

A large cable-stayed bridge with multiple tall concrete pylons and numerous stay cables, spanning a wide body of water. The bridge is illuminated by the warm, golden light of a sunset or sunrise, with its reflection clearly visible in the calm water. The sky is a deep blue, and distant mountains are visible on the horizon.

INFORMATICS SUPPORT IN NURSING

The Future Is Now!

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The computerized records in nursing:

- Making clinical decisions,
- Continuity and quality of care,
- Management,
- Training,
- Research,
- Decision-making processes,
- Legal and ethical imperative that involves them.

Where is José Joaquim Fernandes Hospital?

Portugal

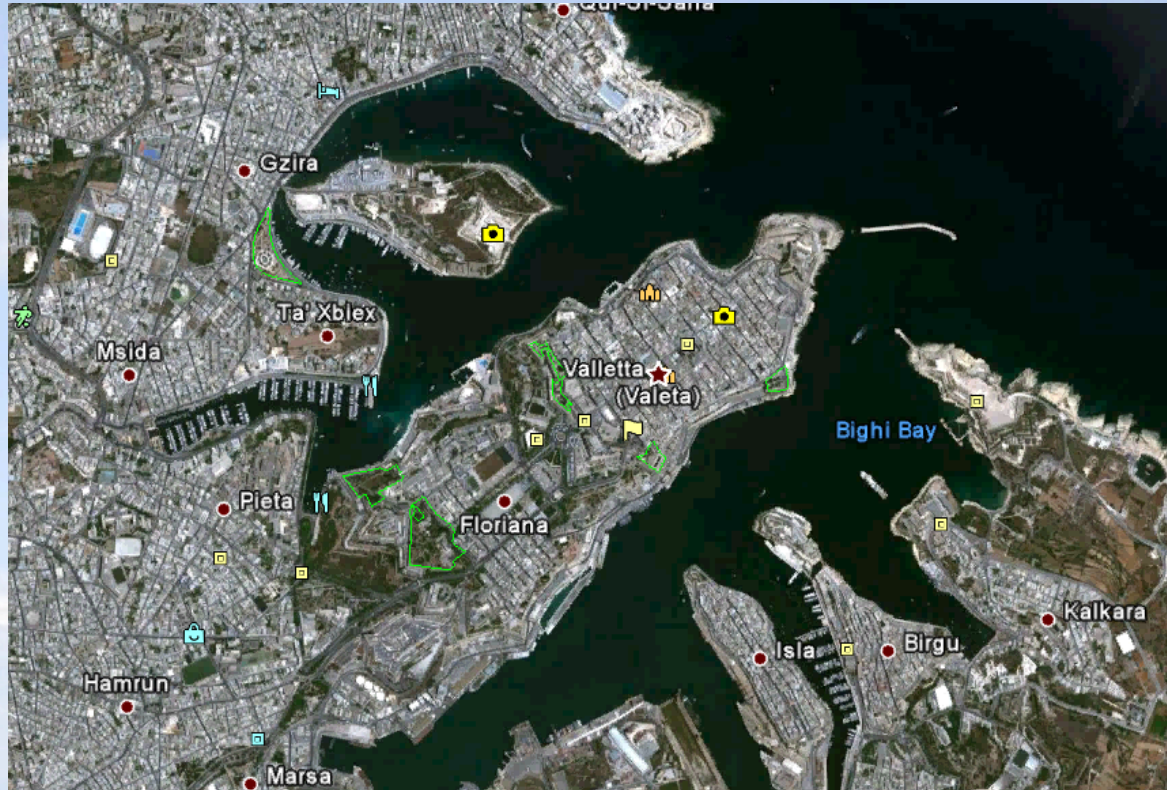
- Southwestern Europe
- Iberian Peninsula

Beja

- Alentejo region.
- Total population of 35000 inhabitants.

Our Hospital

- 230 beds
- 5 Operation Rooms
- PACO with 6 beds



The Operation Room

- Physical imbalance
- Serious illness
- Severe trauma
- Must be solved with an aggressive and invasive technique



A surgery is a unique experience for each individual, which lives it according to their own values and beliefs.

Data collection

- Data are used, not only to achieve a complete nursing record of the patient's condition and reactions, but it also should offer the guidelines to the nurse who provides care
- When accurate and reliable records are available, nurses have in his possession an instrument able to assess the evolution of the patient.



How our informatics support has been structured, developed and implemented in the perioperative nursing environment, in the José Joaquim Fernandes's Hospital Operation Room in Beja – Portugal.

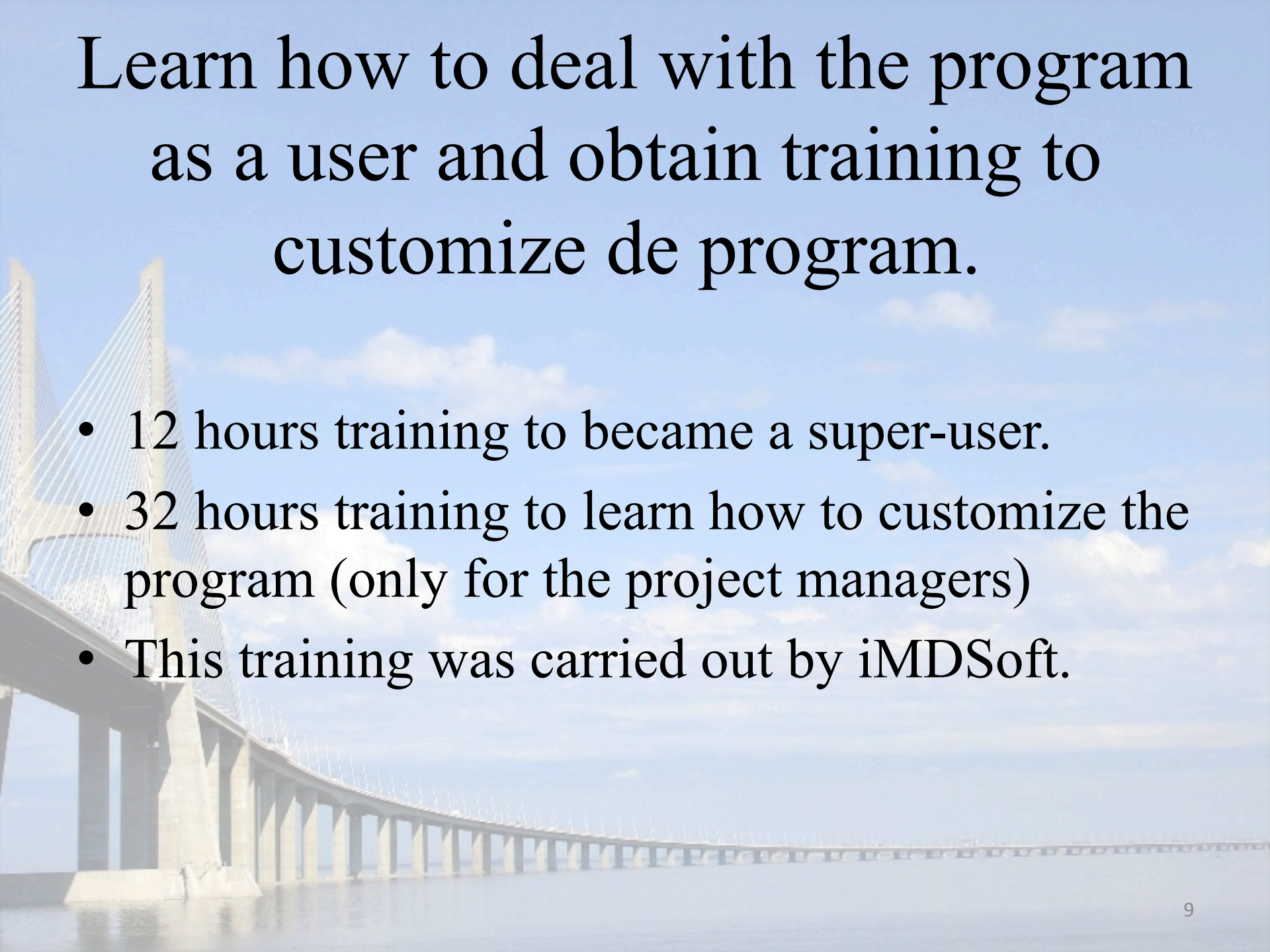


Our plan:

- Choosing the right software.
- Learn how to deal with the program as a user.
- Obtain training to customize de program.
- Customize both medical and nursing parameters.
- Building layouts.
- Human resources training in Metavision.
- Go-live.

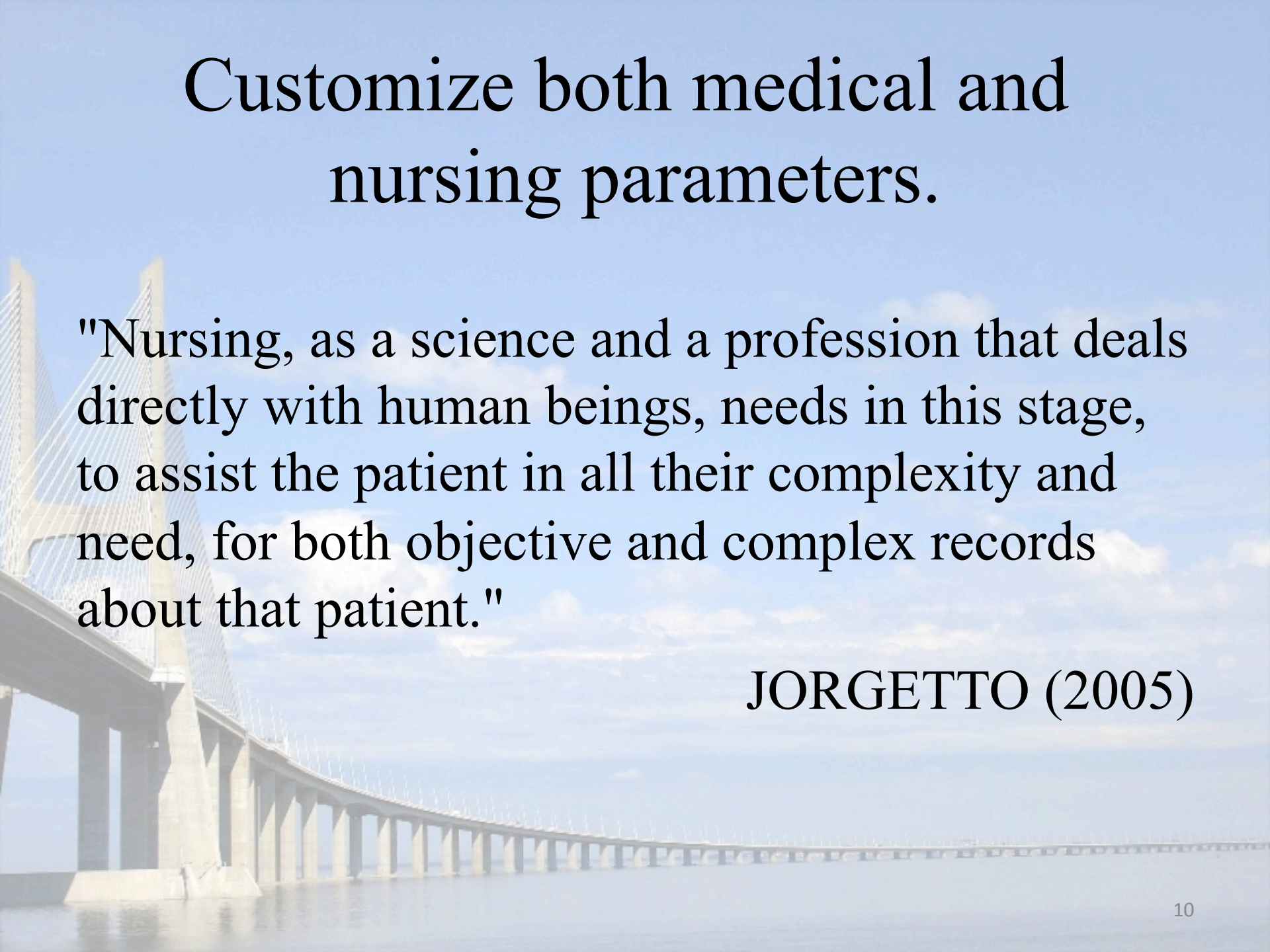
Choosing the right software

- Collects data from bedside devices and hospital information systems.
- Record every detail of diagnoses and treatment plans.
- Support specific workflows and practice patterns



Learn how to deal with the program as a user and obtain training to customize de program.

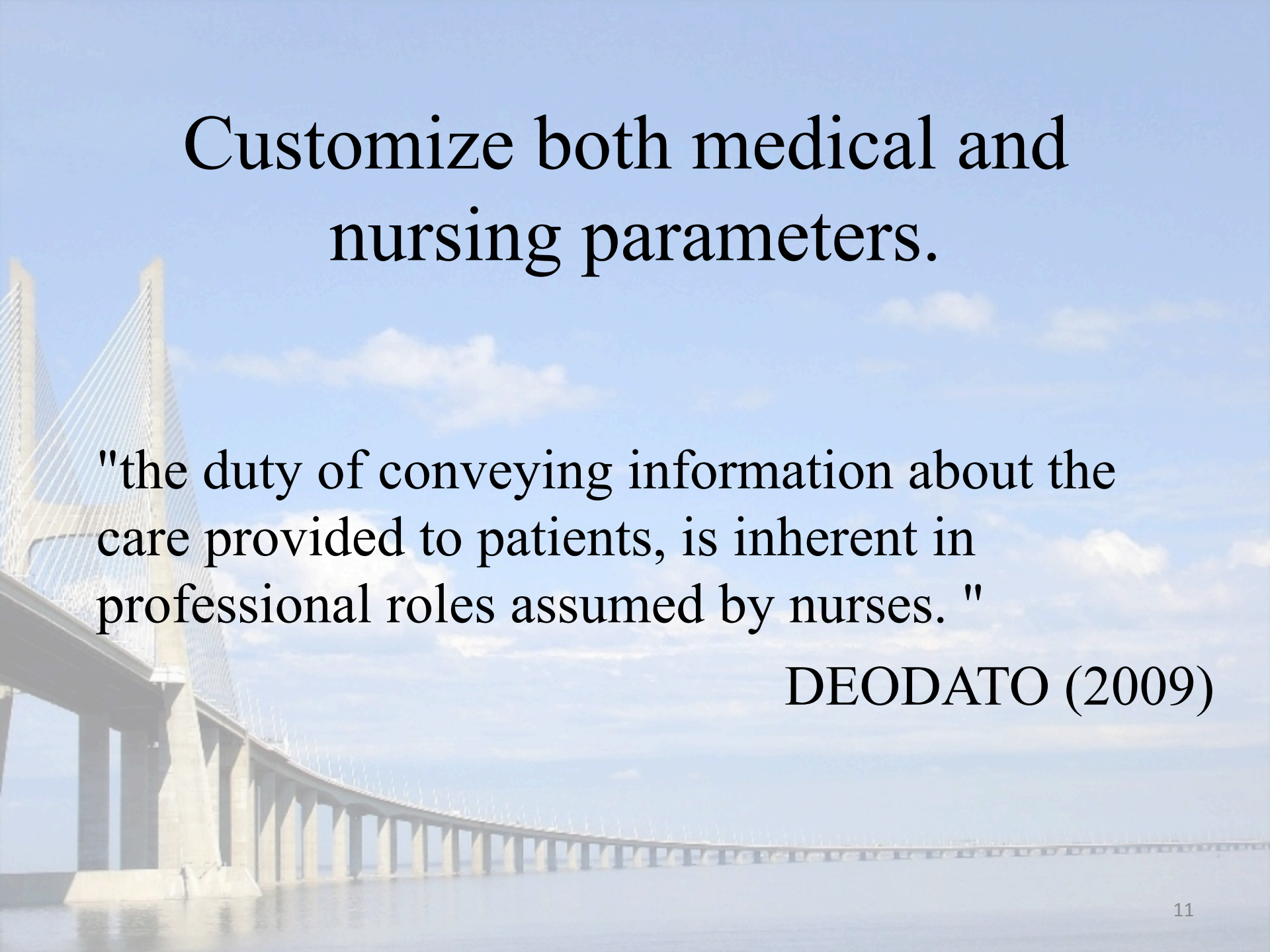
- 12 hours training to became a super-user.
- 32 hours training to learn how to customize the program (only for the project managers)
- This training was carried out by iMDSOft.



Customize both medical and
nursing parameters.

"Nursing, as a science and a profession that deals directly with human beings, needs in this stage, to assist the patient in all their complexity and need, for both objective and complex records about that patient."

JORGETTO (2005)



Customize both medical and
nursing parameters.

"the duty of conveying information about the
care provided to patients, is inherent in
professional roles assumed by nurses. "

DEODATO (2009)

Customize both medical and nursing parameters.

"Records turn communication easier among team members and promotes the continuity of health care, reflects the care plan and can be used as a legal record of provided health care. "

CUNHA (2007)

Customize both medical and nursing parameters.

- Parameterization of :
 - the drugs,
 - units of measurement,
 - and the medical devices that are used in clinical care.
 - The database was customized to local OR and PACO needs.

Customize both medical and nursing parameters.

- Nursing Interventions Classification (NIC),
- The guidelines of the AESOP (Portuguese association of perioperative nurses)
- The guidelines of EORNA (European operation room nursing association).
- International Classification for Nursing Practice
- Nursing Minimum Data Set

Building layouts.

Our goal in developing this organization was settled in a important rule:

KISS



K eep
I t
S imple and
S tupid

We created several layouts.

Nome: JOSE MANUEL COLA PAIS Grupo Sanguíneo: Diagnóstico Pré-operatório: Sinus Pilonidalis ASA: II Alergias: Desconhece

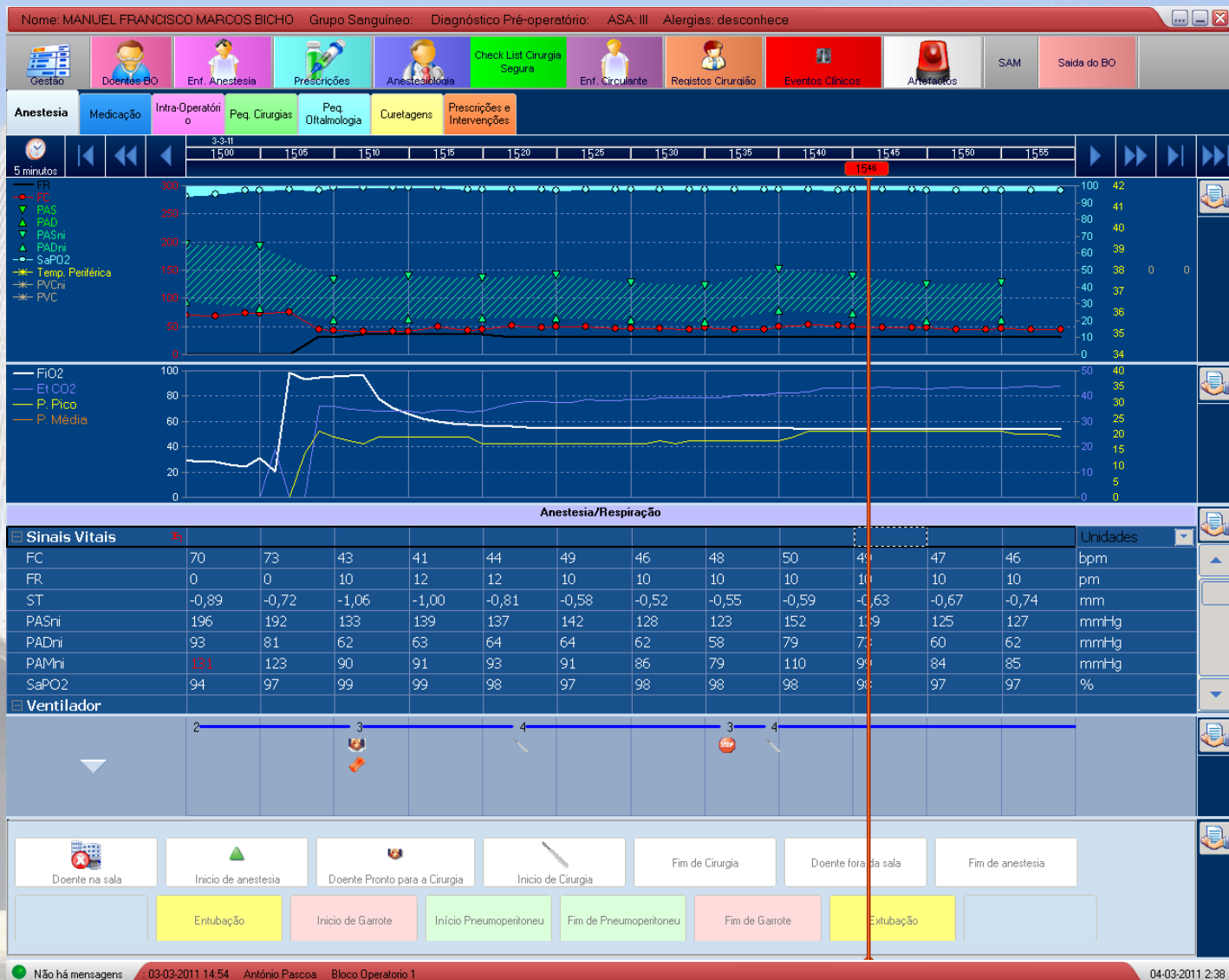
Gestão Doentes BO Enf. Anestesia Prescrições Anestesiologia Check List Cirurgia Segura Enf. Circulante Registos Cirurgião Eventos Clínicos Anestacos SAM Saída do BO

Anestesia **Medicação** Intra-Operatório Peq. Cirurgias Peq. Oftalmologia Curetagens Prescrições e Intervenções

Automático 3:31 813 814 815 816 1007 1048 1118 1150

	3:31 813	814	815	816	1007	1048	1118	1150	
Epidural/raqui (Bólus)									
Levobupivacaína (Fent [mg])		[+] 11,000							11,000 mg
Analgésicos não Opióide									
Paracetamol [mg]					1,000				633 mg
Solução com Aditivos (Metoclopramida/Tramadol)									
Bólus (EV)									
Cetorolac [mg]					60				60 mg
Efedrina [mg]				10					10 mg
Atropina [mg]			1,00						1,00 mg
Midazolam [mg]		2,000							2,000 mg
Antibiótico									
Cefazolina		1,000							1,000 mg
B-Braun									
Soluções									
Lactato de Ringer		1,000							1,000 mL

Não há mensagens 03-03-2011 8:14 António Pascoa Bloco Operatório 1 04-03-2011 2:34



...secondary bars

The screenshot shows a software window titled "Enf. Circulante" with a close button in the top right corner. The window contains a grid of 15 light blue rectangular buttons, each with a dark blue border and text. The buttons are arranged in three rows: the first row has 6 buttons, the second row has 6 buttons, and the third row has 3 buttons. The text on the buttons is as follows:

Controlo de infecção	Preparação da pele	Registos Operatórios	2ª Intervenção (Registos Operatórios)	Ajustar Placa Dispersiva	Colocação de Garrote Pneumático
Algaliação	Registo da peça operatória	Penso Operatório	Obter Substância Corporal	Lavagem Vesical Continua	Cuidados Ginec/Obst
Cuidados inerentes a ostomias	Registos de Enfermagem	Fim de Intraoperatório			

... and several forms

Preparação da pele

02:34 Refrescar

Tricotomia Não

Estado da pele antes da tricotomia

- ☐ Pele saudável
- ☐ Sinais de alergia
- ☐ Com escoriações
- ☐ Edemaciada
- ☐ Com flictenas
- ☐ Outro

Estado da pele depois da tricotomia

- ☐ Pele saudável
- ☐ Sinais de alergia
- ☐ Com escoriações
- ☐ Edemaciada
- ☐ Com flictenas
- ☐ Outro

Execução da tricotomia

- ☐ No Bloco Operatório
- ☐ Exterior ao Bloco Operatório

Quem executou a tricotomia:

- ☐ Enfª Circulante
- ☐ Enfª Instrumentista
- ☐ Cirurgião
- ☐ 1º Ajudante

Desinfecção da pele com:

- ☐ Iodopovidona Sol. Alcoólica
- ☐ Iodopovidona Dérmica
- ☐ Iodopovidona Espuma
- ☐ Iodopovidona Ginecológico
- ☐ Clorexidina
- ☐ Outro

Quem executou a desinfecção

- ☐ Enfª Circulante
- ☐ Enfª Instrumentista
- ☐ Cirurgião
- ☐ 1º Ajudante

Estado da pele antes da desinfecção

- ☐ Pele saudável
- ☐ Sinais de alergia
- ☐ Com escoriações
- ☐ Edemaciada
- ☐ Com flictenas
- ☐ Outro

Estado da pele após a cirurgia

- ☐ Pele saudável
- ☐ Sinais de alergia
- ☐ Com escoriações
- ☐ Edemaciada
- ☐ Com flictenas
- ☐ Outro

Salvar Aplicar Cancelar

...that allow to register with detail the nursing interventions.

Executar o conjunto: Prevenção de quedas.

Definir o nome:

Tempo inicial:

Eventos e prescrições Cancelar a seleção de todos

Nome	Quantidade/duraç...	Program...	Categoria	Ação
<input checked="" type="checkbox"/> Prevenção de quedas			BO Eventos E...	
<input checked="" type="checkbox"/> Comunicar ao doente o seu status de "risco"	1 Minuto		Actividades de...	Validar
<input checked="" type="checkbox"/> Avaliar efeitos colaterais da medicação			Actividades de...	Inicializar
<input checked="" type="checkbox"/> Elevar grades laterais da cama	1 Minuto		Actividades de...	Validar
<input checked="" type="checkbox"/> Identificar as características do ambiente	2 Minuto		Actividades de...	Validar
<input checked="" type="checkbox"/> Identificar déficits cognitivos e físicos	2 Minuto		Actividades de...	Validar
<input checked="" type="checkbox"/> Manter cama na posição baixa e travada			Actividades de...	Inicializar
<input checked="" type="checkbox"/> Orientar o doente			Actividades de...	Inicializar
<input type="checkbox"/> Aplicar elementos de contenção física	10 Minuto		Actividades de...	Validar

Executar depois:

Calculo do peso do medicamento:

Human resources training in Metavision

- Ordinary users - 12 hours standart training.
- Super-users - 12 hours standart training and 6 hours of individual teaching and exercise training
- This training was carried out by Fatima and me, the project Managers.



In every shift was scheduled one super-user to suport the rest of the team to perform the basic tasks

Go-Live

- Go-live was performed on May, the 1st.
- Documentation was switched to computerized charting.
- Papperless and with no double charting.



A photograph of the Vasco da Gama Bridge in Lisbon, Portugal, featuring a large cable-stayed bridge structure with multiple pylons and a long trestle bridge extending into the distance over the water. The bridge is reflected in the calm water below.

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The Future Is Now!

Thank You
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