



OHDSI



State of the OHDSI Community: Where have we been? Where are we going?

George Hripcsak MD MS

Director, Columbia University OHDSI Coordinating Center
Professor of Biomedical Informatics
Columbia University Irving Medical Center



Welcome to OHDSI 2025!





Thank you OHDSI 2025 Symposium Sponsors!



Johnson & Johnson





Thank you to our inaugural
OHDSI Advisory Board member

AMGEN[®]



Thank you for OHDSI 2025 Scientific Review Committee

- Adriana Campos
- Anna Ostropolets
- Anum Minhas
- Asieh Golozar
- Ben Hamlin
- Ben Martin
- Bill Baumgartner
- Christophe Lambert
- Chungsoo Kim
- Clair Blacketer
- Daniel Nugroho
- Davera Gabriel
- Evan Minty
- Evanette Burrows
- Hanieh Razzaghi
- James Gilbert
- Joel Swerdel
- Jose Posada
- Juan Banda
- Kanakadurga Kunamneni
- Kevin Haynes
- Linying Zhang
- Melanie Philofsky
- Mornin Feng
- Mui Van Zandt
- Naijun Chen
- Nicole Pratt
- Patrick Ryan
- Paul Nagy
- Regan Harle
- Rupa Makadia
- Sarah Seager
- Seng Chan You
- Shanshan Lin
- Summera Zhou
- Thamir Alshammari
- Tina Parciak
- Yudha Saputra
- Zhen Lin

Please stand!



Thank you to those who made today happen

- Elisse Katzman
- Craig Sachson
- Ann Marshak
- Anita Barrett
- Angely Arriaza Portillo
- Sofia Ellis-Chin
- Charika Johnson
- Ilse Vermeulen
- Patrick Ryan
- OHDSI Steering Workgroup
- Adit Anand
- Tara Anand
- James Baker
- Cindy Chen
- Fangyi Chen
- Yilu Fang
- Poonanakarn Panjasriprakarn
- Sandy Yang

Please stand!



Congratulations, 2025 Titan Award nominees!

Agnes Kiragga • Akihiko Nishimura • Alexey Manoylenko • ALS TDI's Real World Evidence Team • Andrew Williams • Andrew Kanter • Aniek Markus • Anna Ostroplets • Anthony Sena • Asieh Golozar • ATLAS Development Team • Ben Martin • Bill O'Brien • Bingyu Zhang • Carlos Diaz • Chungsoo Kim • Christopher Knoll • Clair Blacketer • Craig Sachson • Critical Path Institute's Data Science and Data Engineering team • Cynthia Sung • Daniel Prieto-Alhambra • DARWIN-EU Team • Data4Life Team • Dave Kern • Davera Gabriel • Department of Biomedical Systems Informatics, Yonsei University College of Medicine • Deran Mckeen • Diane Corey • Egill Fridgeirsson • Eric Fey • Evanette Burrows • Eye Care and Vision Research WG • FHIR to OMOP WG • Freija Descamps • German Soto • Greg Klebanov • Hannah Lee • Harry Reyes Nieva • HealthPartners Institute • Henrik John • Ian Braun • Ilse Vermeulen • IQVIA OMOP DARWIN Team • IQVIA OMOP Productized Analytics Team • James Gilbert • Jamie Weaver • Jared Houghtaling • Jason Hsu • Jenna Repts • Jiwon Um • Joel Swerdel • John Gresh • Justin Bohn • Katia Verhamme • Lars Halvorsen • Liesbet Peeters • Lotte Geys • Maarten van Kessel • Marc Suchard • Marti Catala Sabate • Martijn Schuemie • Marty Alvarez • Maxim Moinat • Michael Matheny • Michel Walravens • Mike Pauley • Milou Brand • Mitchell Conover • Mukkesh Kumar • OHDSI Belgium Team • Patricia Mabry • Patrick Ryan • Pavan Sudhakar • Peter Hoffmann • Peter Rijnbeek • Polina Talapova • Renske Los • REWARD Team • Richard Boyce • Roger Carlson • Sam Patnoe • SciForce Team • Treatment Patterns Team • Vaccine Vocabulary Team • Will Roddy

Please stand!



A moment of silence for those not with us today



Jamie Weaver



Andrew Williams



OHDSI's mission

To improve health by empowering a community to collaboratively generate the evidence that promotes better health decisions and better care



OHDSI's values

- **Innovation:** Observational research is a field which will benefit greatly from disruptive thinking. We actively seek and encourage fresh methodological approaches in our work.
- **Reproducibility:** Accurate, reproducible, and well-calibrated evidence is necessary for health improvement.
- **Community:** Everyone is welcome to actively participate in OHDSI, whether you are a patient, a health professional, a researcher, or someone who simply believes in our cause.
- **Collaboration:** We work collectively to prioritize and address the real world needs of our community's participants.
- **Openness:** We strive to make all our community's proceeds open and publicly accessible, including the methods, tools and the evidence that we generate.
- **Beneficence:** We seek to protect the rights of individuals and organizations within our community at all times.



Our Journey

*Where The OHDSI Community Has Been
And Where We Are Going*
2025 edition

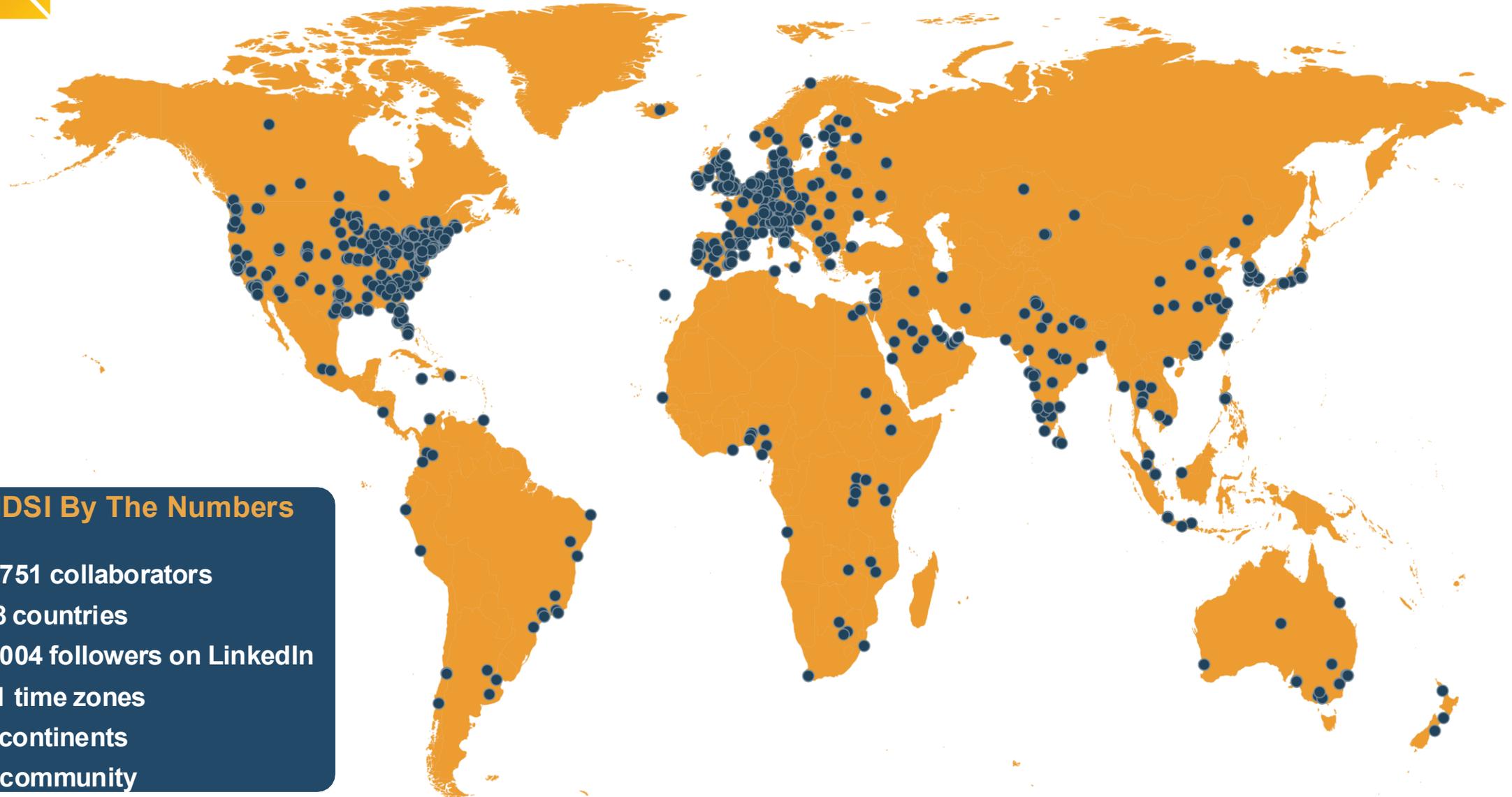


OHDSI
OBSERVATIONAL HEALTH DATA SCIENCES AND INFORMATICS





OHDSI collaborators



OHDSI By The Numbers

- 4,751 collaborators
- 88 countries
- 9,004 followers on LinkedIn
- 21 time zones
- 6 continents
- 1 community

Join the Journey at <https://ohdsi.org/>



Workgroups led by community

ATLAS/WebAPI Christopher Knoll	 Alexey Manoylenko	Clinical Trials Mike Hamidi	 Zhen Lin	Common Data Model Clair Blacketer	 Nicole Garland	CDM Survey Anna Ostropolets	CDM Vocabulary Paul Nagy	Medical Imaging Seng Chan You	 Martijn Schuemie	Methods Research Maro Suchard	 Vipina Keloth	Natural Language Processing Hua Xu	 Clair Blacketer	Network Data Quality		
Databricks Users John Gresh	Dentistry Robert Koski	Early-Stage Researchers Shounak Chattopadhyay	 Bon Martin	 Harry Reyes Niewa	Electronic Animal Health Records Manlik Kwong	 Wayde Shipman	Oncology Asieh Golozar	 Adam Black	Open-Source Community Paul Nagy	 Jenna Reys	Patient-Level Prediction (PLP) Ross Williams	 Alison Callahan	Perinatal and Reproductive Health Stephanie Leonard			
Evidence Network Partners Clair Blacketer	 Paul Nagy	Eye Care and Vision Research Sally Baxter				 Cindy Cai	 Kerry Goetz	 Michelle Hribar	FHIR and OMOP Davera Gabriel	Perinatal and Reproductive Health Louisa Smith	 Gowtham Rao	 Azza Shoabi	Psychiatry Dmytry Dymshyts	 Callum Harding	 Xiaoyan Wang	Rare Diseases Chunhua Wong
FHIR and OMOP Ben Hamlin	 Guy Tsafnat	Generative AI & Analytics in Healthcare Martijn Schuemie	GIS - Geographic Information Systems Robert Miller	 Kyle Zollo-Venecek	 Anthony Sena	 Martijn Schuemie	HADES	Rehabilitation Esther Janssen	 Ruud Salles	 George Hripesak	Steering Patrick Ryan	 Jenny Lane	Surgery and Perioperative Medicine Evan Minty	 Melanie Philofsky	Themis	
Health Economics and Value Assessment Gaurav Dravida	 Gowtham Rao	Health Equity Atif Amin	Healthcare Systems Melanie Philofsky	 Paul Dougall	Industry Sarah Seager	Medical Devices Asiyah Lin	Transplant Michal Mankowski	 Oliver Ho	Vaccine Vocabulary Asiyah Lin	Women of OHDSI Sarah Seager						

Workgroups Homepage

In OHDSI, there is a home for you. Please visit our workgroups home page to learn more about each group, find the meeting schedule and sign up to one or several workgroups!



www.ohdsi.org/workgroups



Regional chapters and national nodes

Africa



Agnes Kiragga



Cynthia Sung

Asia-Pacific (APAC)



Mui Van Zandt

Australia



Nicole Pratt

China



Hua Xu

Europe



Peter Rijnbeek

India



Swetha Kiranmayi Jakkuv



Vikram Patil



Parthiban Sulur

Japan



Tatsuo Hiramatsu

Latin America



Julio Oliveira

Republic of Korea



Rae Woong Park

Singapore



Seng Chan You



Mengling 'Mornin' Feng

Taiwan



Jason Hsu

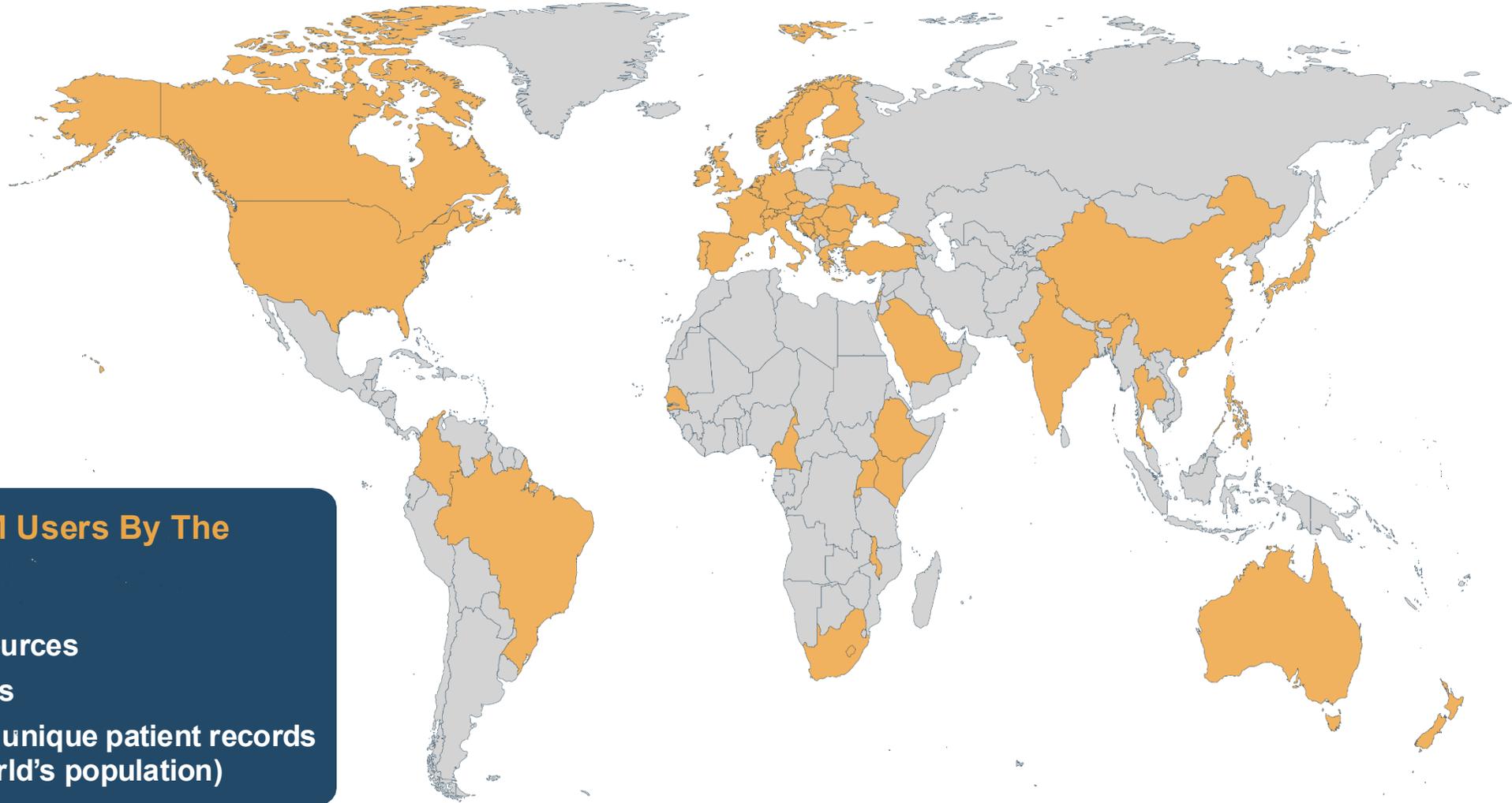
Node..... Lead(s)

Belgium	Liesbet Peeters, Annelies Verbiest, Ilse Vermeulen
Denmark	Ismail Gögenur, Martin Høyer Rose, Andreas Weinberger Rosen
Estonia	Raivo Kolde, Sulev Reisberg
Finland	Eric Fey, Gustav Klingstedt
Germany	Ines Reinecke, Michele Zoch
Greece	Anastasia Farmaki, Pantelis Natsiavas, Grigoris Papapostolou
Hungary	Zsolt Bagyura, Ágota Mészáros
Ireland	Aedin Culhane, Mark Lawler, Catherine Mahoney
Israel	Chen Yanover
Italy	Lucia Sacchi, Matteo Gabetta
Luxembourg	Claudine Backes, Andreas Kremer, Maria Quaranta
Netherlands	Renske Los, Aniek Markus
Norway	Espen Enerly, Siri Larønningen
Portugal	Patricia Couceiro, Carmen Nogueira
Spain	Miguel Angel Mayer, Talita Duarte Salles
Switzerland	Olga Endrich, Karen Triep
United Kingdom	Dani Prieto-Alhambra
<i>coming soon</i>	<i>Austria, Sweden</i>





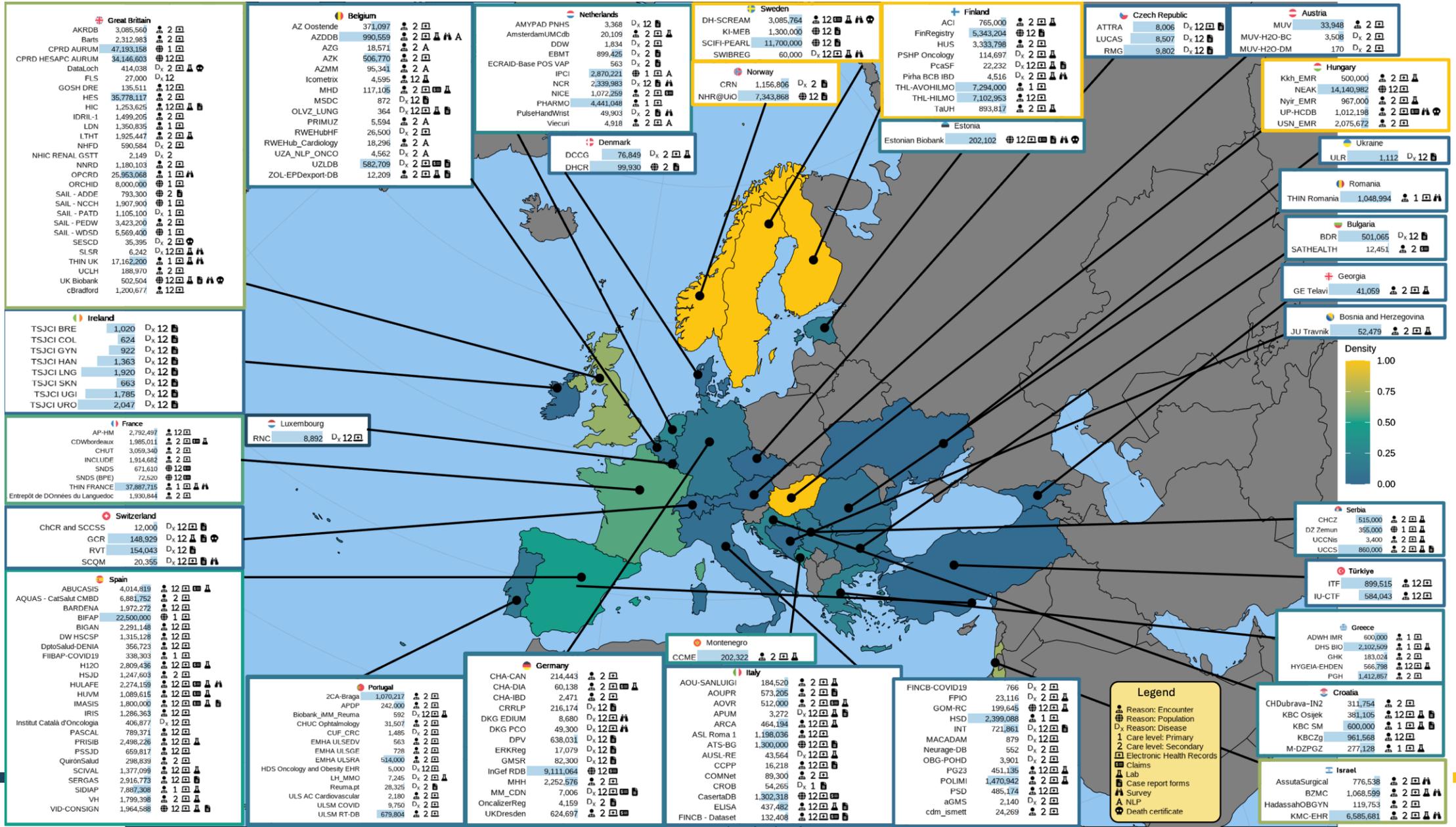
OMOP Common Data Model adoption



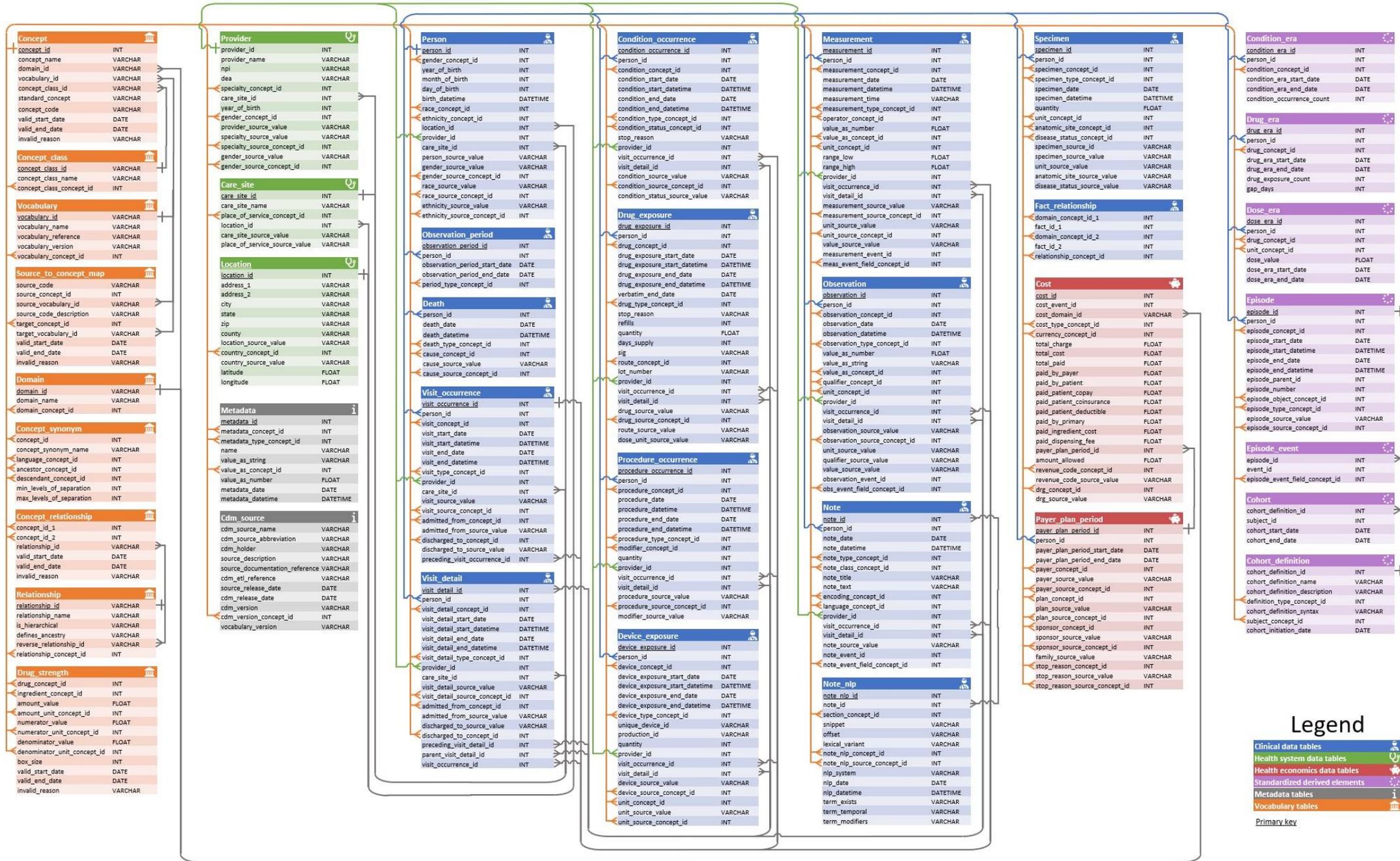
OMOP CDM Users By The Numbers

- 544 data sources
- 54 countries
- 974 million unique patient records (12% of world's population)

European Health Data & Evidence Network (EHDEN)

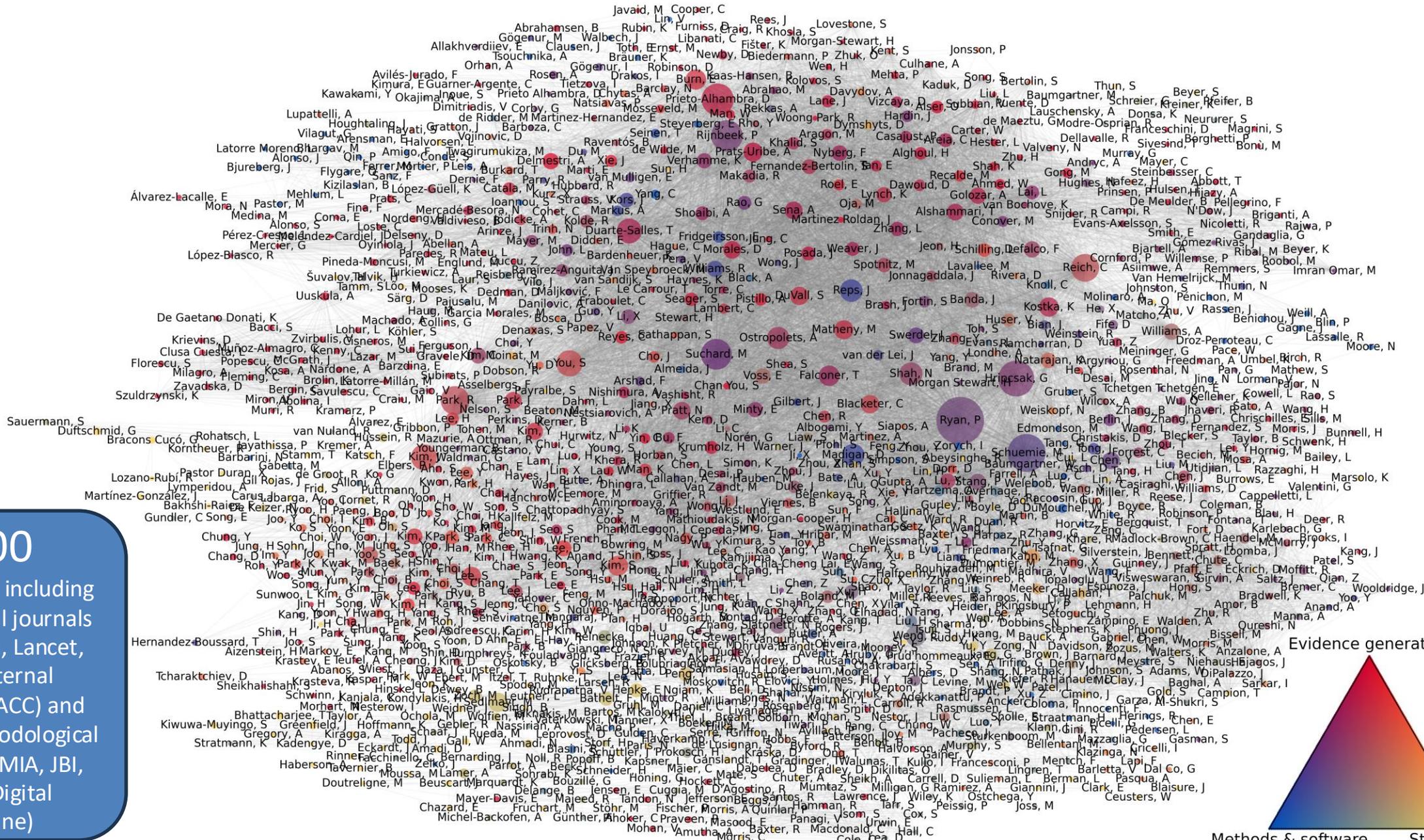


OMOP Common Data Model 5.4

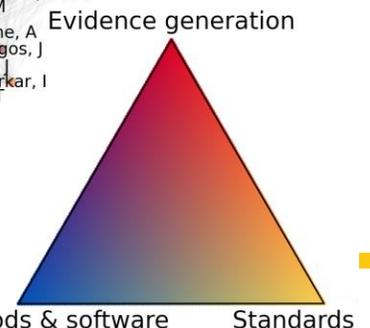




OHDSI collaborations in scholarship



>900
publications, including
in top clinical journals
(JAMA, BMJ, Lancet,
JAMA Internal
Medicine, JACC) and
leading methodological
journals (JAMIA, JBI,
Nature Digital
Medicine)





Book of OHDSI

Christian Reich and Sarah Seager

Adam Kiehl
Albert Prats Uribe
Alicia Abellan
Alison Callahan
Andrew Williams
Anna Ostropolets
Anne Martel
Anthony Sena
Asieh Golozar
Asiyah Lin
Azza Shoaibi
Blake Dewey
Charles Bailey
Clair Blacketer
Cynthia Sung

Daniel Smith
Danielle Boyce
Davera Gabriel
David Vizcaya
Egill Fridgeirsson
Emma Bollig
Eric N. Brown
Feng Mengling
Gabriel Salvador
Gord Mawdsley
Gowtham Rao
Gregory Klebanov
Hamed Abedtash
Hanieh Razzaghi
James Brown

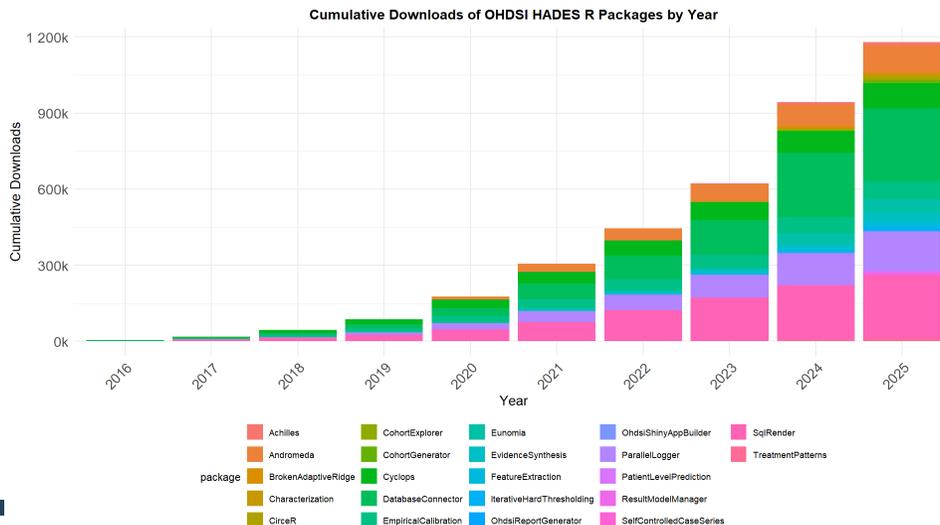
Jen Wooyeon Park
Jennifer Granick
Joel Swerdel
Julie Cha
Kaveri A. Thakoor
Konstantin Iaroshovets
Kristin Kostka
Kyulee Jeon
Louisa H. Smith
Loyd Wayde Shipman
Manlik Kwong
Marc Suchard
Martijn Schuemie
Melanie Philofsky
Michael Hardisty

Michael Matheny
Michel J.F. Walravens
Mike Hamidi
Nicole Gerlanc
Paul Nagy
Pratyush Rai
Rakesh Babu
Regan Harle
Robert Koski
Rupa Makadia
Seng Chan You
Stephanie Leonard
Teri Sippel Schmidt
Vishwanath H. Prathikanti
Will Beasley



Open-source software development

- HADES is an ecosystem of 41 R packages to support standardized analytics for the OMOP CDM and across OHDSI network
- OHDSI CRAN packages (n=22) have been downloaded >1m times



Package	Version	Maintainer(s)	Availability
Achilles	v4.3.2	Frank DeFalco	CRAN
Andromeda	v3.1.1	Martijn Schuemie	CRAN
BioRxiv	v0.2.2	Martijn Schuemie	GitHub
BrokenAdaptiveBridge	v1.1.1	Marc Suchard	CRAN
CaR	v2.2.0	Martin Lavallee	GitHub
Characterization	v2.2.0	Jenna Reps	CRAN
CirceR	v1.3.3	Chris Knoll	CRAN
CohortDiagnosics	v3.4.2	Jamie Gilbert	GitHub
CohortExplorer	v0.12.0	Gowtham Rao	CRAN
CohortGenerator	v0.12.0	Anthony Sena	CRAN
CohortIncidence	v4.1.0	Chris Knoll	GitHub
CohortMethod	v5.3.0	Martijn Schuemie	GitHub
Cyclops	v3.6.0	Marc Suchard	CRAN
DatabaseConnector	v6.4.0	Martijn Schuemie	CRAN
DataQualityDashboard	v2.7.0	Katy Sadowski	GitHub
DeepPatientLevelPrediction	v2.2.0	Egill Fridgeirsson	GitHub
EmpiricalCalibration	v3.1.4	Martijn Schuemie	CRAN
EnsemblePatientLevelPrediction	v1.1.2	Jenna Reps	GitHub
Eunomia	v2.2.0	Frank DeFalco	CRAN
EvidenceSynthesis	v1.2.0	Martijn Schuemie	CRAN
FeatureExtraction	v1.11.8	Ger Inberg	CRAN
Hydra	v0.4.0	Anthony Sena	Deprecated
IterativeHardThresholding	v1.0.3	Marc Suchard	CRAN
Keeper	v0.1.1	Anna Ostropolets	GitHub
MethodEvaluation	v2.4.0	Martijn Schuemie	GitHub
OhdsiReportGenerator	v1.1.1	Jenna Reps	CRAN
OhdsiShinyAppBuilder	v0.2.2	Lee Evans	GitHub
OhdsiShinyAppBuilder	v1.0.0	Jenna Reps	CRAN
OhdsiShinyModules	v1.1.0	Jenna Reps	GitHub
ParallelLogger	v3.5.0	Martijn Schuemie	CRAN
PatientLevelPrediction	v6.5.0	Egill Fridgeirsson & Jenna Reps	CRAN
PhenotypeLibrary	v1.14.8	Gowtham Rao	GitHub
Phenostat	v0.2.18	Joel Swerdel	GitHub
ResultModelManager	v0.1.1	Jamie Gilbert	CRAN
SDHdx(Webapi)	v1.1.3	Gowtham Rao	GitHub
SelfControlledCaseSeries	v6.1.0	Martijn Schuemie	CRAN
SelfControlledCohort	v1.6.0	Jamie Gilbert	GitHub
ShinyAppBuilder	v2.2.0	Jenna Reps	Deprecated
SqIRender	v1.16.3	Martijn Schuemie	CRAN
Stratus	v1.4.1	Anthony Sena	GitHub
TreatmentPatterns	v3.1.1	Maarten van Kessel	CRAN

The open-source tools that empower OHDSI research are not only available to the community, but they are DEVELOPED by the community. We thank the many developers and maintainers who empower our research initiatives around the world!





Upcoming events

Join Us At The Inaugural OHDSI Africa Symposium

Nov. 10-12, 2025 • Joint Clinical Research Centre (JCRC) & Mestil Hotel Kampala



The inaugural OHDSI Africa Symposium will be held in Kampala at the Joint Clinical Research Centre (JCRC) and Mestil Hotel. Our community is delighted to introduce a new face-to-face opportunity in Africa, where OHDSI is growing at an exciting pace. We hope you will join us for this historical moment.

The first OHDSI Africa symposium will be hosted by JCRC and will begin with a dedicated one-day training course at JCRC, followed by a two-day main conference at Mestil hotel. Below are some important dates for you to save to your calendar:

Collaborator Showcase

- Submissions deadline: September 10
- Submissions review: September 11-30
- Notification of acceptance: October 5

Symposium

- Tutorial: November 10 at JCRC
- Main conference: November 11-12 at Mestil Hotel

Mestil Hotel Accommodations

Booking Code: JCRC

Booking Link: https://direct-book.com/properties/MestilDIRECT?promotion_code=JCRC25

2025 OHDSI APAC Symposium December 6-7 • Shanghai Jiao Tong University, China



The 2025 OHDSI APAC Symposium will be held in Shanghai, China at the Shanghai Jiao Tong University featuring a 1-day tutorial and a 1-day main conference. Here are some important dates for you to save to your calendar:

Collaborator Showcase



Support The Journey

The OHDSI community comprises a global team of volunteers who collaborate together using open-source tools and share best practices to support our shared mission of generating real-world evidence that promotes better health decisions and better care.

In order to foster growth in our community, the OHDSI Coordinating Center at Columbia University has created a sponsorship program and an advisory board. These programs allow both corporations and individuals to make meaningful contributions in support of OHDSI's central coordinating activities. Any amount of support enhances both our community and our mission.

If you are interested, please reach out to sponsorship@ohdsi.org.

Coordinating Center Support

- Provides central shared infrastructure and coordinates community activities to enable collaborations that advance OHDSI's mission
- Leads Steering Workgroup to provide guidance and support to enable the community to collaboratively generate evidence and the scientific work products necessary to generate evidence
- Supports current OHDSI leaders (workgroups, regional chapters, network studies, etc.) to achieve their objectives by communicating ongoing activities and successful accomplishments, encouraging participation and collaboration throughout the community, and empowering future leaders
- Maintains infrastructure and provides support to connect collaborators with collaboration opportunities
- Encourages more visitors to become collaborators
- Provides open access to OHDSI evidence and work products, including:
 - Distributing standardized vocabularies
 - Supporting open-source software with permissive licenses
 - Encouraging open sharing of study design and implementation
 - Maintaining open access to study results

Advisory Board

Columbia University recently created the Advisory Board of Columbia OHDSI program.

The goal of the OHDSI Advisory Board is to ensure OHDSI operates according to the established values, vision, and mission. A seat on this board costs \$100,000 per year. These funds are used to support costs associated with running OHDSI, including but not limited to programming and knowledge engineering support for the OHDSI vocabulary, cloud service management, data analytics, and the annual OHDSI conference. OHDSI Advisory Board members advise on OHDSI planned activities including vocabulary priorities, annual research initiatives, and tool development. We thank Amgen for being the first member of our Advisory Board.

If you are interested in learning more or in joining the board, please email George Hripcsak: hripcsak@columbia.edu.

Coordinating Center Responsibilities

Steward open community data standards

- vocabularies
- OMOP CDM
- support adoption in large multi-center initiatives
- foster external collaborations (HL7)

Enable open-source development

- host servers to enable development and continuous tool testing
- GitHub repo support
- support ATLAS demo
- create central infrastructure

Facilitate methods research & clinical applications

- host ATLAS collaboration environment
- support Evidence Network and ongoing network studies
- lead studies and develop tools

Encourage open sharing & evidence dissemination

- host OHDSI RShiny servers for open sharing of results (more than 230 Shine applications, including LEGEND)
- built results.ohdsi.org

Foster collaboration & empower community

- host and fund annual Global Symposium
- maintain forums, MS Teams
- facilitate weekly community calls, website, all other communications

Coordinating Center Costs: >\$1M annually



OHDSI 2025 Symposium agenda today

Time (ET)	Topic
7:00 am - 8:00 am	Lite Breakfast and Registration, Exhibits
7:15 am - 7:45 am	Newcomer Orientation Paul Nagy, Johns Hopkins University
8:00 am - 9:00 am	State of the Community: Welcome to OHDSI George Hripcsak, Columbia University
9:00 am - 9:30 am	Group Networking Activity
9:30 am - 10:15 am	Collaborator Showcase Poster/Software Demo Session #1
10:15 am - 12:00 pm	Plenary: Why network studies are necessary to improve trust in evidence Martijn Schuemle, Johnson & Johnson; Asleh Golozar, Nemesys Health; Cindy Cai, Johns Hopkins University; Patrick Ryan, Johnson & Johnson, Columbia University
12:00 pm - 1:00 pm	Buffet Lunch, Exhibits
1:00 pm - 2:00 pm	Plenary: Reflections on the evolution of pre- and postmarket safety review in CDER over 3 decades Judy Racoosin, US Food and Drug Administration (retired)
2:00 pm - 2:45 pm	Collaborator Showcase Lightning Talk Session #1 Moderator: Harry Reyes Nieva, Columbia University Bridging Standards: Creating OMOP data via Fast Healthcare Interoperability Resources (FHIR) and Health Information Networks Stephanie Hong, Johns Hopkins University OMOP Waveform Extension: A Schema for Integrating Physiological Signals and Derived Features into the OMOP CDM Jared Houghtaling, Tufts University Improving VSAC to OMOP Mapping Using LLM Assisted Curation Robert Barrett, Johns Hopkins University Evaluating the effectiveness of using Large Language Models for the development of concept sets Joel Swerdel, Johnson & Johnson Validating a Scalable Approach to Data Fitness-for-Use: Database Diagnostics Applied to LEGEND-T2DM Claire Blacketer, Johnson & Johnson

Time (ET)	Topic
2:45 pm - 3:30 pm	Collaborator Showcase Poster/Software Demo Session #2
3:30 pm - 4:15 pm	Collaborator Showcase Poster/Software Demo Session #3
4:15 pm - 5:00 pm	Collaborator Showcase Lightning Talk Session #2 Moderator: Ben Martin, Johns Hopkins University Causal Inference with Multi-Modal Foundation Models: A Case Study of Anti-VEGF Injections in Diabetic Macular Edema Linying Zhang, Washington University in St. Louis LATTE: A One-shot Lossless Algorithm for Federated Target Trial Emulation with Application to Alzheimer's Disease and Related Dementia Drug Repurposing Using Decentralized Data Lu Li, University of Pennsylvania From Data Quality to Clinical Quality – Episodes as Enablers for Next Generation Dashboarding Georgina Kennedy, Ingham Institute for Applied Medical Research Heterogeneity of Treatment Effects Across Nine Glucose-Lowering Drug Classes in Type 2 Diabetes: Extension of the LEGEND-T2DM Network Study Hsin Yi "Cindy" Chen, Columbia University DARWIN EU® – A multi-national network cohort and self-controlled case series study of the effect of doxycycline versus active comparators on the risk of suicidality in individuals with acne Katja Verhamme, Erasmus MC
5:00 pm - 6:00 pm	Titan Awards, Wednesday Closing Activity Patrick Ryan, Johnson & Johnson, Columbia University; George Hripcsak, Columbia University; Marc Suchard, UCLA
6:00 pm - 6:15 pm	Group Photo
6:15 pm - onward	Free Time



OHDSI 2025 Symposium agenda tomorrow

Workgroups

Start	End	THURSDAY, OCT. 9 WORKGROUP SCHEDULE										
7:00	8:00	Lite Breakfast and Exhibits										
8:00	9:00	Africa Chapter	APAC Chapter	Medical Imaging	Geographic	HADES	Atlas	Common	Oncology	Phenotype	Dentistry Workgroup	Latin America
9:00	10:00	30-Minute Break										
10:00	10:30	30-Minute Break										
10:30	11:30	Perinatal & Reproductive Health	Industry Workgroup	Early-Stage Researchers	Information System	Hackathon	WebAPI	Data Model	Workgroup	Evaluation	Vocabularies	Natural Language Processing
11:30	12:30	30-Minute Break										
12:30	13:30	30-Minute Break										
12:30	13:30	Buffet Lunch and Exhibits										
13:30	14:30	Surgery & Perioperative Medicine	Eyecare & Vision Research	Medical Devices	Psychiatry Workgroup	HADES Hackathon	Health Equity	Evidence Network Data Partners	Rare Disease	Women of OHDSI	CDM Survey	
14:30	15:30	30-Minute Break										
15:30	16:30	30-Minute Break										
16:30	17:00	Workgroup Summary Session - Regency Ballroom										



Don't forget to vote

BEST CONTRIBUTION TO THE SHOWCASE VOTING FORM

SCAN QR CODE FOR IMPORTANT LINKS:

OHDSI SYMPOSIUM AGENDA

SCHEDULE OF EVENTS

COLLABORATOR SHOWCASE HANDOUT & DIAGRAMS

THURSDAY WORKGROUP DIAGRAMS

**BEST CONTRIBUTION TO THE SHOWCASE VOTING
FORM**

SYMPOSIUM EVALUATION FORM





Truth in Science

- Truth in science has been a common topic in the news recently. OHDSI was founded to promote truth in science and trust in results. What are the ingredients that lead to truth? Here is what I came up with. Some are for science in general, and some are more specific to observational research.



Desire

- You have to desire truth to obtain it. If you don't want the truth, then science will do nothing for you.



Doubt

- Even if you desire truth, if you think you already have it, then you are done. Science cannot help you unless you doubt your own position and are open to other conclusions.



Temptation

- Human nature and the unconscious mind being what they are, if you make cheating possible, you will do it. Only through pre-specification of the design of the experiment can you avoid the temptation of embarking on an iterative tour straight to your original suspicion or hope.



Judgment

- Every step of an experiment should be judged for accuracy and reliability through diagnostics, replacing mere assertion of competence.



Generosity

- You must share your data, your methods, and your software so that others can replicate the experiment.



Perspective

- An important way to tell if this experiment is true is to try different data, approaches, context, methods, and related hypotheses to study the operating characteristics of your study and triangulate to a more stable result.



Reach

- In medicine, you need to account for variation in the human population and reach around the world to uncover true differences.



Honesty

- You can't just publish your positive results or they become valueless because others won't know how many experiments it took to get this one, undermining the logic of statistical inference. You must also disclose the results of your diagnostics.



Truth in Science

- This may seem too high a bar for practical science. For whatever reason, the first four people who popped into my mind were: George Washington, who despite his involvement in slavery, stepped away from a third term as president and set the pace for a new nation that would become a world leader; Martin Luther King, Jr. for his pursuit of truth and fairness despite the sacrifice; Mahatma Gandhi and his satyagraha, or devotion to truth; and, more recently, Pope Francis for the direction he set.
- The toughest part of truth in science is not about the science.



Civil court

- Trademark infringement
- Science versus debate





Climate debate

- Use the same tactic in climate
- Show legitimate flaws in an argument
 - E.g., that something is unsettled
- Then use debate to push forward a side, not backed by science



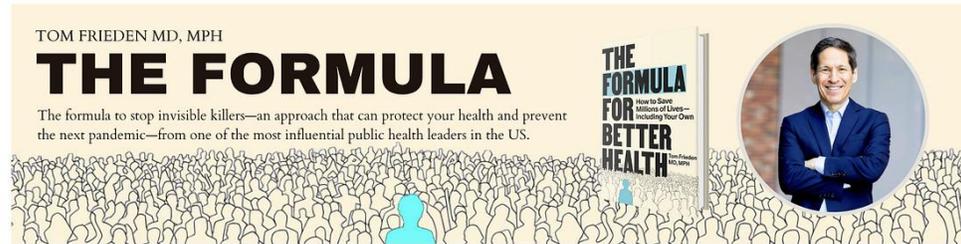


Diuretics in hypertension

- In 2023, presented the story of hydrochlorothiazide (HCTZ) versus chlorthalidone
 - HCTZ favored as effective with few side effects
 - Chlorthalidone longer lasting, more potent
 - Effort to bring chlorthalidone back
 - Limit grants to chlorthalidone, indirect meta-analysis
 - 2020 OHDSI LEGEND study shows equal effectiveness and HCTZ safer
 - Letter by Tom Frieden and others dispute it
 - 2022 VA RCT confirms OHDSI
 - 4 other large-scale observational studies agree
 - The research field largely ignores the RCT, saying it must be flawed
 - UpToDate favors chlorthalidone



Diuretics in hypertension: you can convince people



How to Know What's Most Likely to Save Lives

A window into the challenge of technical rigor

TOM FRIEDEN
JUL 9



READ IN APP ↗

Some researchers insist that randomized controlled trials are the gold standard of evidence.

They're wrong.

RCTs are great, but for many health questions, an RCT isn't practical and isn't the most reliable source of knowledge. RCTs can't measure outcomes that require many years of follow-up. For rare diseases, there aren't enough patients. An RCT from years ago might not apply today.

I was especially interested in a study launched by the U.S. Veterans Administration: a cluster-randomized trial comparing chlorthalidone to hydrochlorothiazide. It was clever, well-designed, and had the potential to settle the question as the first-ever direct comparison of the two drugs. I waited years for the results, fully expecting it would confirm our position.

But it didn't.

The trial showed no difference—not in survival, not in rates of heart attack or stroke. I was glad we had always qualified our recommendation, noting that chlorthalidone *might* be better, but that the evidence wasn't definitive.

Then I spoke to one of the best hypertension experts in the world. He dismissed the trial. He pointed out limitations—including trial duration, crossover design, maybe underpowering—and stood by his view that chlorthalidone was better. Our team looked at the data carefully. Another large study, involving hundreds of thousands of patients, also found no difference. Our conclusion? If chlorthalidone were much better, that difference likely would have shown up even with the study weaknesses.

OHDSI

Bottom line: We still don't know for sure which is better, but we no longer recommend chlorthalidone over hydrochlorothiazide. The evidence just isn't strong enough.

RCTs not gold standard of evidence



Truth in Science

- OHDSI's job is not to debate or try to convince those who don't want the truth
 - OHDSI's job is to supply truth to those who want to know, so they can bolster their arguments and win debates
 - Eventually, truth wins
-

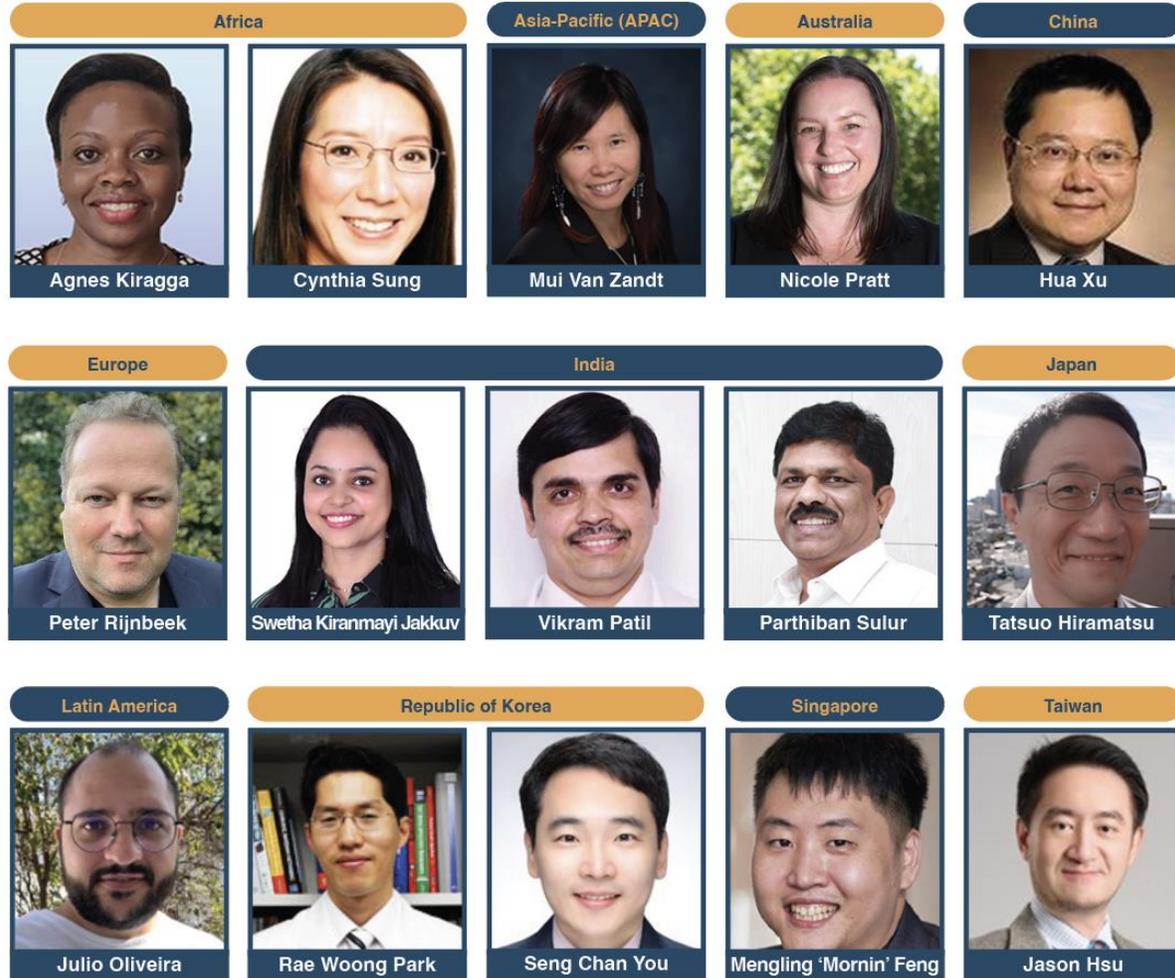


Truth in Science

- As long as OHDSI exists, it will stand for truth.



International leaders



Node.....	Lead(s)
Belgium	Liesbet Peeters, Annelies Verbiest, Ilse Vermeulen
Denmark	Ismail Gögenur, Martin Høyer Rose, Andreas Weinberger Rosen
Estonia.....	Raivo Kolde, Sulev Reisberg
Finland.....	Eric Fey, Gustav Klingstedt
Germany.....	Ines Reinecke, Michele Zoch
Greece	Anastasia Farmaki, Pantelis Natsiavas, Grigoris Papapostolou
Hungary.....	Zsolt Bagyura, Ágota Mészáros
Ireland.....	Aedin Culhane, Mark Lawler, Catherine Mahoney
Israel	Chen Yanover
Italy	Lucia Sacchi, Matteo Gabetta
Luxembourg.....	Claudine Backes, Andreas Kremer, Maria Quaranta
Netherlands.....	Renske Los, Aniek Markus
Norway.....	Espen Enerly, Siri Larønningen
Portugal.....	Patricia Couceiro, Carmen Nogueira
Spain.....	Miguel Angel Mayer, Talita Duarte Salles
Switzerland.....	Olga Endrich, Karen Triep
United Kingdom.....	Dani Prieto-Alhambra
<i>coming soon</i>	<i>Austria, Sweden</i>





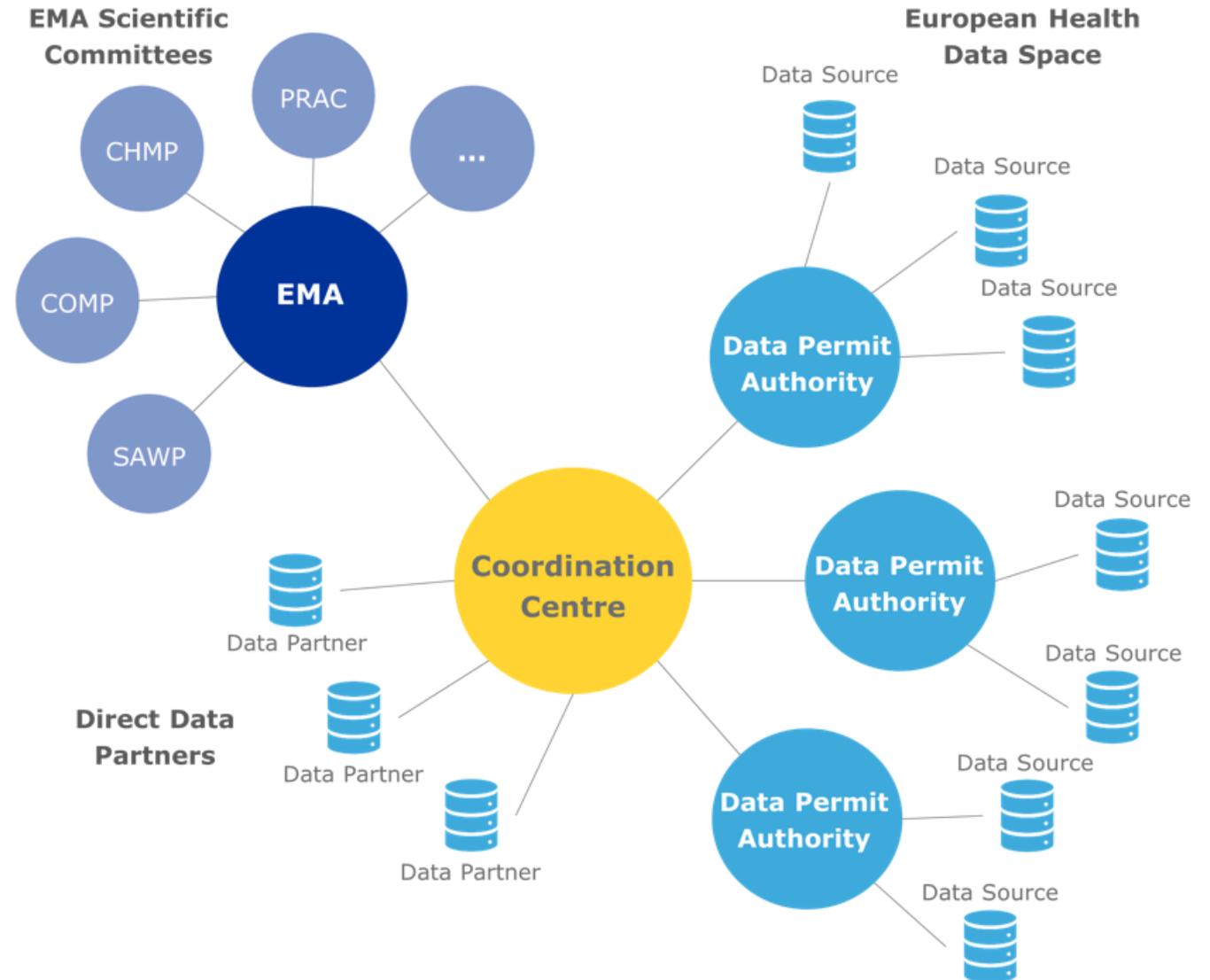
Peter Rijnbeek – DARWIN-EU



Data Analysis and Real World Interrogation Network (DARWIN EU[®])

A paradigm shift for the use of real-world health data for regulatory purpose in the EU

DARWIN EU[®] is a federated **network** of **data, expertise** and **services** that supports better decision-making throughout the product lifecycle by generating reliable **evidence from real world healthcare data**

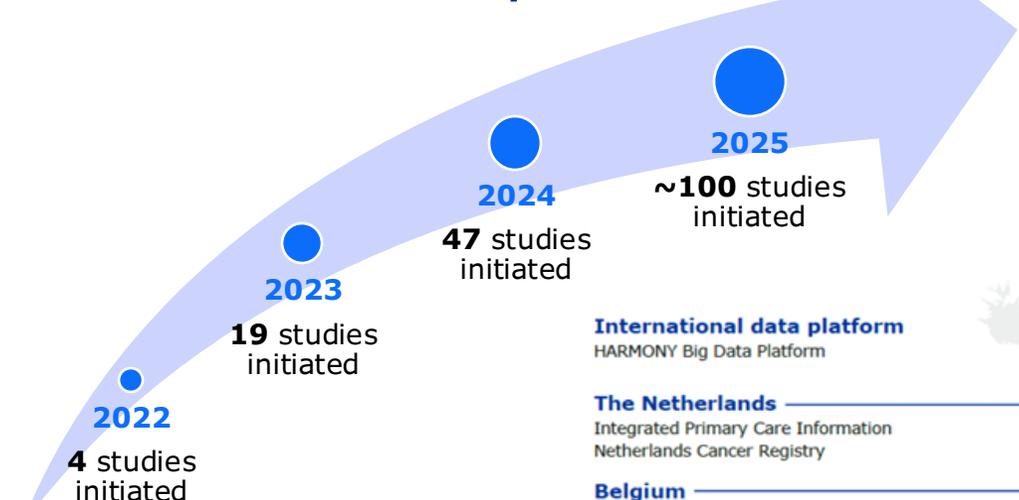


Impact: Report on regulatory-led studies using real-world data, June 2025



Real-world evidence framework to support EU regulatory decision-making

3rd report on the experience gained with regulator-led studies from February 2024 to February 2025



30 Data Partners as of Feb 2025 (~ +10 by end of Feb 2026) in **16 European countries**



International data platform
HARMONY Big Data Platform

The Netherlands
Integrated Primary Care Information
Netherlands Cancer Registry

Belgium
IQVIA Longitudinal Patient Database Belgium

United Kingdom
UK BioBank
Clinical Practice Research Datalink
National Neonatal Research Database

France
Bordeaux University Hospital
Système National des Données de Santé
Health Data Warehouse of Assistance Publique

Portugal
ULSM-RT
Egas Moniz Health Alliance DataBase

Spain
SIDIAP
BIFAP
IMASIS and IMIM
Valencia Health System Integrated Database
H120
Health Data Research Platform of the Balearic Islands

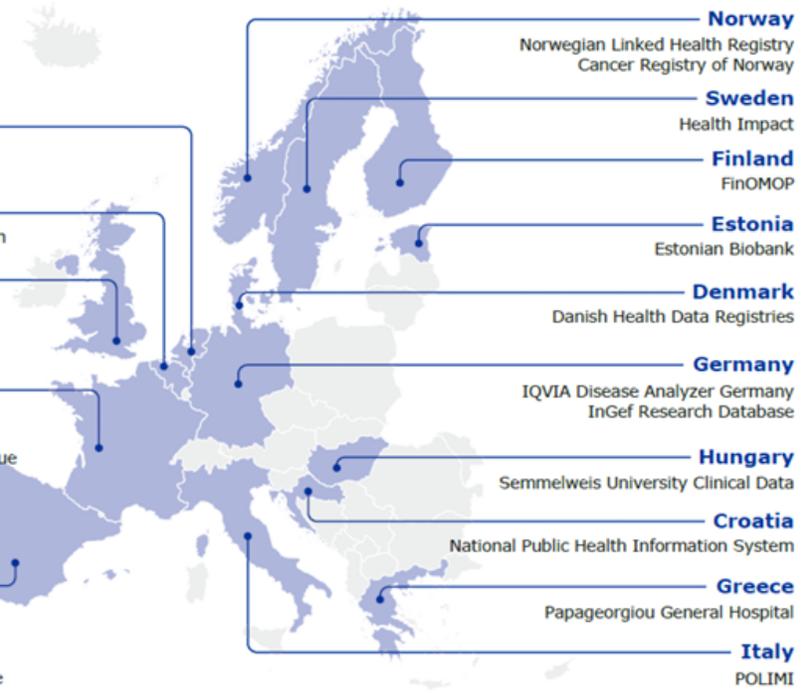


Figure 11 DARWIN EU Network as of February 2025



Liesbet Peeters – OHDSI Europe





**OHDSI EUROPE
SYMPOSIUM 2025**

The banner is orange with a white 'X' logo on the left and the text 'OHDSI EUROPE SYMPOSIUM 2025' in white and yellow.

https://drive.google.com/file/d/1_4Tb5EQiKq9D2uLndya8YA37HqxRH6tv/view



Nicole Pratt – AHDEN





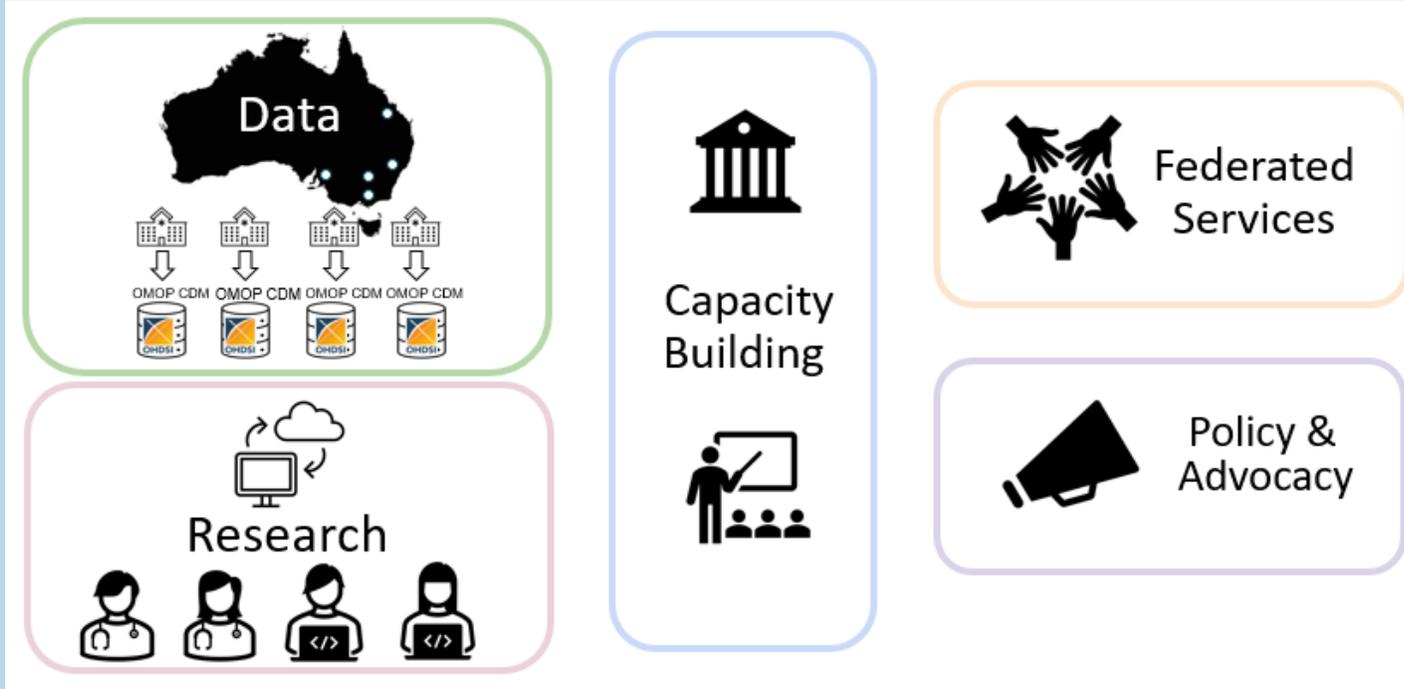
AHDEN

The Australia Health Data Evidence Network



Supporting the transformation of hospital-based Electronic Medical Record (EMR) data to the OMOP CDM

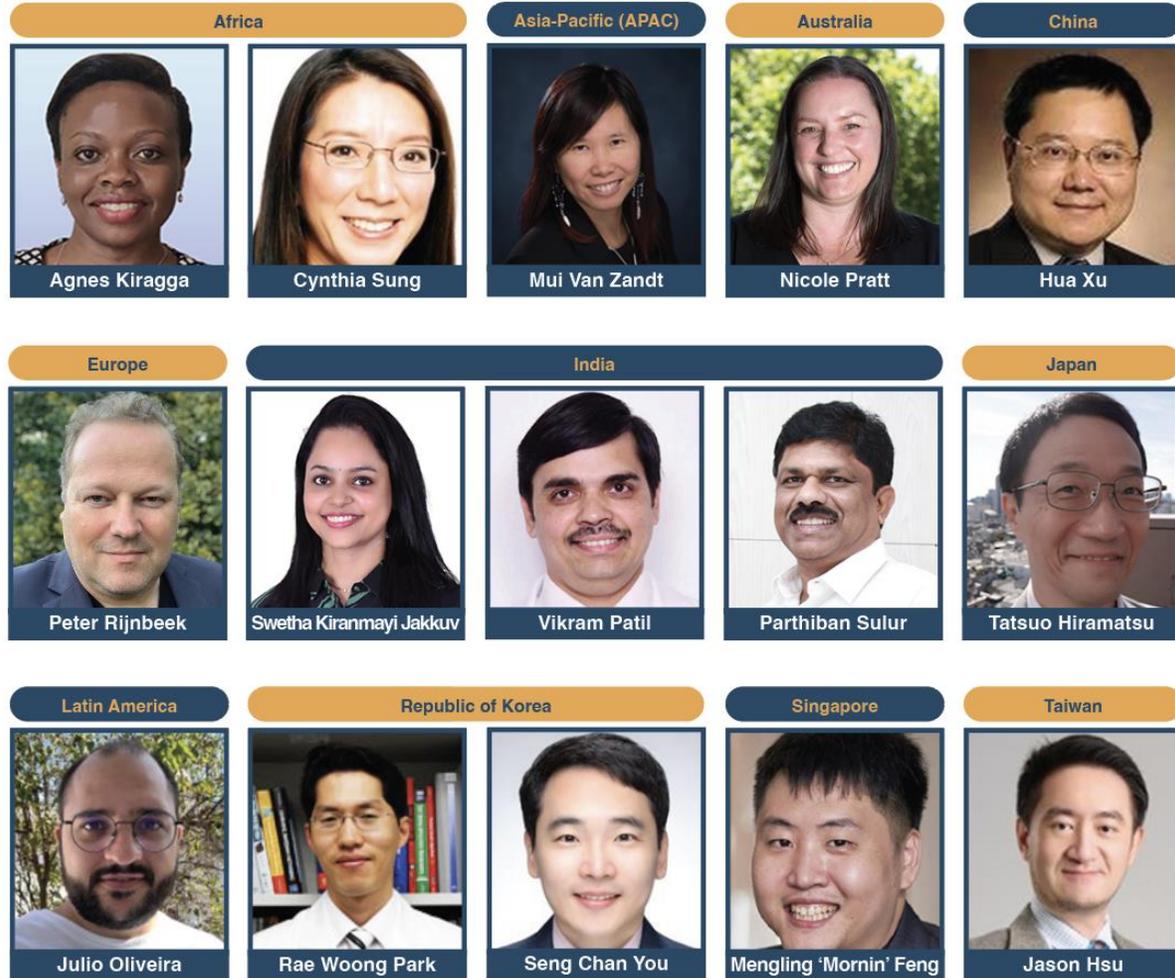
Enabling researchers to generate insights efficiently without compromising data security or privacy



Building a national data infrastructure for standardised, federated health data research



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