Datenraum „Hands-On" – Ein synthetisches Beispiel


Thomas Berlage, Aachen, 22.03.2024

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Was zeige ich?

Ergebnisse eines kleinen Projektes

- Modelldatenraum mit **synthetischen Daten** entsprechend Krebsregistern, Kliniken, Industrie (Beraterkreis) aufbauen

- Auswertungen über ein **interaktives Dashboard** visualisieren

- Verteilte technische Abläufe **nachvollziehbar** machen

- Für **alle Stakeholder, Öffentlichkeit & Politik**, die inhaltliche Sinnhaftigkeit & technische Realisierung **„publikumswirksam"** zeigen
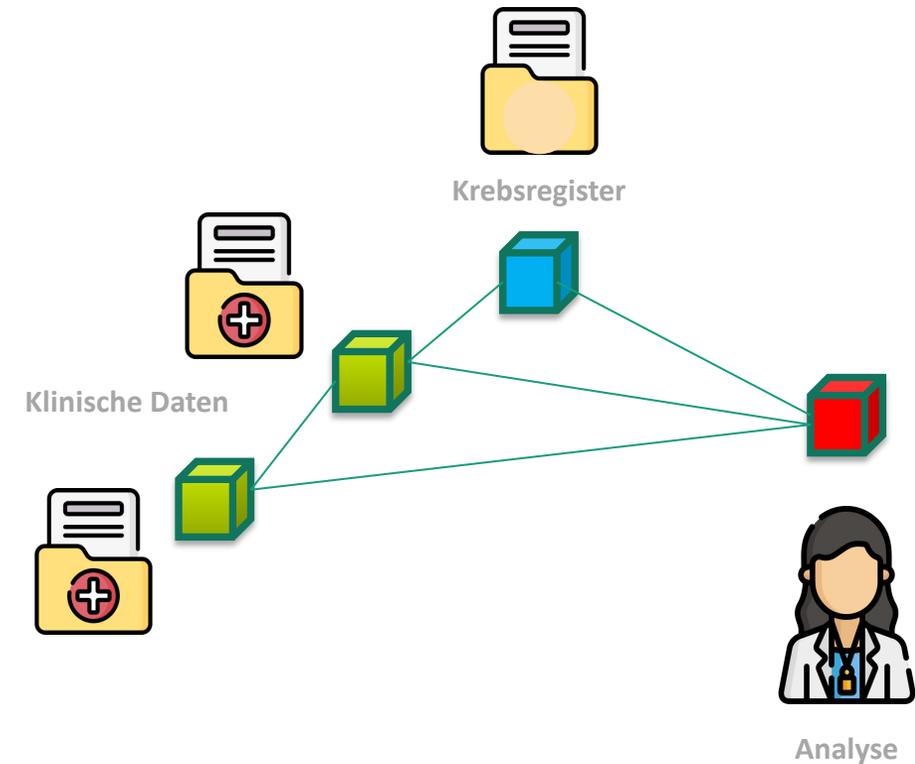
Save the date: Mehr Details am 29.04.2024

14:00 – 19:00 Uhr, Berlin, Fraunhofer-Forum

Krebsregister

Klinische Daten

Analyse

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DEMONSTRATOR

Sicht Klinik-Datensatz

👤 Patient Overview

⊞ Core Data

ID:	*453343*
Name:	*Alva958 Thompson596*
Age:	*62*
Gender:	🧍 male

🖳 Monitor Data

No Data

Encounter/s

Condition/s

Observation/s

Medication/s

Immunization/s

Procedure/s

Condition/s 🔍

Code	Date ↓	Clinical Status	Verification Status
Non-small cell carcinoma of lung, TNM stage 4 (disorder) [423121009]	07-12-2019	Active	Confirmed
Non-small cell lung cancer (disorder) [254637007]	05-12-2019	Active	Confirmed
Anemia (disorder) [271737000]	05-12-2019	Active	Confirmed
Suspected lung cancer (situation) [162573006]	27-11-2019	Active	Confirmed

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Sicht Klinik-Datensatz (2)

👤 Patient Overview

⊞ Core Data

ID:	*453343*
Name:	*Alva958 Thompson596*
Age:	*62*
Gender:	🧍 male

🖳 Monitor Data

No Data

Encounter/s

Condition/s

Observation/s

Medication/s

Immunization/s

Procedure/s

Medication/s 🔍

Medication	Status	Authored Date
PACLitaxel 100 MG Injection	Stopped	23-06-2020
Cisplatin 50 MG Injection	Stopped	24-06-2020
PACLitaxel 100 MG Injection	Stopped	24-06-2020
Cisplatin 50 MG Injection	Stopped	25-06-2020
PACLitaxel 100 MG Injection	Stopped	25-06-2020

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Sicht Krebsregister-Datensatz

👩Patient Overview

ID:	*92740*
Name:	*Antonetta450 O'Hara248*
Birthdate [age]:	*1959-06-22 [62]*
Gender:	👩 female
Deceased Date:	*2021-07-19*
Region/ Country:	*MA/ US*
Organization:	*SOUTH SHORE HOSPITAL INC.*
Definition:	• *Suspected lung cancer (situation) [162573006]* • *Non-small cell lung cancer (disorder) [254637007]*
Diagnose:	*Non-small cell carcinoma of lung, TNM stage 4 (disorder) [423121009]*
Diagnose date:	*07-12-2020*
TNM stage:	*Stage 4*

Noch nicht realistisch, Aufbau bitte ignorieren!

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Use Case 1: Häufigkeit unterschiedlicher Diagnosen
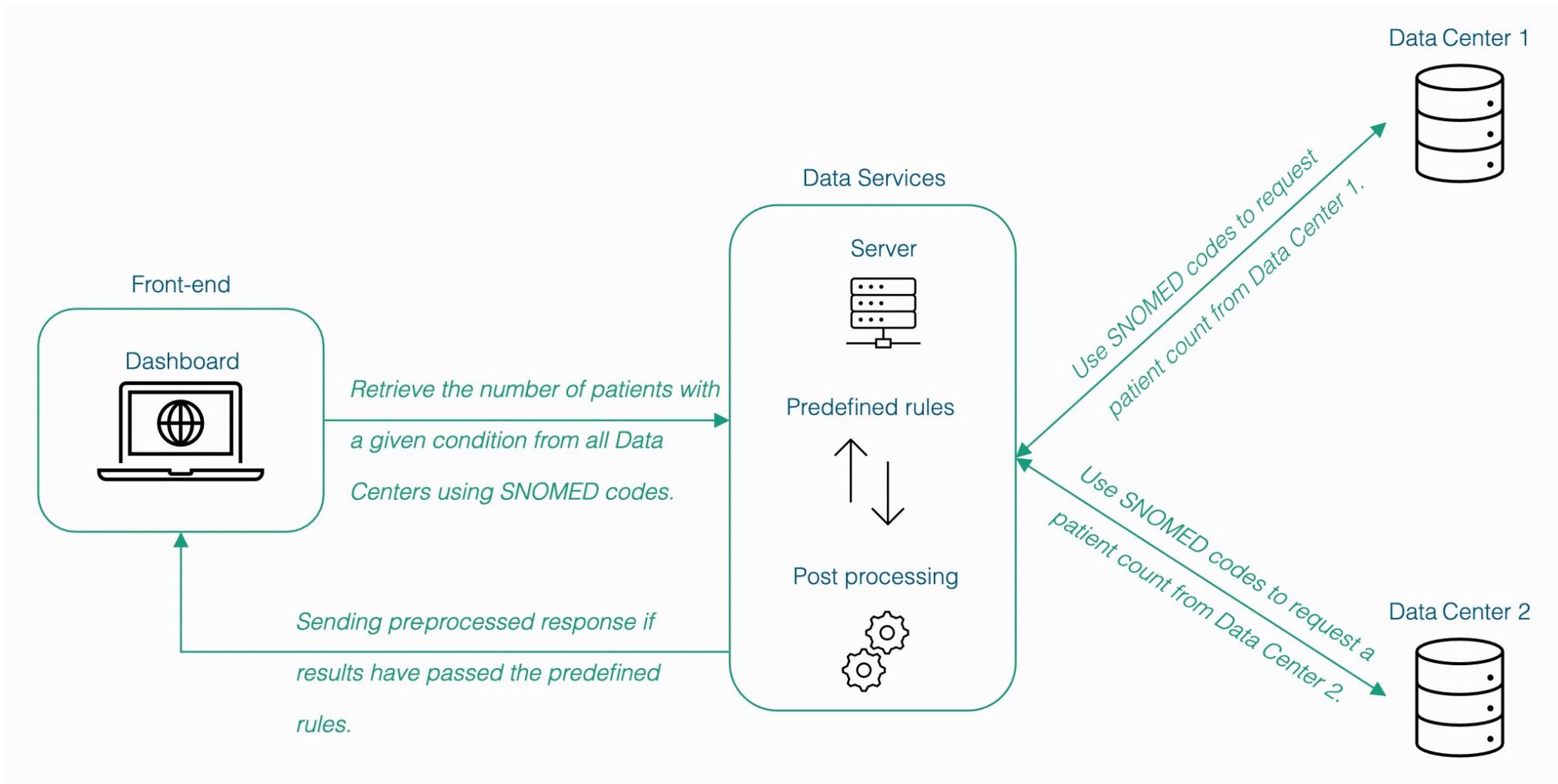
Resultat

SNOMED code	Condition	Count
162573006	Suspected lung cancer (situation)	27
254632001	Small cell carcinoma of lung (disorder)	5
254637007	Non-small cell lung cancer (disorder)	23
271737000	Anemia (disorder)	17
422968005	Non-small cell carcinoma of lung, TNM stage 3 (disorder)	5
423121009	Non-small cell carcinoma of lung, TNM stage 4 (disorder)	16
425048006	Non-small cell carcinoma of lung, TNM stage 2 (disorder)	Less than 5 patients!
67841000119103	Primary small cell malignant neoplasm of lung, TNM stage 4 (disorder)	Less than 5 patients!
67831000119107	Primary small cell malignant neoplasm of lung, TNM stage 3 (disorder)	Less than 5 patients!

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Use Case 2: Überleben bei verschiedenen Therapievarianten
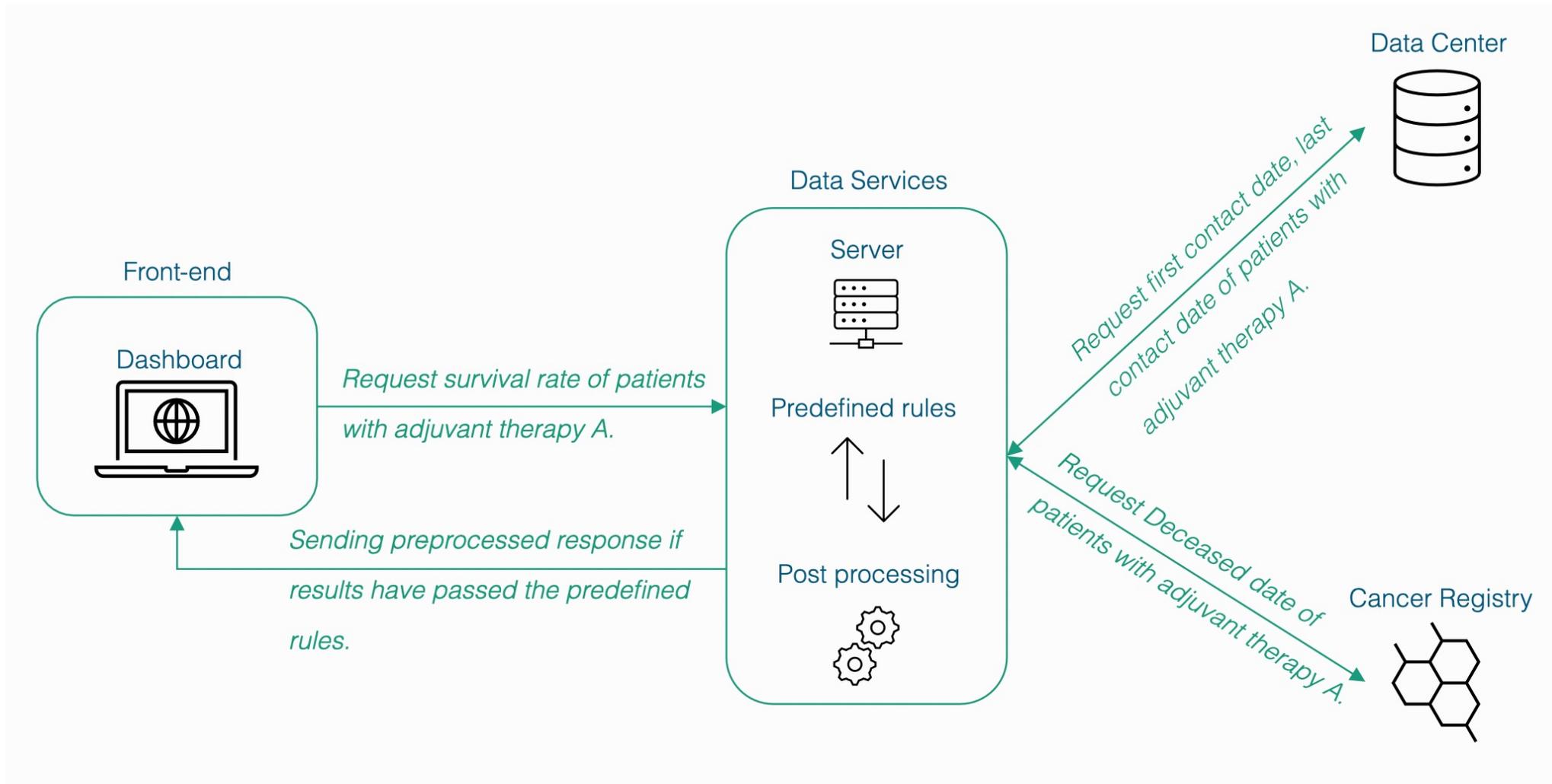
Resultat

Wer betreibt und verantwortet was? Wollen wir Wettbewerb?