

## 1 - Collection

### Hospital Information System

Billing codes

Administrative data

Drug prescriptions

Drug administrations

Physiology

Imagery

Laboratory measures

Emergency software

Nurse forms

Texts

## 2 - Transformation

### Clinical Data Warehouse

Replicates of production databases

Central Data Base

Integration of sources  
Deduplication  
Standardization  
Pseudonymization

## 3 - Provisioning

Study Datasets

Management Datamarts

Applicative Datamarts

## 4 - Usages

Cohort creation

Vizualization tools

Coding environment

Other applications