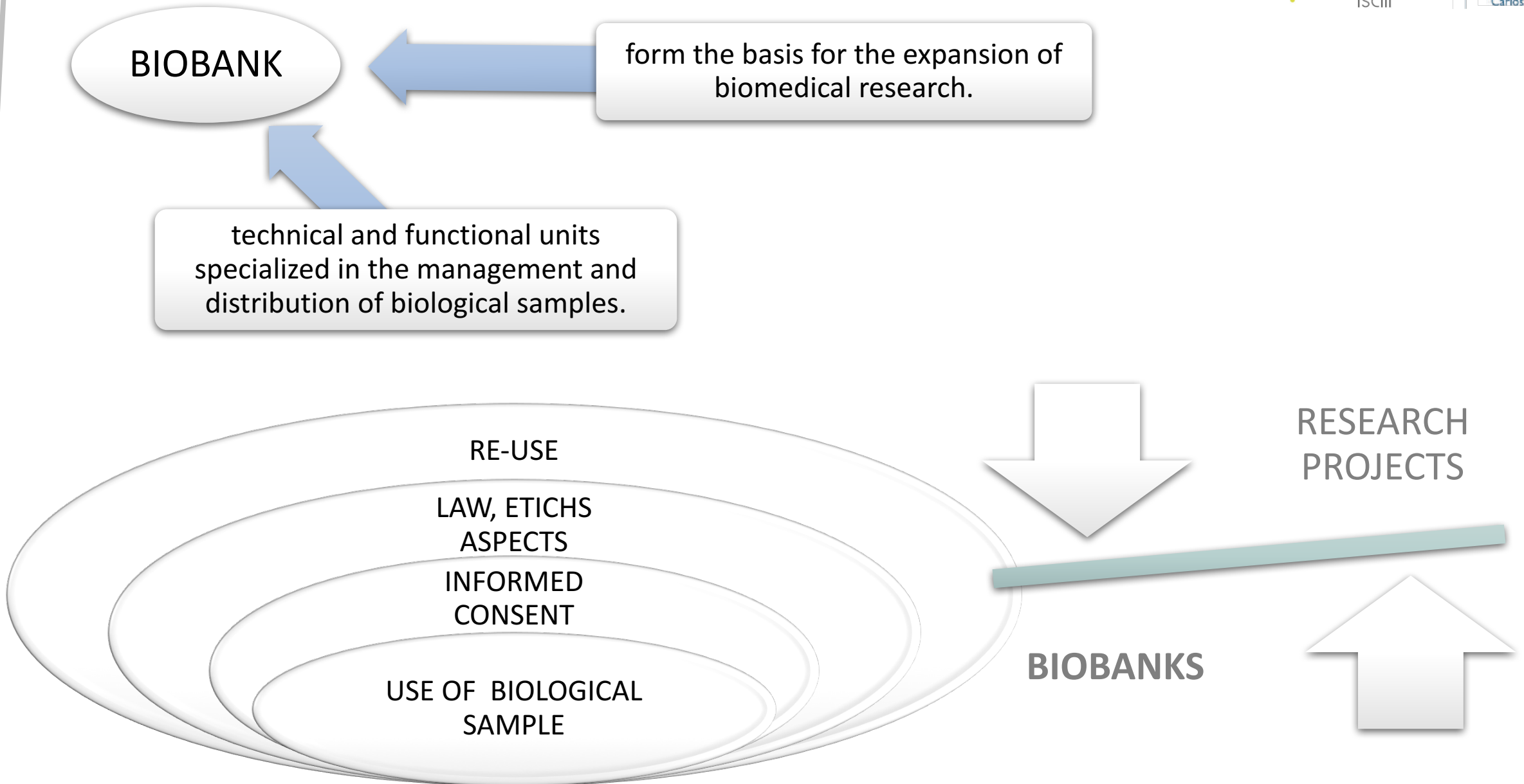
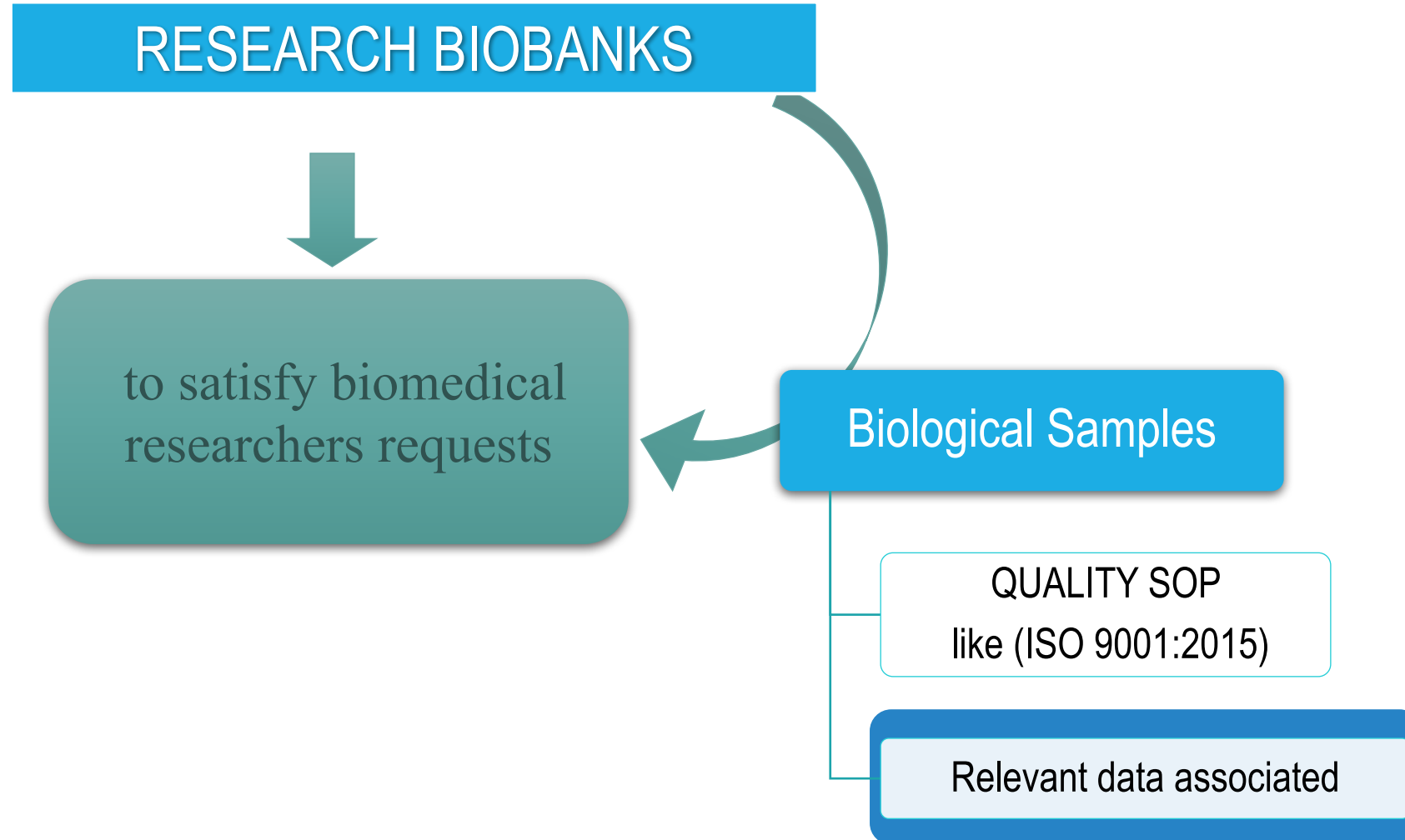


# Implementation of SNOMED CT in Biobank Networks as the basis for development of biomedical research of excellence

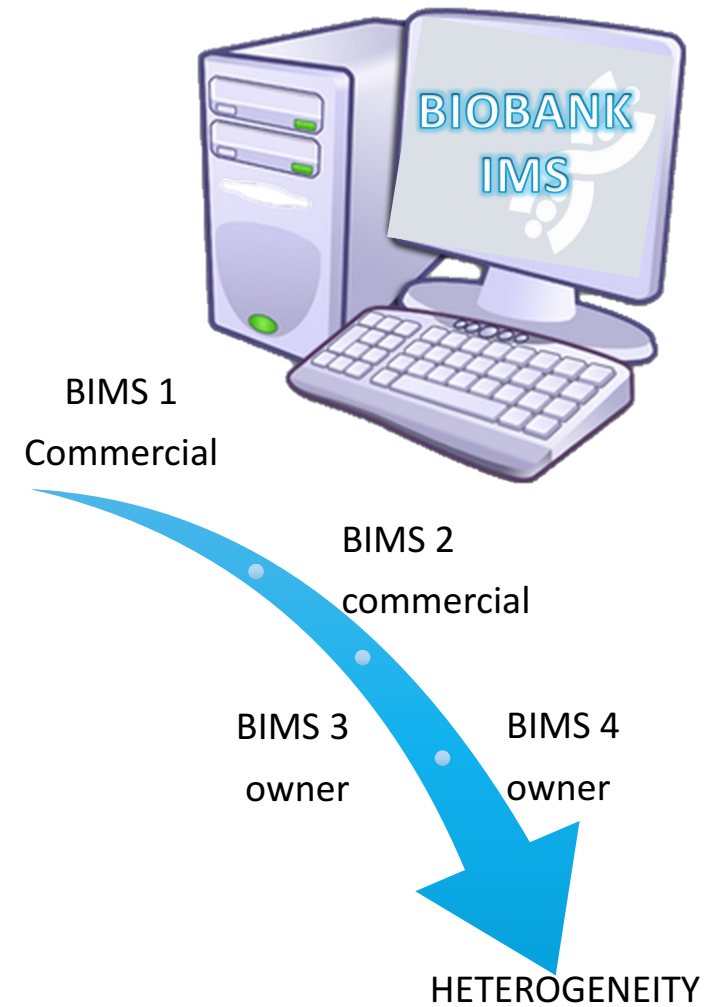
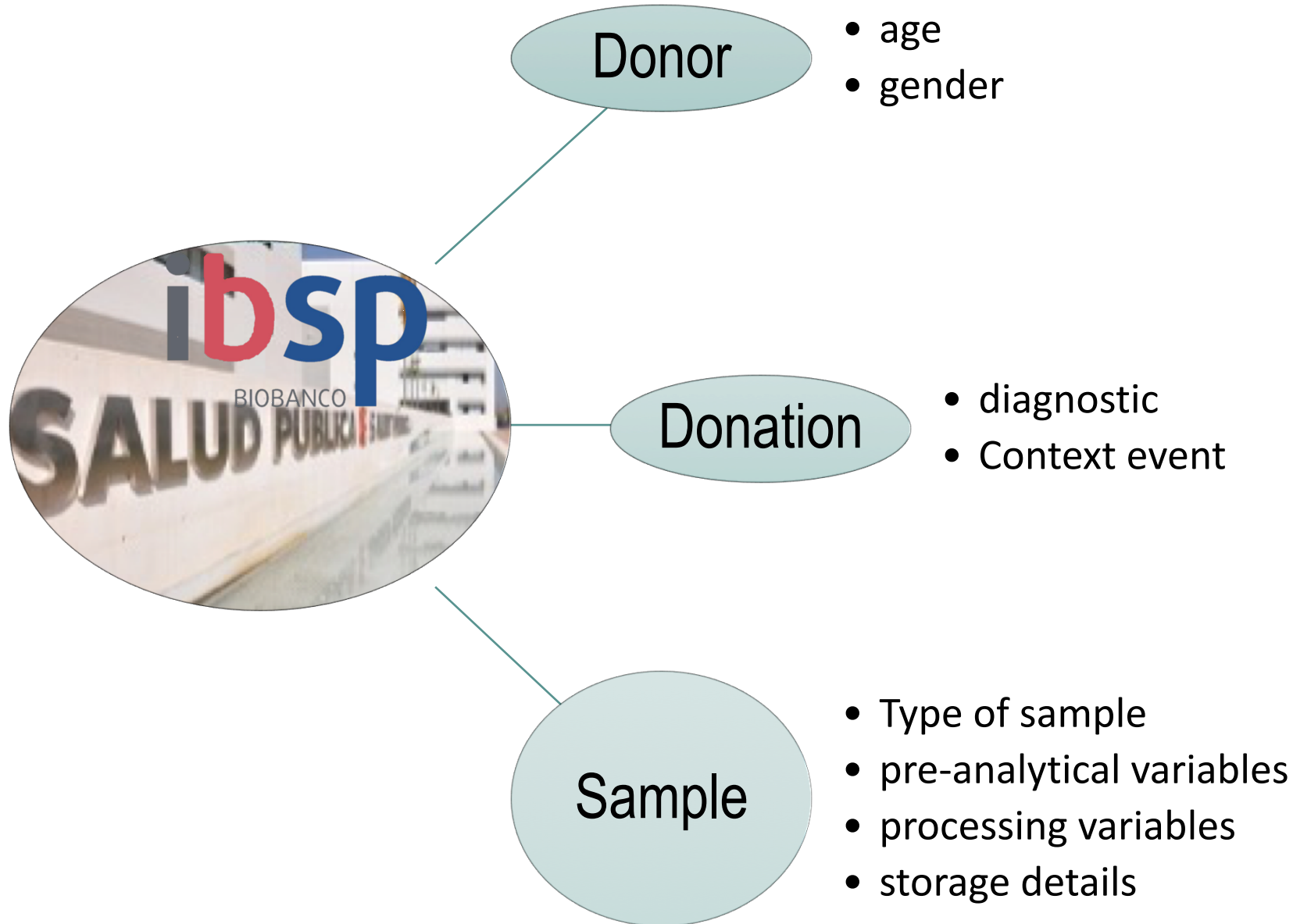
*Carolina Abril-Tormo (IBSP Biobank), Ana M. Martín Moreno (MD Anderson Biobank), José A. López-Guerrero (FIVO Biobank) and the collaboration of Program R+D+i Line of work to do Standard Harmonization of Biobanks Data Management Systems from Spanish Platform of Biobanks.*

# Introduction

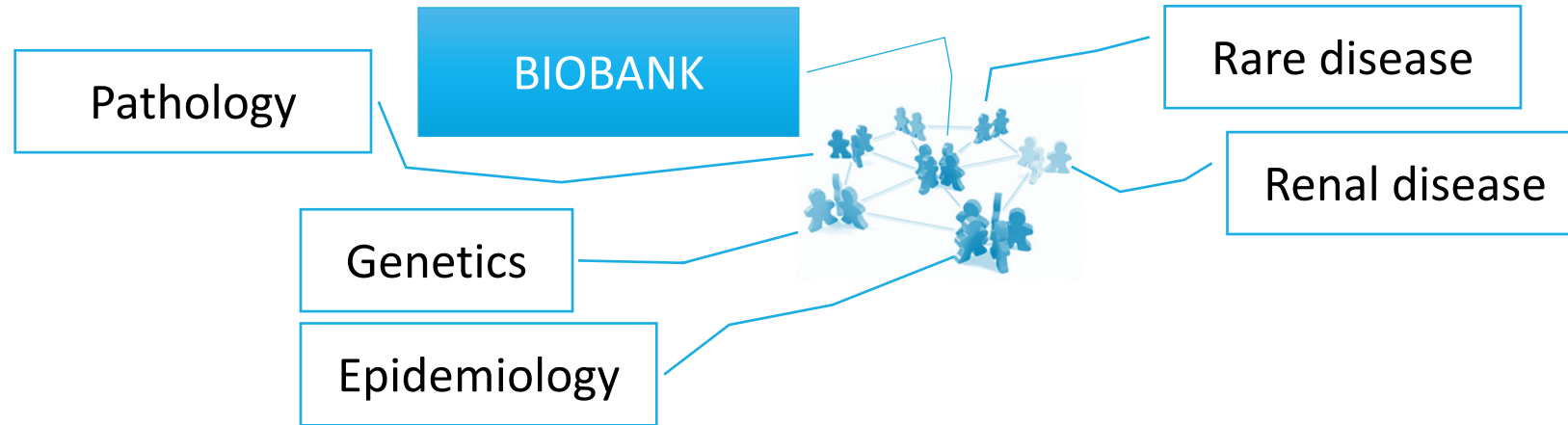




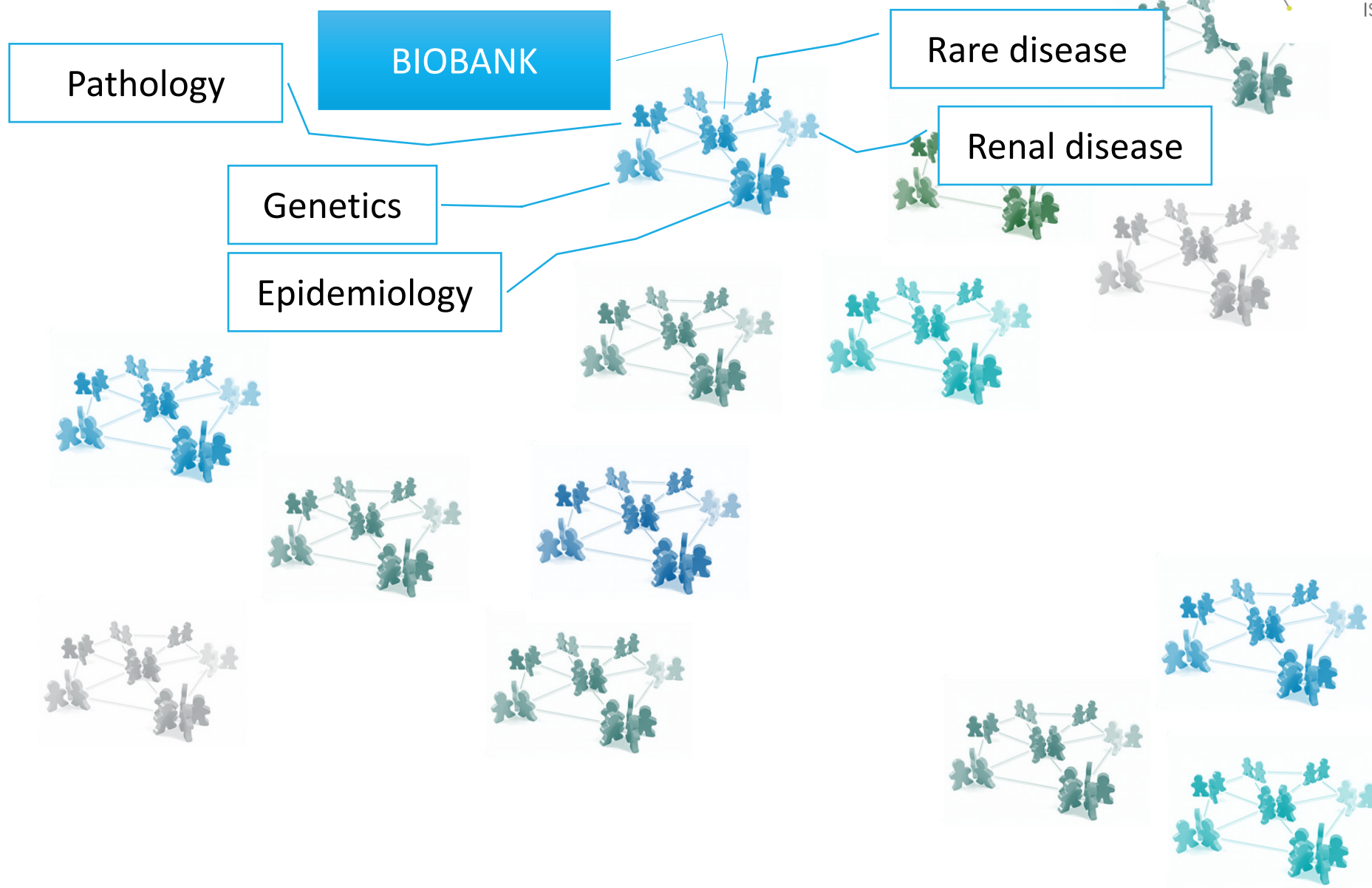
# Introduction



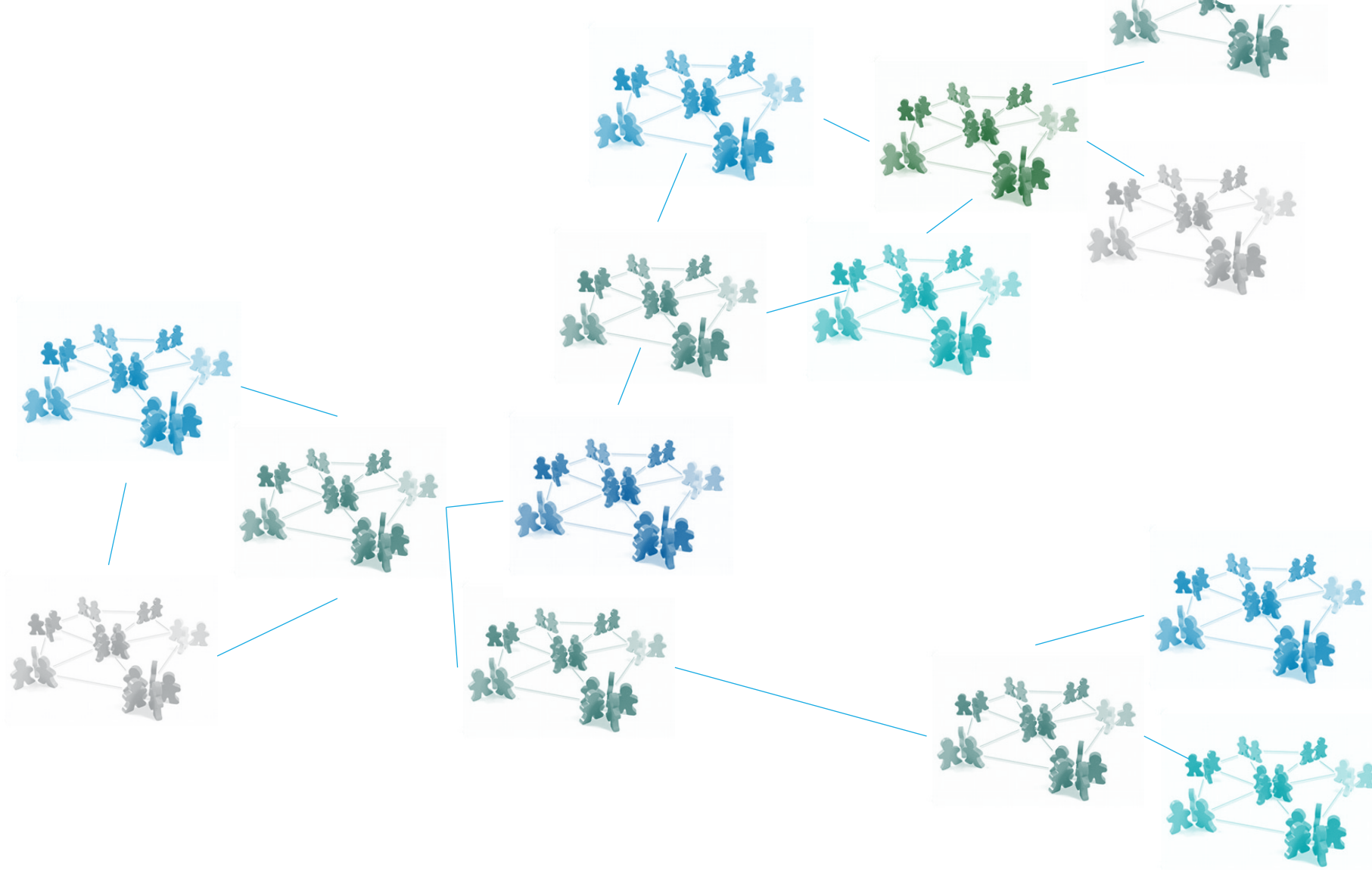
# Introduction



# Introduction

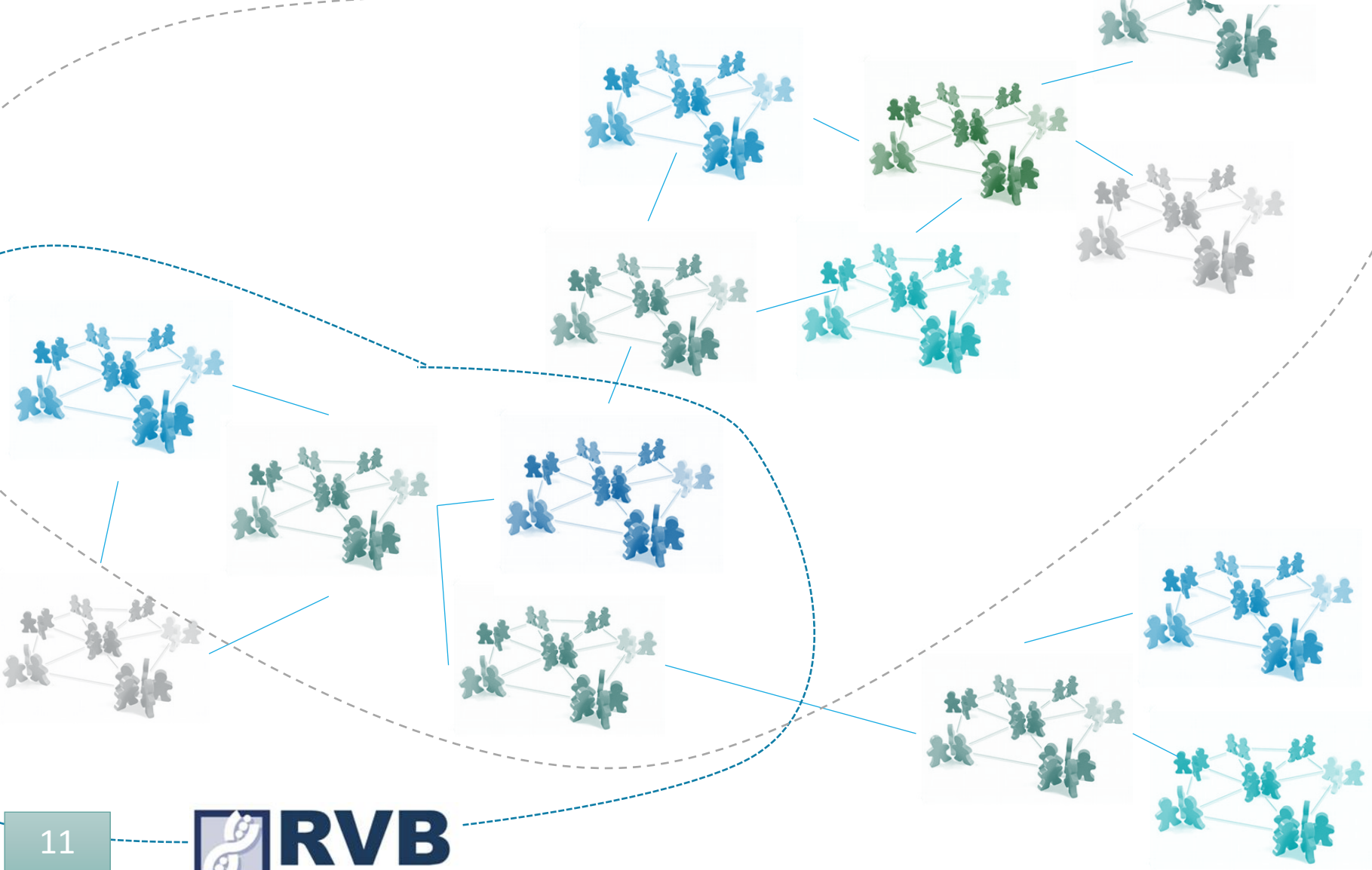


# Introduction



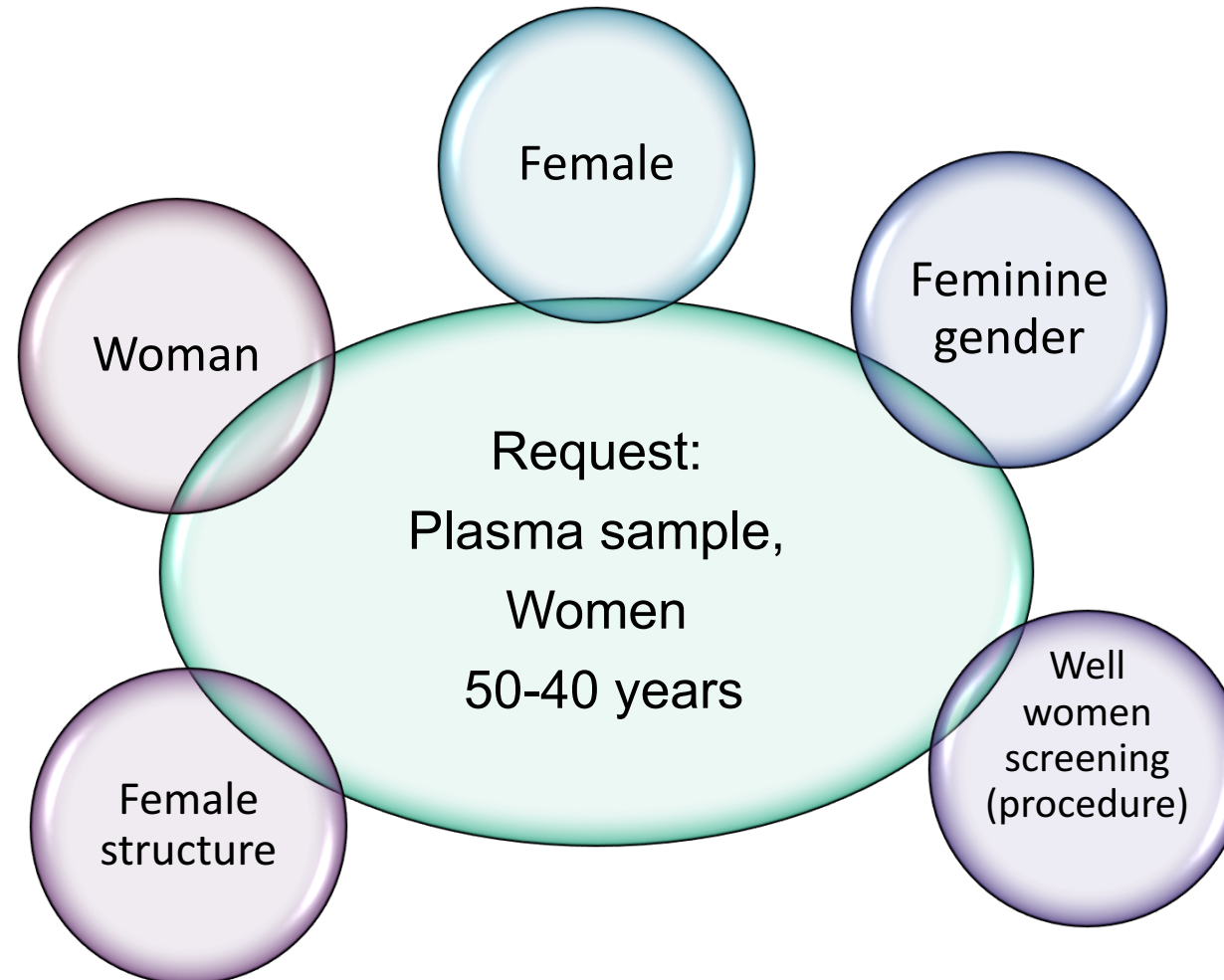
# Introduction

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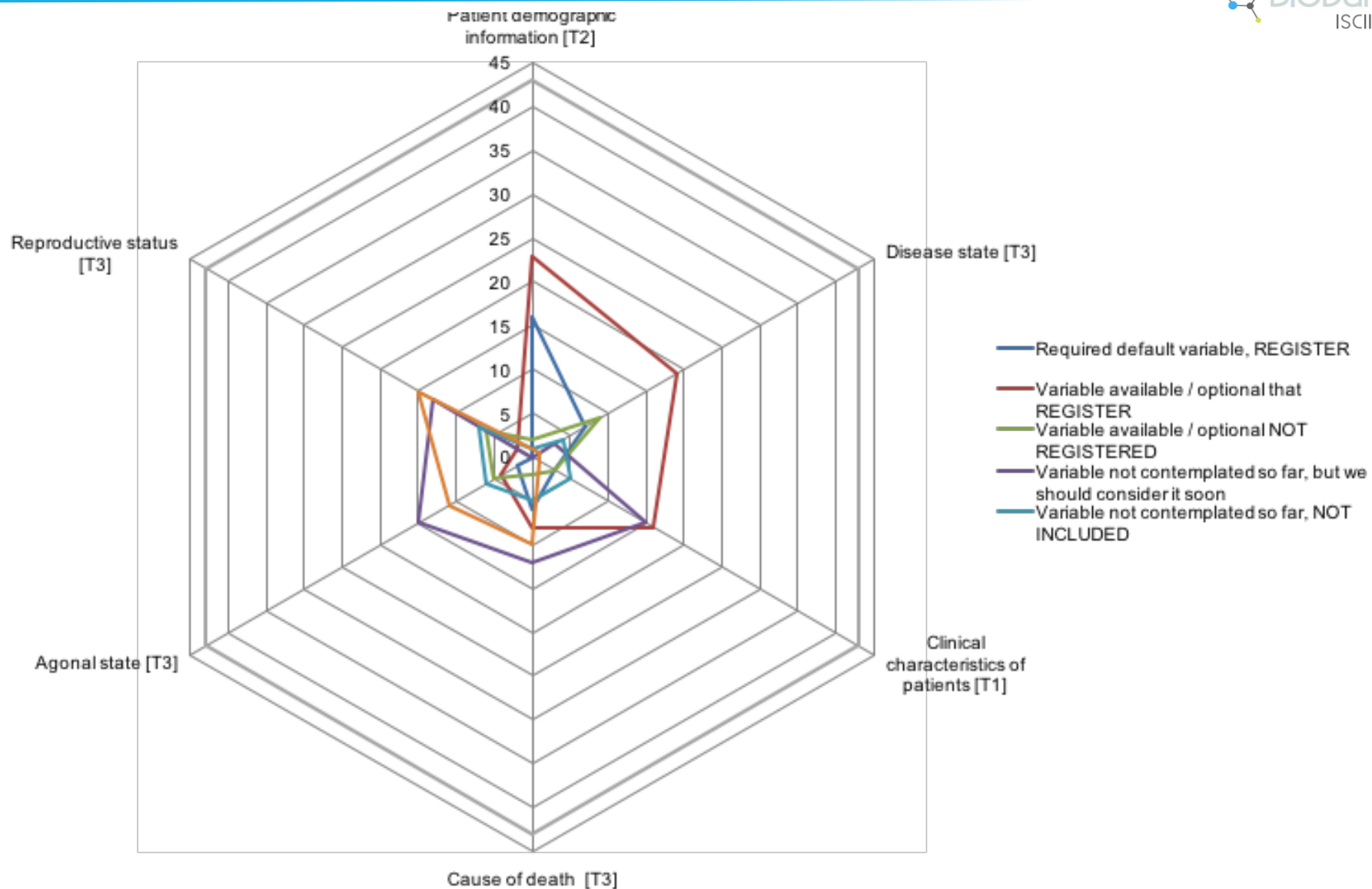


11

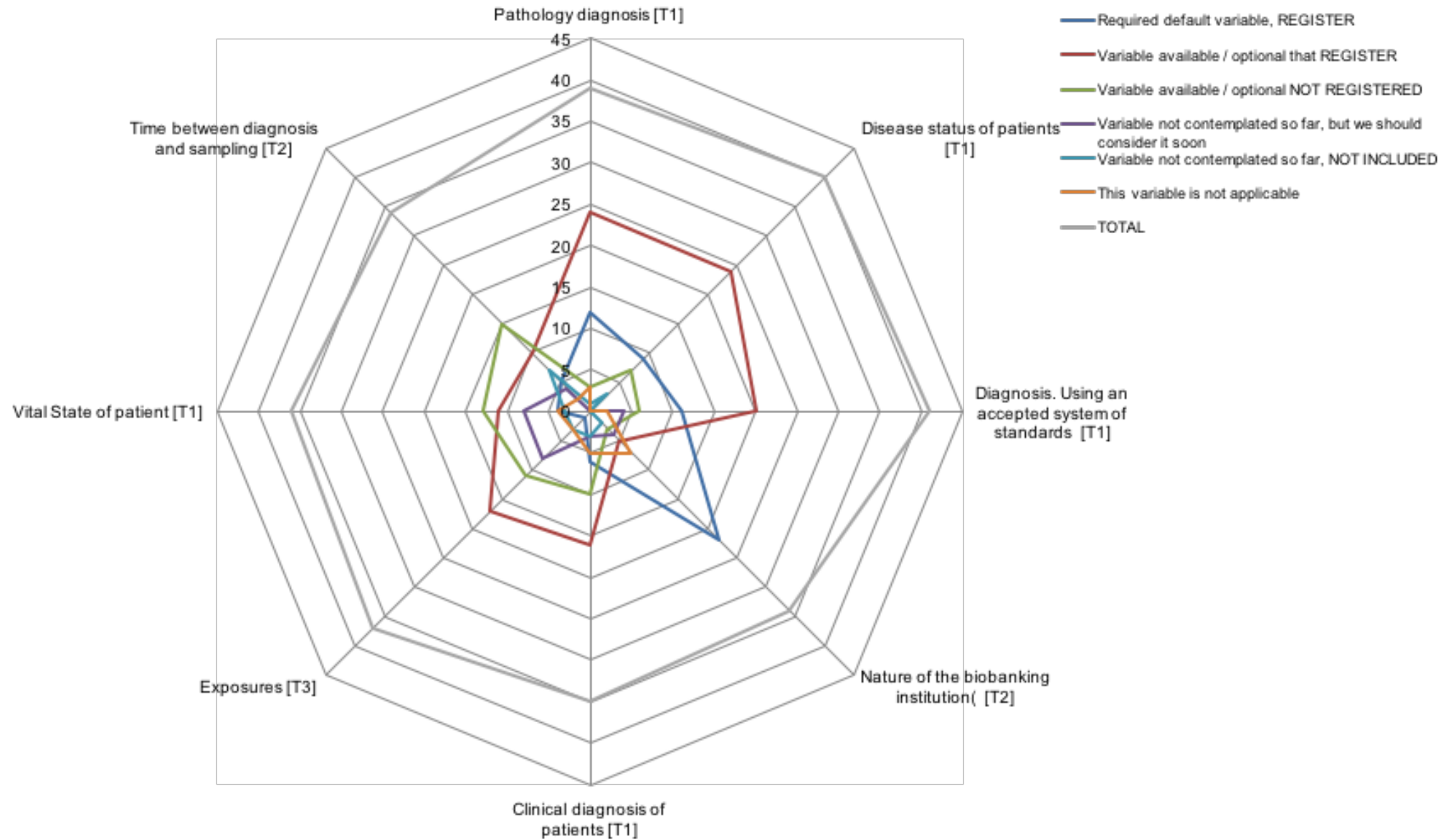




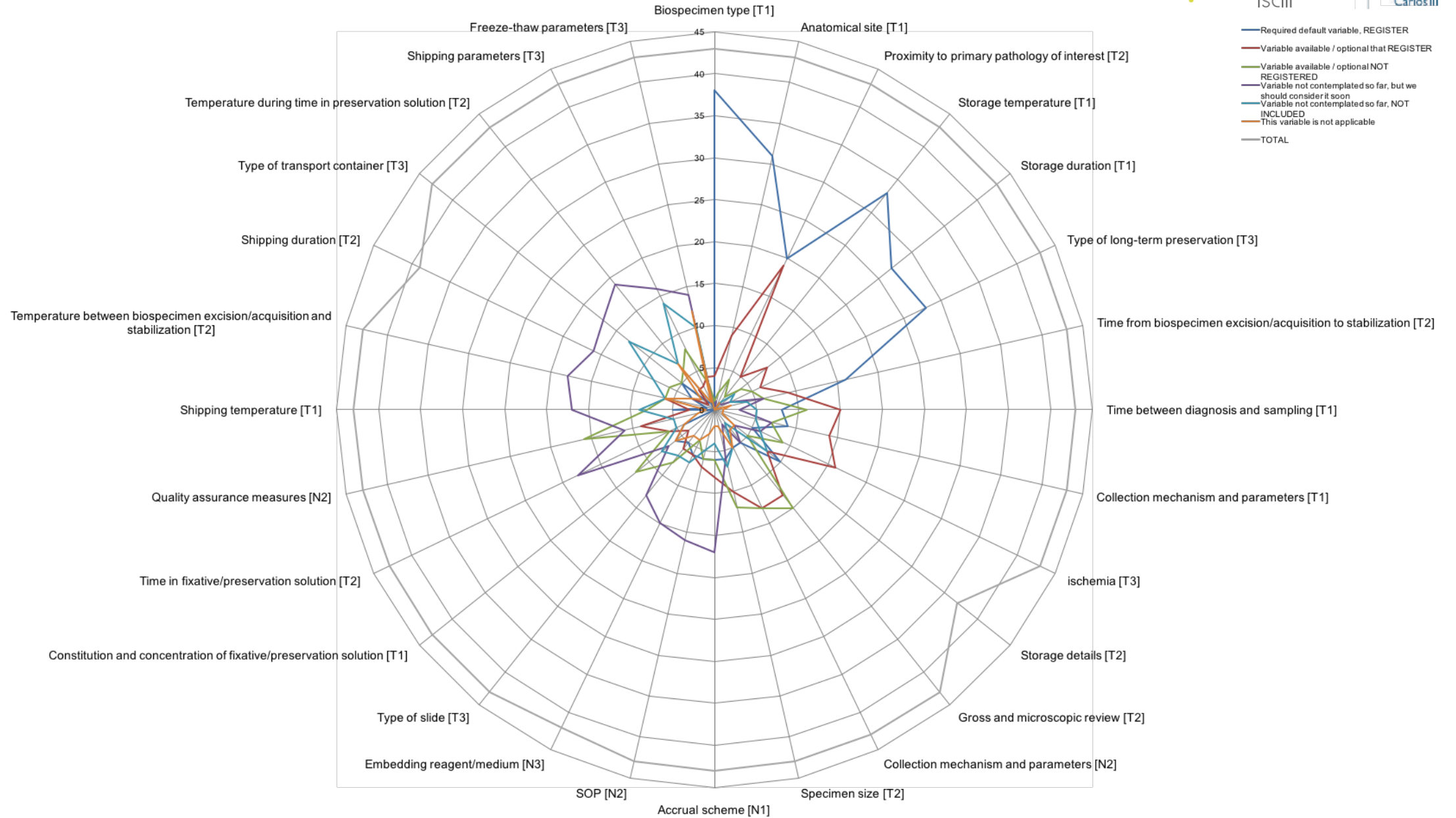
# Point 1. Analysis of the semantic resources available in Spanish Network of Biobanks

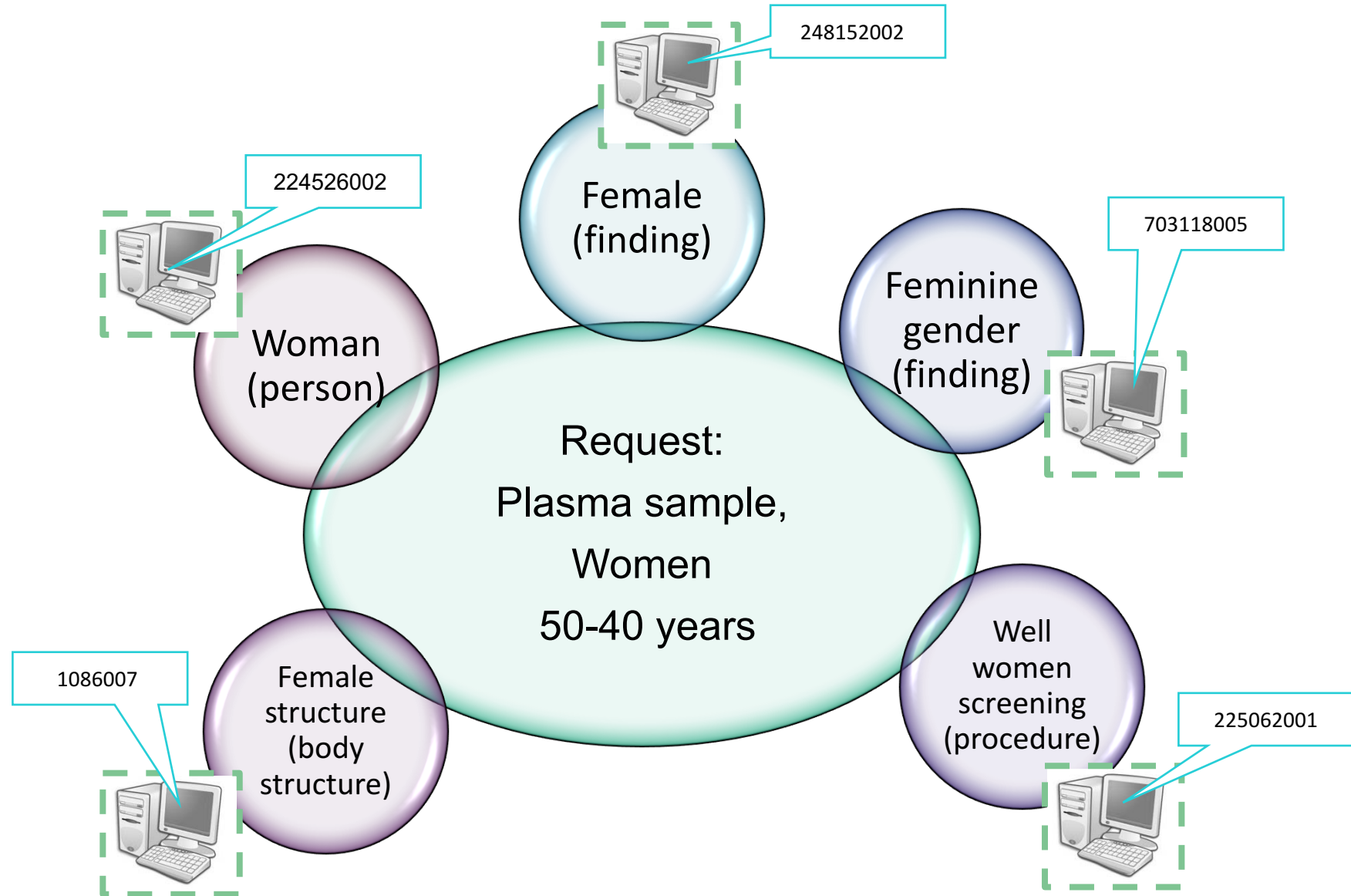


# Point 1. Analysis of the semantic resources available in Spanish Network of Biobanks



# Point 1. Analysis of the semantic resources available in Spanish Network of Biobanks





# SEMANTIC INTEROPERABILITY

CODE  
SYSTEM

REFERENCE  
MODEL

ARCHETYPE  
MODEL

SNOMED CT

ICD- (0,9,10,11)  
LOINC  
SPREC  
BRISQ

DUAL MODEL UNE-EN 13606

HL7  
OpenEHR

## Point 2. Definition of the strategy to semantic interoperability of biobanks

Mantenimiento de Cuestionario

\* Modelo: PULMÓN: Resección

PULMÓN: Resección

Muestra: [dropdown]

Localización del tumor

- Lóbulo superior
- Lóbulo medio
- Lóbulo inferior
- Otro (s) ( especificar): [input]
- No especificado

Tipo Histológico: [dropdown: carcinoma de células escamosas, sin subtipo en la CIE O (anomalía morfológica)]

Grado histológico: [dropdown: carcinoma de células escamosas, células pequeñas, no queratinizante (anomalía morfológica)]

Tamaño tumoral

- Diámetro mayor: cm [input]
- No puede ser determinado
- no aplicable
- No puede ser determinado
- Tumor viable residual mayor del 10%
- Tumor viable residual menor del 10%

Efectos del tratamiento

Estadaje Patológico (pTNM)

descriptores adicionales de pTNM

- m (múltiple)
- r (recurrente)
- y (post-tratamiento)

pT: [dropdown]

pN: [dropdown]

pM: [dropdown]

Estudios complementarios

- Resultados del análisis del Receptor del Factor de Proliferación Epidérmica ( EGFR): [input]
- Análisis de mutación de KRAS ( especificar resultados): [input]

Comentarios: [input]

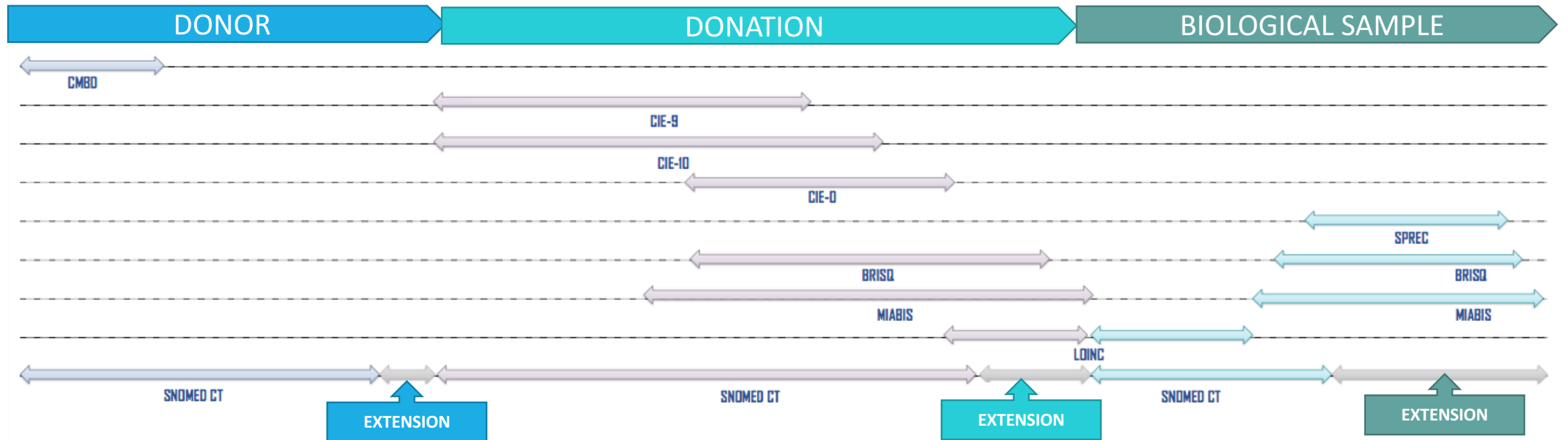
Code System:  
**SNOMED CT**

Reference Model:  
**ELEMENT**

Archetype: **Spanish Lung Cancer Check-list**

[Eliminar] [Aceptar] [Cancelar]

# Point 3. Biobank's subset of SNOMED CT





## International Edition

Concepts

Descriptions

Relationships

Refsets

## Spanish extension

Concepts (ES)

Descriptions (ES)

Relationships (ES)

Refsets (ES)

## Biobanks extension

Concepts (PRBB)

Descriptions (PRBB)

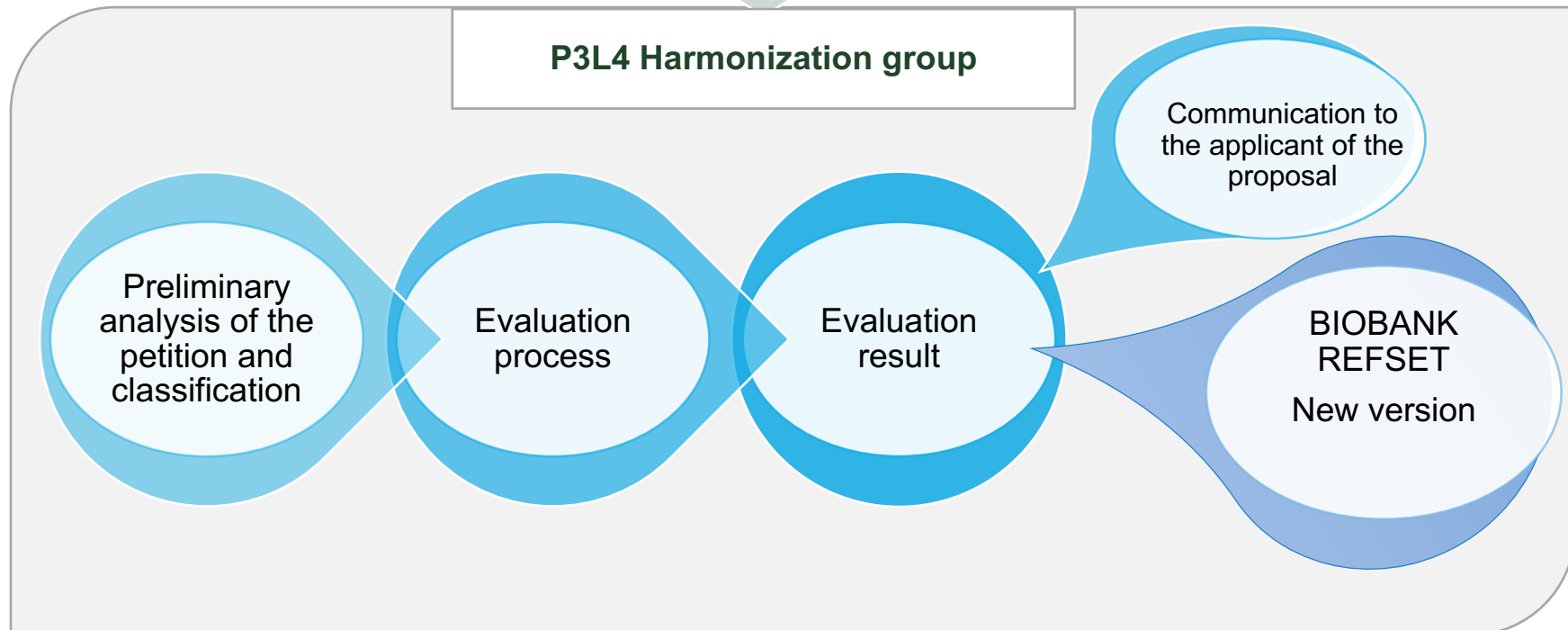
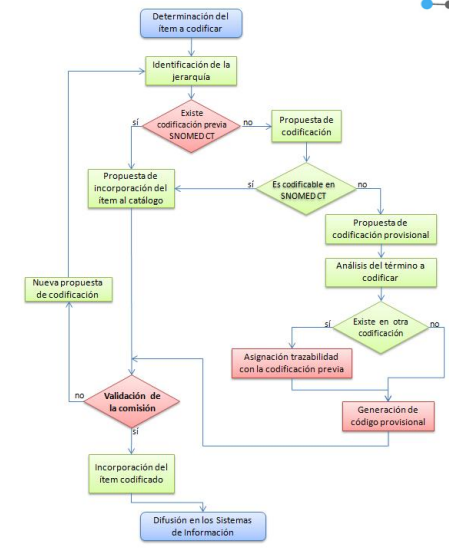
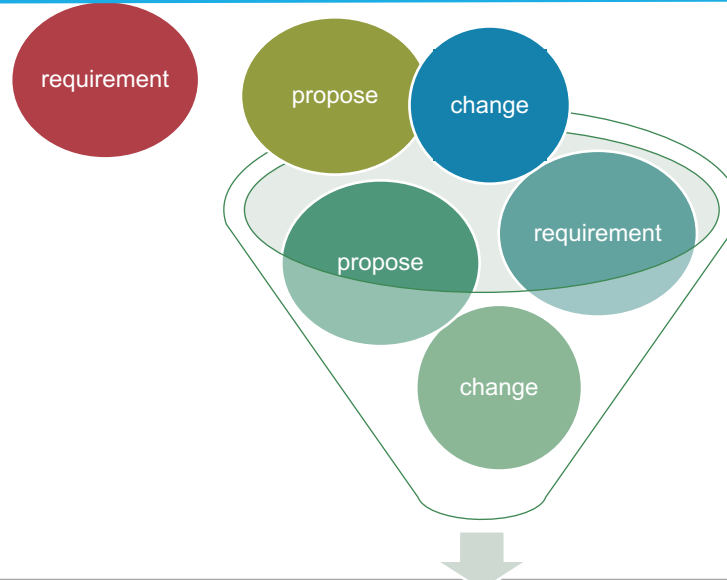
Relationships (PRBB)

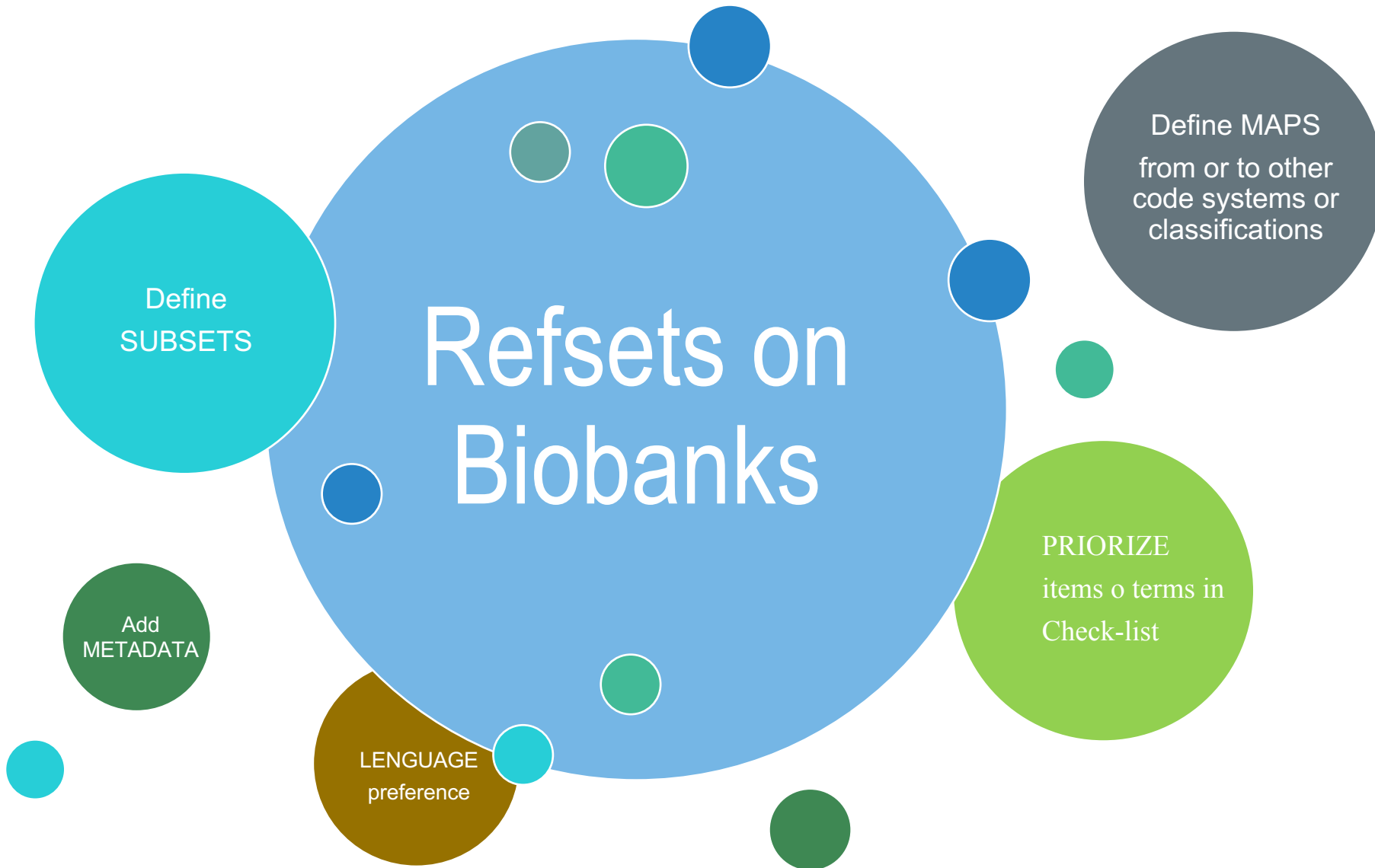
Refset (PRBB)

Spanish edition

Biobanks edition

# Point 3. Biobank's subset of SNOMED CT





Thank you for your attention



MD Anderson  
~~Cancer Center~~  
Madrid • España



PT13/0010/0010

PT13/0010/0064

PT13/0010/0037