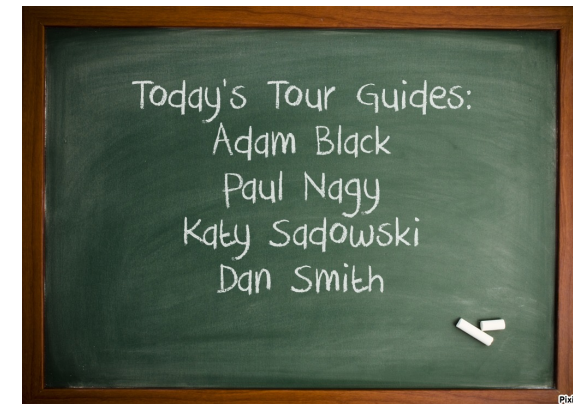




2024 OHDSI Open Source Developers Conference



Welcome to the Eco-System



"I often compare open source to science. Science took this whole notion of developing ideas in the open and improving on other peoples' ideas. It made science what it is today and made the incredible advances that we have had possible."

-Linus Torvalds

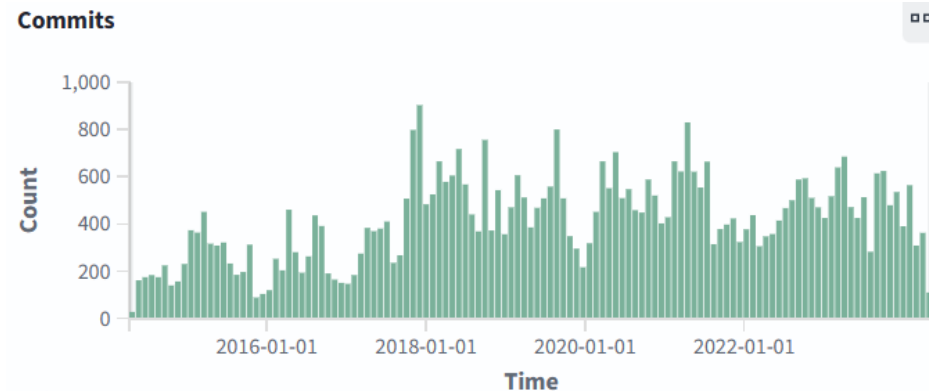
Creator of Linux
& Git





OHDSI Open Source Ecosystem

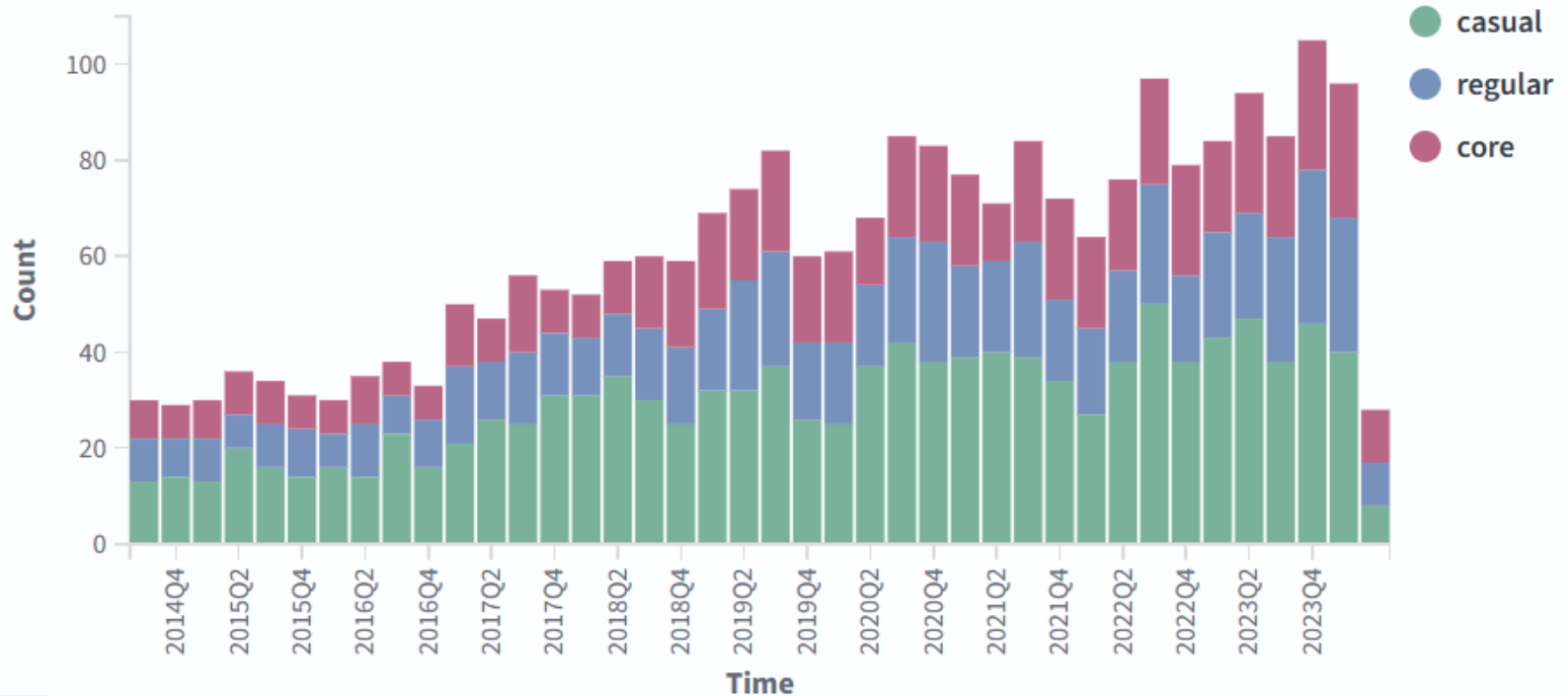
- Software that supports the OMOP CDM
- In the Github OHDSI Organization
- Over the past 10 years
 - 284 Repositories
 - 611 Developers
 - 1,084 Issue Submitters
 - 10,812 Issues Submitted
 - 50,575 commits
 - 618,428 Files
 - 80,361,640 lines of code added
 - 45,717,357 lines of code refactored





OHDSI developer community continues to grow

Community Structure





Shoulders of Giants



Submitter	Issues
Kyle Zollo-Venecek	167
dkriethof	95
Russ Poetker	83
Mark Patton	79
Robert Miller	78
Frank DeFalco	69
Anthony Sena	67
Martijn Schuemie	67
Timothy Sanders	66
alondhe	54

Author	Commits
Martijn Schuemie	606
Jamie Gilbert	561
Egill Fridgeirsson	303
Anthony Sena	219
jreps	178
Martin Lavallee	171
alondhe	169
Dmitry S	156
Timur Vakhitov	146
Gowtham Rao	145

Submitter	Pull Requests
Anthony Sena	117
Russ Poetker	105
Jamie Gilbert	86
Mikhail-iontsev	73
Jared Galanis	71
Gowtham Rao	64
Mark Patton	62
Knoll	50
Egill Fridgeirsson	49
jreps	47

- Johnson & Johnson
- Unknown
- Odysseus Data Services
- Janssen Research an...
- Erasmus MC
- OHDSI
- LTS Computing LLC
- Github
- Tufts Medical Center ...
- TrialSpark
- The Hyve
- Johns Hopkins Univer...
- Peking University Hea...
- Arcadia Inc.
- Software Country
- Northwestern Univers...
- Amazon.com
- Columbia University

(Last year 4/25/2023-4/25/2024)



Open Source activity in OHDSI Teams

Martijn Schuemie

HADES

Anthony Sena
Chris Knoll

Atlas/WebAPI

Frank DeFalco

Technical Advisory
Board

Adam Black
Paul Nagy

Open Source
Working Group
Kheiron Program

Package	Version	Maintainer(s)	Availability	Open issues	Open pull-requests	Build status	Coverage	PaRe
Achilles	v1.7.2	Frank DeFalco	CRAN	42	10			Report
Andromeda	v0.6.6	Martijn Schuemie	CRAN	13	0			Report
BigKnn	v1.0.2	Martijn Schuemie	GitHub	1	0			Report
BrokenAdaptiveRidge	v1.0.0	Marc Suchard	CRAN	2	0			Report
Capr	v2.0.7	Martin Lavallee	GitHub	6	0			Report
Characterization	v0.2.0	Jenna Reps	GitHub	6	1			Report
CirceR	v1.3.3	Chris Knoll	GitHub	3	1			Report
CohortDiagnostics	v3.2.5	Jamie Gilbert	GitHub	63	6			Report
CohortExplorer	v0.1.0	Gowtham Rao	CRAN	0	0			Report
CohortGenerator	v0.8.1	Anthony Sena	GitHub	26	3			Report
CohortMethod	v5.2.1	Martijn Schuemie	GitHub	15	0			Report
Cyclops	v3.4.0	Marc Suchard	CRAN	18	0			Report
DatabaseConnector	v6.3.2	Martijn Schuemie	CRAN	21	1			Report
DataQualityDashboard	v2.6.0	Katy Sadowksi	GitHub	44	8			Report
DeepPatientLevelPrediction	v2.0.3	Egill Fridgeirsson	GitHub	22	2			Report
EmpiricalCalibration	v3.1.2	Martijn Schuemie	CRAN	1	0			Report
EnsemblePatientLevelPrediction	v1.0.2	Jenna Reps	GitHub	5	0			Report
Eunomia	v2.0.0	Frank DeFalco	GitHub	10	0			Report
EvidenceSynthesis	v0.5.0	Martijn Schuemie	CRAN	3	0			Report

TAB Charter

The OHDSI Technical Advisory Board Charter (TAB) is a document that serves as the guiding principles of the TAB. It outlines the TAB's mission, responsibilities, deliverables, and more, providing guidance for the board's operations and a clear framework for its decision-making processes.

Contents

- [Mission](#)
- [Responsibilities](#)
- [Deliverables](#)
- [Stakeholders](#)
- [Member Qualifications](#)
- [Meeting Frequency](#)
- [Member Selection Process](#)
- [Code of Conduct](#)
- [Establishing Task Forces](#)
- [Member Mentorship](#)
- [Budget and Resources](#)
- [Transparency](#)
- [Decision Making & Conflict Resolution](#)



Today's Agenda

Morning Agenda

9:00 am – Introduction (**Adam Black, Paul Nagy**)

9:15 am – Developers Panel and Lightning Talks (**Katy Sadowski**)

- *OHDSI/OMOP – The hard way is the easy way!* (**Vishnu V Chandrabalan**)
- *Moving OMOP to the Cloud With DBT and Snowflake* (**Roger Carlson**)
- *Use cases for ORMs in OMOP* (**Georgina Kennedy**)
- *Carrot: code-free OMOP ETL without full data access* (**Sam Cox**)
- *Rabbit-in-a-blender - an ETL pipeline to transform your EMR data into OMOP* (**Pieter-jan Lammertyn**)

10:45 am – Darwin EU® Developers Update (**Adam Black**)

12:00 pm – Break

Afternoon Agenda

12:30 pm – OHDSI Ecosystem Updates

- TAB Update (**Frank DeFalco**)
- Strategus Update (**Anthony Sena**)
- Broadsea Update (**Lee Evans**)
- Kheiron Updates (**Paul Nagy**)

1:15 pm – JACKALOPE PLUS The Power of ML for Healthcare Data Mapping & Management (**Denys Kaduk**)

2:00 pm - An Introduction to Knowledge Graphs using PheKnowLator and OMOP2OBO with Example Applications in Drug Surveillance and Computational Phenotyping (**Tiffany Callahan**)