

OMOP project evolvement
at Technische Universität
Dresden over the past years

PRESENTER: Ines Reinecke

BACKGROUND

Technische Universität Dresden is the competence centre for OMOP in the MIRACUM consortia (German Medical Informatics Initiative (MI-I)) and thus delivers OHDSI infrastructure + ETL jobs that allow the transfer of clinical data compliant to the FHIR based German MI-I core data set to OMOP. This poster showcases our activities that helped us become a nationally recognized expert team and presents new OMOP projects.

METHODS

- 1. **Education:** grow as team — tasks are divided into own education and knowledge sharing, workshops, OHDSI tools integration in student teaching session
- 2. **Asset harvesting + improvement:** Share and improve created assets to fit requirements of new projects and work on German vocabulary improvements
- 3. **Networking:** Founded OHDSI Germany in 2021 to collaborate nationwide
- 4. **Ideas factory:** Evaluation of the valuable usage of OMOP when participating in tenders to create mutual beneficial effects across our projects.

RESULTS

MIRACUM: Patient recruitment infrastructure based on OMOP and FHIR to increase number of potential participants for clinical trials.

EHDEN: Successful data partner application to revise currently available data in OMOP.

SATURN: Aims to map rare disease data into OMOP for an AI platform to deliver solutions that can improve patient life.

CODEX: Establishes a COVID-19 research infrastructure. OMOP infrastructure rollout and mapping of the German Corona Consensus Dataset (GECCO) is currently in progress.

MiHUBx: MI-I infrastructure extension to non-university hospitals and inclusion of resident doctors based on OMOP to extend patient observation periods.

Hybrid-QI: Aims to link statutory health insurance data with inpatient data in OMOP to improve existing quality indicators.



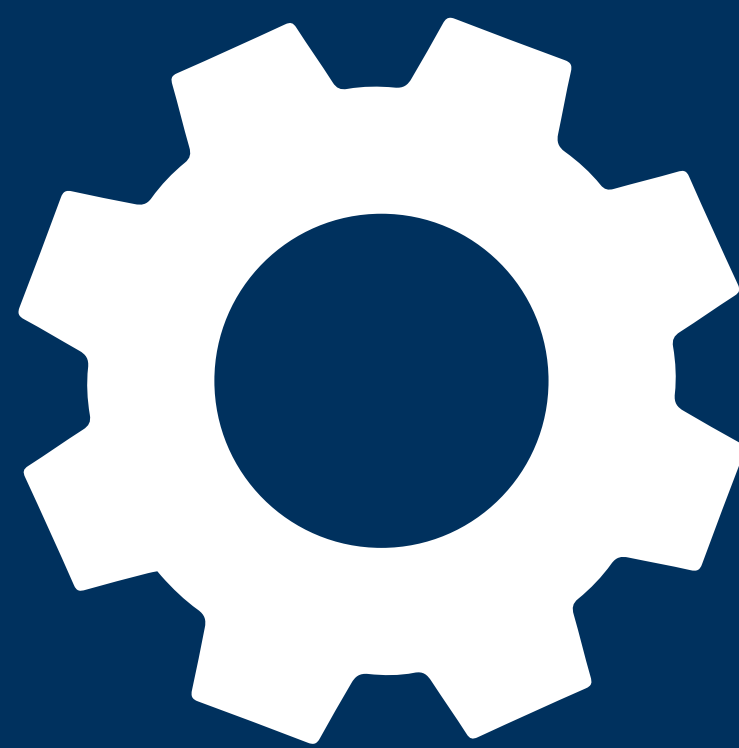
Carl Gustav Carus
Faculty of Medicine



Initially 1 project to now 6 projects
with OMOP CDM as infrastructure base



Education



Assets



Network



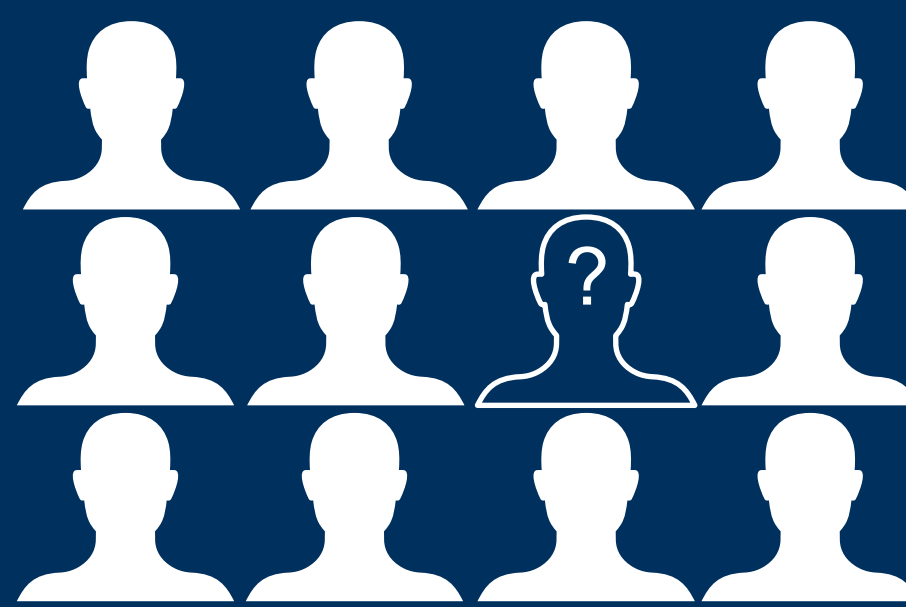
Ideas



MIRACUM



EHDEN



SATURN



CODEX



MiHUBx



Hybrid-QI

CONCLUSION

- 1. Gained experience and existing assets (infrastructure + ETL jobs) are a solid fundament + good starting point to acquire new projects
- 2. Continuously growing expertise — become trustable partner
- 3. Obstacles still exist, especially due to the national terminologies and incomplete mappings to standard vocabularies

PROJECT DETAILS



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