Experience using SNOMED CT in Electronic Medical Record solutions in Uruguay

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SNOMED CT EXPO 2015

Agenda

- About us
- Current projects
- Requirements
- Summary

K2BHealth: technological and business evolution
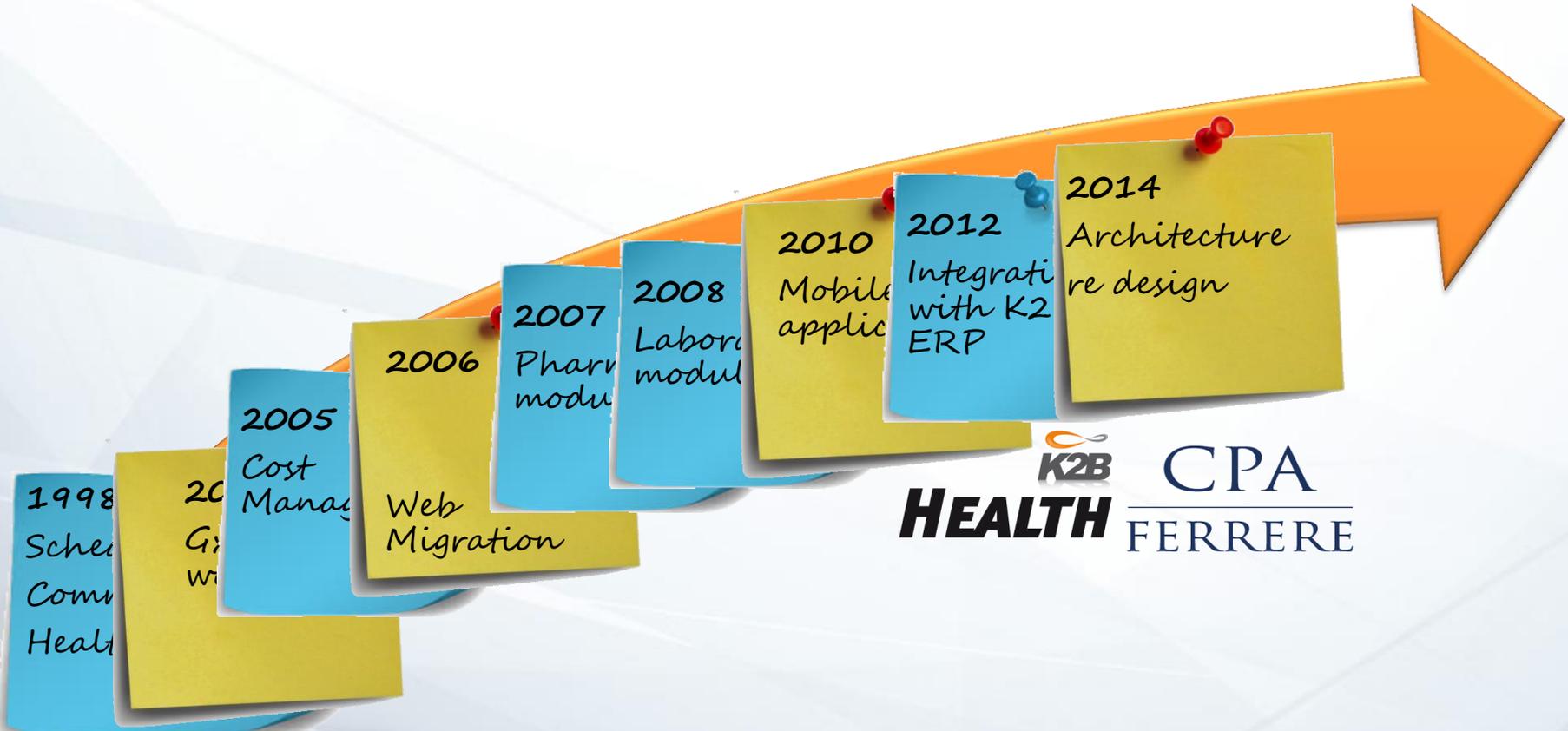
K2BHealth: today

K2B Health

CPA FERRERE

Asociación Española

Oncological Electronic Health Records

HCE·O

Asociación Española

|			
+180.000 members	**20 clinics and head clinic**	**+20 systems**	**+3.000 doctors**

Project Objectives:

- 100% EHR at all levels of assistance
- Pharmacy with 100% electronic prescriptions

Asociación Española Project

Pharmacy	Appointments	Consultations at other levels	Pathological Anatomy
Laboratory	Consultations	Consultations in external clinics	Imaging
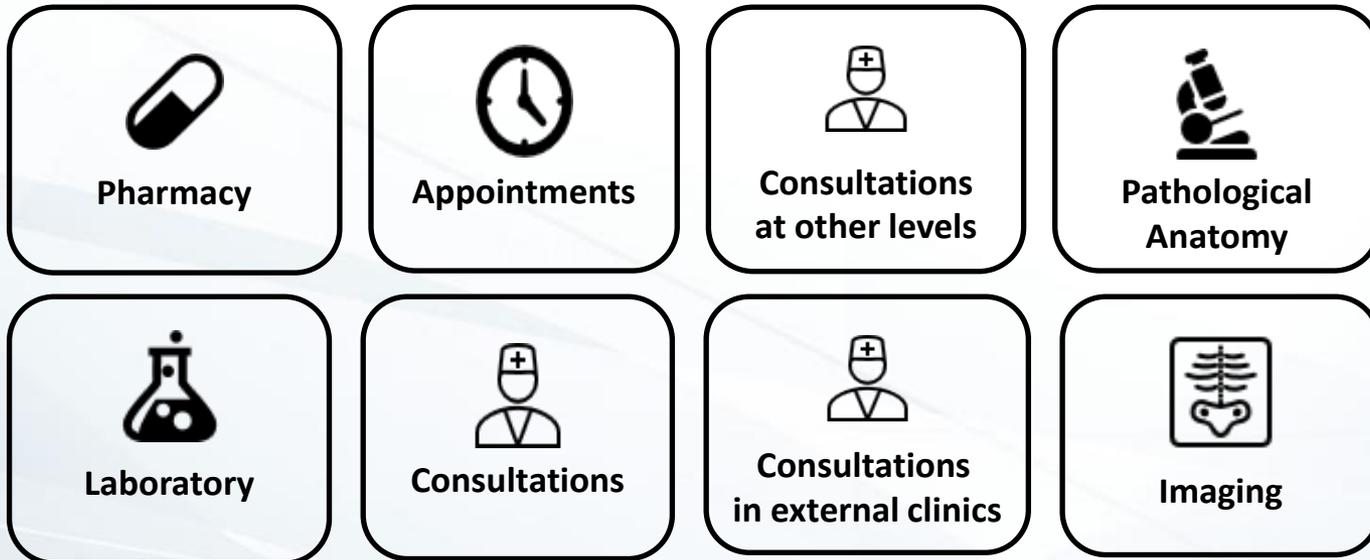
⊘ Electronic prescriptions ⊘ Interoperability

O-EHR
Oncological Electronic Health Records

| National Scope	180 Oncologists	CHLCC	Salud UY

Project Objectives

- Implementing a specialized EHR at a national level
- Centralizing the clinical information of all the oncological patients in Uruguay
- Becoming part of the Uruguayan health platform

O-EHR
Oncological Electronic Health Records

HCE·O

Asociación Española

Institution X

✓ Interoperability

✓ Salud UY requirements
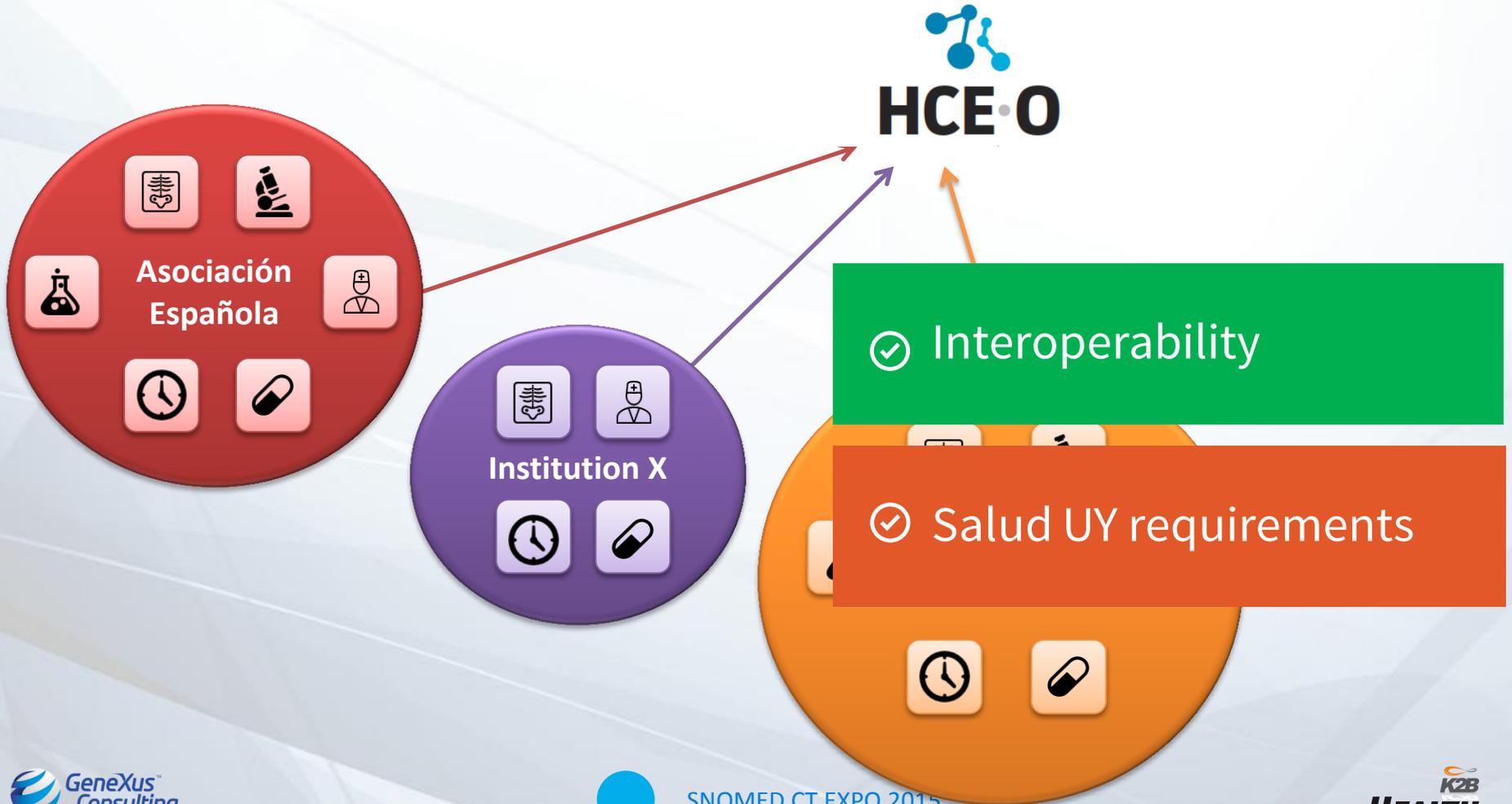
O-EHR & Asociación Española requirements

- ⊘ Salud UY Requirements

- ⊘ Interoperability

- ⊘ Electronic prescriptions

Salud UY Requirements

CDA | **IHE Profiles** | **XDS** | **Terminolgy** | **HL7 Standard** | **EMPI**

GeneXus Consulting

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K2B HEALTH

Requirements

Asociación Española

O-HCE

EHR
Sara López

- Laboratory report
- Ginecological consultation
- Imaging report
- Oncological consultation
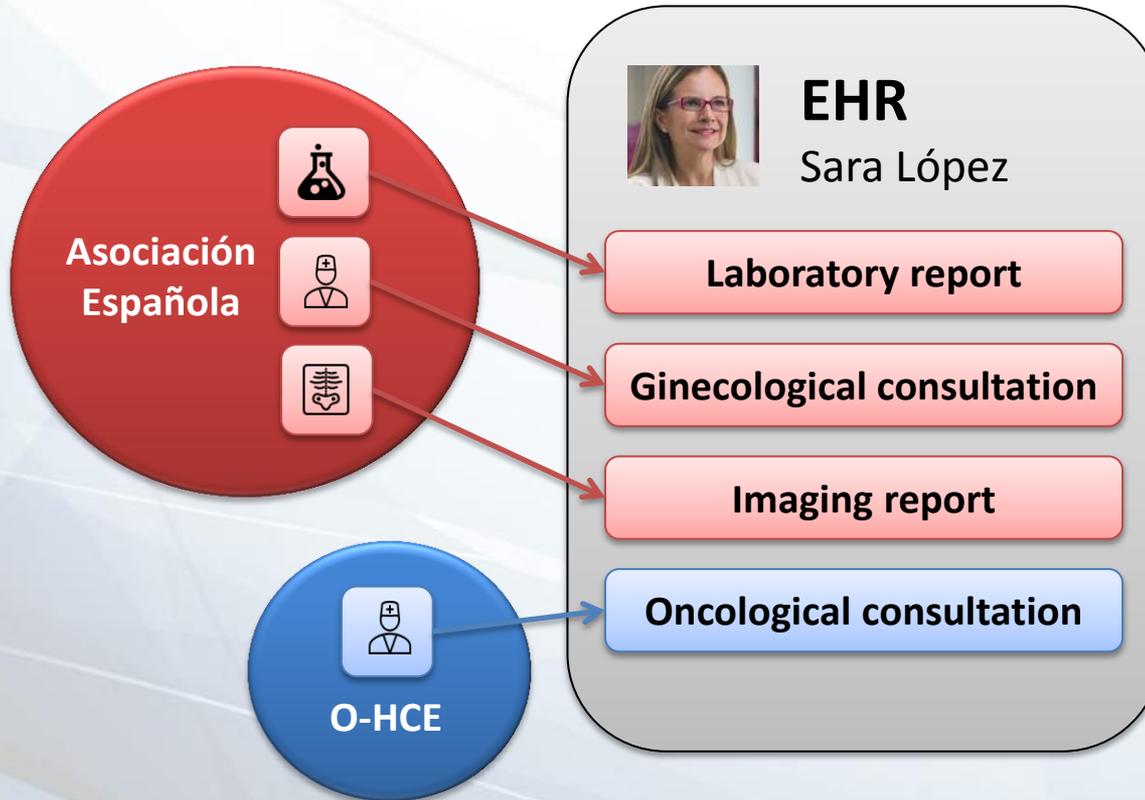
- Definition of a common:
  - Document structure
  - Nomenclatures
  - Classifications
- Mechanism for:
  - Storage
  - Distribution

Document structure

- CDA level 1:
  - Minimal national structure of clinical documents: HL7 V3 CDA-R2
  - Digital signature

```
<ClinicalDocument
    .....
    .....
    <nonXMLBody>
        ....
    </nonXMLBody>

</ClinicalDocument>
```

PDF

Nomenclatures and classifications

CDA

- Type of document classification: **LOINC**
  - Code
  - Values: Defined by Salud UY

- Detailed type of document classification: **SNOMED CT**
  - documentationOf.serviceEvent
  - Values: Defined by Salud UY

Example

Asociación Española

Mammography → CDA →

LOINC	18748-4	Diagnostic Imaging Study
SNOMED CT	4231000179109	Informe de Mamografía

O-EHR

| | Todas ▼ | fecha desde / / 🗓 | hasta / / 🗓 |

Todas
Consultas
Anatomía patológica
Cirugía
Imageneología
Laboratorio
Otras paraclínicas

01/10/15 - Informe de Mamografía

Ver informe

Nomenclatures and classifications

- Diagnosis:
    - Terminology Server of HIBA

SNOMED CT
ICD-10

Clinical documents storage

XDS Profile

Signed CDA

XDS Repository

Document is stored

XDS Registry

Metadata

Typecode: **SNOMED CT**

Classcode: **LOINC**

HL7 Standard

EHR

HL7 v2.x message

ESB

Laboratory

Appointments

Pharmacy
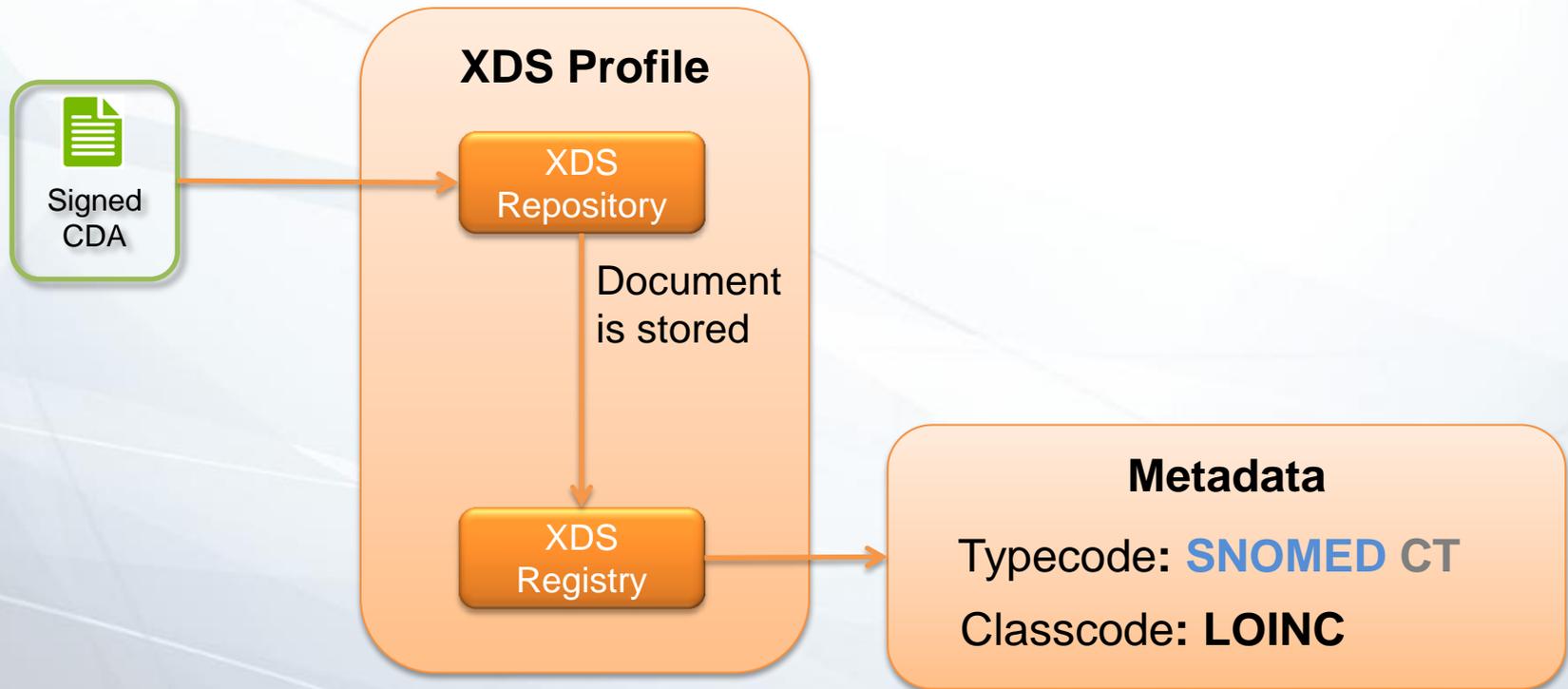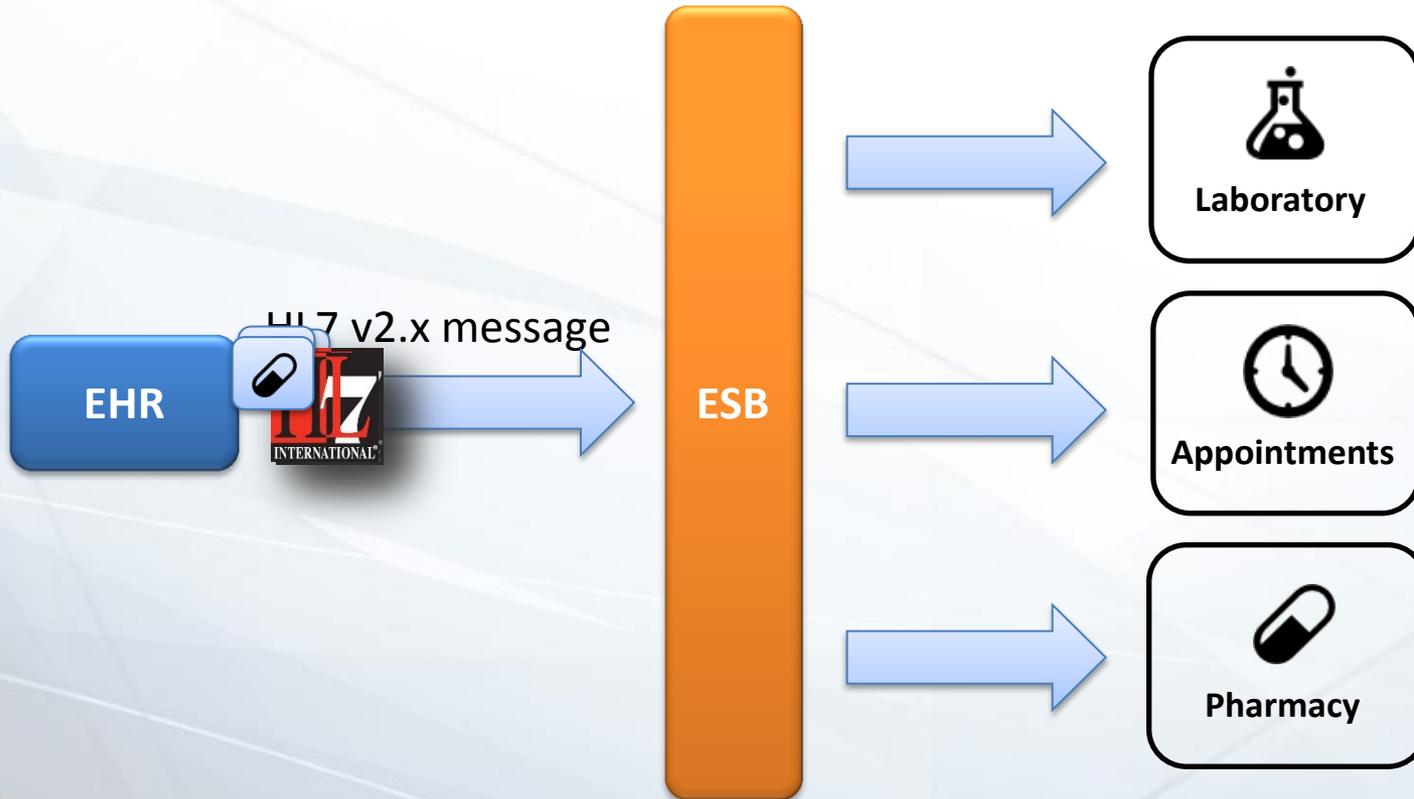
Summary

- Experience with **SNOMED** **CT**

- Importance of interoperability

- In the process of:
  - Licensees of the Uruguayan Extension of SNOMED CT

THANK YOU FOR YOUR ATTENTION

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