawers with controlled access;
- Wi-Fi antenna;
- Battery (8 hours of electric;

HARDWARE

BUSTERPICK™

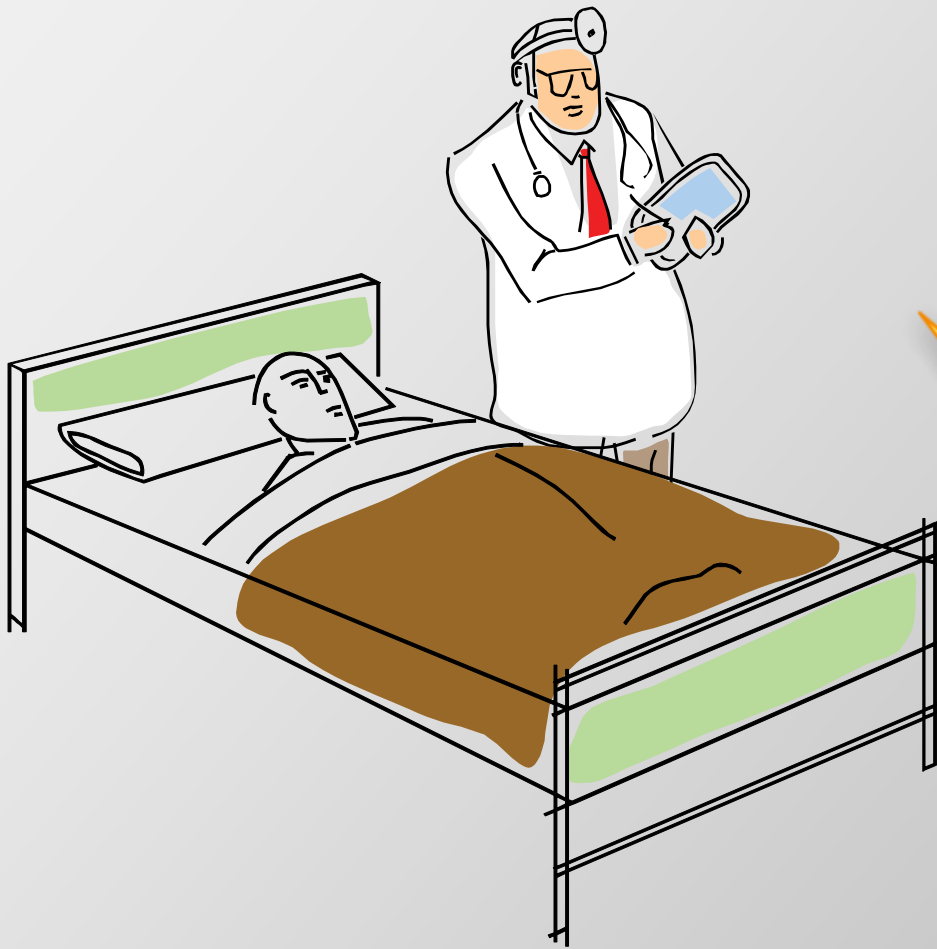
- **HIGH CAPACITY:** 25,000 packing in a reduced space (1.70 m x 7.00 m x 2.40 m);
- **TRACKING** of any single medicine box;
- **HIGH PERFORMANCE:** automatic loading and replenishment of the baskets (200 pieces in 5 minutes);
- **COMPLETE MANAGEMENT** of all types of products, of any shape including the narcotics and thermolabiles;



Organizational model

**Bedside
prescription**

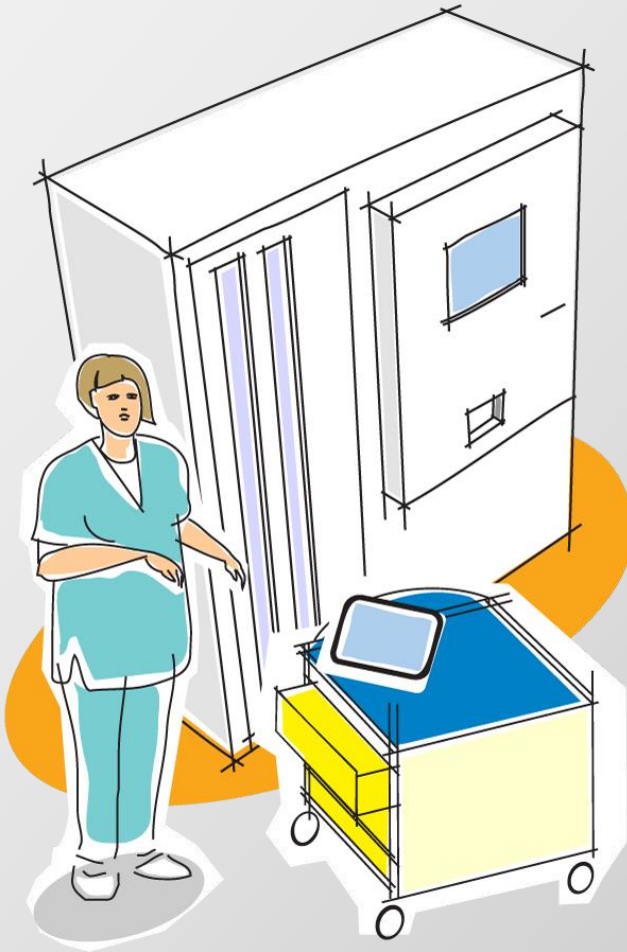
1



Organizational model

Preparation of the trolley 2

BUSTERSPID delivers the needed drugs to complete the cycle of administrations, based on the real needs (prescriptions) and on the trolley stock

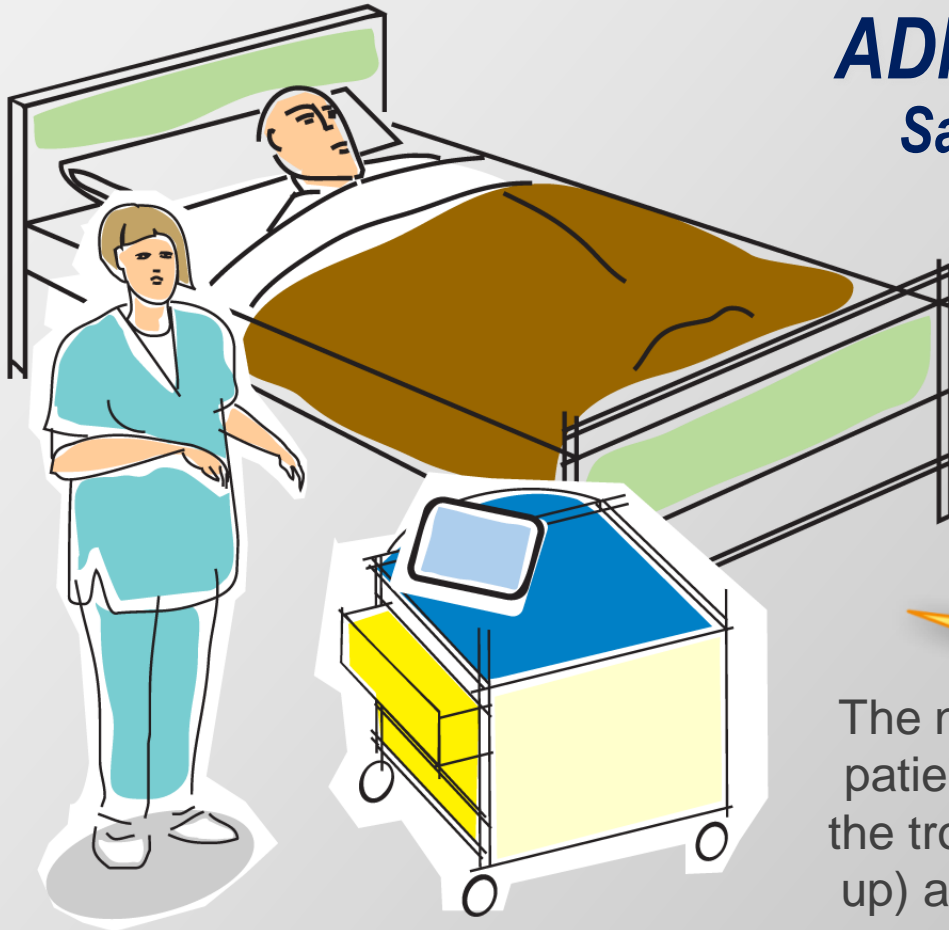


Organizational model

ADMINISTRATION

*Safe patient and drug
identification*

3



The nurse goes to the patient's bedside with the trolley (properly set up) and the PC Tablet



Organizational model

Administration

In compliance with the "Rule" of 6 Rs

3

1stR

Right TIME

Alerting system to avoid delays or forgetfulness during administration.



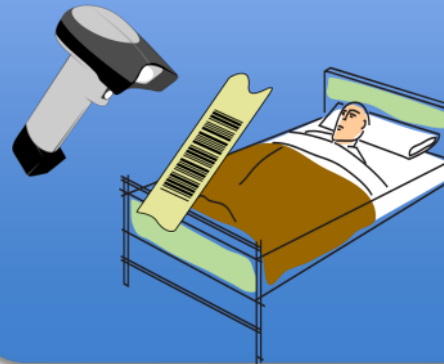
The screenshot shows a software interface for medication administration. At the top, it displays the date and time: 24-03-2006 19:18:46. Below this, there's a section for 'Tempo rimanente - Orale' with a progress bar. The main part of the screen is a table titled 'Lista somministrazioni: TUTTI I REPARTI'. The table has columns for 'Esposizione', 'Nome', 'Dose', 'Frequenza', 'Farmaco', 'SP', 'Paziente', 'Stato', and 'Note'. The table lists several patients and their medication schedules.

Esposizione	Nome	Dose	Frequenza	Farmaco	SP	Paziente	Stato	Note
ORALE	MARIO	10.00.00	Quale	COMPROLANTIN 1000.00.00	1	CAPITALE	4	11
ORALE	MARIO	10.00.00	Quale	ADALAT 1000.00.00	1	CAPITALE	4	11
ORALE	MARIO	10.00.00	Quale	ALBUTEROL 1000.00.00	1	CAPITALE	4	11
ORALE	MARIO	10.00.00	Quale	PARFET 1000.00.00	1	CAPITALE	4	11
ORALE	MARIO	10.00.00	Quale	PARFET 1000.00.00	1	CAPITALE	4	11
ORALE	MARIO	10.00.00	Quale	PARFET 1000.00.00	1	CAPITALE	4	11
ORALE	MARIO	10.00.00	Quale	PARFET 1000.00.00	1	CAPITALE	4	11
ORALE	MARIO	10.00.00	Quale	PARFET 1000.00.00	1	CAPITALE	4	11
ORALE	MARIO	10.00.00	Quale	PARFET 1000.00.00	1	CAPITALE	4	11
ORALE	MARIO	10.00.00	Quale	PARFET 1000.00.00	1	CAPITALE	4	11

2ndR

Right PATIENT

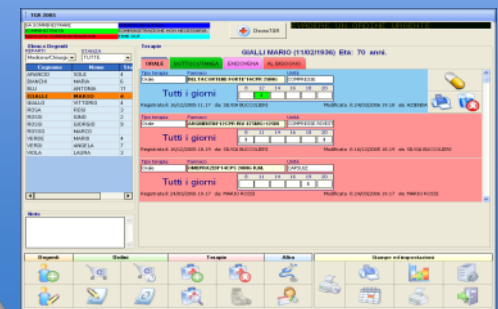
Secure identification of the patient by reading the barcode on his/her bracelet.



3rdR

Right ROUTE OF ADMINISTRATION

Clear, precise and not interpretable instructions.



The screenshot shows a software interface for medication administration. At the top, it displays the date and time: 24-03-2006 19:18:46. Below this, there's a section for 'Tempo rimanente - Orale' with a progress bar. The main part of the screen is a table titled 'Lista somministrazioni: TUTTI I REPARTI'. The table has columns for 'Esposizione', 'Nome', 'Dose', 'Frequenza', 'Farmaco', 'SP', 'Paziente', 'Stato', and 'Note'. The table lists several patients and their medication schedules.

Esposizione	Nome	Dose	Frequenza	Farmaco	SP	Paziente	Stato	Note
ORALE	MARIO	10.00.00	Quale	COMPROLANTIN 1000.00.00	1	CAPITALE	4	11
ORALE	MARIO	10.00.00	Quale	ADALAT 1000.00.00	1	CAPITALE	4	11
ORALE	MARIO	10.00.00	Quale	ALBUTEROL 1000.00.00	1	CAPITALE	4	11
ORALE	MARIO	10.00.00	Quale	PARFET 1000.00.00	1	CAPITALE	4	11
ORALE	MARIO	10.00.00	Quale	PARFET 1000.00.00	1	CAPITALE	4	11
ORALE	MARIO	10.00.00	Quale	PARFET 1000.00.00	1	CAPITALE	4	11
ORALE	MARIO	10.00.00	Quale	PARFET 1000.00.00	1	CAPITALE	4	11
ORALE	MARIO	10.00.00	Quale	PARFET 1000.00.00	1	CAPITALE	4	11
ORALE	MARIO	10.00.00	Quale	PARFET 1000.00.00	1	CAPITALE	4	11
ORALE	MARIO	10.00.00	Quale	PARFET 1000.00.00	1	CAPITALE	4	11

Organizational model

Administration

In compliance with the "Rule" of 6 Rs

3

4th R Right MEDICINE

The software provides all the information needed to identify the right drug and the prescribed dosage. Everything is confirmed by reading the product's identification barcode.

Somministrazione

Somministrazione per il degente: GALLI MARIO (11/02/2006) Età: 70 anni.

Permette di gestire la somministrazione del farmaco.

Parametri Somministrazione

Tipo Terapia: ORALE

Orario: 19

Farmaco: OMEPRAZOL 14CPS 20MG R.M.

Quantità da somministrare: 1

Unità di misura: CAPSULE

Note Terapia:

Tipo Somministrazione

☒ Somministra

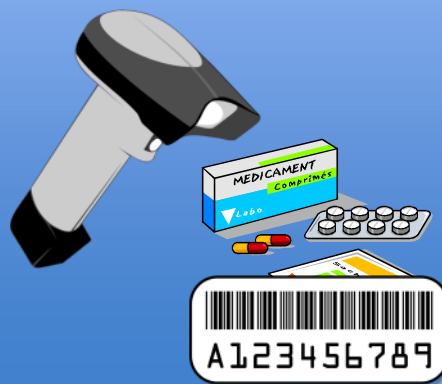
☐ Mancata Somministrazione

☐ Terapia Rifiutata

Note:

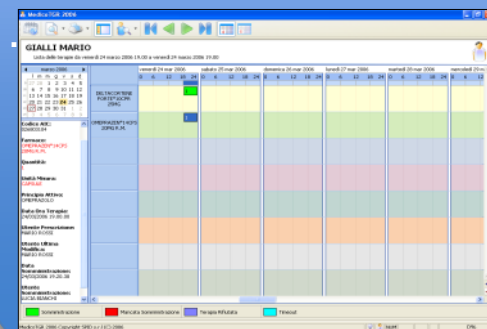
Somministra Annulla

5th R RIGHT DOSE



6th R Right REGISTRATION

Registration according to the standards required by International Joint Commission.



Organizational model

Request generation

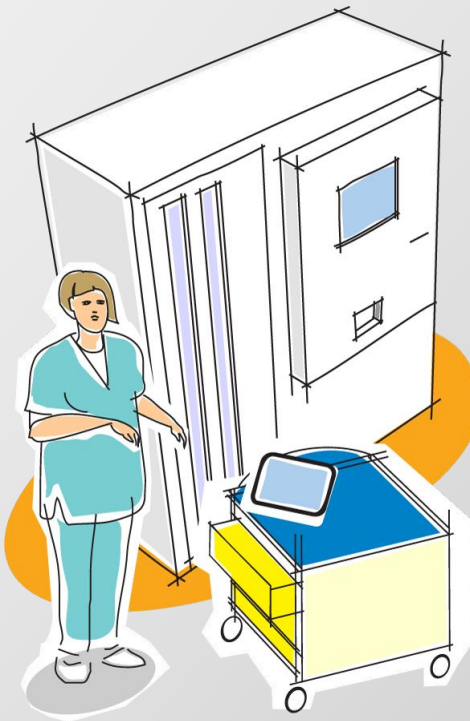
4

The system proposes the request of replenishment and aids considering the real needs (prescriptions) and the current stock



Organizational model

Ward cabinet loading 5



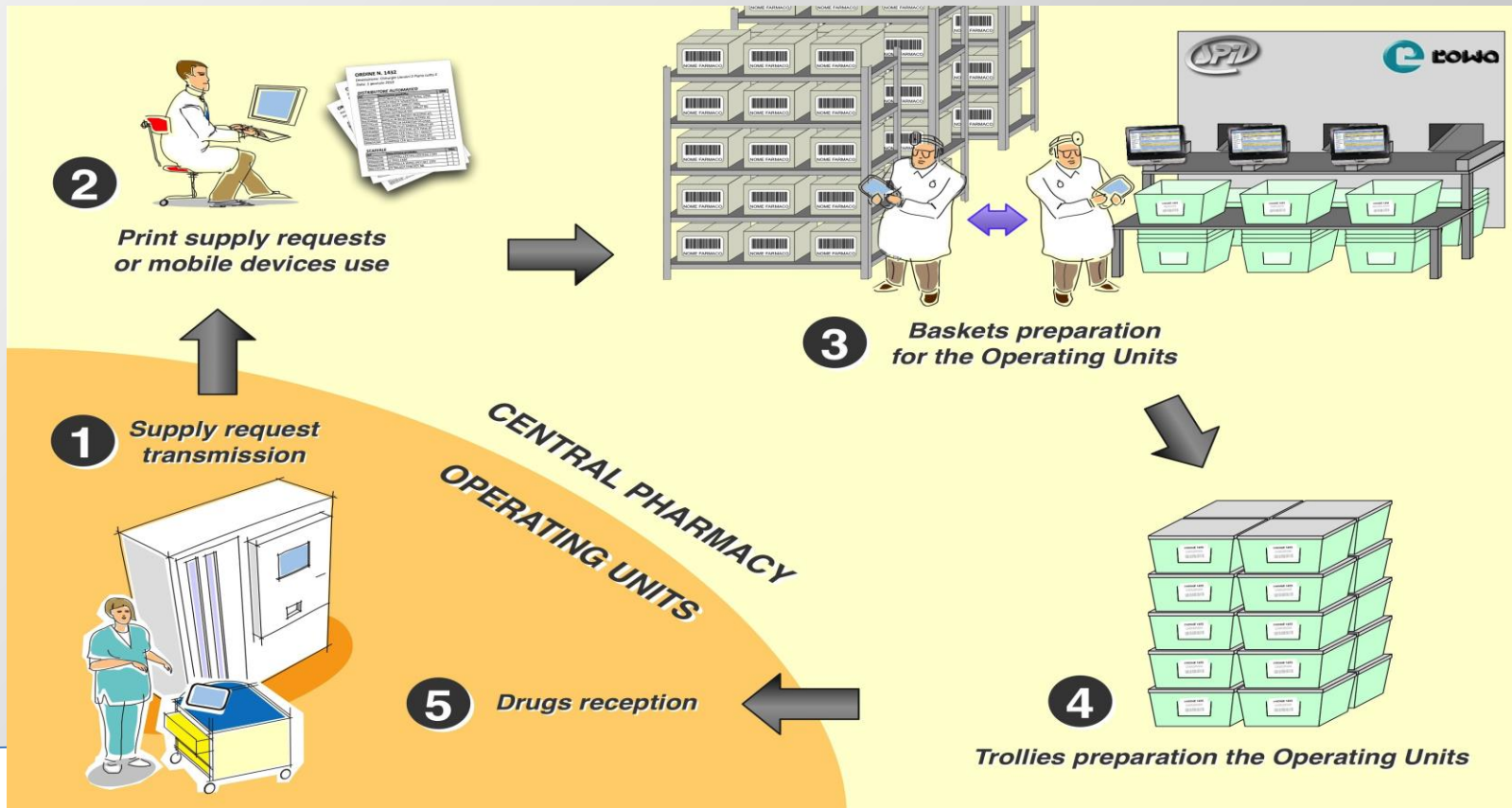
The drugs requests are fully automatically processed by the **BUSTERPICK system** and are sent to the wards according to the organizational models of the facility and loaded in the **BUSTERPID** dispenser.



Organizational model

WAREHOUSE PHARMACY MANAGEMENT

5



Advantages and Savings

1. *Reduction of the clinical risk of the pharmaceutical therapies (- 65% of errors);*
2. *the optimization of the human and economic resources:*
 - *reduction of two-thirds of the time spent by the staff in logistic activities;*
 - *reduction of more than 50% of the pharmaceutical supplies;*
 - *control of pharmaceutical consumption between 7% and 18%;*
3. *control and monitoring of the entire logistic process;*
4. *adaptation to the international standards for the accreditation of healthcare facilities;*
5. *improvement of the perceived quality by the user and the community;*

