

BE patient problemlist

How to move beyond PDFs to usable, structured data

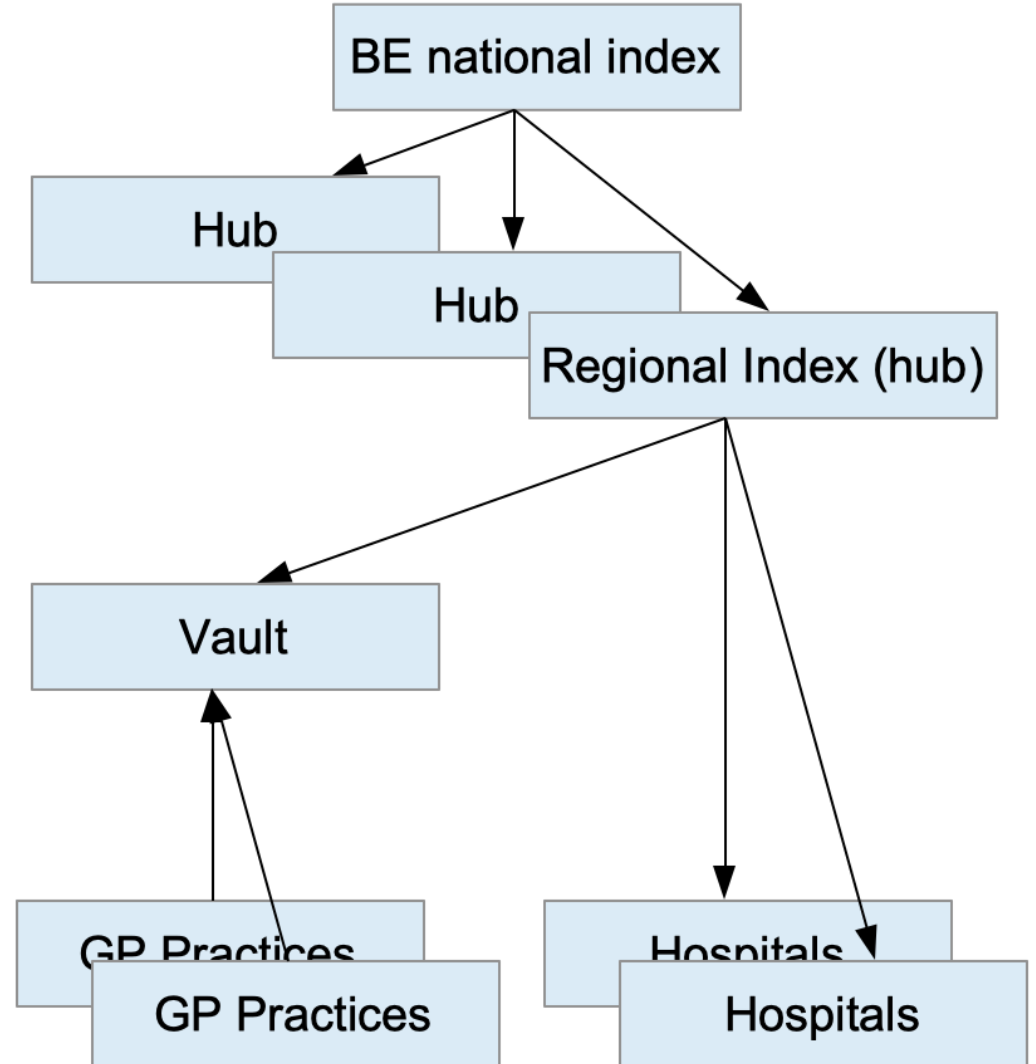
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Current architecture: BE Patient PDF tree

All published patient documents can be found and accessed via BE eHealth services



BE eHealth Services

Authentication – CoBRHA

Common Base Registry for Healthcare Actors

Authorisation – Access matrix

Consent, therapeutic relationship

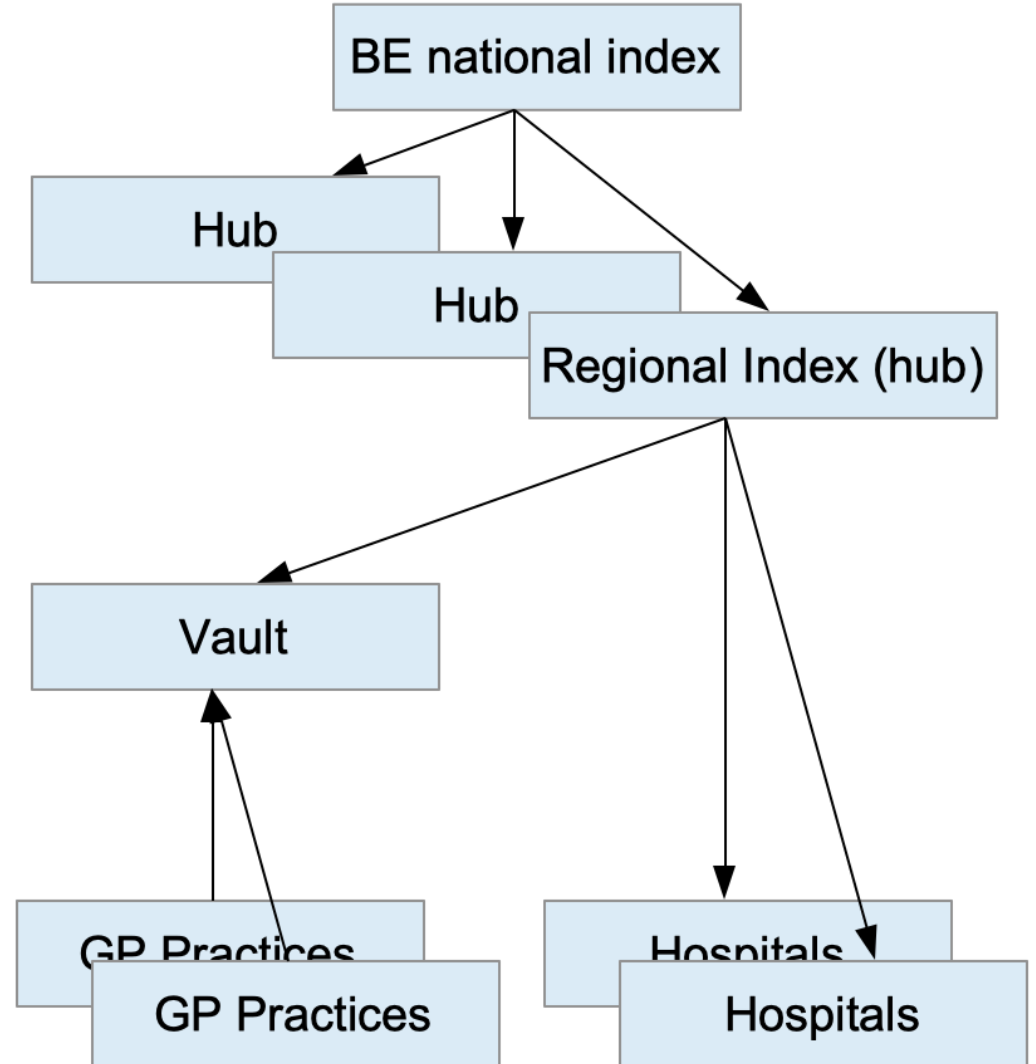
Access rights, exclusions

Encryption/decryption

Pseudonimisation

+ Process

test events, software homologation, funding



Problem for clinicians?

Poorly standardised metadata

- what are the discharge letters?

Gaps and overlaps in the content

- what are the relevant diagnoses?
- current medical and surgical history?

Data are hard to reuse in the own medical record

- copy/paste

Time consuming (40% of consultation time = admin)

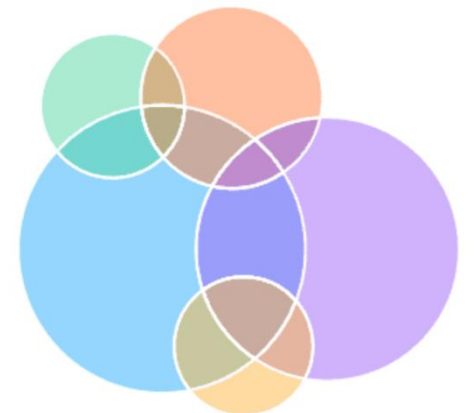
Inefficient

Suboptimal quality of care

The screenshot shows a search interface with the following elements:

- Search Bar:** "ZOEKTERMEN" with a search icon and a close button.
- Filters:** "VAN Datum" and "TOT Datum" with calendar icons.
- Category Buttons:** LABO, RX, TYPE, DIENST.
- Selected Filter:** "Consultatieverslag".
- Results Summary:** "ER WERDEN RESULTATEN UIT VOLGENDE INSTELLINGEN ONTVANGEN".
- Source Selections:** TOON ALLE 661, AML 6, BRUSSELS GEZONDHEIDSNETWERK (ABRUMET) 2, HEILIG HARTZIEKENHUIS LIER 4, LABO AKL 1, LABO CMA 11, RADIOLOGIE 0, UNIVERSITAIR ZIEKENHUIS ANTWERPEN 1, UNIVERSITAIR ZIEKENHUIS BRUSSEL 1, VITALINK 4, VZNKUL 1, ZAS 630.
- Table of Results:**

Consultatieverslag	ZAS	Specialty
21/10/2025	✓	Klinische Brief (Cardiologie)
21/10/2025	✓	Klinische Brief (Cardiologie)
08/09/2025	✓	Klinische Brief (Nefrologie)
07/09/2025	✓	Spoedeisende Hulp (Spoedeisende Hulp)
03/09/2025	✓	Klinische Brief (Intensive Care)
28/08/2025	✓	Klinische Brief (Intensive Care)
27/08/2025	✓	Klinische Brief (Nefrologie)
27/08/2025	✓	Opnamebrief (Cardiologie)
08/08/2025	✓	Klinische Brief (Cardiologie)



Where are we today?

Move to **Snomed CT**

- BE release since 2018

Move to **FHIR**

- Belgian caresets

Bottom-up (2023-2025):

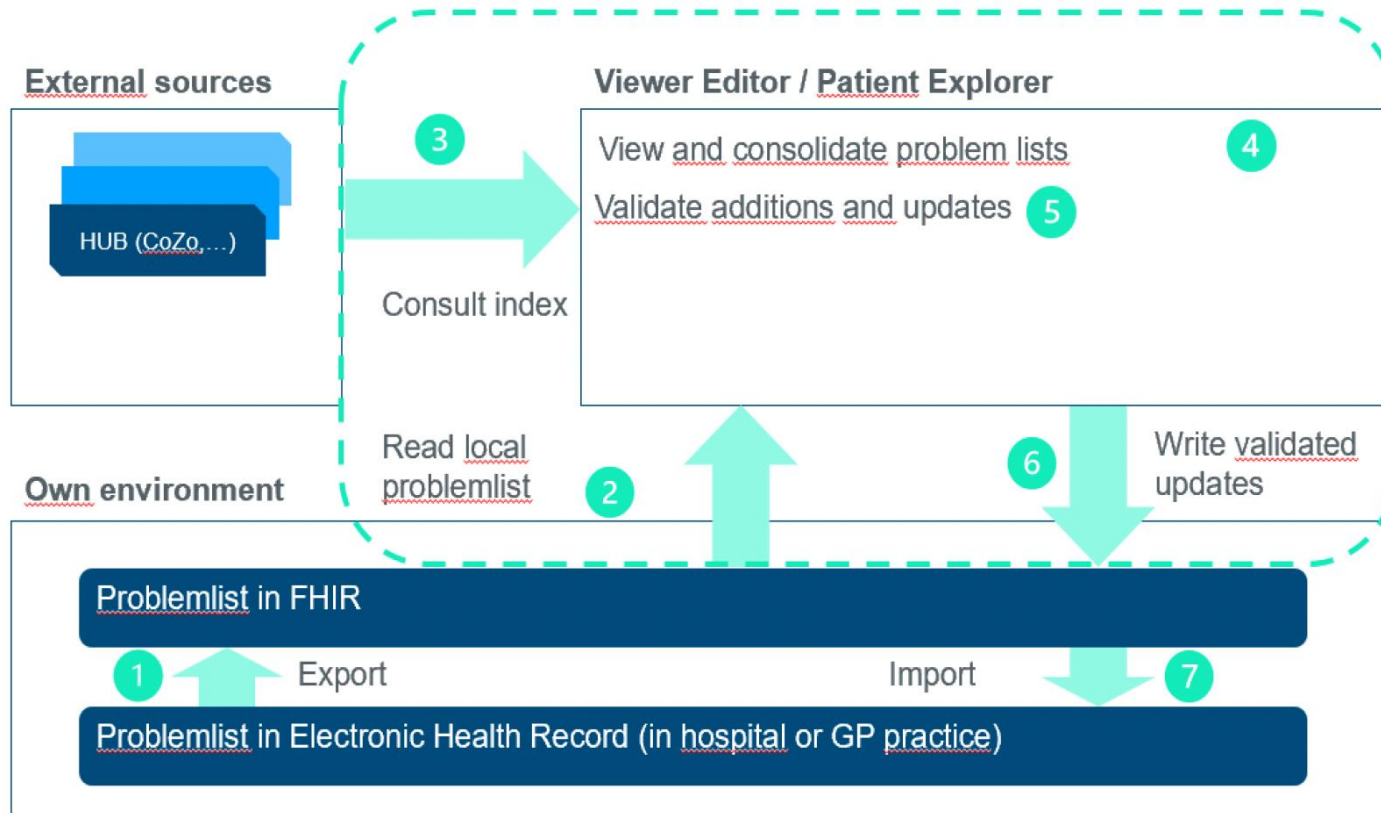
Series of datacapabilities and
innovation projects

Top down (2026):

Planning for EHDS, funding, legislation
Project selection and scale up



BE Patient Problemlist Use case



Applicatiebeheer CS-DCR \ Filip Verdemman - HiX Acceptatie - 2026-02-18 01:30 - 6.3 HF127.6 - HiX - ChipSoft

Algemeen

Profiel: Meeters, Jean (14/03/1975 (50 jr), 3005557887)

Dossier: Voorblad, Belgium Problem List (BEPL)

Voorblad

- Diagnoses** (+) (🔍)
 - 9/03/2026 arteriële hypertensie
- Complicaties** (+) (🔍)
- Voorgeschiedenis** (+) (🔍)

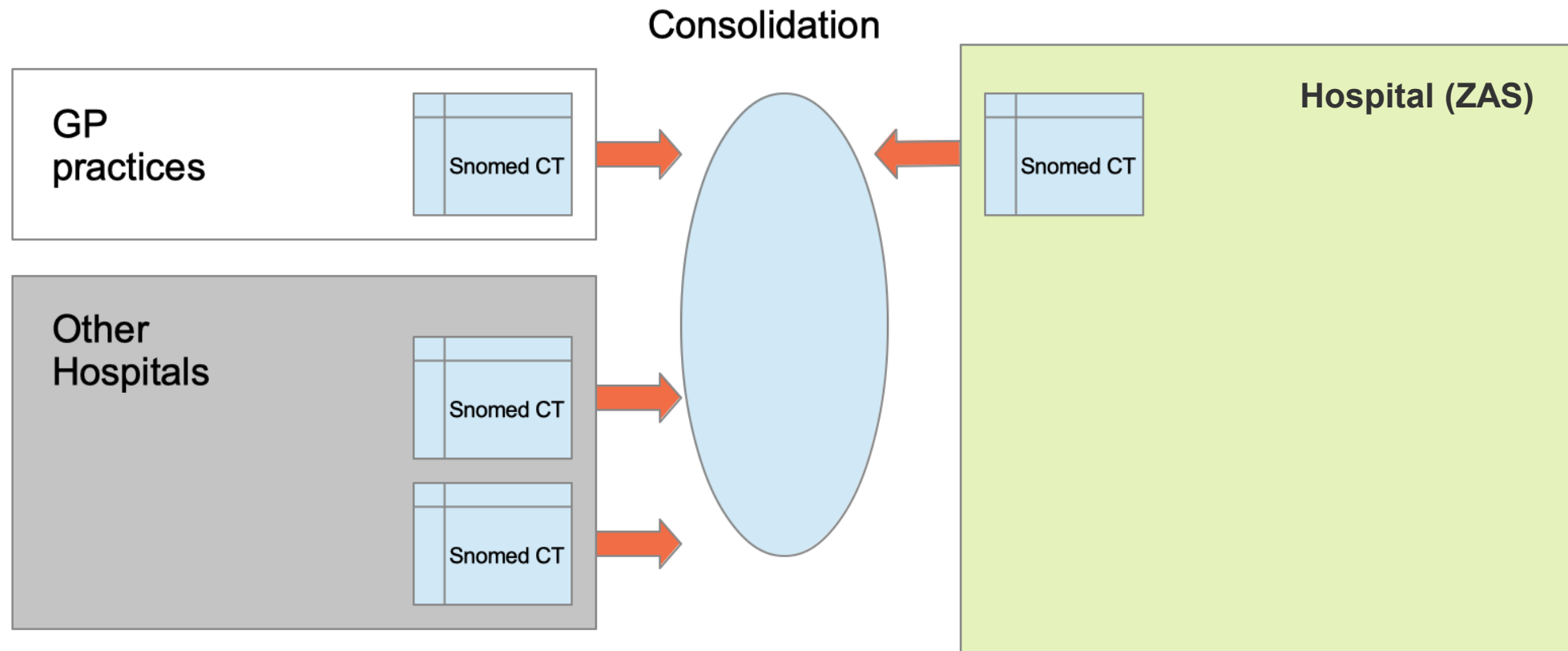
Overige acties:

- Aandachtspunten (+) (🔍)
- Behandelbeperking (+) (📄) (🔍) (🩸)
- Isolatie-indicaties (+) (🔍)
- Allergieën en bijwerkingen (🌸) (🔍) (🔗)
- Medicatie (📧) (🔗) (📄) (📄) (📄) (🔍)

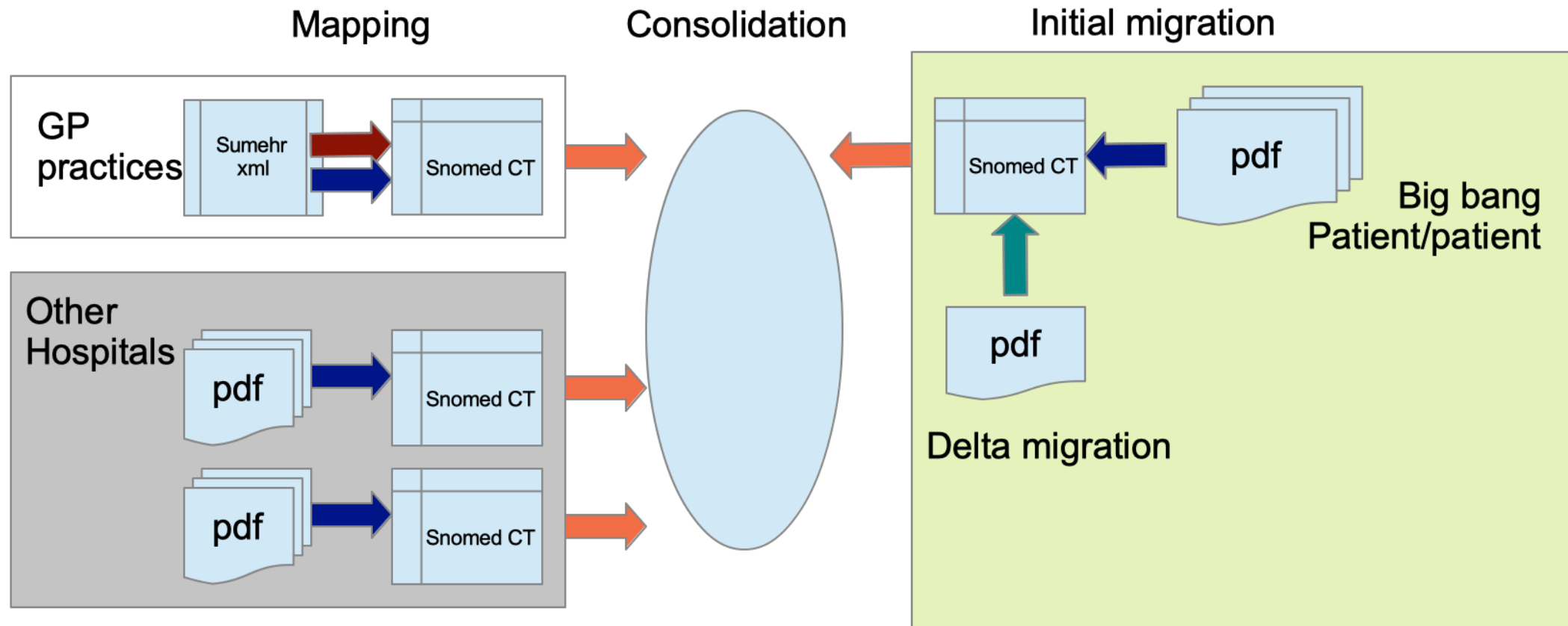
Herstel splitscreen naar het midden

Toevoegen (⊕) | Uitgebreid (^) | Overige acties (⋮) | Sluiten (✕)

BE Patient Problemlist ViewerEditor (Patient Explorer)



BE Patient Problemlist ViewerEditor (Patient Explorer)



Initial migration to structured problem list

Kick start

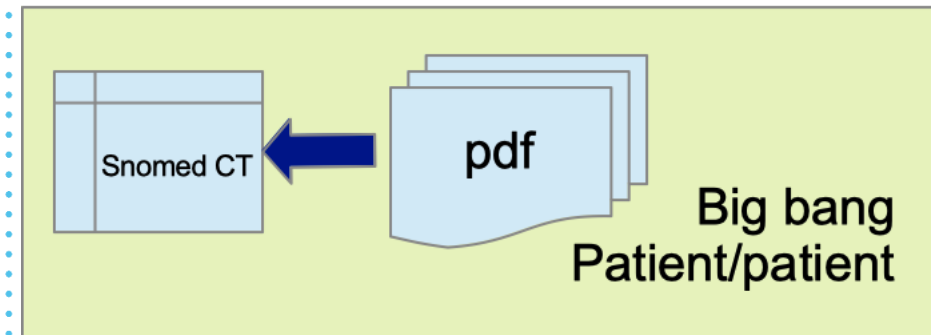
Introduction to Snomed CT structured problem list

Creation of first structured problem list

Prepared in bulk (big bang) or

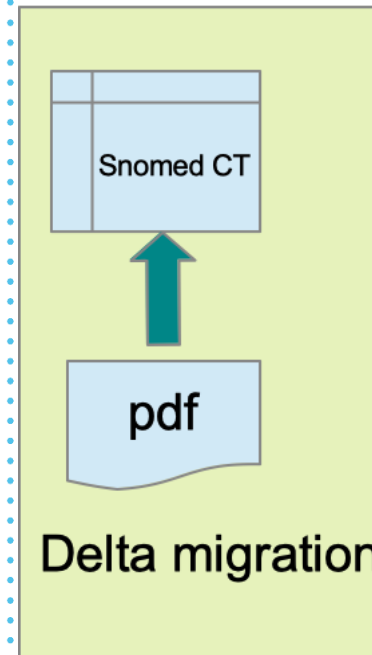
Triggered by patient contact (patient by patient)

Initial migration



Delta migration

Updating of problemlist
e.g. based on new discharge letter
Integrated in clinical workflow



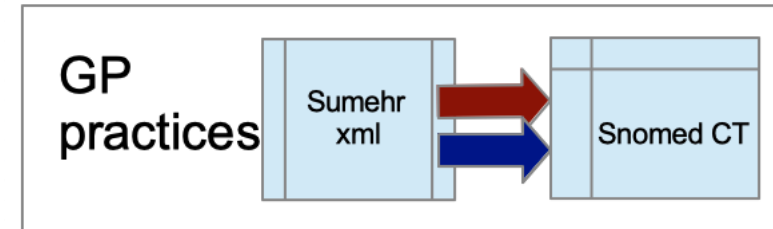
Migration and mapping

Move from XML to FHIR caresets

Free text to Snomed CT

GP coding (ICPC, ICD10, IBUI) to Snomed CT

Mapping



Ongoing initiatives and next steps

Real world implementation and optimisation

- BE Patient Problemist – Antwerp (ZAS, UZA, GPs)

Scale up to all hospitals and all GPs

- Open sourcing
- Potential eHealth Base service
- Introduction of local Snomed CT problemlists
- Change management

Expand to International Patient Summary

Supporting projects

- CMIO – Snomed CT Implementation network
- Communication and training initiatives
- Evaluate structured problemist as a service