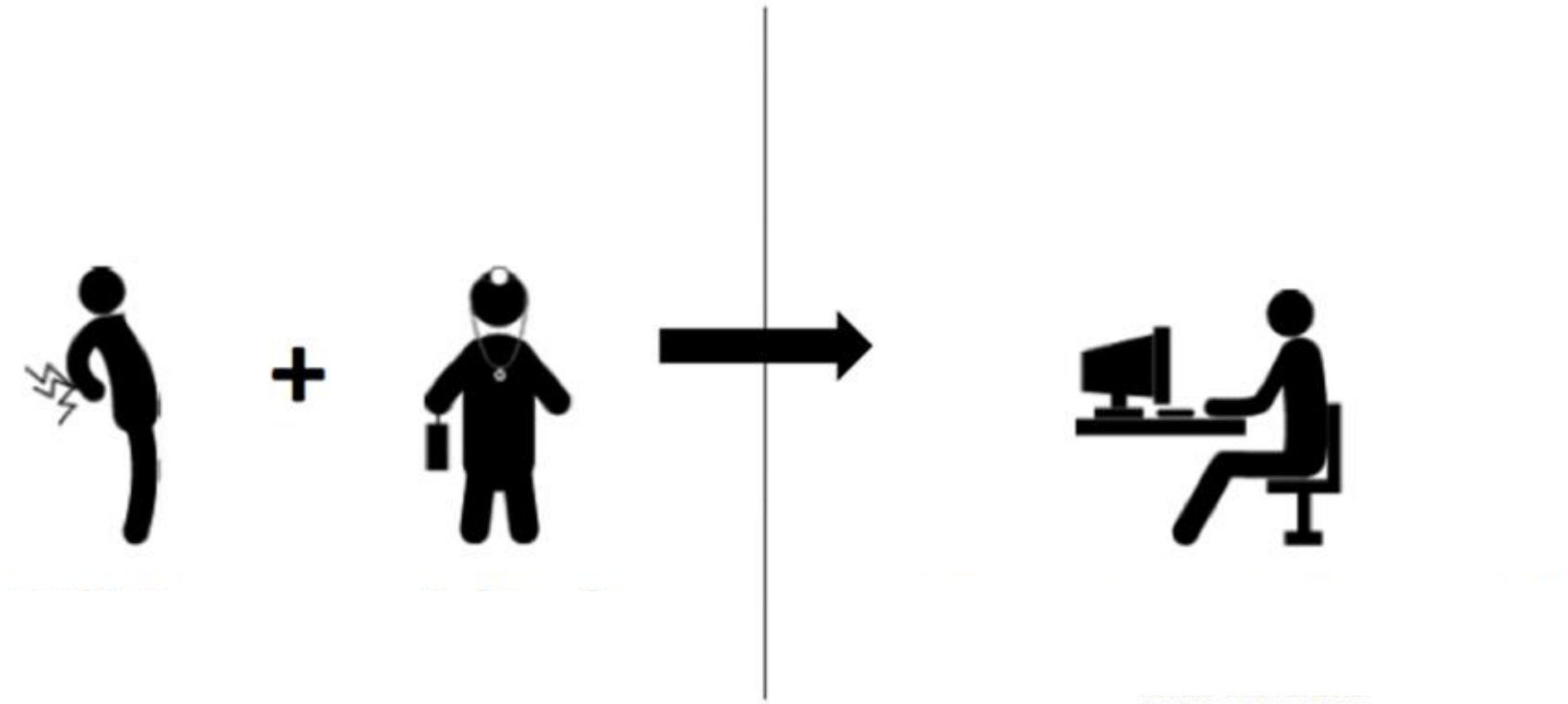


SNOMED CT – ICPC-3

A person in silhouette is standing in the center of a large-scale network visualization. The visualization consists of numerous blue circular nodes connected by a dense web of yellow lines, creating a complex, interconnected pattern that fills the background. The person appears to be interacting with the network, possibly using a handheld device.

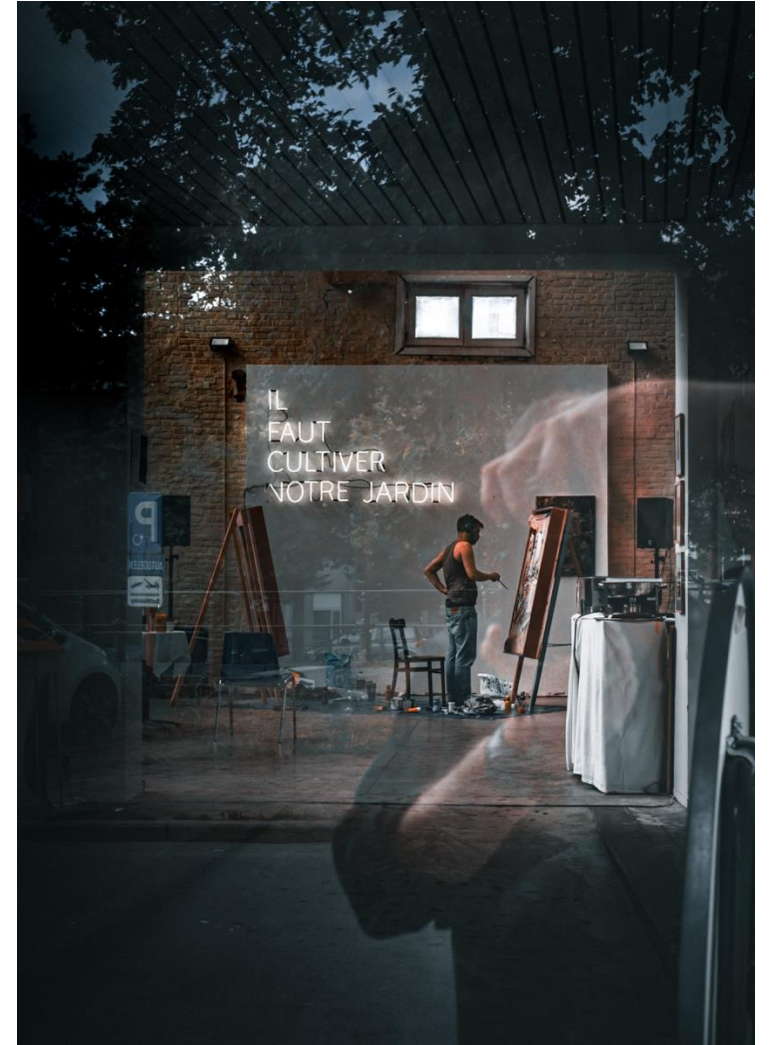
Bianca de Sá e Silva - Diego Schrans - Joseph Roumier -
Oliver Van Hecke - Jan De Maeseneer – Bob Vander Stichele

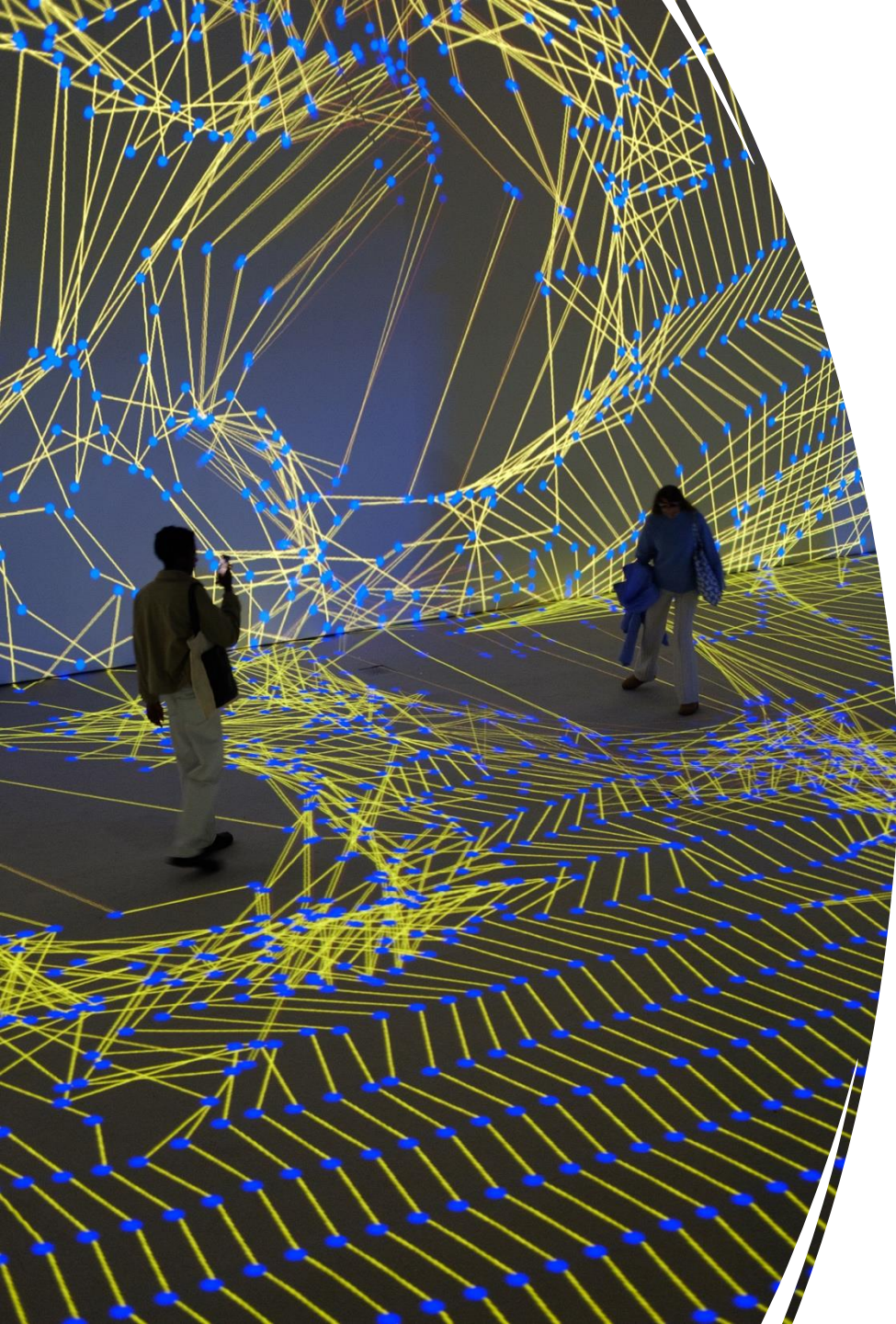
Daily practice or Where The Magic Happens: Communication (registration) or the art of being understood in a person centered care system



“If language is not used correctly, what is said is not what is meant.”

To make the language in clinical information systems unambiguous: code systems, classifications and terminology standards should be used to produce a translation of the clinical information to an interoperable and machine readable correct concept.





Mapping

Creating connections between concepts, represented by labels

Information recorded in one can be understood in the other

The dream:

Registering once
(in a simple and correct way)
for multiple use



The Belgian Bi-coded Bi-lingual Thesaurus (3BT)

An example of a linguistic-conceptual resource (bridging human language to digital concepts)



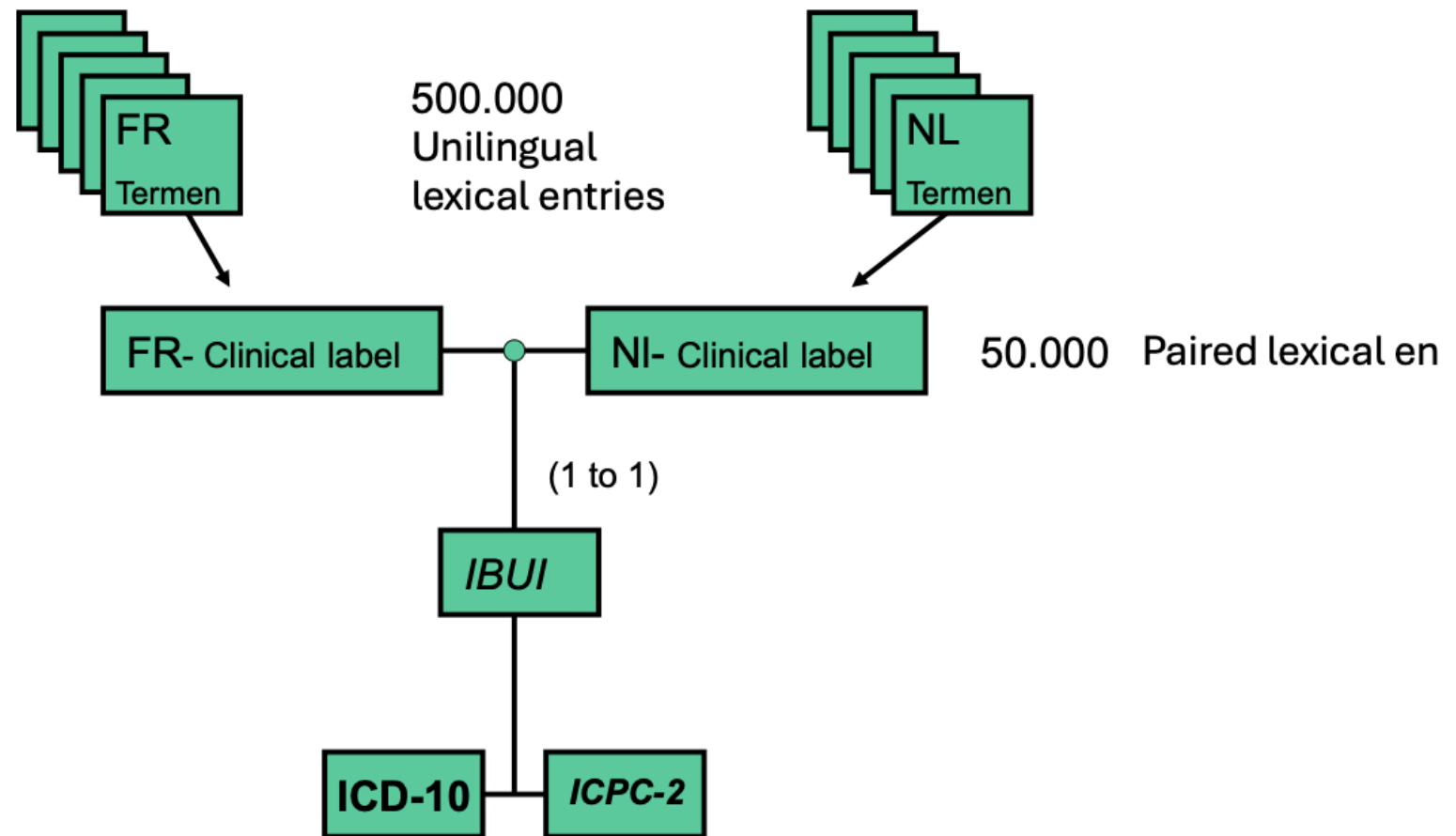
An example of an end-user terminology, supporting health care providers with data entry at the point-of-care

A similar initiative exists in Australia (ICPC-2 PLUS), linking language to SNOMED CT and ICPC.

The basis of successful longitudinal epidemiological research for more than 2 decades

- In great need of an update (updated: 2011)
- In need of modernisation

The **B**elgian **B**i-coded **B**i-lingual **T**hesaurus (3BT) Thesaurus (3BT)





A first step in modernisation

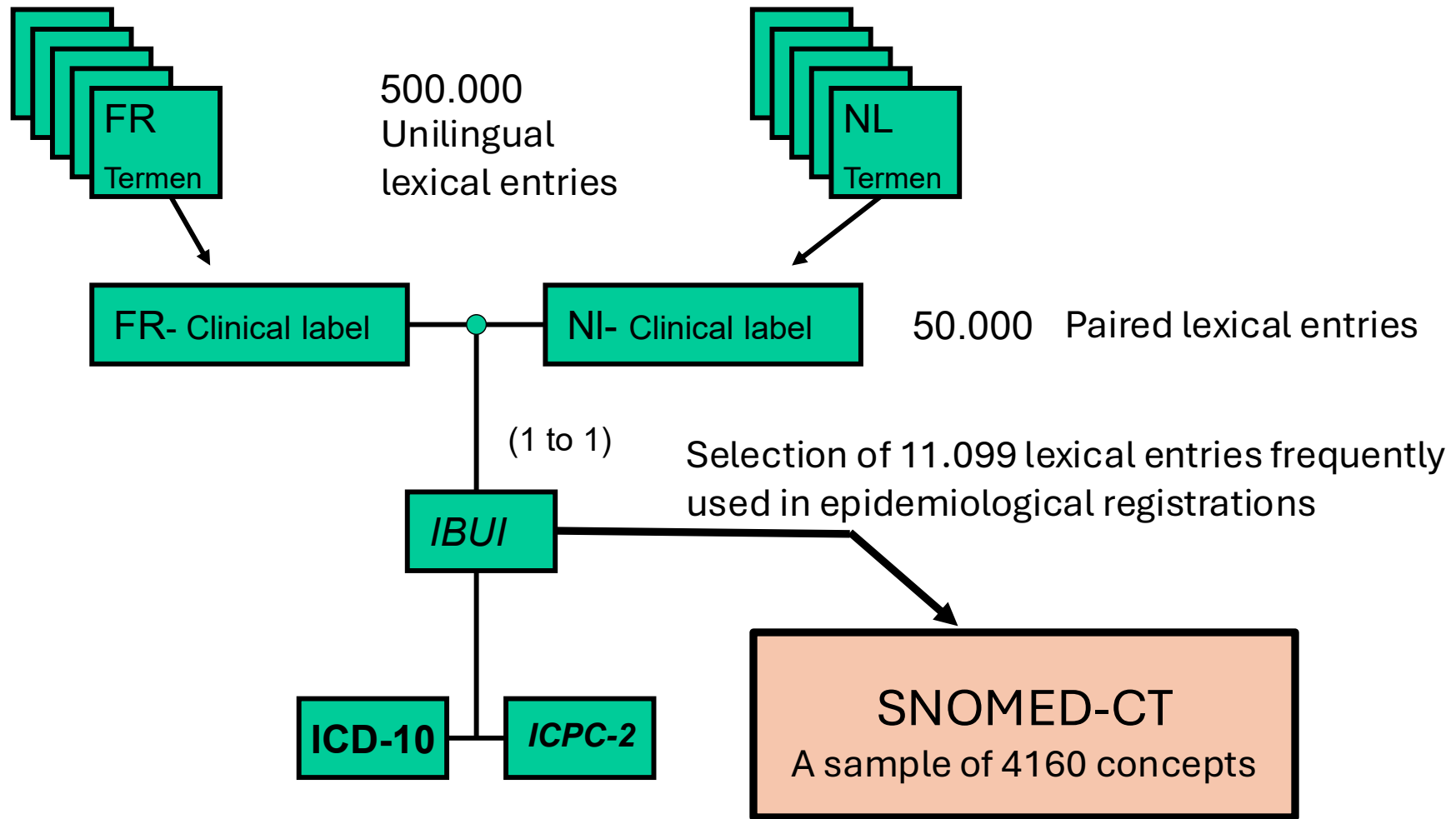


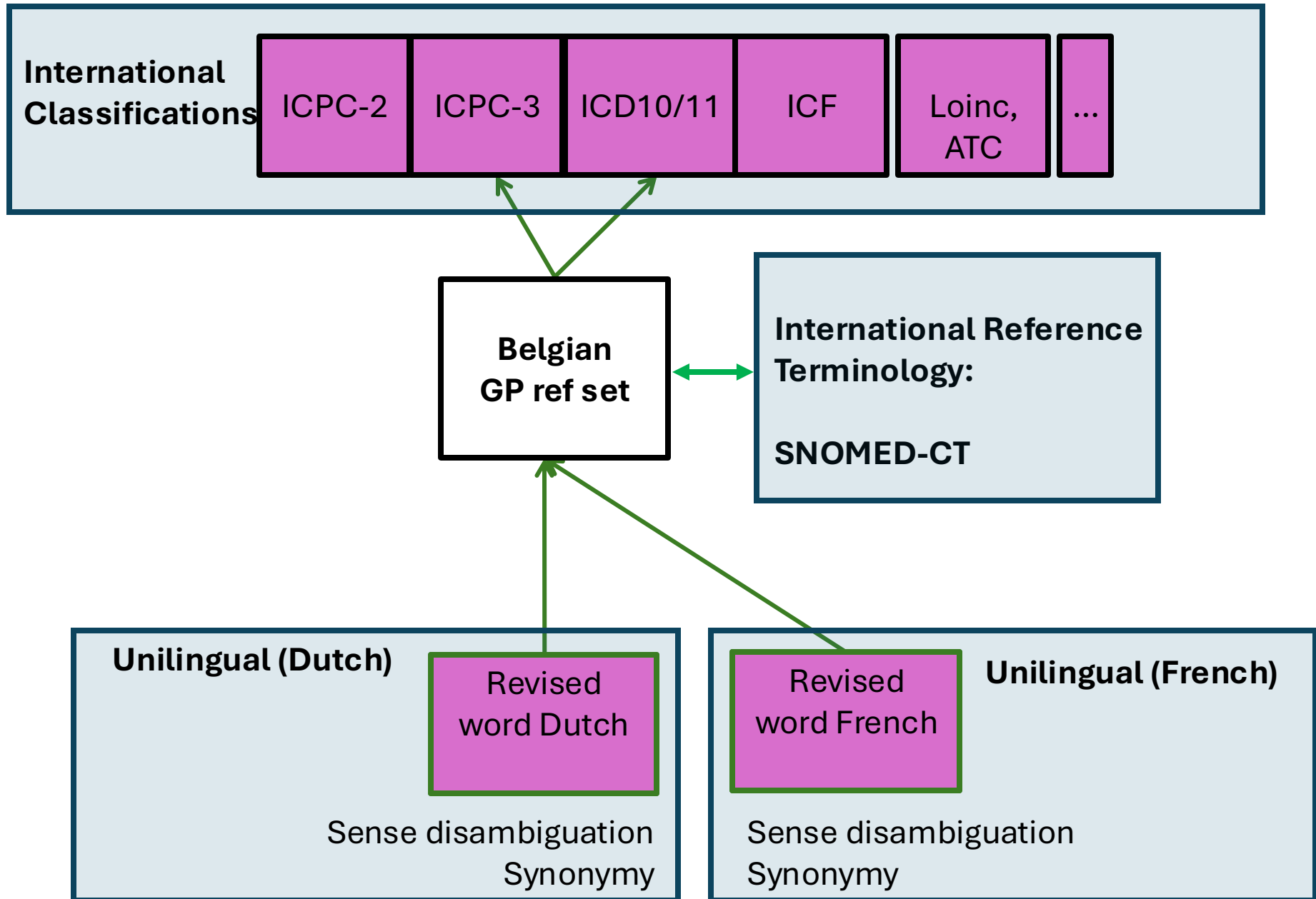
Linking 3BT to SNOMED CT



Legacy Conversion

3BT towards Belgian GP refset





Second step in modernisation



```
graph TD; A[Second step in modernisation] --> B[SNOMED CT mapping to Classification]; B --> C[SNOClass project]
```

SNOMED CT mapping to Classification

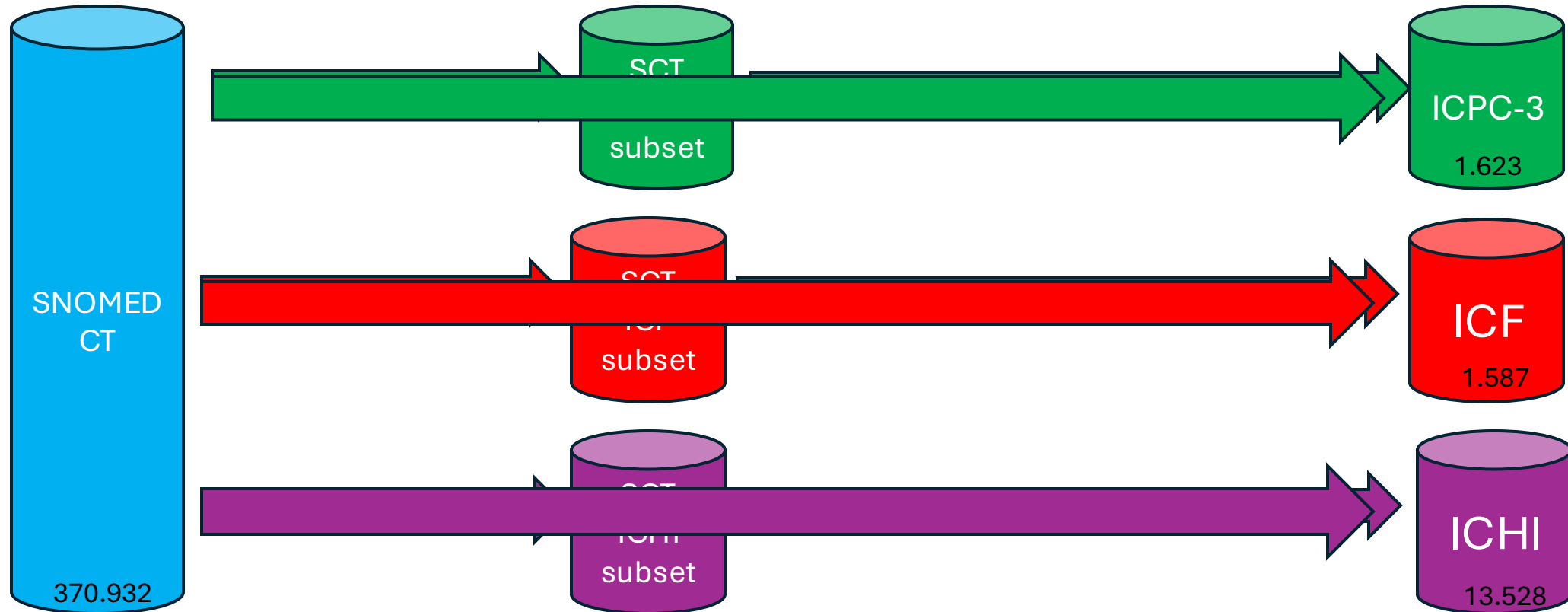
SNOClass project



SNOClass Project

Mapping SNOMED CT: ICPC-3, ICF, ICHI

Mapping: origin and target



Large mismatch in level of aggregation and coverage: need to find a subset

Current state and aim for ICPC-3



FIRST AUTOMATED MAPPING DONE

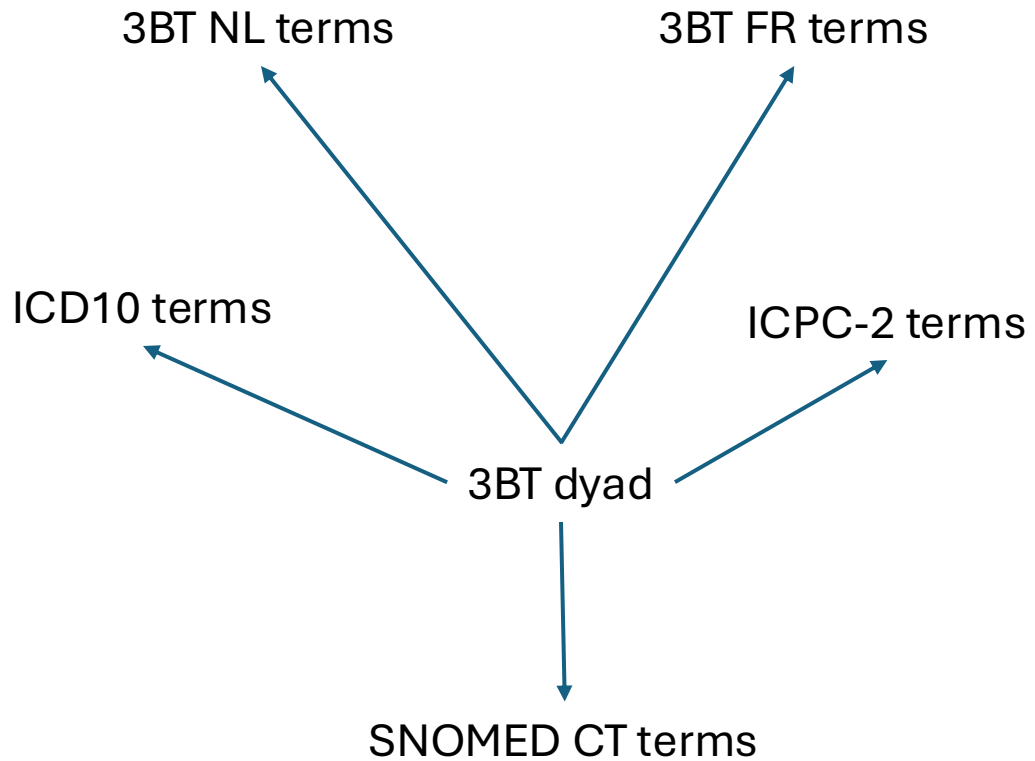


DATA CLEANING IN PROGRESS

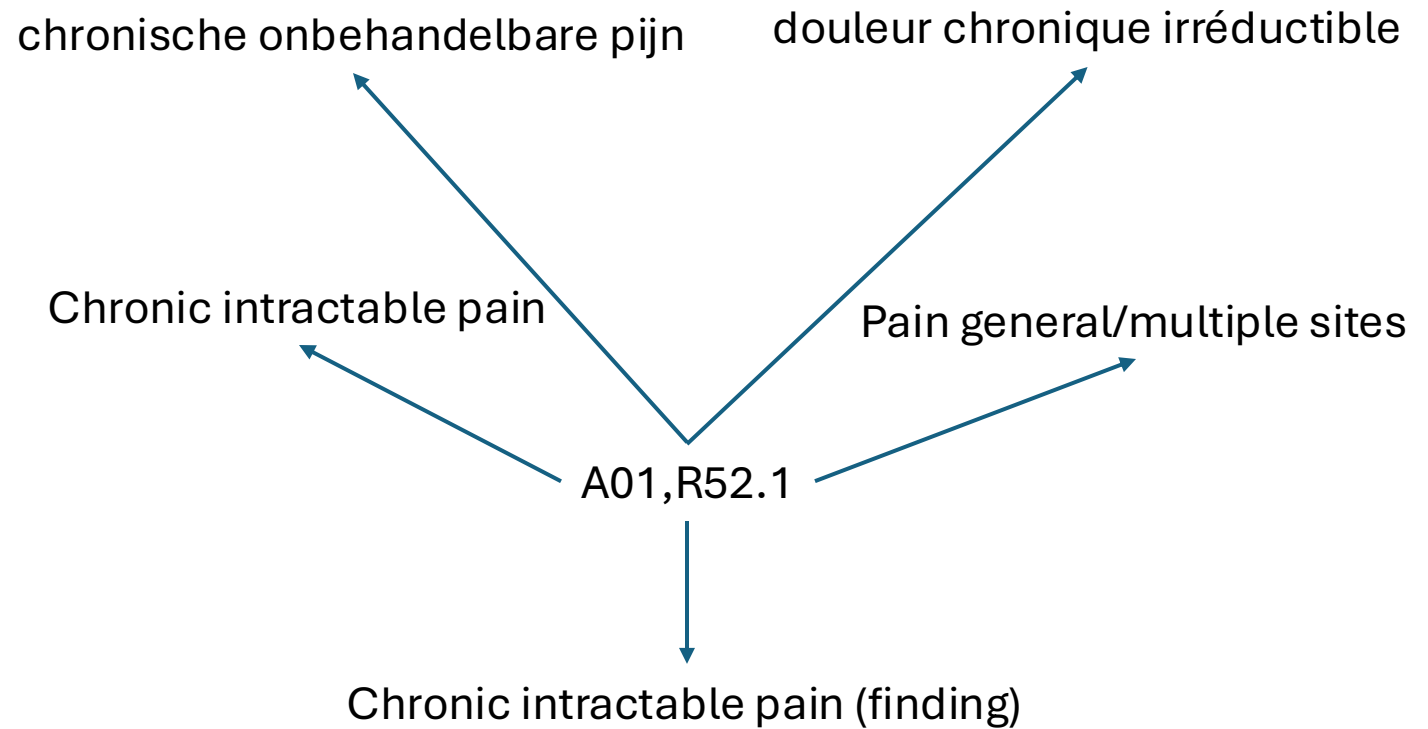


TRANSMED TOOL FOR ICPC-3:
WORD CLOUD AND INCLUSION
TERMS

Schema



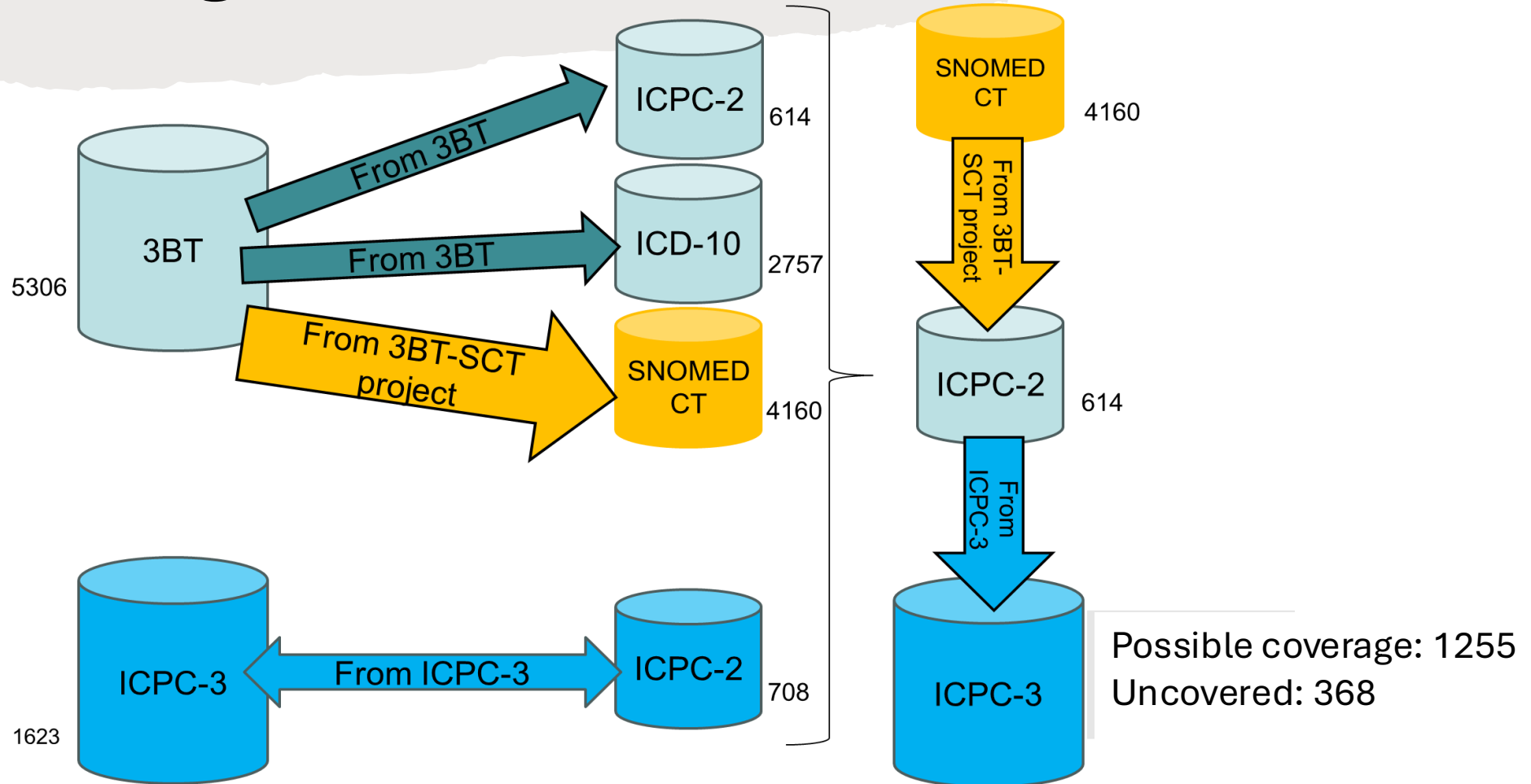
Example



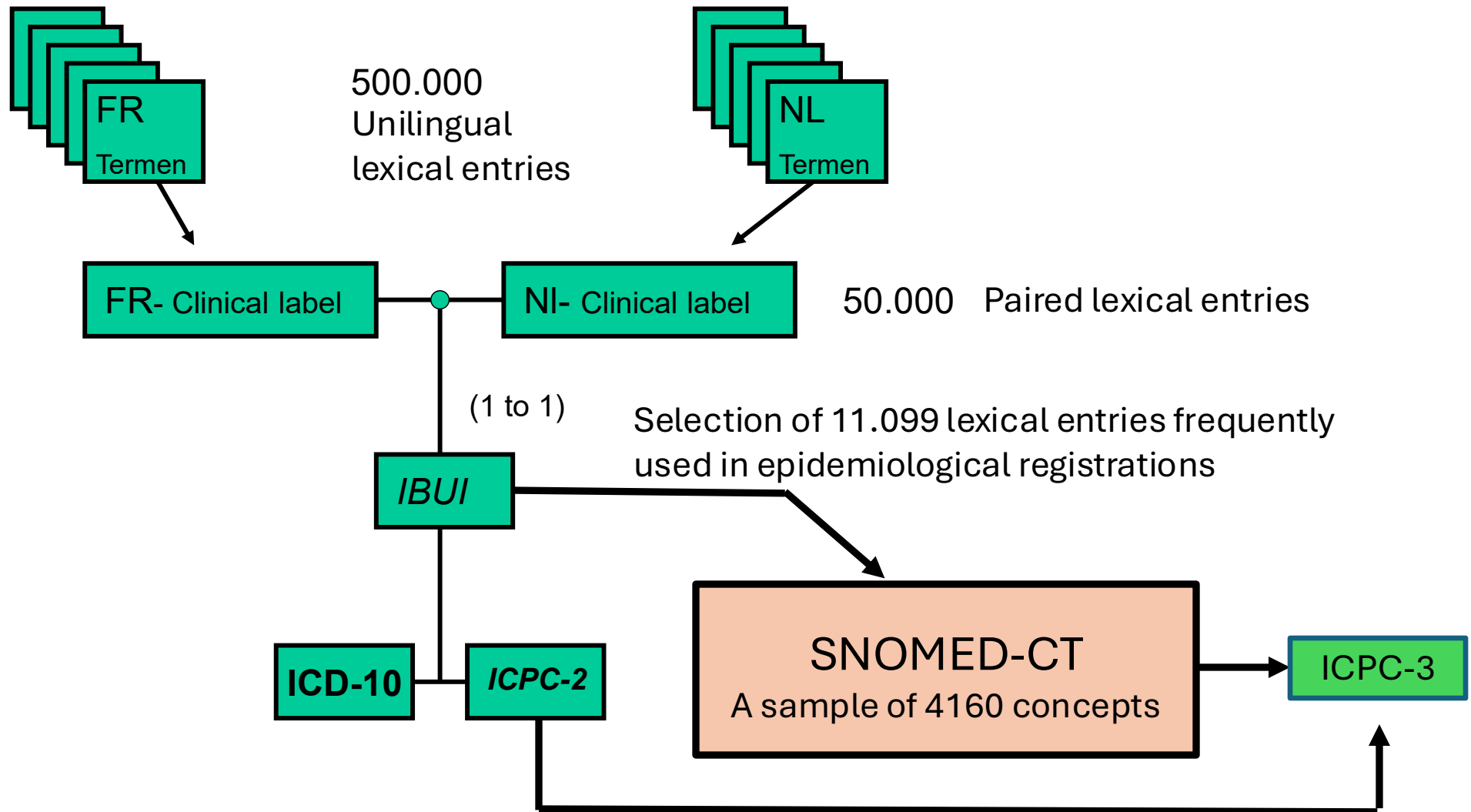
Dyads and surrounding cloud of words

Terms include preferred term and synonyms, and in some cases can be inclusions

Exploring 3BT data:



3BT – GP Ref set – ICPC-3



Third step in modernisation

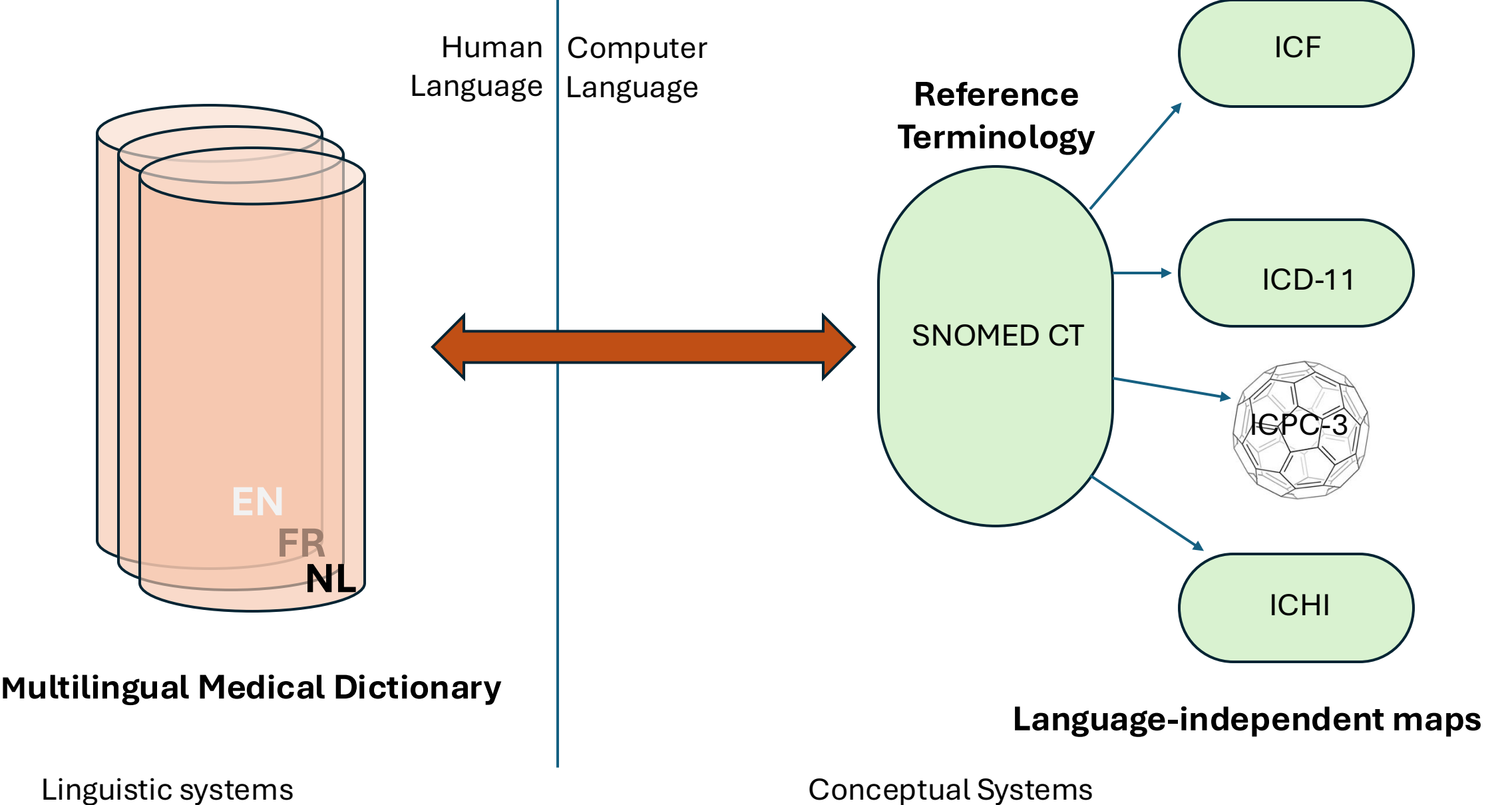


```
graph TD; A[Third step in modernisation] --> B[Developing Enduser Terminology]; B --> C[Combine linguistic and conceptual systems];
```

Developing Enduser Terminology

**Combine linguistic and
conceptual systems**

Modern, Multilingual Enduser Terminology



The message

