



Results of the efficiency models in the Andalusian Health Service Supply Chain

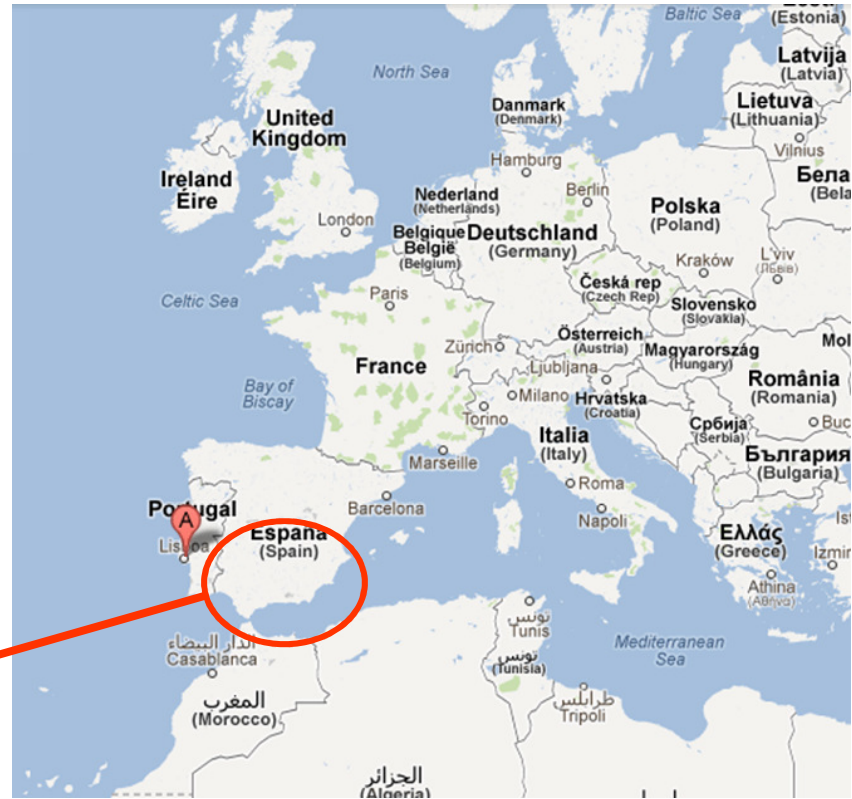
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Andalusian Health Service



ANDALUSIA GEOGRAPHIC SITUATION

Area: 87.597 Km².
Inhabitants: 8.059.461



ANDALUSIAN HEALTH SERVICE (SAS) NUMBERS

CENTERS	
HOSPITALS	29
HEALTH CENTERS	1.514
MANAGEMENT AREAS	9

STAFF	
HOSPITALS	62.132
HEALTH CENTERS	22.636

BUDGET 8.602 M€



Establish a sustainable model in order to:

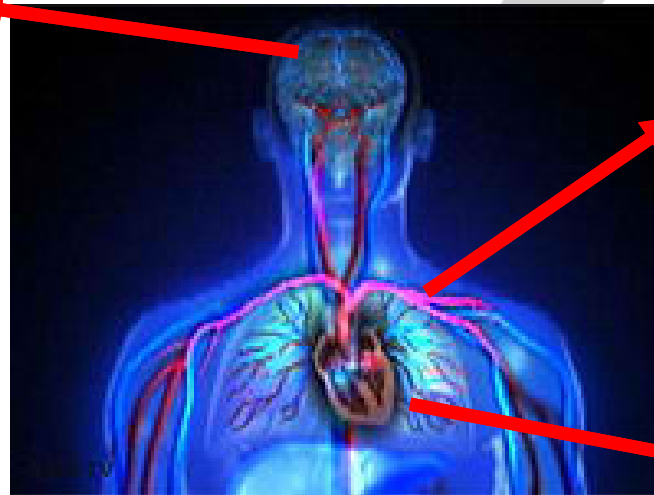
- Increase patient security.
- Increase logistic service level of the healthcare activity
- Reduce Supply Chain global cost



PURCHASING MODEL

The Andalusian Health Service Purchasing model is:

- Dynamic
- Used for all the healthcare centers of Andalusia
- Regularize the supply and the demand
- It offers professionals all the corporative tools to achieve this process.



Corporative Management Strategic Lines:

1.- To add the steps of the logistic process:

Integral Logistics Provincial Platforms

2.- **To organize the purchase process:**

Catalogue

Normalize the public procurement

Integrated Purchase Planning

3.- **Professionals Involvement:** Spend Agreement, Technical Commissions, work groups.

4.- Develop and implant the information system: **SIGLO** (Integral System of Logistic Management)



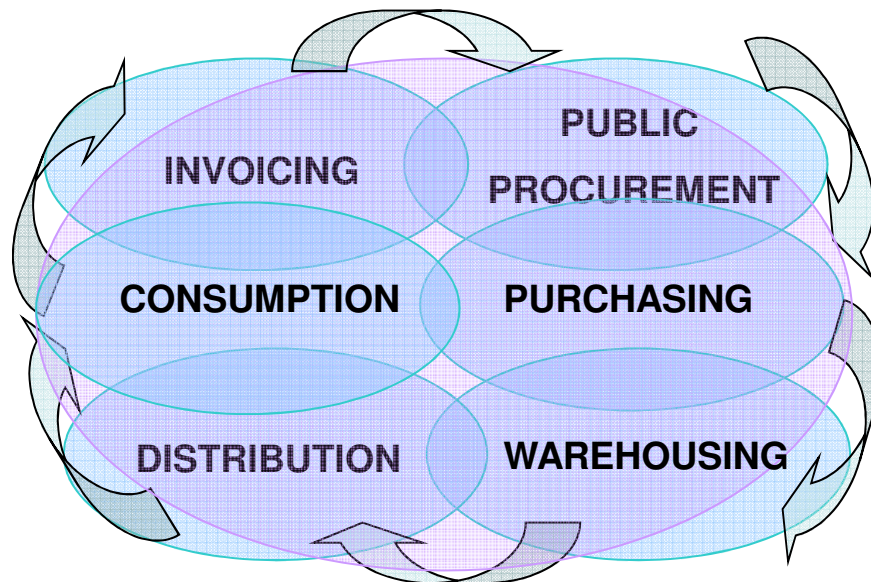
1.- PROVINCIAL PLATFORMS

In 2009 the logistic map was evaluated in an internal cost analysis:

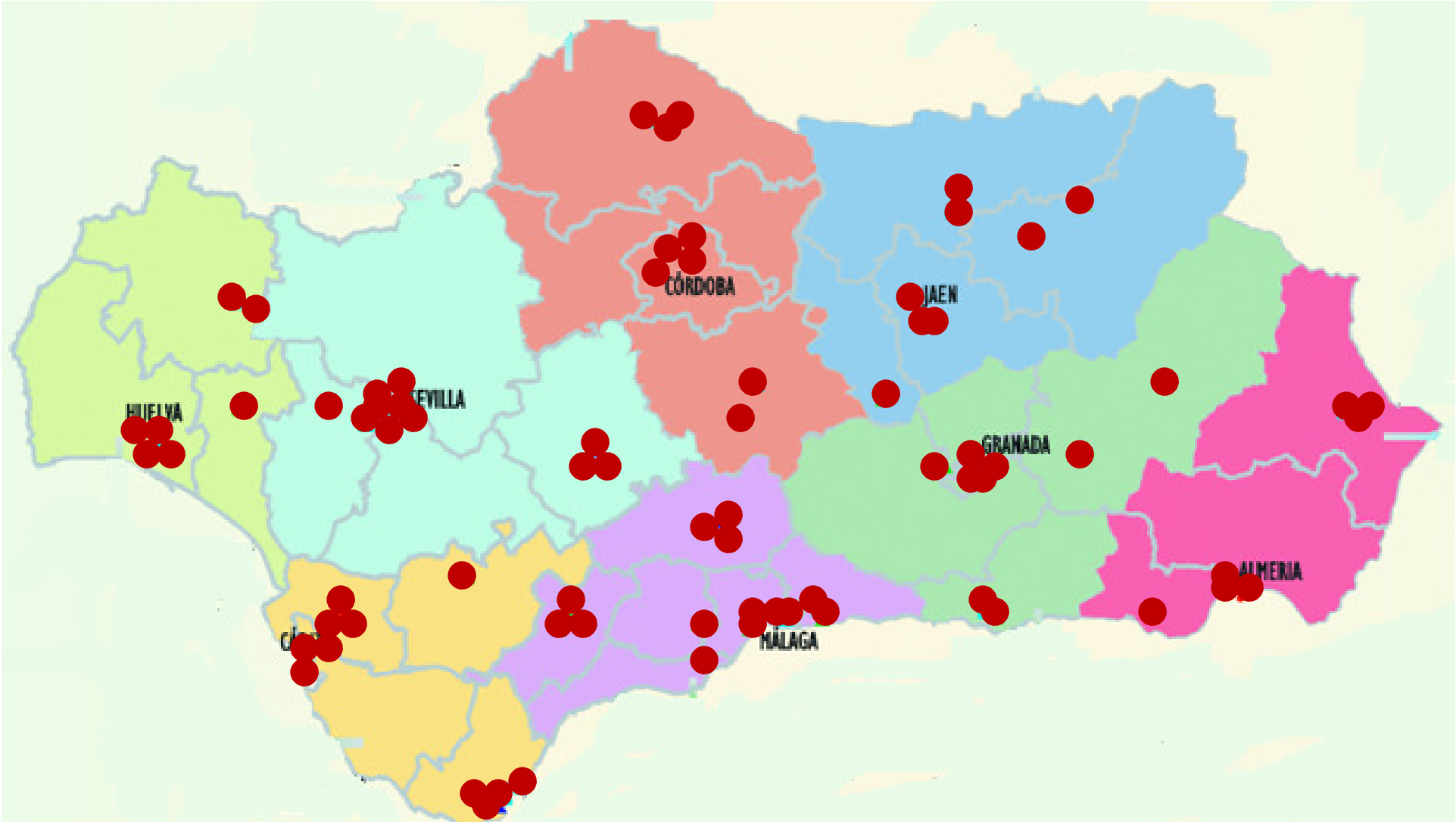
- Staff
- Distribution
- Warehousing



And it was decided to add all the steps of the logistic process in 8 provincial platforms:



1.- PROVINCIAL PLATFORMS

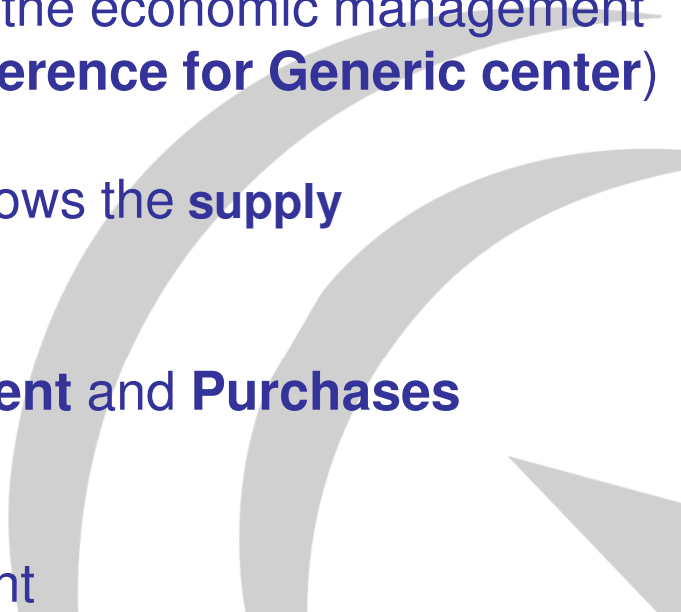


1.- PROVINCIAL PLATFORMS

ADVANTAGES ...

- Better purchasing **prices** and general **conditions**.
- Encourage **modernization of warehouses** and distribution
- **Reduction** of official acts and **bureaucracy** with easier procedures as the **European Directive** requires.
- **Rational use of the sanitary products**, unification of criteria in the consumption of articles by professionals agreement

2.- ORGANIZATION OF PURCHASING PROCESS

- The goods and services **Catalogue** shows the **demand**
 - Generic Center (**only one internal code in SAS: 122.496**)
 - Expansion of the **scope to all** the economic management
 - **Provincial Alignment (one reference for Generic center)**
 - The goods and services **Bank** shows the **supply (404.120 products)**
 - Normalize the **Public Procurement and Purchases** Integrated Planning
 - Spend Agreement management
- 

3.- INVOLVEMENT OF PROFESSIONALS

The model promotes the active participation of the professionals and their **co-responsibility in the economic sustainability**.

Looking for their participation with:

- Spend Agreement
- Technical Commissions,
 - Provincials
 - Regional
- Involvement in work groups



To implant SIGLO has supposed:

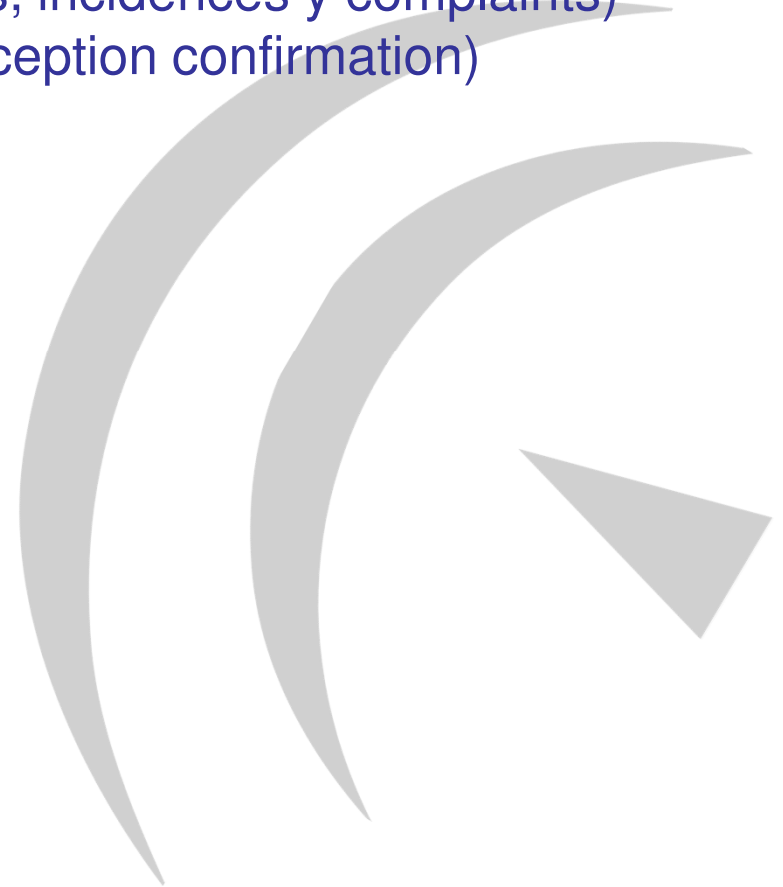
- Redefinition of the whole logistic process from suppliers up to patients realized by a group of experts from our centers.
- Adopting the best practices and optimizing the processes.
- Centralized and standardized information, shared for all the stakeholders of the supply chain

IT'S IMPLANTED IN ALL THE PROVINCES SINCE OCTOBER!

SIGLO for suppliers :

External manager in the Suppliers Centre:

- External orders (contacts, orders, incidences y complaints)
- Warehouse (entered register, reception confirmation)
- Healthcare consignment
- Invoicing (register of invoices)



And with the implantation of SIGLO, the **GS1 Standard** system:

Goods Management: Automatic identification and data capture
EAN-UCC (GS1)

- Product **Traceability, safety** for patients and professionals

Document Management: Electronic Data Interchange in the commercial transactions **EDI**.

- ORDERS
 - DESADV (Despatched advice)
 - RECADV (Reception advice) (72 working hours)
 - INVOIC With electronic signature
- 

And for GS1 Standard system adoption :

- Technical Commission of Purchasing and Logistics (CTCL)
www.ctcl.es
 - Work Group Traceability
 - Work Group EDI
- GS1 Spain
- GS1
- EDICOM



4.- SIGLO - GS1 IDENTIFICATION SYSTEM

2005

- Collaboration Agreement with GS1 Spain
- Hospitals work team analyzed:
 - SAS needs
 - Current Codification status of the Health Sector.
- **Mandatory Codification and Symbol Requirements Document.**

2005- 2012

- Training and support to our staff and suppliers.
- Logistic attributes based on GS1 Standards were introduced by the suppliers in our Data Base for **306.975** products
- Validation Match of symbol and Data Base Logistic attributes information
- Participation GS1 Spain Work teams and Spanish Health Services work teams to unify criteria

4.- SIGLO - GS1 IDENTIFICATION SYSTEM

CATALOGUE

Scope : All kind of goods and services:

- **122.496** Articles. Example: Blue Ballpoint

BANK

- **404.120** Products: Information introduced by the suppliers.
(Brand, model, reference, GTINs, photo....)
 - GTIN information: **306.975** products



4.- SIGLO - GS1 IDENTIFICATION SYSTEM

Información Logística :: - Microsoft Internet Explorer

Código SAS:	01.11.01.200000 EQ. CAMPOS QUIRURGICOS UNIVERSAL STANDARD
CIP:	100000657540
Empresa asociada al producto:	MÖLNLYCKE HEALTH CARE S.L.

Estructura EAN	
7310796993404	
7310791043371	
7332430009142	
7332430417541	
Código EAN: 7332430009142	
Número de unidades del nivel anterior contenidas en la agrupación:	2
Número total de unidades de consumo contenidas:	14
¿Es unidad de pedido?:	Si
Tipo de embalaje:	Caja
Instrucciones de manipulación:	Almacenar en lugar fresco, oscuro y seco
Fecha inicio disponibilidad:	N/D
Fecha fin disponibilidad:	N/D
DIMENSIONES DEL ENVASE O EMBALAJE	
Peso bruto:	15,190
Unidad de medida de peso:	Kilogramos
Anchura:	391,000
Altura:	460,000
Profundidad:	596,000
Unidad de medida de longitud:	Milímetros

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4.- SIGLO - GS1 IDENTIFICATION SYSTEM

All of the hospitals have a warehouse which manages the consumer unit with the automatic capture of GS1 symbols



4.- SIGLO - GS1 IDENTIFICATION SYSTEM

When in healthcare?

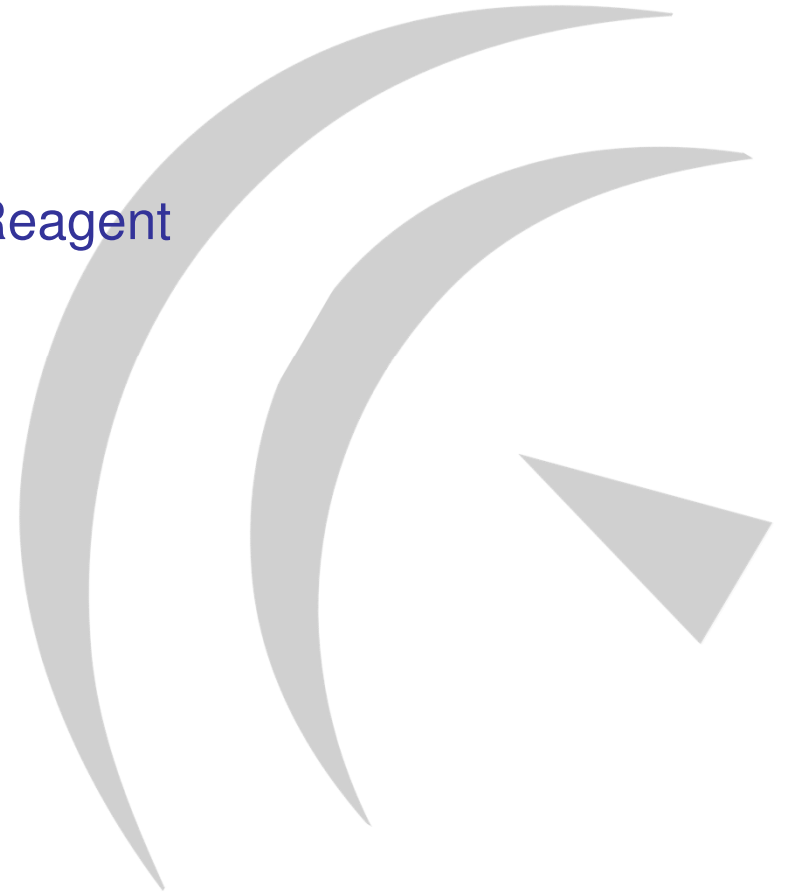


Mandatory use of EDI

At 1st January of 2013 for:

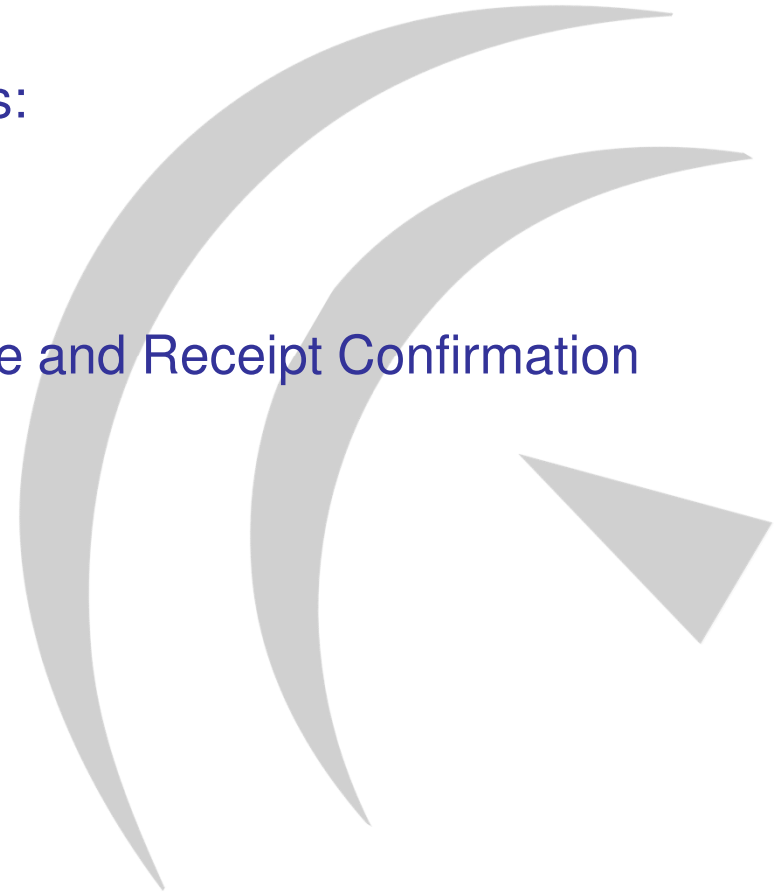
- Medical devices
- Implants
- Medicines

And 1st April 2013 for Diagnosis Reagent

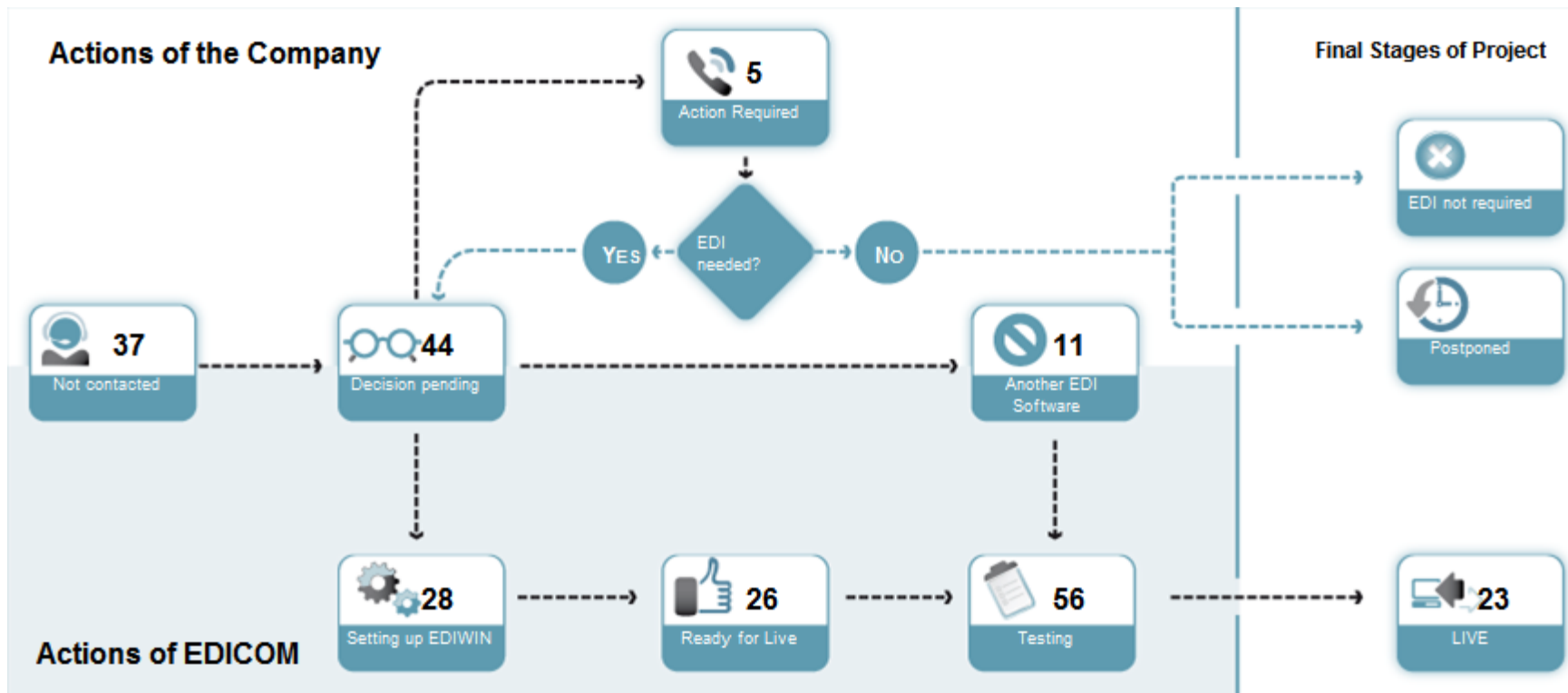


Requirements

- Identification of products with GTIN
 - Codes information in our Data Base
 - GS1 symbols in the packaging
- Identification of suppliers with GLN
- Implementation of **all** the messages:
 - ORDERS (**Price**, by sales unit)
 - DESADV with SSCC (00)
 - RECADV (72 hours)
 - INVOIC with electronic signature and Receipt Confirmation
 - GENRAL
- Complete the EDI Test Plan



4.- SIGLO - EDI

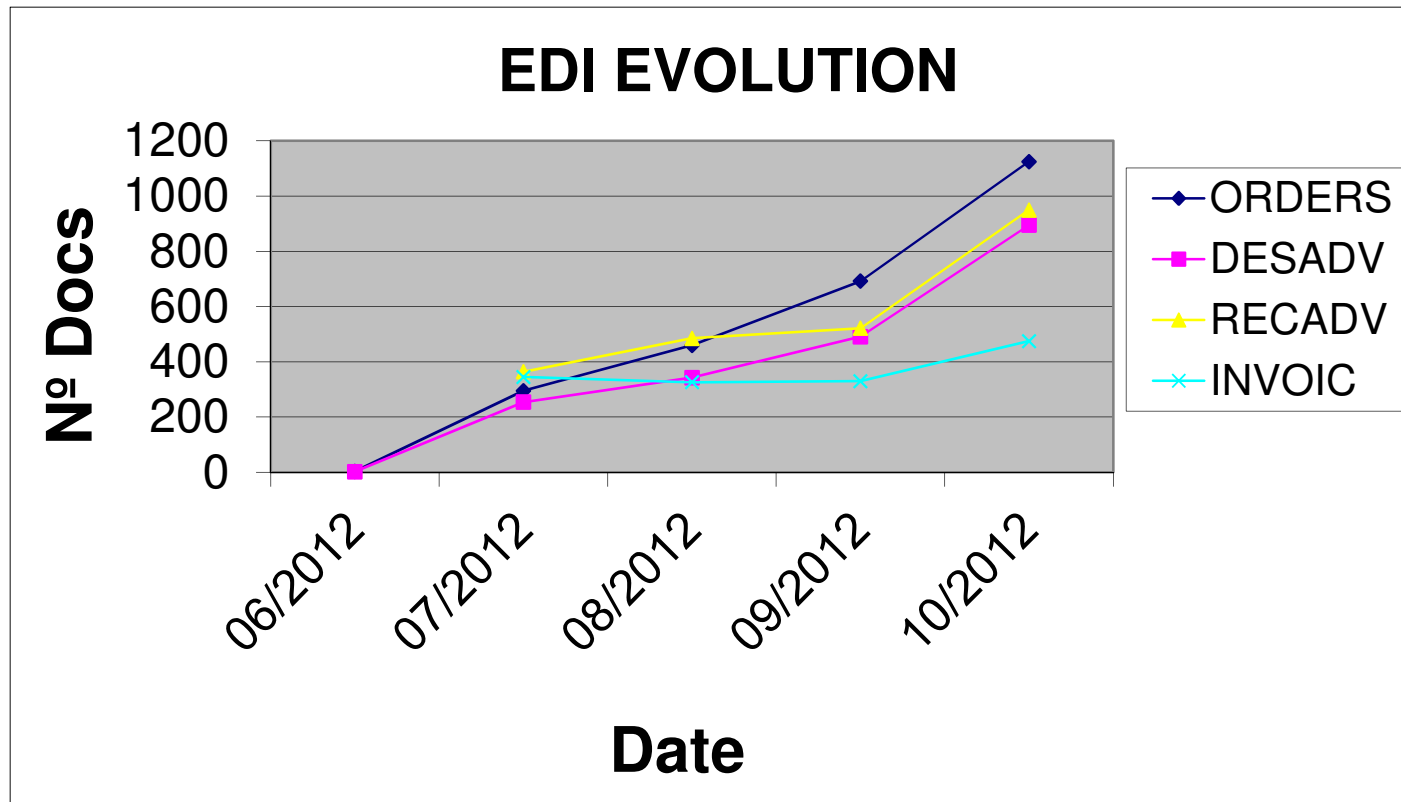


Currently

23 suppliers live

56 suppliers in tests

144 prepared to start test



Critical points in the implantation of SIGLO:

- **Catalogue of all the articles** in the Goods and Services Catalogue scope.
 - **Centers adaptation** to the design of
 - New management structures: **Provincial Platforms**
 - Logistic management of **consumer warehouse**.
 - Logistic management of **consignment**.
 - **Reception confirmation**.
 - **Spend Agreement** management for **all** the catalogue
 - Technical and economic **offers** only **managed by suppliers** (Open zone of the Bank)
 - Delivery **deadlines** delays control
 - **Corporative control panel**.
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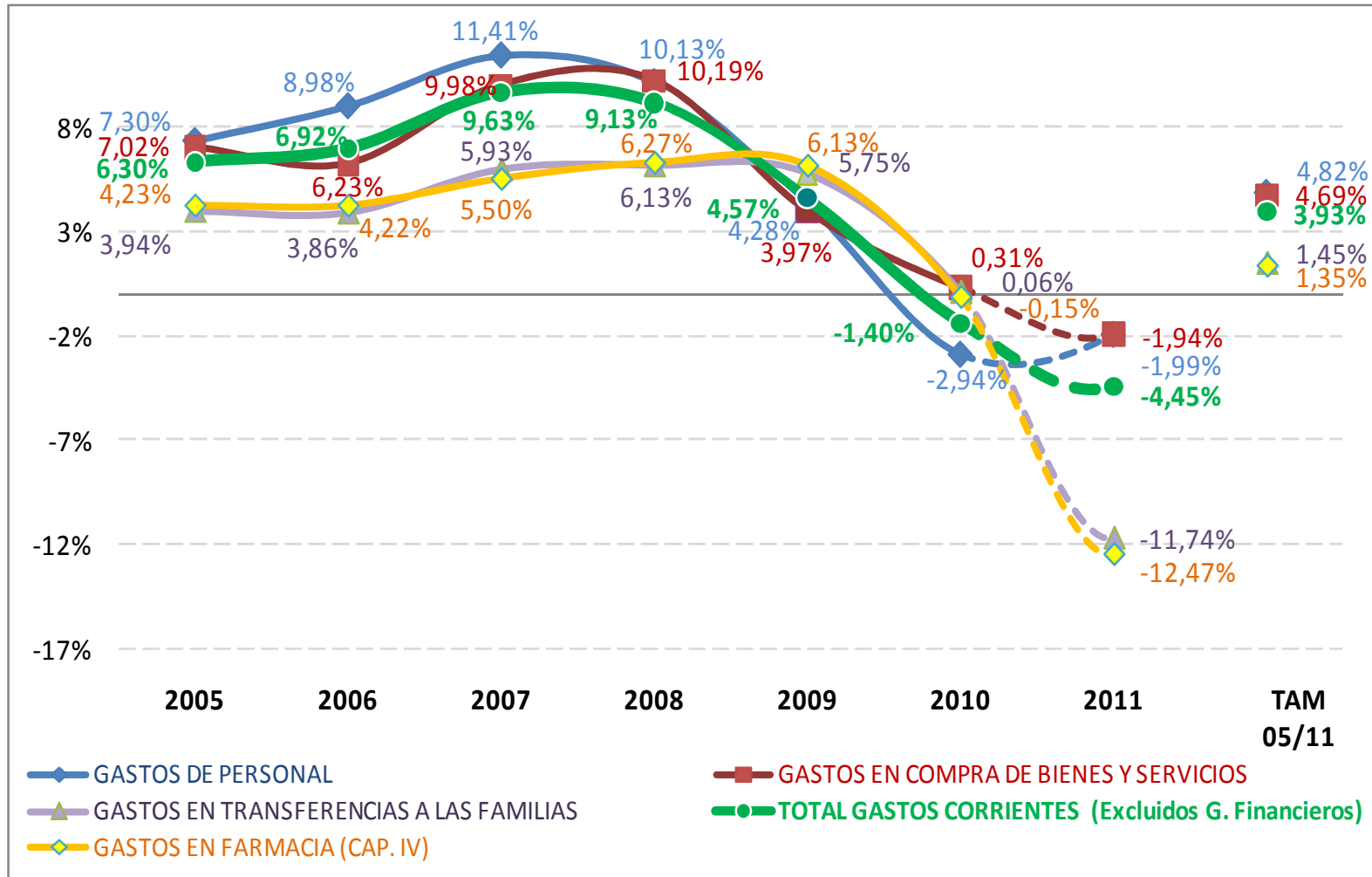
The implantation of the Integral System of Logistic Management (SIGLO) as the corporative tool for economic management, eliminating the 68 initial local systems has supposed:

Optimization, Safety, Standardization, Transparency, Simplification, Order, Corporative Information, Modernization, **International Standards used**, key questions management, Economic Savings, Professionalization,...

And overall a **CULTURAL CHANGE, A NEW LIFE**

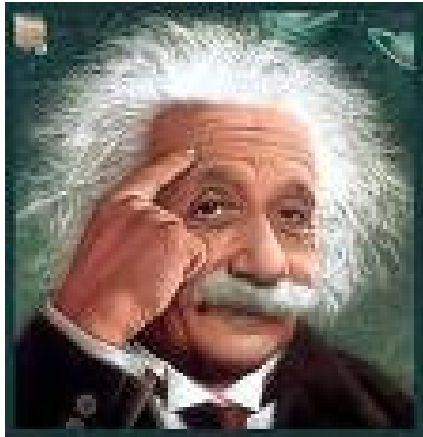


RESULTS



“There is a motive force that is more powerful
than steam, electricity or atomic energy:
will power.”

Albert Einstein





JUNTA DE ANDALUCÍA
CONSEJERÍA DE SALUD

MOITO OBRIGADO!