

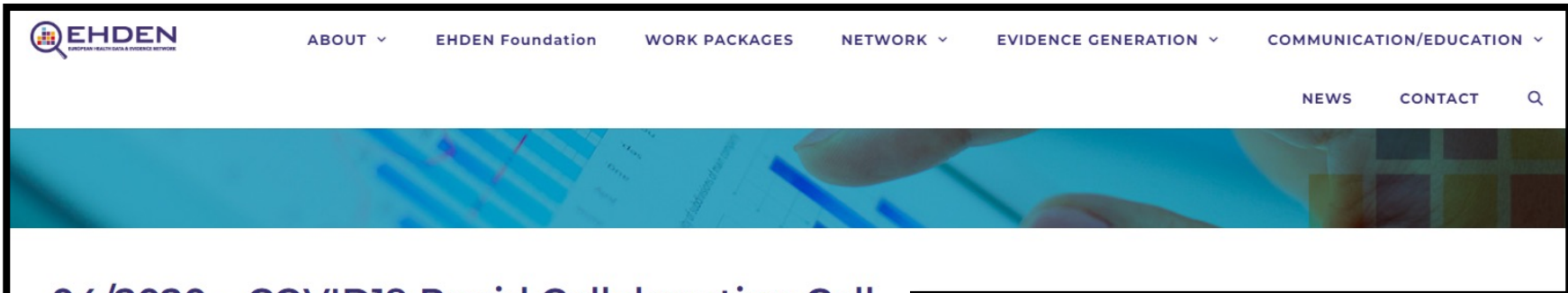


European Health Data & Evidence Network - learnings from building out a standardized international health data network

Recent OHDSI Publications
2023 DEC 05

Voss, E. A., Blacketer, C., van Sandijk, S., Moinat, M., Kallfelz, M., van Speybroeck, M., Prieto-Alhambra, D., Schuemie, M. J., & Rijnbeek, P. R. (2023). European Health Data & Evidence Network-learnings from building out a standardized international health data network. *Journal of the American Medical Informatics Association : JAMIA*, ocad214. Advance online publication. <https://doi.org/10.1093/jamia/ocad214>

Background

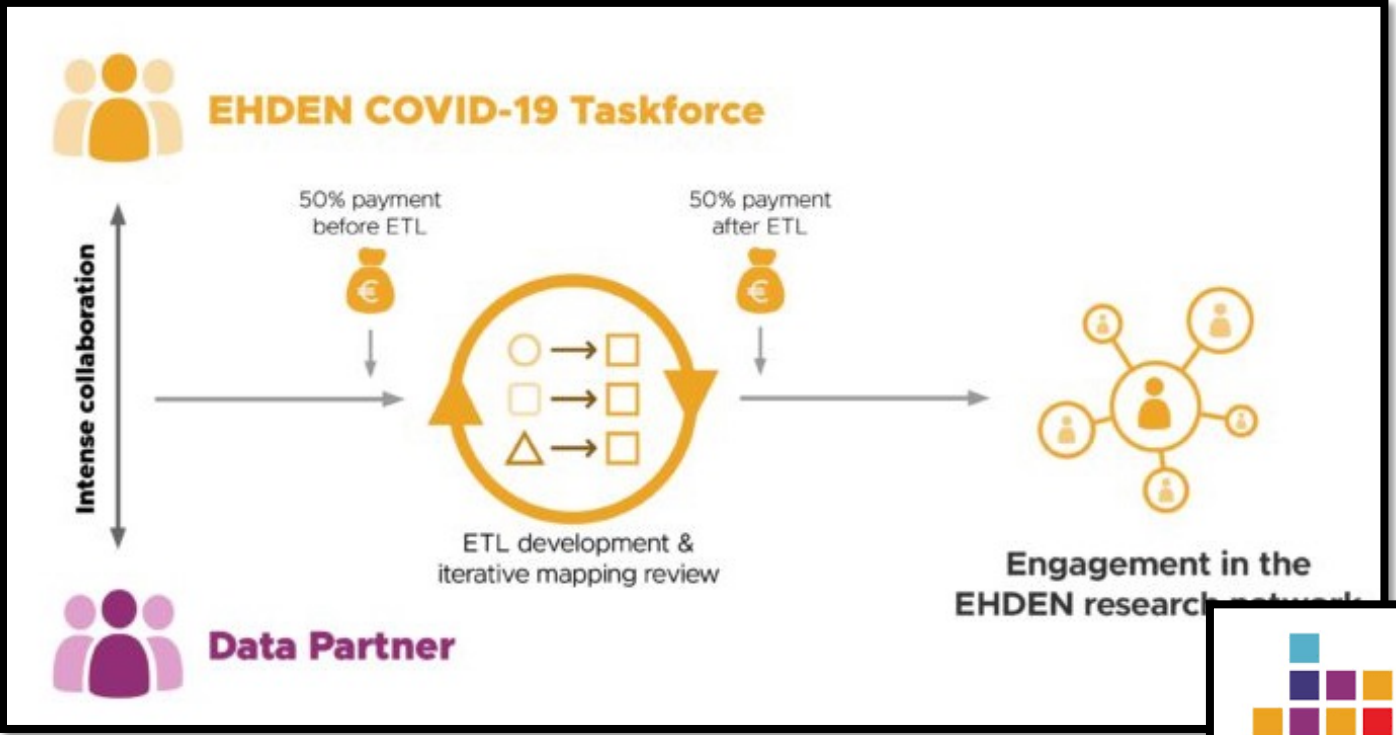


04/2020 – COVID19 Rapid Collaboration Call

Detailed information about the COVID-19 Rapid collaboration call can be found in the [Data Partner Pilot Call](#).
The Rapid Collaboration Call was open between April 16th 12h00 CET and run until May 14th 17h00 CET.

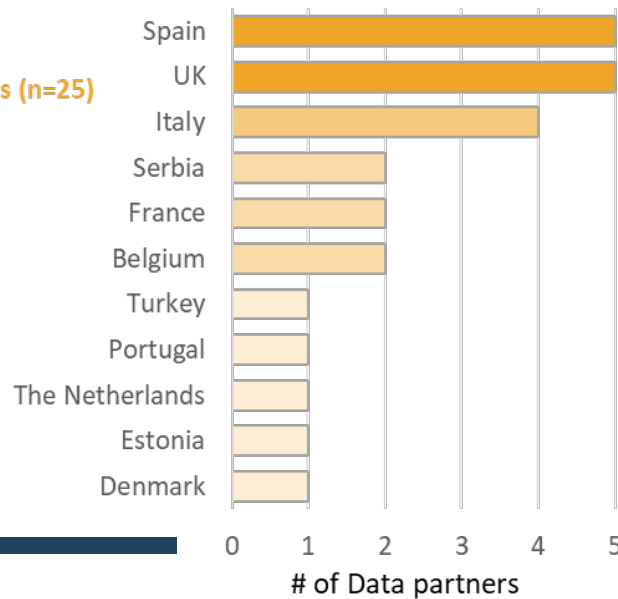
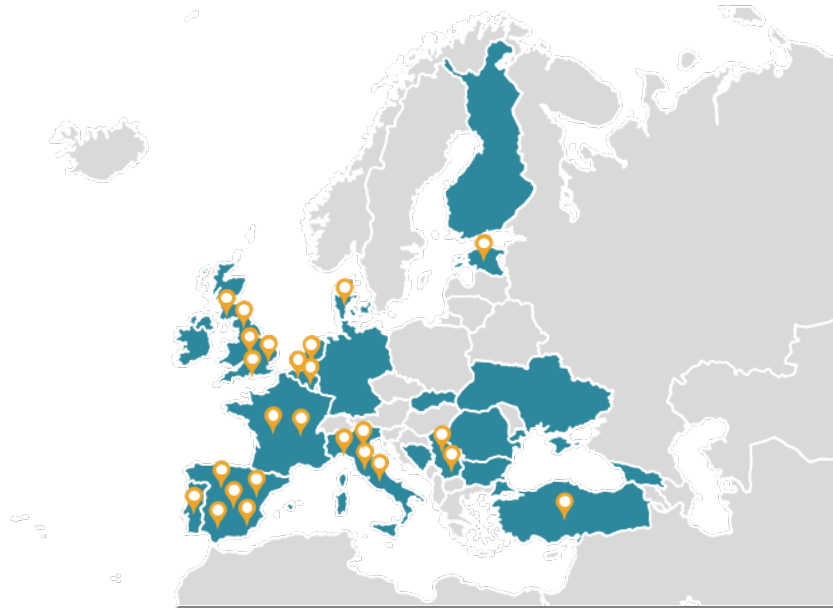
Why ?

With the world fighting the SARS-CoV-2 pandemic and dealing with rapidly growing numbers of COVID-19 patients, we need more about **characterising patients with COVID-19**, how best to **manage their care**, and if certain **treatment** options are effective. Data and derived insights and evidence are the lifeblood of pandemic decision-making, whether clinically for patients or for public health. Outside of a pandemic, as well as during this one, real-world health data is often fragmented and difficult to work with. This call aims to address this.





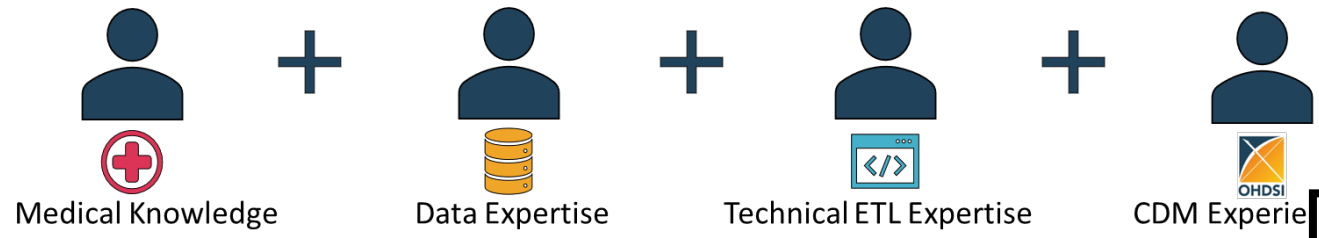
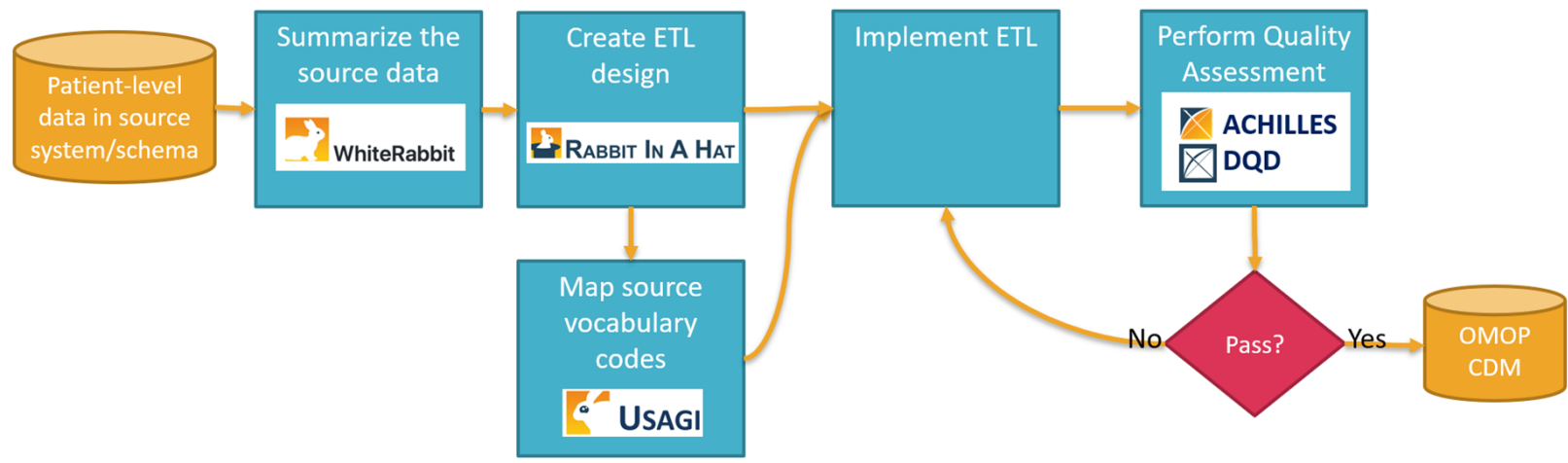
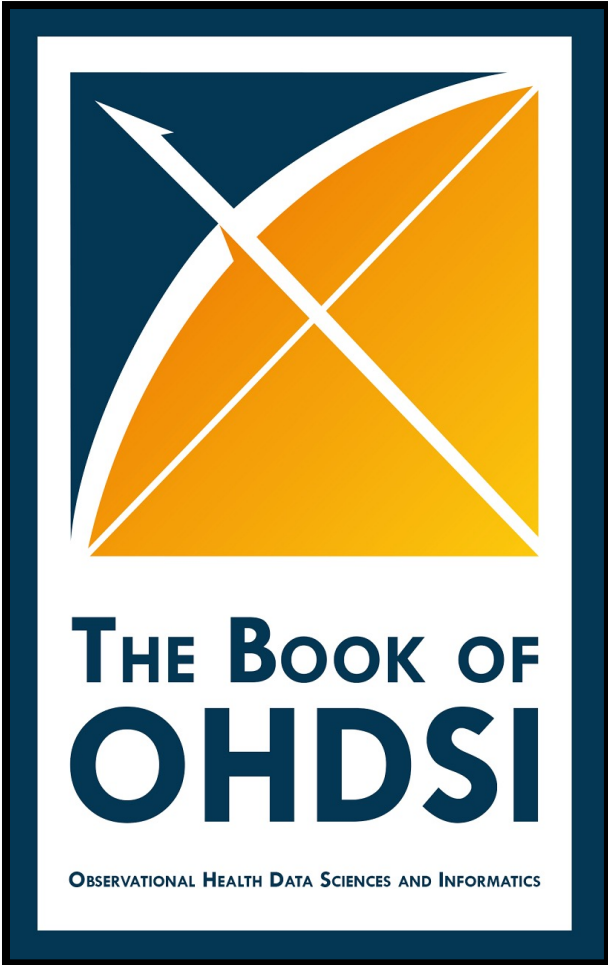
Background



| | |
|----|---|
| 1 | Assistance Publique Hopitaux de Marseille |
| 2 | SIDIAP - The Information System for Reseach in Primary Care |
| 3 | Center for Surgical Science (CSS) |
| 4 | Fondazione IRCCS Istituto Neurologico Carlo Besta FINCB |
| 5 | Amsterdam UMC |
| 6 | Health Informatics Centre (HIC) |
| 7 | UCL (UK Biobank) [BigData@Heart] |
| 8 | Royal College of General Practitioners Research and Surveillance Centre |
| 9 | Servicio Cantabro de Salud and IDIVAL |
| 10 | University of Tartu |
| 11 | ULSM(Rosa Maria Príncipe) |
| 12 | Clinical Practice Research Datalink |
| 13 | Istanbul University Istanbul Faculty of Medicine |
| 14 | FIIBAP |
| 15 | Clinical Center of Serbia |
| 16 | Fondazione Poliambulanza Istituto Ospedaliero |
| 17 | LynxCare |
| 18 | Health Data Hub |
| 19 | Medaman |
| 20 | Azienda Policlinico Universitaria di Modena |
| 21 | Marco Massari (IRCSSE) |
| 22 | FIMIM/PSMAR |
| 23 | BIOCRUCES BIZKAIA HEALTH RESEARCH INSTITUTE |
| 24 | Clinical centre of Nis |
| 25 | DataLoch |



Background





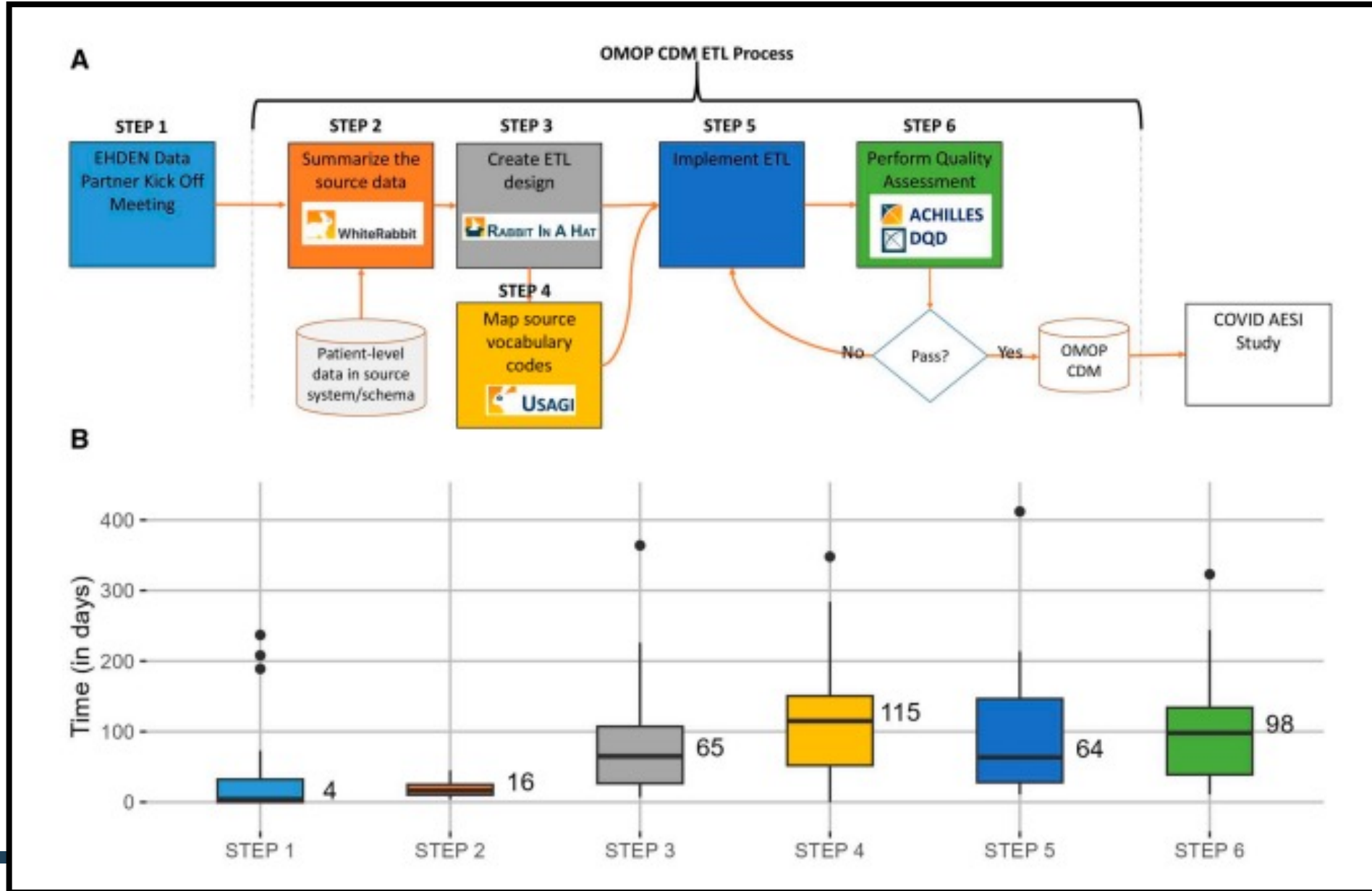
Approach

- Each Data Partner was expected to follow the current OMOP CDM ETL development process
- The process was tracked in 3 ways
 - (1.) tracking data associated to ETL process
 - (2.) through surveys of DP
 - (3.) DataQualityDashboard results
- Success was measured as
 - total days to transform source data into the OMOP CDM (success: < 365 days)
 - if a DP participated successfully in network research (COVID-19 AESI study [1])
- 21 data partners were completed at the time of writing and the results reported for them





Results - tracking data associated to ETL process





Results - *through surveys of DP*

- Through Surveys of DPs:

| Survey question | Options | No. of data partners |
|---|--------------------------------|----------------------|
| What will be your primary role in this project? <i>(summarized as often as the role showed up, it is possible for multiple roles to be present on one team, however the role was only counted once per team)</i> | Informatician | 20 |
| | Computer scientist | 17 |
| | Project manager | 16 |
| | Data manager | 8 |
| | Clinical scientist | 7 |
| | Person in medicine | 4 |
| | Health policy individual | 3 |
| | Epidemiologist | 3 |
| | Statistician | 2 |
| | Something other than the above | 5 |
| Preferred not to say | 0 | |

- Success Measures:

- Of the 21 DPs, 52% had built their CDM in under 365 days, 43% participated in the COVID-19 AESI study [1], and 33% had both a timely ETL and participated in the COVID AESI study





Main Conclusions

- Previously Identified:
 - Having the right composition of **team** provided important.
 - **Mapping source codes** to the OHDSI Standardized Vocabularies was frequently mentioned a challenging and took significant time.
- Novel Findings:
 - Uncovered the importance of establishing **governance rules** prior to the initiation of the work