

# Clinical Dictionary for iSalut

29th-30th October

SNOMED CT Expo 2015

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# Introduction

## The Public Catalan Health System

- Around **7.500.000** citizens.
- More than **100.000** professionals.
- **70** Hospitals.
- **421** Primary Care centres.
- **240** Mental Health centres.
- **140** Social & Health centres.
- **3.151** Pharmacies.



# Introduction

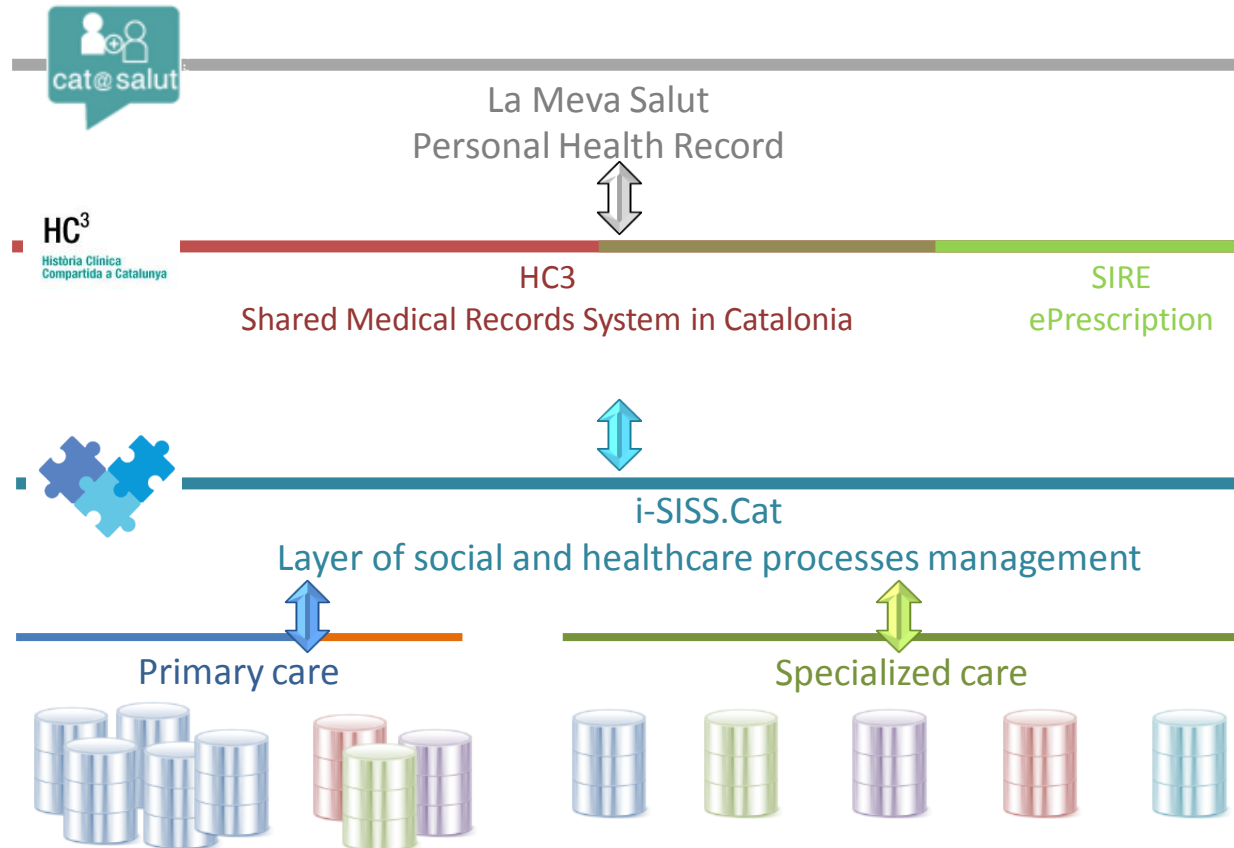
## TicSalut Foundation

- Is an agency within the Ministry of Health of Catalonia.
- Makes focus on the **deployment of digital health** in the Catalan Health System.
- Acts as an **observatory** for new trends, innovation and monitoring of emerging initiatives.
- Provides **services for the standardization** and accreditation of services and products.

# Introduction

## ICT strategy of the Ministry of Health of Catalonia

Clinical Dictionary for iSalut



# Clinical Dictionary

- Aims to **standardize** the controlled vocabulary used in Catalan Health System:
  - Focusing on the **exchange** of information.
  - Using one single **conceptual model**.
  - **Keeping** other vocabularies currently in use.
  - **Relating** concepts of different domains, sources and representations.

# Clinical Dictionary

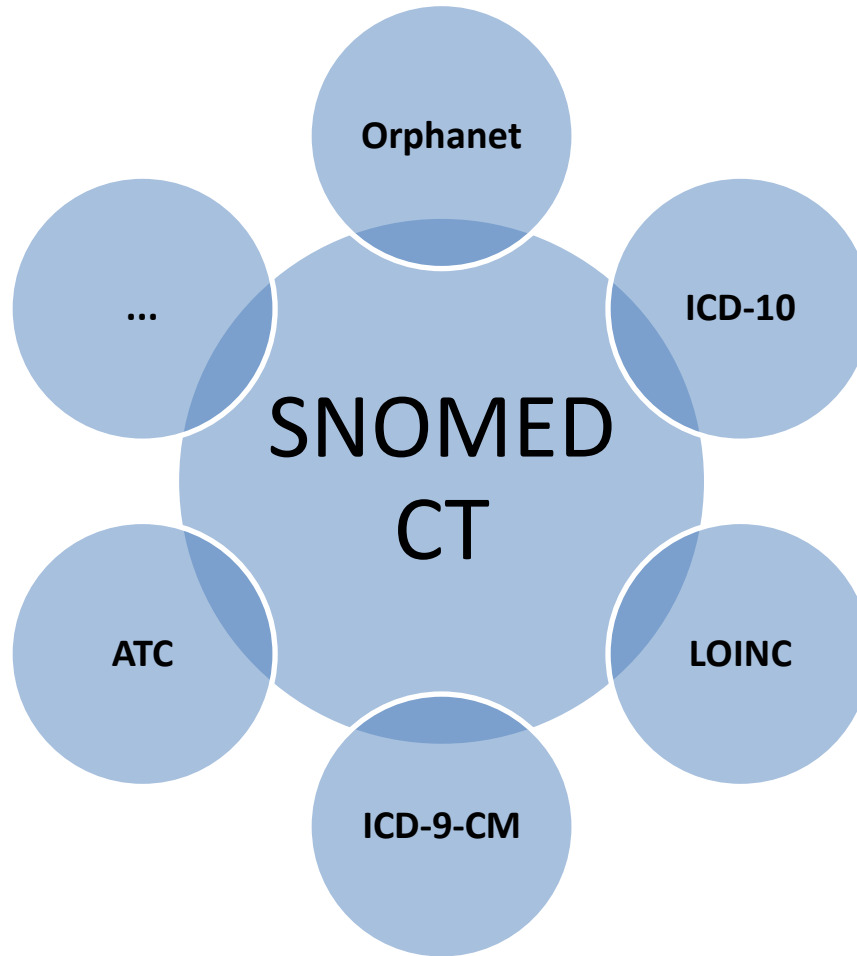
- Is a transversal project of the Ministry of Health of Catalonia:
  - Led by the **OFSTI**.
  - And managed by a **permanent commission**.
  - Is organized in domains of content, each of them are worked by a **multidisciplinary team** of experts.

# Clinical Dictionary

- Uses **SNOMED CT** as **reference terminology** and **ontology** of representation:
  - The concepts of each domain are grouped in **RefSets**.
  - These RefSets are created following a **standard methodology** developed by the OFSTI.
  - Other controlled vocabularies are **mapped** to SNOMED CT.
  - All new needed components and mechanisms are created in the **Catalan extension**.



# Clinical Dictionary



# Worked domains

We have worked on **13 domains** developing near **40 subsets** and creating more than **2500 concepts** of SNOMED CT as part of the Dictionary:

	2011	2012	2013	2014	October 2015	Total
Worked Domains	1	2	6	11	7	13
Created Subsets	1	11	8	17	2	39
Created Concepts	182	2021	61	139	103	2506

2011 - 2015

# Worked domains

New domain

Vaccines

2011

# Worked domains

New domains

Allergies

Anatomic Pathology

2012

# Worked domains

## New domains

Groups of professionals

Procedures

Scales of assessment

Spirometry test report

## Updated domains

Allergies

Vaccines -> Immunizations

# Worked domains

## New domains

Breast screening final report

Clinical Variables

Laboratory

Notification of adverse reactions  
to immunizations

Ophthalmology

WiFIS

## Updated domains

Allergies

Anatomic Pathology

Groups of professionals

Immunizations

Procedures

2014

# Worked domains

Updated domains

Allergies

Anatomic Pathology

Clinical variables

Procedures

Scales of assessment

WiFIS

2015

(October)

# Current work

## Working domains

Types of documents

Procedures

Surgical sheet

Social problems and procedures

WiFIS

## Planned domains

Rare diseases

Pre discharge report





# Current work



PRESENTATION

**CLINICAL DICTIONARY FOR ISALUT**

RESOURCES

CENSUS OF CONTROLLED  
VOCABULARIES

NEWS

## CLINICAL DICTIONARY FOR ISALUT

The Clinical Dictionary for iSalut is a transversal project that has the objective to standardize the vocabulary of SISCAT (Integrated Healthcare System of Public Healthcare Network of Catalonia) to achieve the semantic interoperability between information systems of healthcare providers at different care levels. This interoperability guarantees the data exchange without losing its meaning and allows its representation and automatic and unambiguous interpretation. The final aim is to support the decision-making in the care process.

The basis of the dictionary is the clinical terminology SNOMED CT (Systematized Nomenclature of Medicine Clinical Terms). This standard acts as an ontology, offering an homogeneous base to represent the knowledge. The dictionary contains also other controlled vocabularies which are nowadays used in the SISCAT, both international and local (such as ICD-9-CM, ICD-10, ISCO/CNO, LOINC, etc.), but most of them are mapped to SNOMED CT to ensure semantic interoperability of contents. The dictionary is conformed by different domains that are worked as subsets of SNOMED CT, following the methodology of creating subsets of SNOMED CT defined by CCI and the OFSTI (Office of Standards and Interoperability) of TicSalut.

The Clinical Dictionary for iSalut is managed by a permanent commission that marks the lines of action to follow and the priorities. Each domain is worked by a multidisciplinary team of experts of the Catalan Health System. Thus, the dictionary includes the participation of health care professionals from different centres, programs and institutions. The list of contributors can be found in the domains documentation.

▶ AVAILABLE DOMAINS

▶ OPEN DOMAINS

▶ SCHEDULED DOMAINS

# The Catalan extension

Was created in **2011**

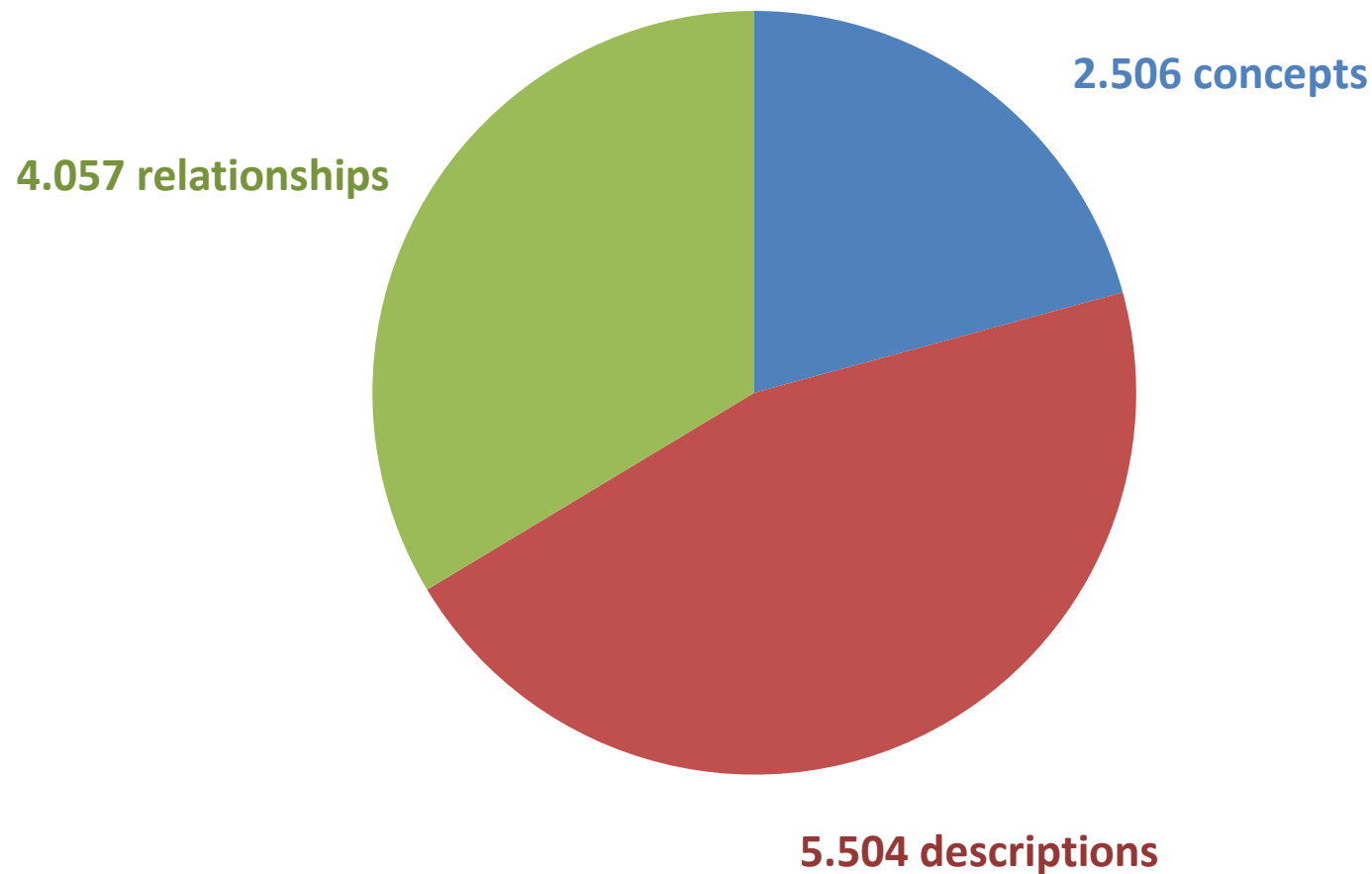
- Is managed and distributed by the **OFSTI**.
- Has the namespace **1000135**.
- The current version is the 5<sup>th</sup> (30-9-2015).
- Includes simplified **Excels** with subsets and **documentation** (guides and memories).

# The Catalan extension

Is distributed in RF1 format:

- Has its own **history mechanism**.
- New descriptions are created in Spanish and we are working with our **NRC** to translate it into **Catalan**.
- The main subsets are groups of **concepts** but we have made subsets of descriptions to indicate **preferred descriptions**.

# The Catalan extension



2015

(October)

# Thank you



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**TicSalut**  
Tecnologia, innovació i salut