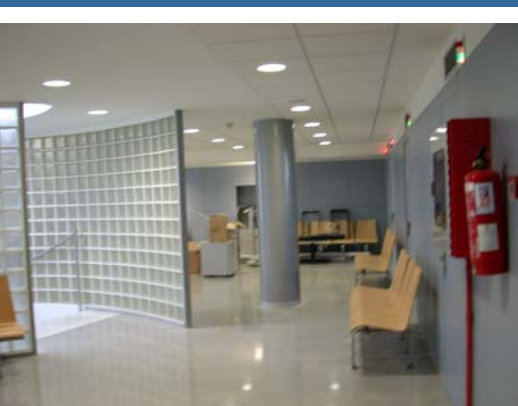


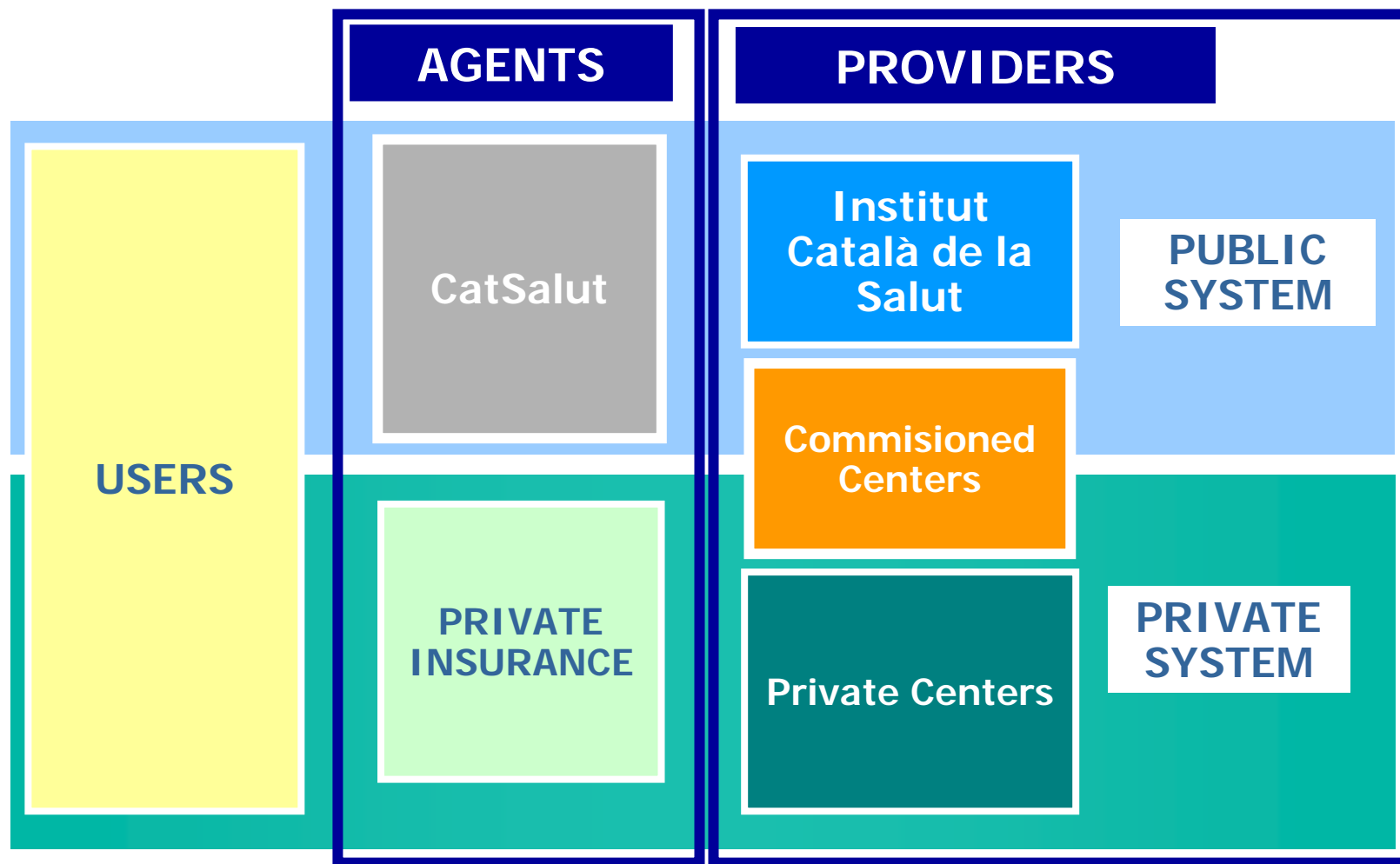
Institut Català de la Salut

PROCUREMENT CENTRAL



GS1 HUG Congress
Berlin, January 30th 2007

Catalan Health System Structure



ICS, a special provider



- Health Services Public provider owned by government (Generalitat de Catalunya).
- Reference for the Catalan Health System.
- Coverage: **83%** of Catalan population (5,8 million people).
- More than **35,000** health professionals.
- Budget 2006 = **2,356** millions €.

Primary care:

- More than **465 Healthcare units:**
 - ✓ 272 Primary Healthcare Teams
 - ✓ 40 Specialties clinics
 - ✓ 32 Emergency centers
 - ✓ 8 Clinical Laboratories
 - ✓ 32 Radiology services
 - ✓ 15 Rehabilitation services
 - ✓ 8 Mental health centers
- Manage **80%** of Catalan Primary Care Teams.
- **40 million visits a year.**

ICS, a special provider

Hospital básico

Viladecans

Hospitales de referencia

Arnau de Vilanova
Joan XXIII
Verge de la Cinta
Dr. Josep Trueta

Hospitales Alta Tecnologia

Bellvitge
Germans Trias i Pujol
Vall d'Hebron

Healthcare Supply (2)

Hospital care:

- **8 Hospitals :**
 - ✓ More than 4.000 beds
 - ✓ More than 125 operating rooms
 - ✓ More than 660 outpatient offices
- **Delivers 32% of public hospital beds and 50% of high technology beds in Catalonia.**
- **2006 : 173.000 Discharges**
 - 130.000 Surgical procedures
 - 810.000 Emergencies
 - 2.170.000 Outpatient visits
 - 400 Transplants

(liver, kidney, heart, lung and pancreas)

Modernization Project in the Economic-Finance Department

Project Goals

- ✓ Centers autonomy in decision-making to be kept and increased.
- ✓ Improve quality of service to centers, professionals and patients
- ✓ Ease administrative tasks:
 - Contracts
 - Procurement
 - Orders
 - Payments
- ✓ Optimize economic and human resources.

Modernization Project in the Economic-Finance Department

Center of Shared Services

- ✓ Procurement Central
- ✓ Logistics Distributor : Log@ritme
- ✓ One ICS Warehouse - One Budget
- ✓ Center for invoices process
- ✓ Decentralized budget: to keep autonomy in decision-making

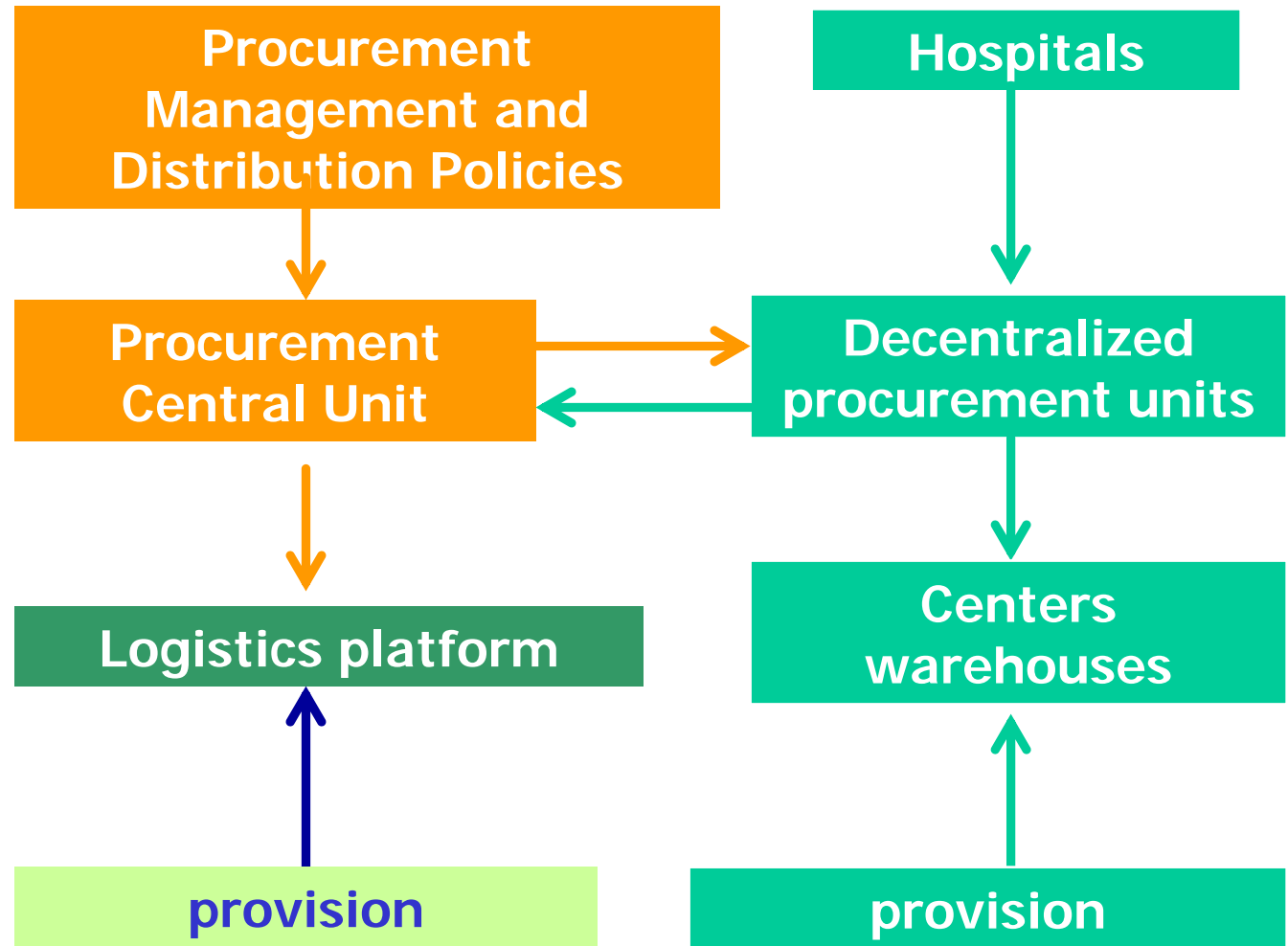
Modernization Project in the Economic-Finance Department

Project Base

- ✓ One ICS Warehouse: **Log@ritme**
- ✓ IT Tool: **SAP**
- ✓ Technology use:
 - Corporate website for contracting and provider information.
 - Use of **EAN-128** coding to product tracking
 - Use of **EDI**, for orders, files and invoices.

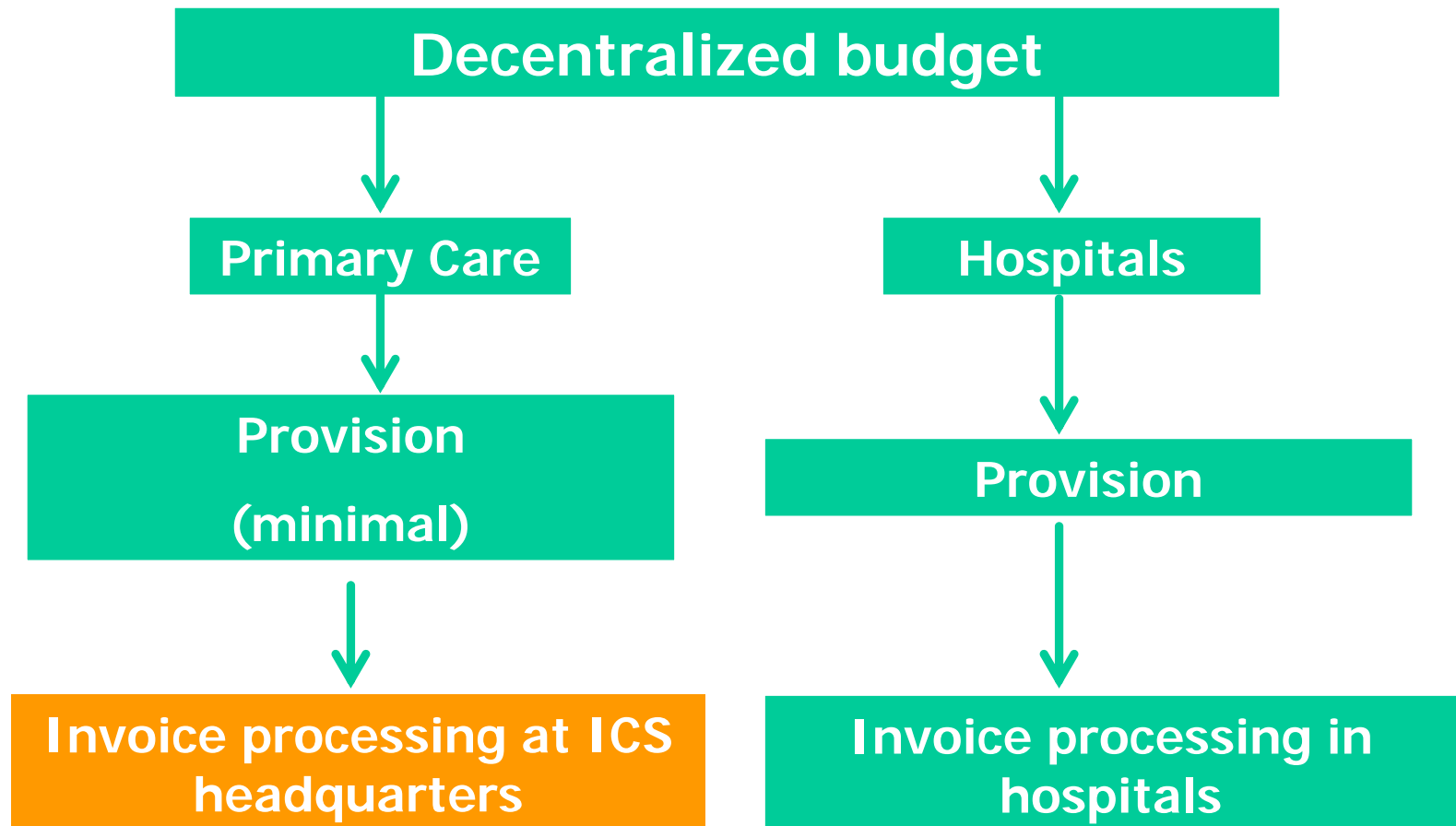
Modernization Project in the Economic-Finance Department

Project Scheme



Modernization Project in the Economic-Finance Department

Decentralized budget



Modernization Project in the Economic-Finance Department

Common catalog

We are compiling a common catalog for all products we may deliver:

- ✓ Investments: 2061
- ✓ Services: 159
- ✓ Ancillary services: 5.034
- ✓ Stocks: 29.779+4.500 Trauma
- ✓ Maintenance: 2.300
(To be reviewed 9.000).

Files 2005 – 2006

| AÑO 2006 | Nº Expe | IMPORTE |
|-------------------|-----------------|-----------------------|
| HOSPITALES | dientes. | TOTAL |
| COMPRA AGREG. | 101 | 75.076.733,64 |
| COMPRAS MENOR. | 944 | 7.979.142,05 |
| COMPRAS DIREC. | 1.318 | 1.803.371,38 |
| RENTING + SIMIL. | 3 | 69.099.180,00 |
| CONVENIOS | 54 | 20.768.315,64 |
| TOTALES | 2.420 | 174.726.742,71 |

Files 2005 – 2006

| AÑO 2006 | Nº Expe | IMPORTE |
|-----------------|-----------------|--------------------|
| TOTAL | dientes. | TOTAL |
| COMPRA AGREG. | 2.371 | 109.047.570 |
| CONVENIOS | 201 | 94.535.413,84 |
| SERVICIOS GEN. | 944 | 82.470.644,91 |
| INVERSIONES | 587 | 12.809.638,82 |
| PRODUCTOS INT. | 9 | 13.618.418,24 |
| RESTO | 81 | 1.381.483 |
| RENTING | 4 | 89.099.180 |
| TOTALES | 4.197 | 402.962.349 |

Assigned articles

| ARTÍCULOS ADJUDICADOS | |
|------------------------------|---------------|
| 2005 | 6.870 |
| 2006 | 12.203 |

Modified files

MODIFICACIONES DE EXPEDIENTES

2005

190

2006

325

Economic Management 2006. Procurement and bargaining

| Expediente | Descripción | Inicial | Final | Ahorro | % Variación |
|---------------------|-----------------------|-----------------------|-----------------------|----------------------|---------------|
| SUBTOTAL | ESTOCABLES | 73.487.562,79 | 66.733.181,99 | 6.754.380,80 | 9,19% |
| SUBTOTAL | SERVICIOS PRIMARIA | 21.367.594,92 | 17.639.149,92 | 3.728.445,00 | 17,45% |
| SUBTOTAL | INVERSIONES | 6.497.287,08 | 5.765.644,51 | 731.642,57 | 11,26% |
| SUBTOTAL | INFORMÁTICA | 2.210.318,00 | 1.940.678,61 | 269.639,39 | 12,20% |
| SUBTOTAL | ESTOCABLES NEGOCIADOS | 281.354,04 | 277.846,12 | 3.507,92 | 1,25% |
| SUBTOTAL | RENTING | 89.099.180,00 | 79.216.936,36 | 9.882.243,64 | 11,09% |
| SUBTOTAL | SERVICIOS CENTRO | 712.793,04 | 641.112,67 | 71.680,37 | 10,06% |
| SUBTOTAL | SAP Asistencial | 23.500.000,00 | 19.975.000,00 | 3.525.000,00 | 15,00% |
| TOTAL AHORRO | | 217.156.089,87 | 192.189.550,17 | 24.966.539,69 | 11,50% |

Modernization Project in the Economic-Finance Department

Information integration

→ We base our project in information system **integration**.

Modernization Project in the Economic-Finance Department

Current Information Systems

| | | | |
|-----------------------------|-----|-----|---------------------------|
| HOSPITAL VALL D' HEBRON | SGB | SGA | |
| HOSPITAL JOAN XXIII | SGA | | |
| HOSPITAL GERMANS TRIAS | 5.3 | SGA | Logistic Operator |
| HOSPITAL ARNAU DE VILANOVA | 5.3 | SGA | |
| DIVISIÓ D' ATENCIÓ PRIMARIA | 5.3 | SGA | |
| HOSPITAL VILADECANS | 5.3 | | Integration first attempt |
| HOSPITAL BELLVITGE | 5.3 | | |
| HOSPITAL VERGE DE LA CINTA | CCS | | |
| HOSPITAL JOSEP TRUETA | CSS | | |

Modernization Project in the Economic-Finance Department

Information Systems second fase

HOSPITAL VALL D' HEBRON

HOSPITAL BELLVITGE

HOSPITAL GERMANS TRIAS

HOSPITAL JOSEP TRUETA

HOSPITAL ARNAU DE VILANOVA

HOSPITAL JOAN XXIII

HOSPITAL VERGE DE LA CINTA

HOSPITAL VILADECANTS

DIVISIÓ D' ATENCIÓ PRIMARIA

SAP

Modernization Project in the Economic-Finance Department

Common catalog

- Catalog Unit centralize all new products entry
- Article file: generic
- Product file: procurement specific
- EAN –GS1 provider code in template file
- In our opinion, as consumers, EAN-GS1 code should be in providers offers instead of template files

Modernization Project in the Economic-Finance Department

Product file

DATOS DE COMPRA DE UN PRODUCTO ESPECÍFICO - Datos informados por el proveedor

Código producto genérico

Denominación general del producto

Nombre de la empresa

CIF

Código interno de proveedor

Punto operacional / EDI

Fabricante / Distribuidor

Datos del producto específico

Referencia fabricante

Referencia distribuidor

Marca comercial

Especificaciones técnicas

Descripción

Composición

Medidas

Método de esterilización

Envasado

Indicaciones de uso

Otras informaciones

Acreditaciones (CE, tipo de clase, documento y/o autocertificación)

Datos de almacenaje /logísticos

Temperatura de almacenaje (máximo / mínimo)

Tiempo de caducidad del producto

Plazo de entrega (en horas)

| | EAN | Cantida d EAN anterior | Cantidad de unidad de consumo | Simbol izado ? | Ud. Pedido? | Tipo embalaje |
|---------------------------|---------------|------------------------------|-------------------------------------|----------------------|----------------|------------------|
| Unidad de consumo | 8412345678905 | - | 1 | si/no | no | sobre |
| Unidad mínima de envasado | 8412345678906 | 100 | 100 | - | no | caja |
| Unidad mínima de venta | 8412345678907 | 10 | 1000 | - | si | caja |
| Agrupación siguiente | | | | | | |

¿La unidad mínima de envasado será susceptible de ser unidad de pedido si se acumula a la unidad mi

Datos económicos

Precio unidad de consumo

Precio unidad mínima de envasado

Precio unidad mínima de venta

Modernization Project in the Economic-Finance Department

¿WHY GS1?

- Eases to legal fulfillment
- Delivers patient safety
- Improves logistics
- Improves cost assignment
- Improves information transmission

Modernization Project in the Economic-Finance Department

¿WHY GS1?

- **Eases to legal fulfillment**
- Delivers patient safety
- Improves logistics
- Improves cost assignment
- Improves information transmission

Modernization Project in the Economic-Finance Department

Legal fulfillment

"Royal Decree 414/1996, March 1st, on health products regulation B.O.E. N° 99 published on 24/4/1996.

Impose and oblige to prosthesis tracking recording and informing to patients, providers and the public registry:

- **Cardiac Prosthesis**
- **Neurologic Prosthesis**
- **Breast Prosthesis**

- **Oftalmologic Prosthesis**
- **Knee Prosthesis**
- **Hip Prosthesis**
- **Spine Prosthesis**

Modernization Project in the Economic-Finance Department

Implants tracking

Recorded data:

- Provider and maker
- Prosthesis type, brand, model
- Provider reference
- Lot or Serial No.
- Patient
- Center and intervention date

Modernization Project in the Economic-Finance Department

¿For who do we track ?

This information has to be transferred to:

- Medical Record.
- Patient.
- Provider.
- Prosthesis Community Registry

Modernization Project in the Economic-Finance Department

Current tracking tools

We track when :

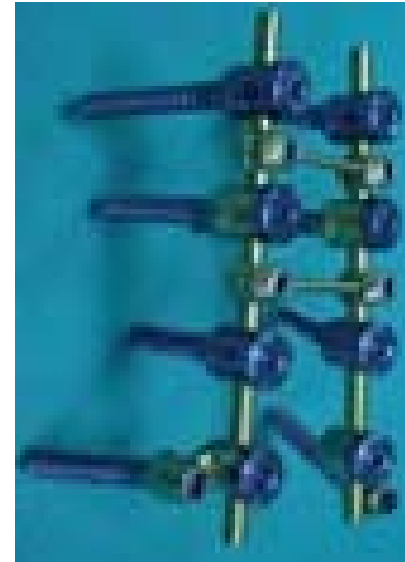
- on expedition call.
- on confirmation reception
- when we read a GS1 code from OR stock entry to prosthesis implant
- Delivery Rack Input/Output with GS1-128 code capture

Modernization Project in the Economic-Finance Department

¿From the implant intervention?



Spine fixation



Bars and screws

Modernization Project in the Economic-Finance Department

Results

- Better than expected.
- Little errors when we track.
- More difficult in combined spine implants.
- More difficult in low tracking surgical areas (plastic surgery, neurosurgery, etc..)

Modernization Project in the Economic-Finance Department

¿WHY GS1?

- Eases to legal fulfillment
- **Delivers patient safety**
- Improves logistics
- Improves cost assignment
- Improves information transmission

Modernization Project in the Economic-Finance Department

Prosthesis safety

- Tracking allows to know all the prosthesis process from production to patient implanting.
- In case of defective prosthesis, we can prevent controlling or removing.

Modernization Project in the Economic-Finance Department

Medical prescription safety

- The most frequent and fatal incident in hospitals is medical prescription errors. In US hospitals causes about 7.000 deaths yearly* , even more than breast cancer.

* Starfield B. Medical Errors - A Leading Cause of Death. JAMA Vol 284, No 4, July 26th 2000

Modernization Project in the Economic-Finance Department

¿WHY GS1?

- Eases to legal fulfillment
- Delivers patient safety
- **Improves logistics**
- Improves cost assignment
- Improves information transmission

Modernization Project in the Economic-Finance Department

Logistics improvements

- Product replacement through consumption capture
- Warehouse In&Out tracking
- In the Food Sector we track bottles, fruits...

In the Healthcare Sector, do we track our products?

- In the Food Sector: “No code, no deal”

Modernization Project in the Economic-Finance Department

¿WHY GS1?

- Eases to legal fulfillment
- Delivers patient safety
- Improves logistics
- **Improves cost assignment**
- Improves information transmission

Modernization Project in the Economic-Finance Department

Costs assignment

- We may assign the product to patient, surgical unit, medical department, doctor...
- It allows clinical process costing
- Cost differences by case, doctor, service, center...

Modernization Project in the Economic-Finance Department

¿WHY GS1?

- Eases to legal fulfillment
- Delivers patient safety
- Improves logistics
- Improves cost assignment
- **Improves information transmission**

Modernization Project in the Economic-Finance Department

Electronic Data Interchange

- Implant card
- Order
- Expedition call
- Reception confirmation
- Invoice or AutoInvoice

Modernization Project in the Economic-Finance Department

EDI at ICS

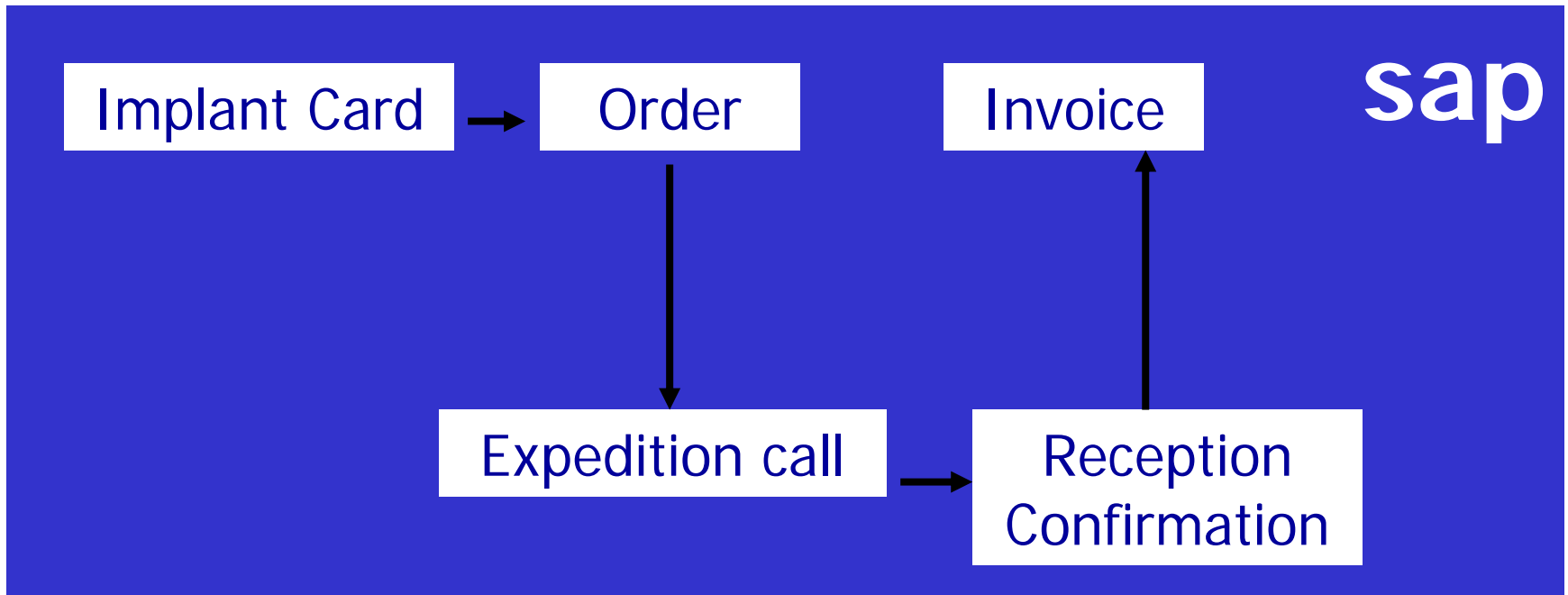
Currently orders from 50 providers are EDI generated for Bellvitge and Tortosa Hospitals and Log@ritme, with their associated centers:

- Vall d' Hebron Hospitals
- Germans Trias de Badalona
- Joan XXIII de Tarragona
- Arnau de Vilanova de Lleida

Modernization Project in the Economic-Finance Department

EDI at the final project fase

Same messages generation throughout the system



Modernization Project in the Economic-Finance Department

Immediate Goals

- Track all implants
- Track high risk health products
- Track laboratory products
- Track high cost health products
- Track drugs as stated in new regulation

Mid-term Goals

- Track all health products

Modernization Project in the Economic-Finance Department

In case we have convinced to you (1)

- You will GS1-label your products
- Our customers will be safer
- Our organizations will be more efficient
- You will receive our orders in your IT systems.

Modernization Project in the Economic-Finance Department

In case we have convinced to you (2)

- We will receive your expedition calls
- We will send our reception confirmation
- You/We will invoice
- You will receive our money faster...

For any information request

**PROCUREMENT MANAGEMENT AND
DISTRIBUTION POLICIES**

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