



# APAC Community Call

May 14, 2025



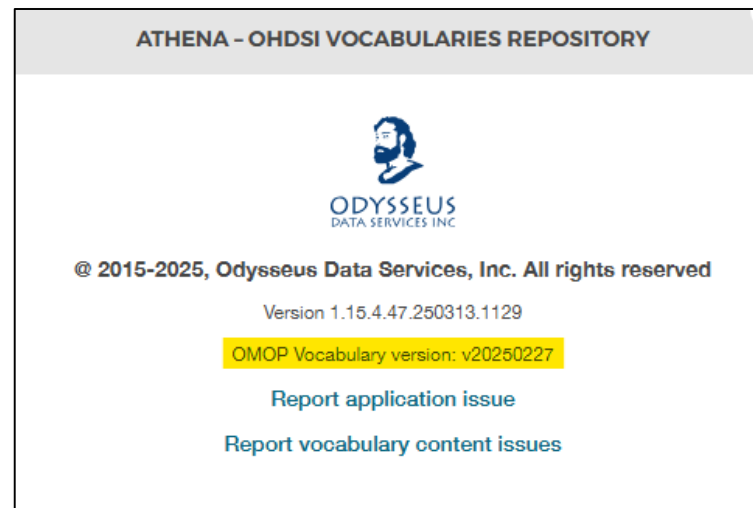
# Agenda

- OHDSI Global News
- OHDSI APAC News
- Localization of Book of OHDSI (Japanese version)
- Enabling OHDSI APAC Partnership through TRUST



# OHDSI Global News

- Latest update of OMOP Standardized Vocabularies has been released
- Adds new drugs, procedures and lab tests, improved mappings for conditions, and expanded hierarchies
- Full release notes available at [https://github.com/OHDSI/Vocabulary-v5.0/releases/tag/v20250227\\_1740652703.000000](https://github.com/OHDSI/Vocabulary-v5.0/releases/tag/v20250227_1740652703.000000)





# OHDSI Global News

**OHDSI Global Symposium Set for October 7-9  
at Hyatt Regency Hotel in NJ, USA**

SAVE THE DATE: Collaborator Showcase  
Submissions will be due July 1!

Agenda and registration will be shared when  
available





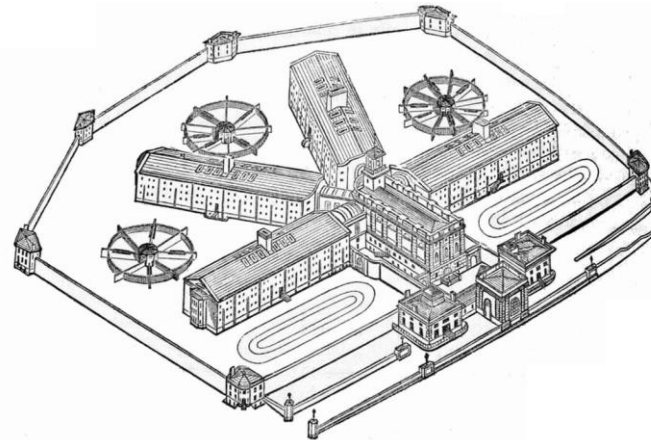
# OHDSI Global News

**Europe Symposium registration is open!**  
**July 5-7 at “Old Prison” in Hasselt, Belgium**

Registrations will close after June 16

Event landing page: <https://www.ohdsi-europe.org/symposium-event>

Registration page: <https://forms.gle/STSJZ7KH6hAJKv9H9>



## OHDSI EUROPE SYMPOSIUM 2025

**Join the Network: Advancing Federated  
Real-World Evidence in Europe**

### Symposium Agenda – July 7, 2025

Time	Topic	
8:00 – 9:00	Registration & Coffee	
9:00 – 9:10	Welcome to the European OHDSI Journey	
9:10 – 9:30	Journey of OHDSI: Where have we been and where can we go together?	
9:30 – 11:00	Impact of Leveraging OMOP CDM for Scalable and Reliable Evidence Generation Showcased by the National Nodes	
11:00 – 11:30	Coffee Break	
11:30 – 12:45	Collaborator Showcase: Rapid Fire Presentations	
12:45 – 13:45	Lunch	
13:45 – 16:00	OHDSI Collaborator Showcase	Early Investigator Mentor Meeting (14:00 – 15:00)
16:00 – 17:10	Bridging Policy and Practice: OHDSI's Role in Implementing the European Health Data Space (Panel debate)	
17:10 – 17:30	Closing remarks	

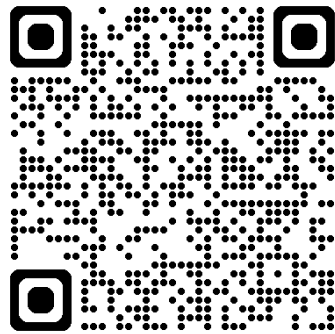




# OHDSI Global News

## Join OHDSI Global's Guideline-driven Evidence Generation Initiative!

For more information on the initiative and selected studies, please visit:



<https://ohdsi.org/clinical-guideline-evidence-opportunities-2025/>

## Community Presents Clinical Guideline Evidence Opportunities for 2025; Learn More and Share Your Potential Interest in Collaboration

Clinical guidelines not only offer treatment recommendations for healthcare providers but also highlight evidence gaps that could shape critical questions for both clinicians and patients. The OHDSI community aimed to identify these gaps and explore how they could be addressed through network studies across the OHDSI Evidence Network.

Throughout January, collaborators around the world [highlighted such gaps in a forum thread](#) and joined a community call to provide a brief description of the gap and why OHDSI is positioned to generate reliable and informative real-world evidence. Please check out the videos below or [read about these evidence opportunities](#), and then fill out the brief form below to share your interest in joining one or multiple studies.

[Join a Guideline Evidence Generation Network Study](#)

## Video Presentations

### Obesity Management

Presenter: Chungsoo Kim

### Anesthesia Post-Operative Care

Presenter: Oleg Zhuk



# OHDSI Global News

## OHDSI 2025 Guideline-driven evidence collaboration opportunities

In 2025, the OHDSI community is engaged in a community-wide effort to identify guideline-driven evidence opportunities that we can meaningfully contribute to by designing and executing network studies together. Throughout Jan 2025, leaders in our community offered research opportunities on the forums (<https://forums.ohdsi.org/t/guideline-driven-evidence-generation-opportunities/23029>) and during Community Calls (<https://ohdsi.org/community-calls-2025/>). We seek your input on which of these opportunities you are interested in engaging with, so we can prioritize the community's efforts together.

\* Required

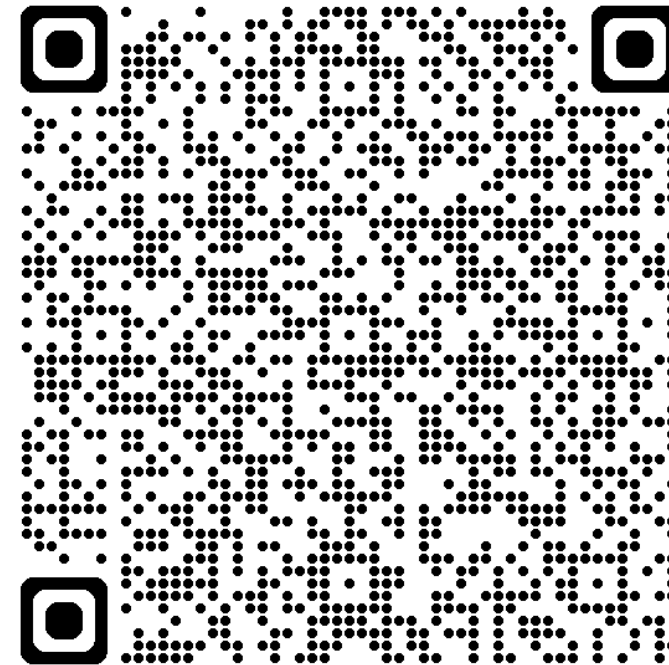
1. Name \*

2. Email (to be used to connect with study leads) \*

3. Which guideline-driven evidence opportunities would you like to contribute to (check all that apply) \*

☐ Obesity management - Chungsoo Kim

☐ Anesthesia post-operative care - Oleg Zhuk



<https://forms.office.com/pages/responsepage.aspx?id=IAAPoyCRq0q6TOVQkCOy1dASOXn2aCVJpwpY4vxZsSdURVhXMk1LTzRFMUMzM1czMUNWV0xXQzA5MyQlQCN0PWcu>



# OHDSI APAC News

## 2025 APAC Studies Kick-off!

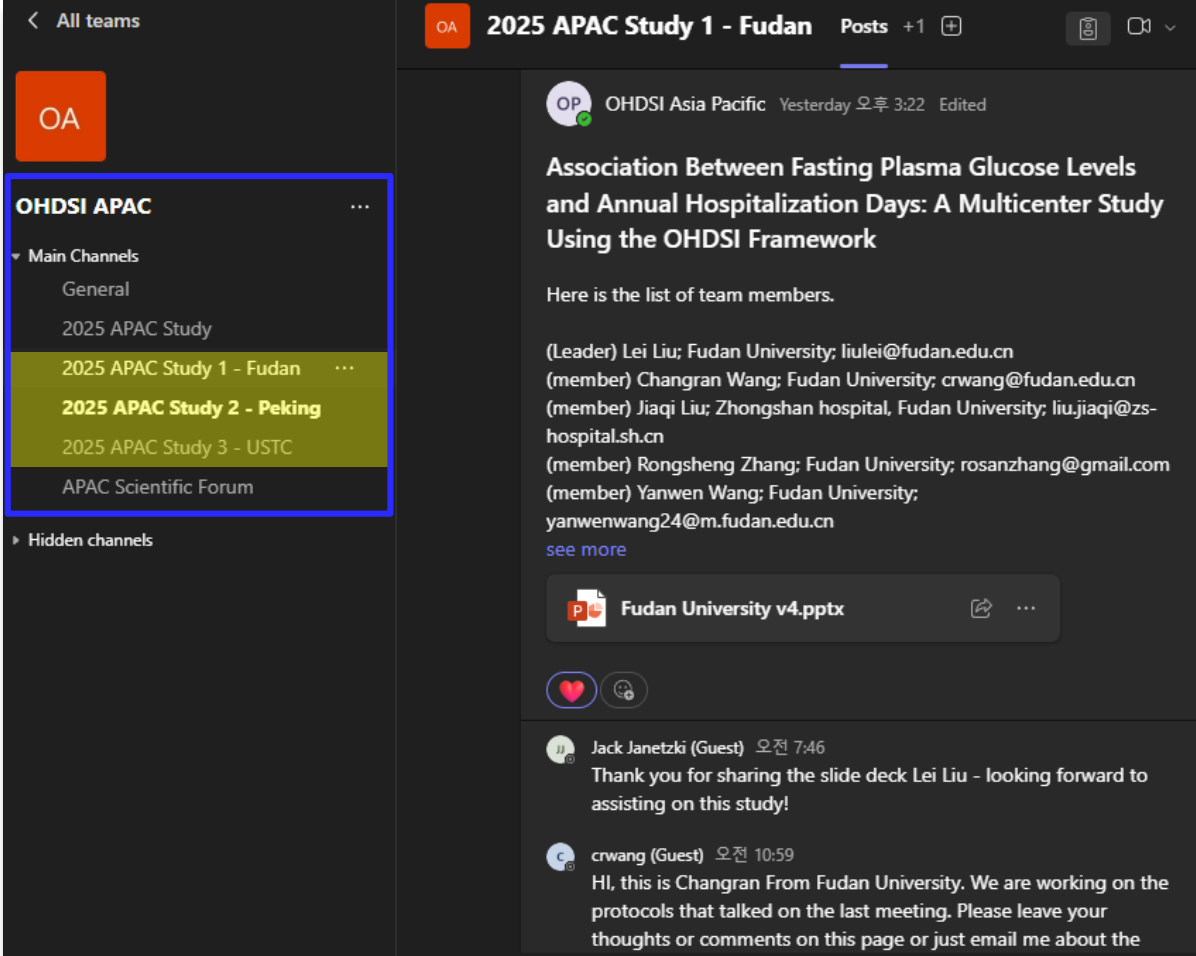
MS Teams channels for each of three studies has been created.

 [\[2025 APAC Study - Fudan\]](#)

 [\[2025 APAC Study - Peking\]](#)

 [\[2025 APAC Study - USTC\]](#)

Warmly welcome your participation and contribution in each channel!




OA 2025 APAC Study 1 - Fudan Posts +1

OHDSI Asia Pacific Yesterday 오후 3:22 Edited

### Association Between Fasting Plasma Glucose Levels and Annual Hospitalization Days: A Multicenter Study Using the OHDSI Framework

Here is the list of team members.

(Leader) Lei Liu; Fudan University; liulei@fudan.edu.cn  
(member) Changran Wang; Fudan University; crwang@fudan.edu.cn  
(member) Jiaqi Liu; Zhongshan hospital, Fudan University; liu.jiaqi@zs-hospital.sh.cn  
(member) Rongsheng Zhang; Fudan University; rosanzhang@gmail.com  
(member) Yanwen Wang; Fudan University; yanwenwang24@m.fudan.edu.cn  
[see more](#)

 Fudan University v4.pptx

Jack Janetzki (Guest) 오전 7:46  
Thank you for sharing the slide deck Lei Liu - looking forward to assisting on this study!

crwang (Guest) 오전 10:59  
Hi, this is Changran From Fudan University. We are working on the protocols that talked on the last meeting. Please leave your thoughts or comments on this page or just email me about the





# OHDSI APAC News

## First draft Protocol Meetings (GMT):

**Fudan:** Tuesday, May 3<sup>rd</sup>

**Peking:** Wednesday, May 4<sup>th</sup>

**USTC:** Thursday, May 5<sup>th</sup>



All meetings begin at **9:00 or 8:00** am GMT

May  
1 2 3  
4 5 6 7 8 9 10  
11 12 13 14 15 16 17  
18 19 20 21 22 23 24  
25 26 27 28 29 30 31

## 2025 JUNE

July  
1 2 3 4 5  
6 7 8 9 10 11 12  
13 14 15 16 17 18 19  
20 21 22 23 24 25 26  
27 28 29 30 31

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					



# OHDSI APAC News

**Congratulations!**  
The Book of OHDSI Japan has  
been published!!



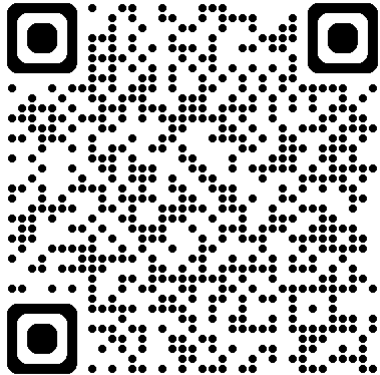
<https://ohdsi.github.io/TheBookOfOhdsiInJapanese/>

The screenshot shows the OHDSI website header with the logo and the text "OHDSI OBSERVATIONAL HEALTH DATA SCIENCES AND INFORMATICS". Below the header is a navigation menu with various links. A dropdown menu is open under "New To OHDSI?", showing links to "Book of OHDSI (English Version)", "Book of OHDSI (Korean Version)", "Book of OHDSI (Chinese Version)", "Book of OHDSI (Japanese Version)" (which is highlighted with a red box), and "Order The Book of OHDSI (Amazon)". Below the navigation menu, a banner for the "2024 OHDSI APAC Symposium" is displayed, with the dates "December 4-8" and the location "Marina Bay Sands & National University of Singapore (NUS)".



# OHDSI APAC News

- First APAC newsletter of 2025 has been released
- Entirely prepared by Keiko Asao from Japan – thank you for your contribution!



<https://mailchi.mp/ohdsi/apac-2025-q1-newsletter>

## ► Spotlight on Japan: ATLAS Training Workshop Held in Tokyo

- On February 25, 2025, a hands-on ATLAS training workshop was successfully held at the Tokyo Metropolitan Industrial Trade Center.
- Sixteen participants joined the 4-hour session to learn about OMOP-CDM fundamentals and gain practical experience in cohort creation and data analysis using ATLAS.
- The event was hosted by FedAna and OHDSI Japan, with operations led by Kappa Medical. The training aimed to cultivate future ATLAS users in Japan and expand local capacity for real-world evidence generation.

**OHDSI ATLASトレーニング**  
OMOP CDM形式のデータの解析スキルを習得するためのトレーニング

**日程** 2025年2月25日(火)  
**時間** 13:30～17:30 (受付13:00～)  
**場所** 東京都立産業貿易センター浜松町館

参加費 4,000円 / 定員16名 定員になり次第締め切ります



# TRUST

IMPROVING HEALTH OUTCOMES THROUGH TRUSTED DATA EXCHANGE

[trustplatform.sg](https://trustplatform.sg)

***“Trusted Research and Real world-data Utilisation and Sharing Tech”***

OHDSI APAC Community Call  
May 2025

Jointly developed by:



# Agenda

- What is TRUST?
- How we enable safe and efficient data sharing and analytics
- How to get started
- OMOP journey



IMPROVING HEALTH OUTCOMES THROUGH TRUSTED DATA EXCHANGE

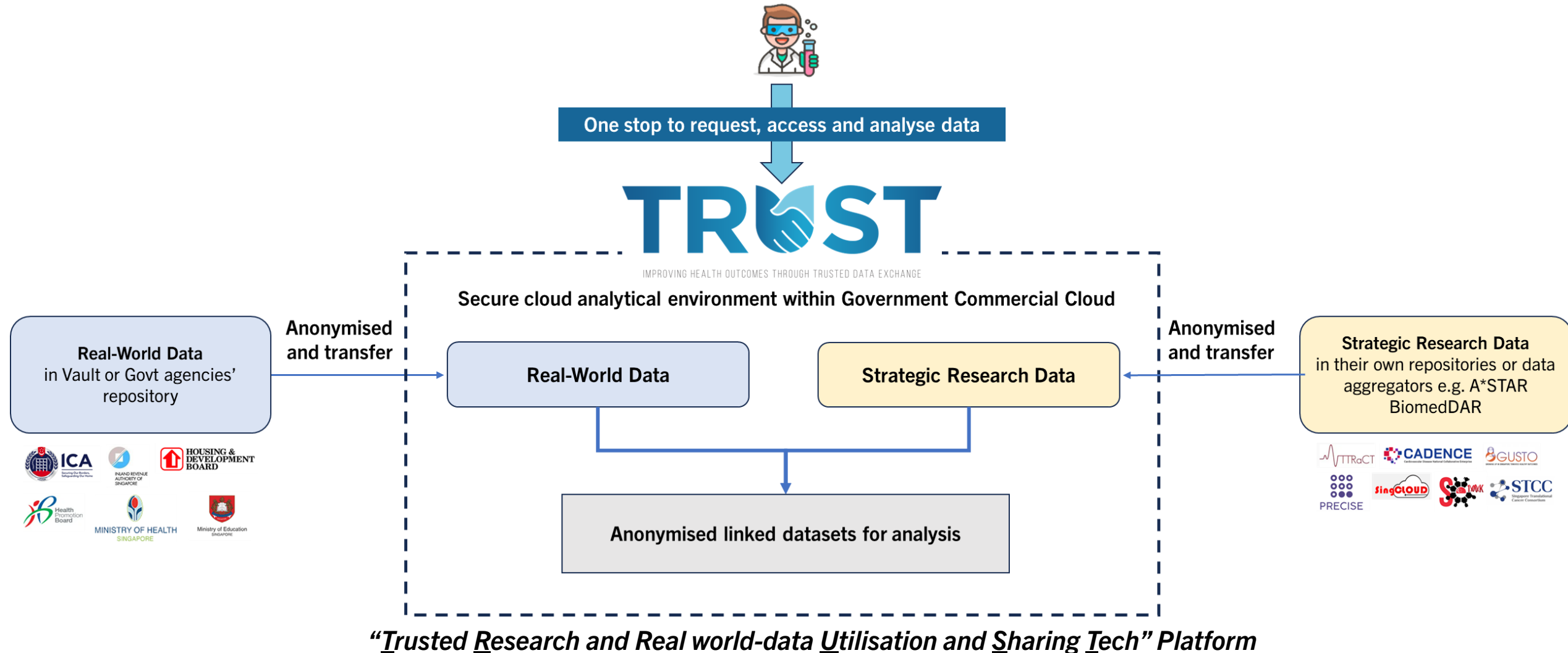


The background is a solid blue gradient. It features several abstract white geometric patterns. On the left, there are faint, overlapping circles. On the right, there are more complex, interconnected line structures resembling molecular models or network diagrams. These elements are semi-transparent and blend into the blue background.

# What is TRUST

'Trusted Research and Real world-data Utilisation and Sharing Tech'

# TRUST is a data framework and analytics platform to enable anonymised health analytics by researchers from public and private sectors



# How TRUST addresses key data challenges faced by researchers

UNCLEAR DATA ACCESS RULES



CLARIFY PERMISSIBILITY OF USE;  
OPEN UP ACCESS

- Data permissibility rules and governance for key datasets has been clarified
- Streamlined **pre-agreements** with data custodians and users
- Establish **central Data Access Committee** for streamlined and efficient data approval

VARIED DATA SECURITY &  
INFRASTRUCTURE



NATIONAL DATA-EXCHANGE  
PLATFORM

- Established **secure environment on Government Commercial Cloud** for data linkage, access and analysis
- Established **Trusted Third Party to enable linkages across datasets** and anonymisation tool according to MOH anonymisation standards.

LACK DATA STANDARDS



DATA CATALOGUE &  
INTEROPERABILITY

- Adopt **internationally recognised data standard** (e.g. OMOP)
- A central data curation team has been set up and OMOP mapping work is ongoing

# Enabling high value health-data analytics research

## Evaluate social determinants of health to improve cardiovascular health outcomes



Generate new insights into determinants that influence cardiovascular health and equity. Guide better designed interventions for impactful and sustainable cardiovascular outcomes, through analysis of clinical-lifestyle-social data.

## Understand COVID-19 genomic risk factors in disease severity to guide future intervention strategies



Assess the prevalence and allele frequencies of host genetic variants determining the susceptibility and severity of SARS-CoV-2 infections as well as in vaccine effectiveness. Provide insights to future measures and policies to safeguard those at higher risk of infections.

## Unlock value of population cohorts to gain deeper insights to Asian precision medicine

Multi Ethnic Cohort (MEC)

SingHEART



Enable next phase of PRECISE/SG100k Precision Medicine studies in diseases such as cardiovascular, metabolic, neurological, psychiatric, ophthalmologic, as well as rare diseases. Enable improved risk prediction, risk assessment and interventions through precision population health approaches.

## Study long-term risks of diseases and overall healthcare cost impact on Gestational Diabetes Mellitus (GDM) mothers to guide appropriate care



Evaluate mother-child pairs with a history of GDM and their increased risk for diseases, including developing mental disorders. Findings will allow health-care providers to formulate strategies to appropriately follow-up, screen and treat GDM mothers and their children.

# Orchestrate and enable safe and expeditious health data analytics in the HHP research ecosystem

Promulgated data sharing principles and best practices



Established pre-agreements with 12 Public Research Organisations to enable expeditious data access (as at 22 April 2024)



Support broader types of analytics e.g. genomics & low/no code analysis



Initiated national level effort to harmonise data standard

- Key clinical data domains<sup>1</sup> have been mapped to OMOP CDM<sup>2</sup>
- Established partnerships to setup national curation team on OMOP mapping

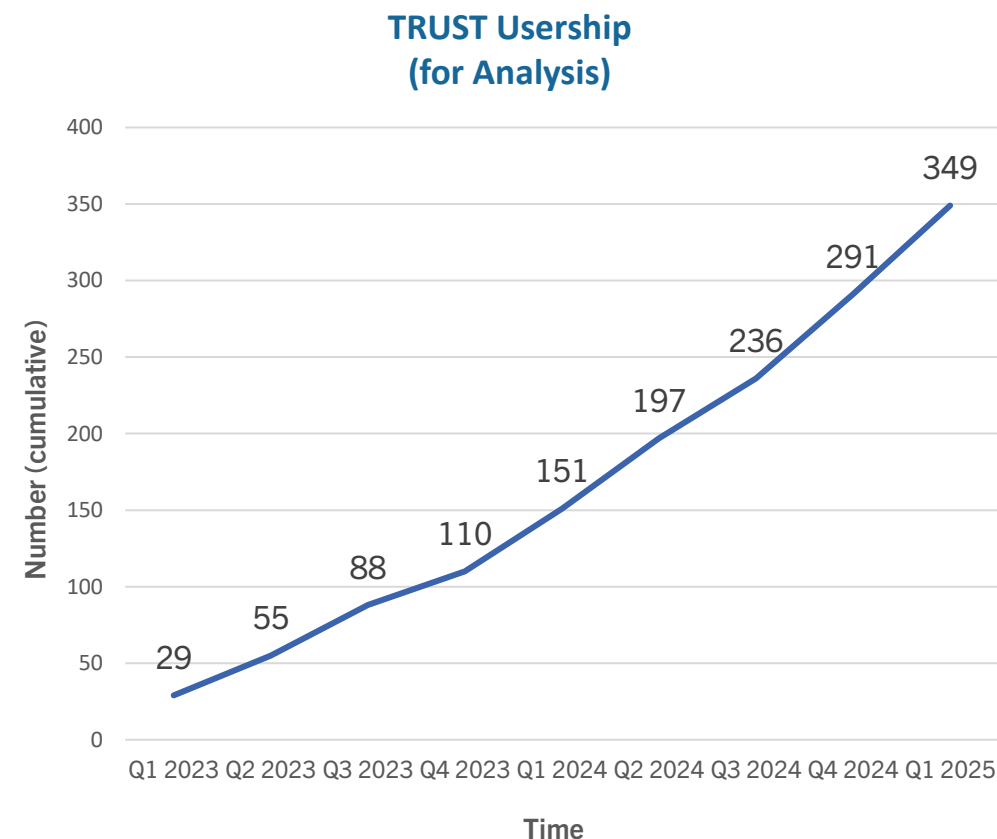
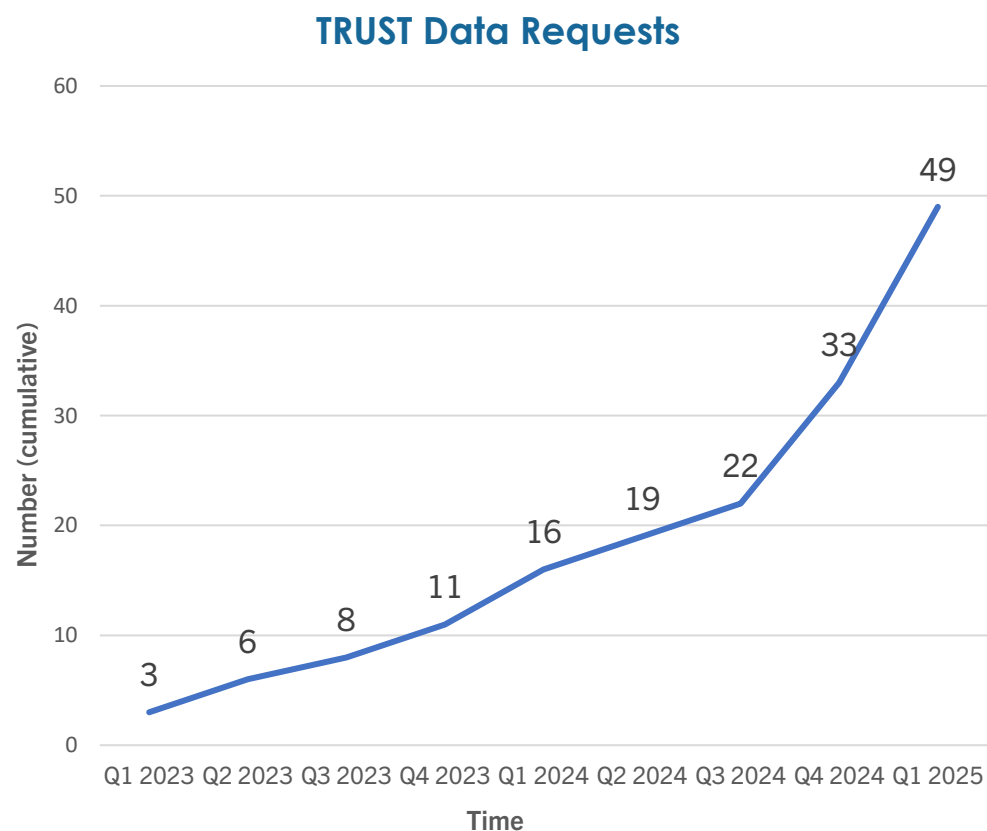
<sup>1</sup>Domains (from NEHR) include Demographics, Diagnosis, Medication, Visits, Labs, Radiology, Procedures.

<sup>2</sup>Observational Medical Outcomes Partnership Common Data Model (OMOP CDM).



# Gaining traction and growth in usership + use cases (data up to end March 2025)

Close to 50 projects supported and 350 users



# New opportunities

## Increasing Impact



- Enable unstructured data (e.g., free text clinical notes, retinal images) and broaden data types (e.g. geospatial)
- Support strategic industry partners

- Future-proof with Privacy Preserving Tech (e.g. federated analysis)
- Enhance interoperability with other Trusted Research Environments local and internationally

## Increasing Interoperability



## Enhancing experience



- Scaling and automation (e.g. output checking)
- Enable self-serve (e.g. data exploration & visualisation)
- Develop the TRUST Academy, comprising training curriculum for both Users and Data Contributors (e.g. governance, best practices, data science)

The background is a deep blue gradient. It features abstract, glowing patterns that resemble molecular structures or network graphs. On the left, there are several clusters of small, light-blue circles, some of which are connected by faint lines. On the right, there are more complex, interconnected networks of small white dots linked by thin, light-blue lines, creating a sense of dynamic connectivity and data flow.

**How do we enable safe and  
efficient data sharing and analytics**

# TRUST's core features are built on the 5 Safes Framework, ensuring safe data access

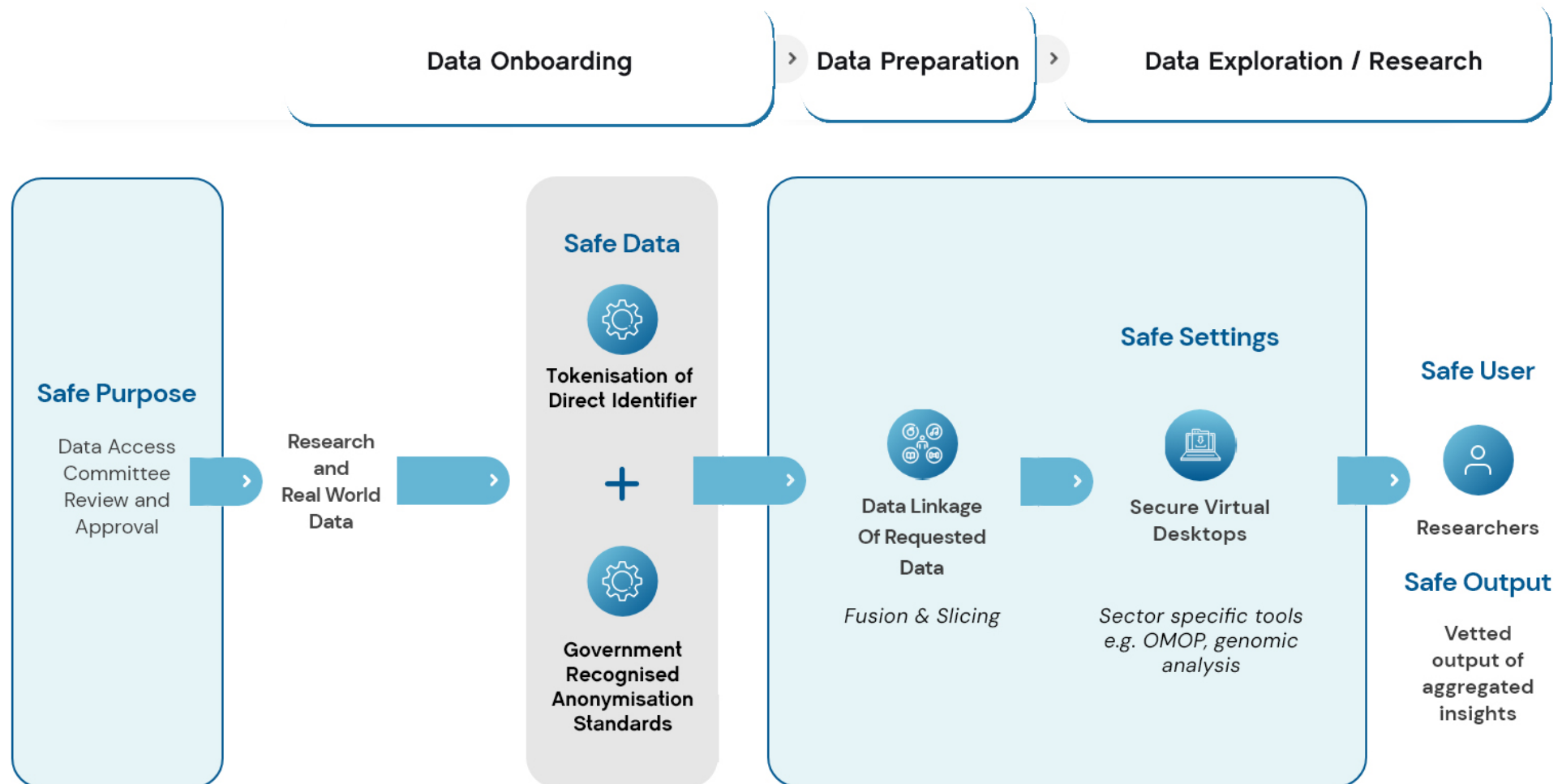


Deploy synergistic policy and technical solutions across the data lifecycle

Balance privacy & public interest with safe use of data

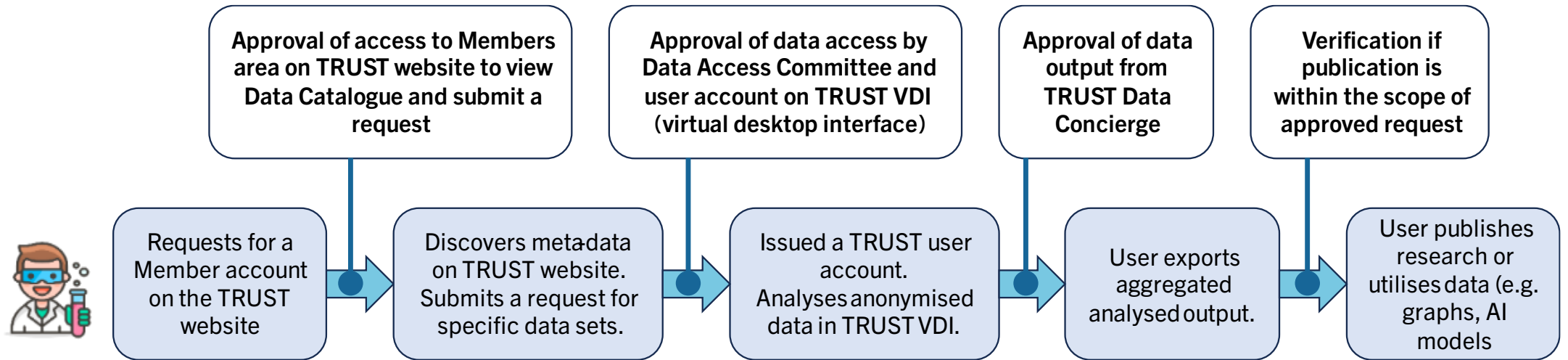
Improved health outcomes & better care delivery

# TRUST adopts the Five Safes Framework





# Ensuring Data User's expeditious and safe access



- a. Approval of data output by TRUST Data Concierge.
  - All output must comply with TRUST's output policy, which states that **these must be aggregated/de-identified, generated based on data from at least 5 individuals.**
- b. Verification that public release of analysis is within scope of approved request.
  - Researchers who wish to publish insights generated from their research on TRUST are required to **submit their publications to TRUST DAC secretariat for pre-publication review.**

# TRUST Data Access Committee (DAC)



## Government Data Reps



Mr Philip Ong (Chair)  
DS (Development), MOH



Mr Lai Kai Bin  
DD, GDD, SNG/MDDI



Ms Lim Yi Ding  
D, DOS TC



## Public Research Organisation / Healthcare Cluster Data Reps



A/Prof Ngiam Kee Yuan  
GCTO, NUHS



A/Prof Yeo Khung Keong  
Dy GCMIO (Research), SHS



A/Prof Tan Cher Heng  
GCRO, NHG



Prof Chng Wee Joo  
Vice President (Biomedical  
Science Research), NUS



Dr Sebastian Maurer-Stroh  
Executive Director, BII,  
A\*STAR



Prof John Chambers  
Prof, CVD Epi, NTU  
CSO, PRECISE



Prof. Roger Vaughan  
D, CQM & CSSD,  
Duke-NUS



## Domain Experts



Prof Julian Savulescu  
D, Centre for Biomedical Ethics  
(Ethics Domain)



Prof Simon Chesterman  
Vice Provost (Educational  
Innovation), NUS (Legal Domain)



Ms Ai Ling Sim-Devadas  
DD (Advocacy & Engagement),  
LKCSOM, NTU (Layperson  
Domain)



Mr Rajakanth Raman  
ED, Rainbow Across Borders  
(Layperson Domain)

The background is a solid dark blue gradient. It is decorated with various white geometric elements: small circles, larger circles, and interconnected lines forming a network or molecular structure. These elements are scattered across the frame, with some appearing more prominent than others.

# How to Get Started

# How to get started

For researchers from our Public Research Organisations\*, you will be able to access TRUST if you are:

- An employee of an institution that has signed the *Data Request Agreement* with TRUST; and
- A bona fide researcher (verification will take place through *Pubmed ref*, *ORCID ID*, *CV* or institution profile page); and
- Have a verified institution email account

Complete data request received by every last Friday of the month will be assessed and reviewed by TRUST DAC within 4-6 weeks. Data would be provisioned on TRUST for access 6-10 weeks<sup>#</sup> post approval.

\*Data provisioning could be delayed by complexity of the data requested and the data availability from the data contributor

# Onboarding process post-DAC approval

TRUST Operations will reach out to initiate the onboarding process.

1. User Onboarding Meeting - the onboarding meeting provides an overview of the next steps and what users can expect during the onboarding process.

The agenda will cover:

- TRUST Workspace & trustplatform.sg member account
- BYOD data - TRUST Data Anonymisation & Conveyance
- User Support
- Availability of online user resources & monthly Foundational Training
- Tools & Libraries
- Projected timeline on completion of onboarding process.

## 2. Guides

- TRUST will provide documentation to support users e.g. TRUST Member Quick Start Guide



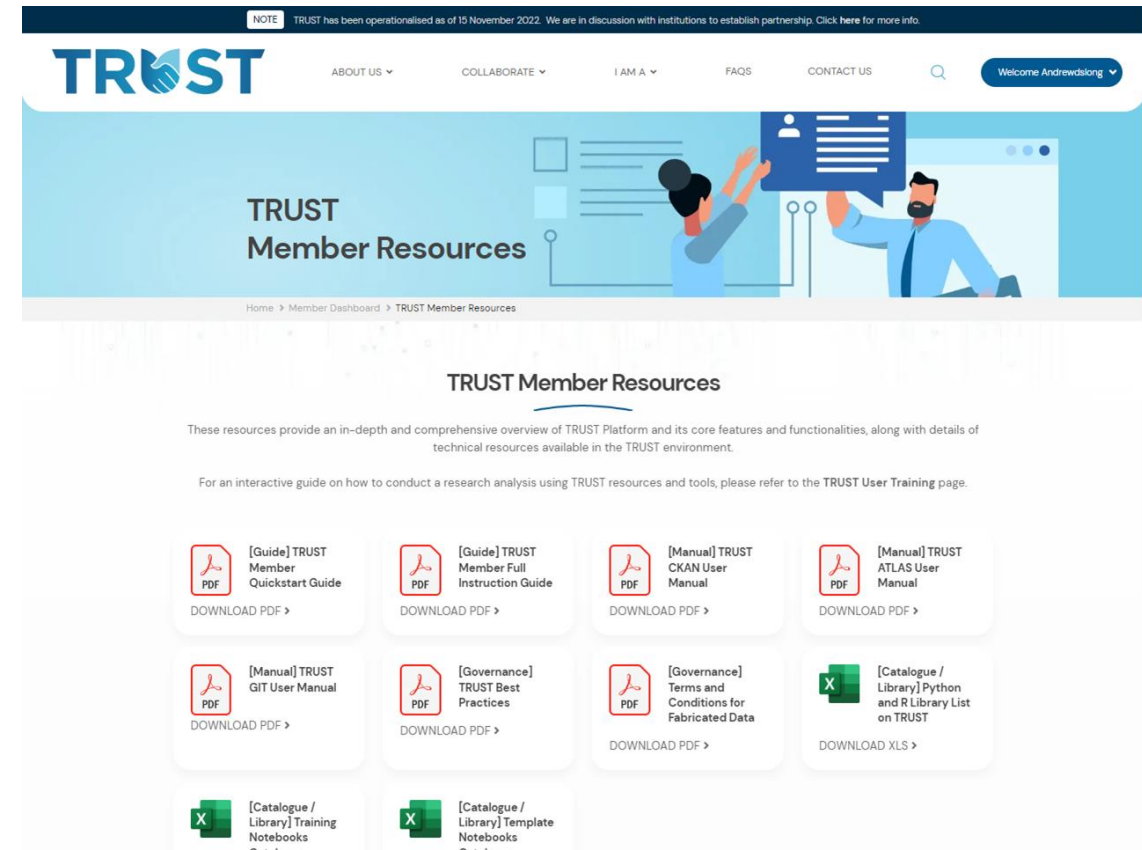
# User Onboarding, Training and Support

- Since launched, TRUST has made available **40 datasets**, approved nearly **50 data requests** and supported close to **350 users** on their research analytics.
- We are actively engaging researchers to understand their research questions and to support their data needs.
- Users are supported with an onboarding programme by the TRUST team, augmented with additional resources available through the TRUST portal
  - User guides and Onboarding sessions
  - Step-by-step video tutorials
  - Community / peer forum\*

\*to be launched in 2025

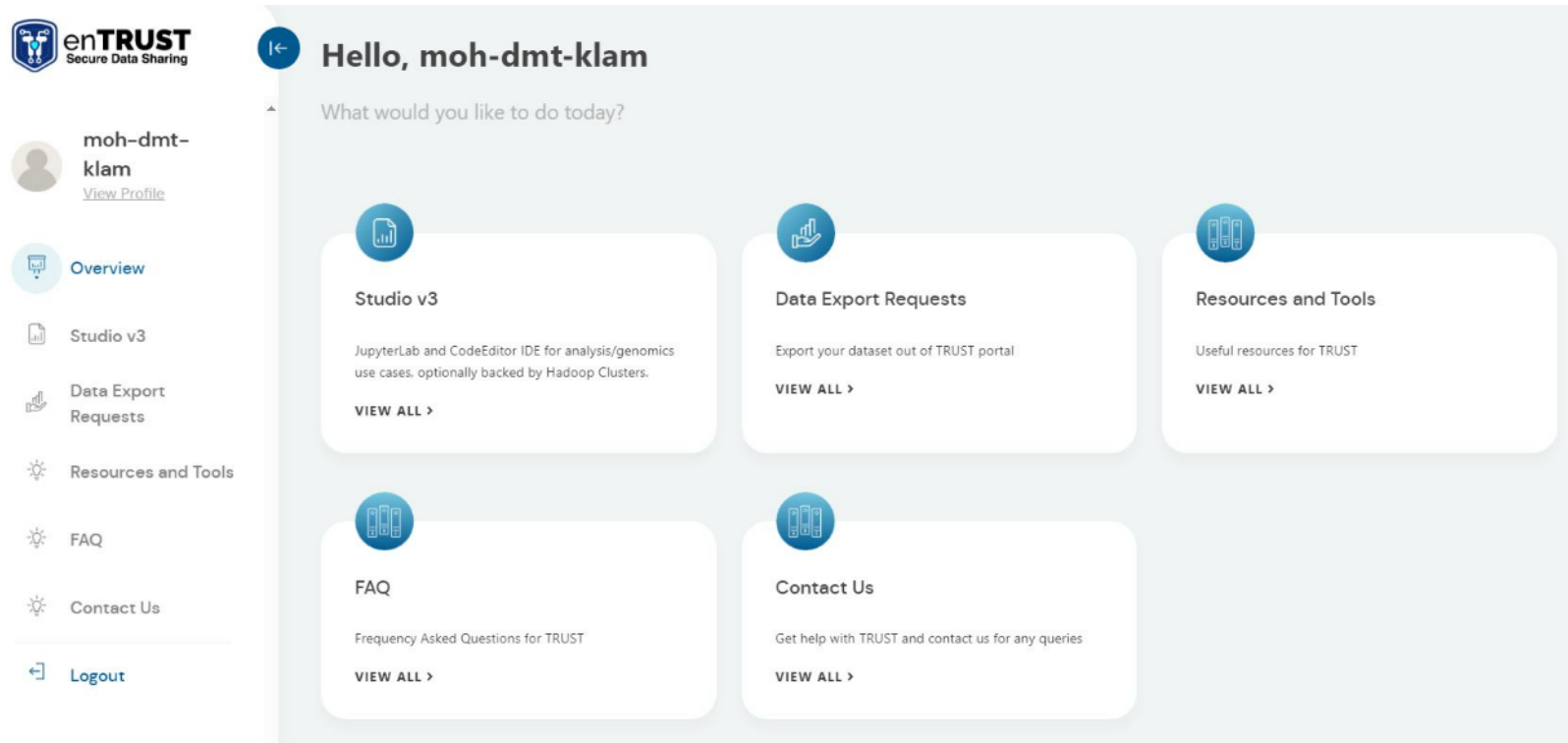
A *TRUST Data Concierge* team supports users throughout their journey

*"We are extremely grateful towards the TRUST Support team for their generous support and great responsiveness and guidance, thank you!"*  
- Dr Chen Wenjia, SSHSPH, NUS (first batch of TRUST users)



# TRUST portal as launch point for user to access various features and functions

- Key Features and Functions
- R, Python and Spark access via Sagemaker Studio, CodeEditor IDE
- Low/no code data exploration and analytical tools via Lifebit Platform (coming soon Q4 2024)
- Requests within air-gap environments:
  - General requests/enquiries from within the portal
  - Export requests of analytical insights



# Recommended data science competency for TRUST users

To carry out data analysis on TRUST, it is highly recommended that users should have a base level of competency in the following areas.

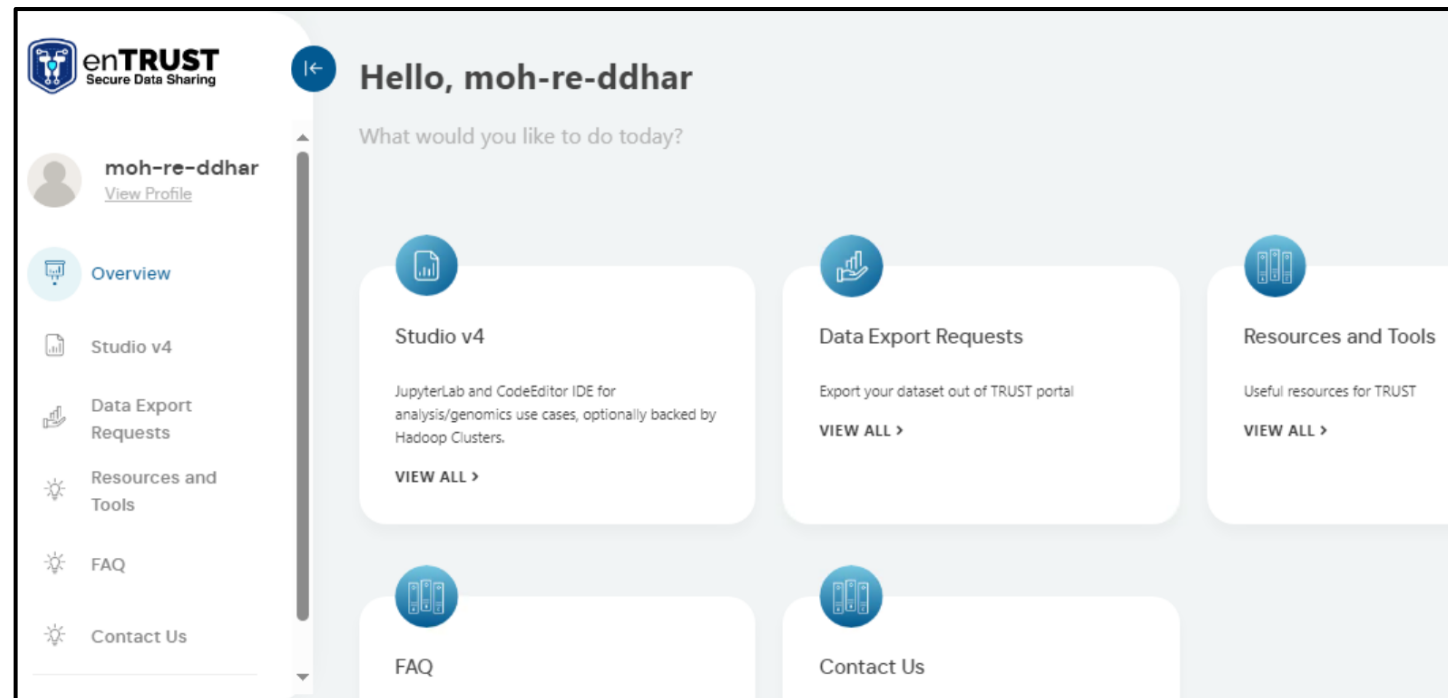
	Recommended Competency	Required For
Strongly Recommended	Some familiarity with Python and / or R syntax	For TRUST data research
	Some experience with handling Data Science notebook interface	For TRUST data research
	Some knowledge of how to work with Linux command line	For data discovery and transferring files from S3 bucket to notebook instance
	Some knowledge of using Cloud storage	For provisioning resources and understanding the cost
Optional	Some knowledge of using Cloud storage	For big data research analysis
	Some familiarity with Pyspark and / or SparkR syntax	For big data research analysis

# enTRUST Portal Overview Page

## User Journey 1 – How to Conduct Research Analysis on enTRUST Platform?

File Type	Training Topic	Version	Duration	Filesize
	<a href="#">enTRUST Overview</a>	3.0	2min 50sec	70MB

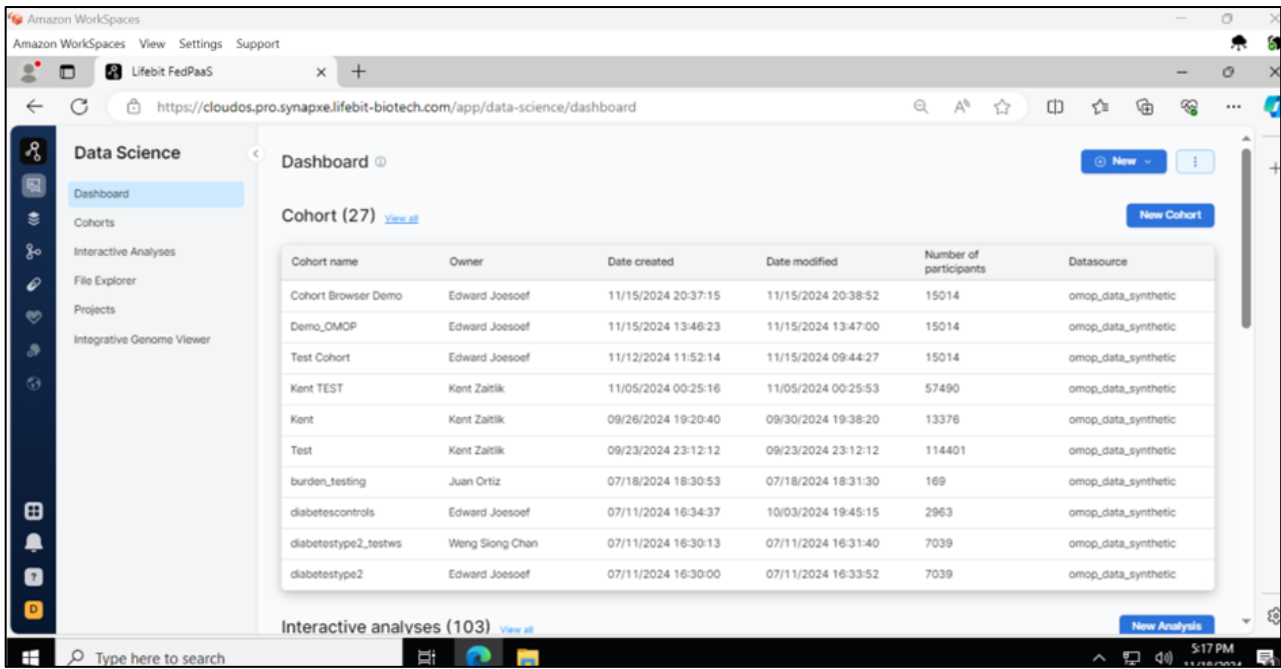
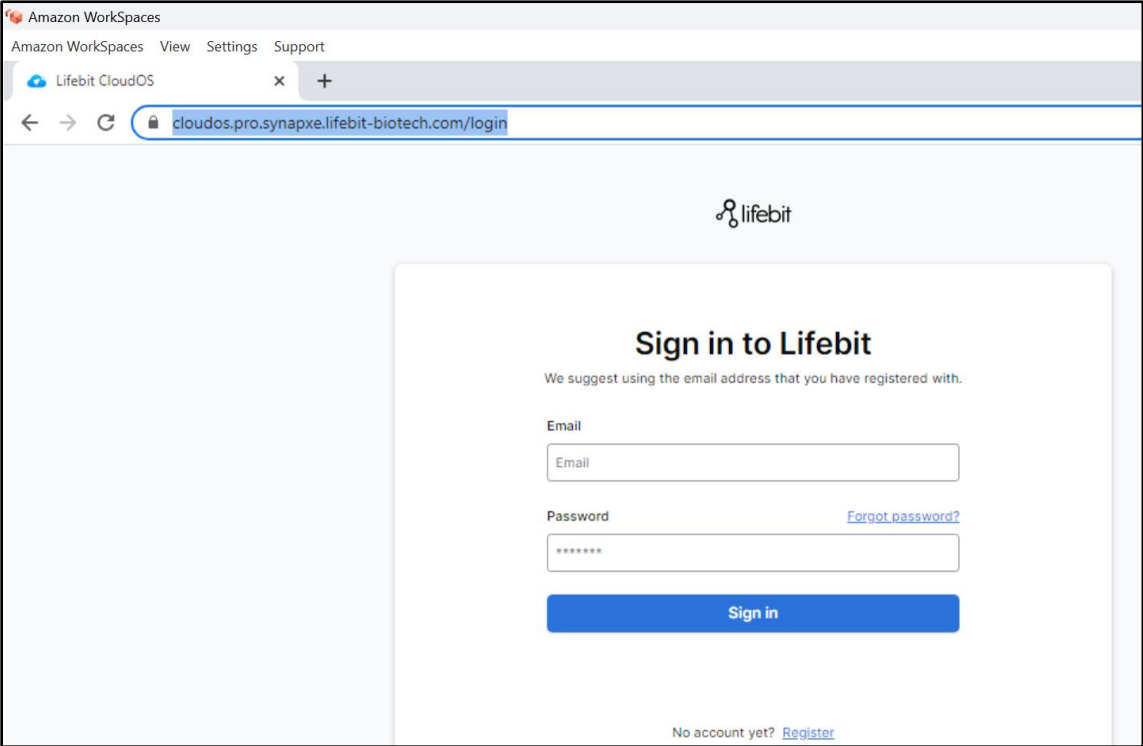
### [enTRUST Overview](#)



# Lifebit Overview

Lifebit			
File Type	Topic	Duration	Filesize
	<a href="#">Lifebit Overview</a>	2min 15sec	29MB

## [Lifebit Overview](#)



# Charging Framework

## Key considerations

1. **Takes into account users' diverse research needs**, offering flexibility to deploy the required computing resources.
2. **Drives responsible use of TRUST resources** while enabling flexibility, scalability and customisation for users to decide on the computing resources for their research.
3. **Transparent approach** where charges are listed down clearly, based on usage & base operational fees.



**TRUST** will cover the core infrastructure development, comprising:

- Manpower to operate TRUST
- Platform Development
- Part of TRUST Foundational Services Fees



**Users** will cover:

- Compute, storage & usage costs: Amazon Web Services (AWS) cloud charges on actual usage
- Part of TRUST Foundational Services Fees



# Components of TRUST Charging Framework fees borne by Users

## i. Base Package

Workspace cost

- a) Users can select a **preconfigured 160 hours** of a selected instance.

## ii. Value Added Services

Comprises:

- a) Big data processing tools e.g. EMR\* (available now)
- b) Sector tools e.g. Lifebit (available in Q4 FY2024)

\*Amazon **EMR** (previously called Amazon **Elastic MapReduce**) is a managed cluster platform that simplifies running big data frameworks on AWS to process and analyse vast amounts of data.



## iii. Foundational Services Fees

Comprises platform implementation, security and data processing related costs\*

- Platform implementation – cloud costs incurred to prepare the TRUST platform for use
- Security – cyber security costs against cyber threats and security breaches
- Data processing related costs – refers to the processing of TRUST data or BYOD (e.g. storage, management, processing, cleaning and transfer).

Timeline for charging out Foundational Services Fees:

- Phase 1 (FY 2024 – FY 2025) – 20%
- Phase 2 (FY 2026 – FY 2029) – 50%
- Phase 3 (FY 2030 onwards) – Full fees apply

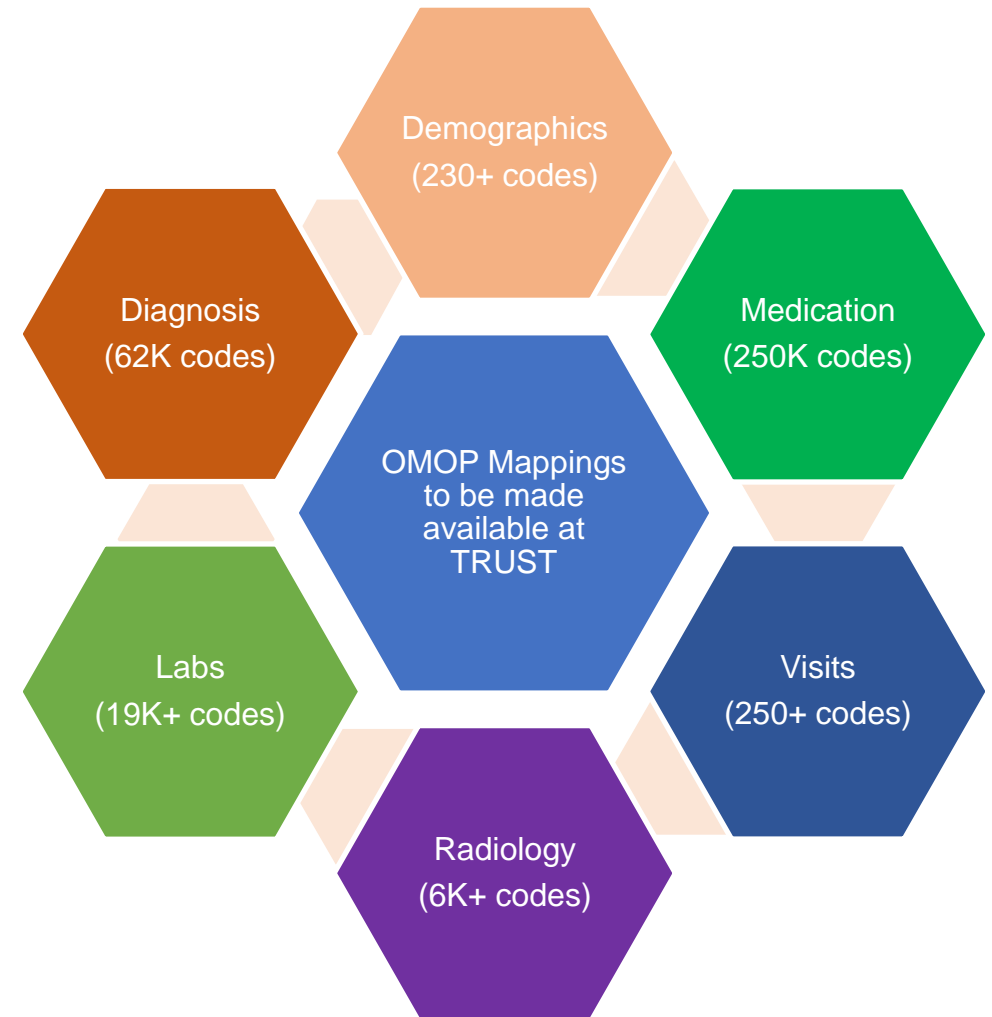


OMOP journey

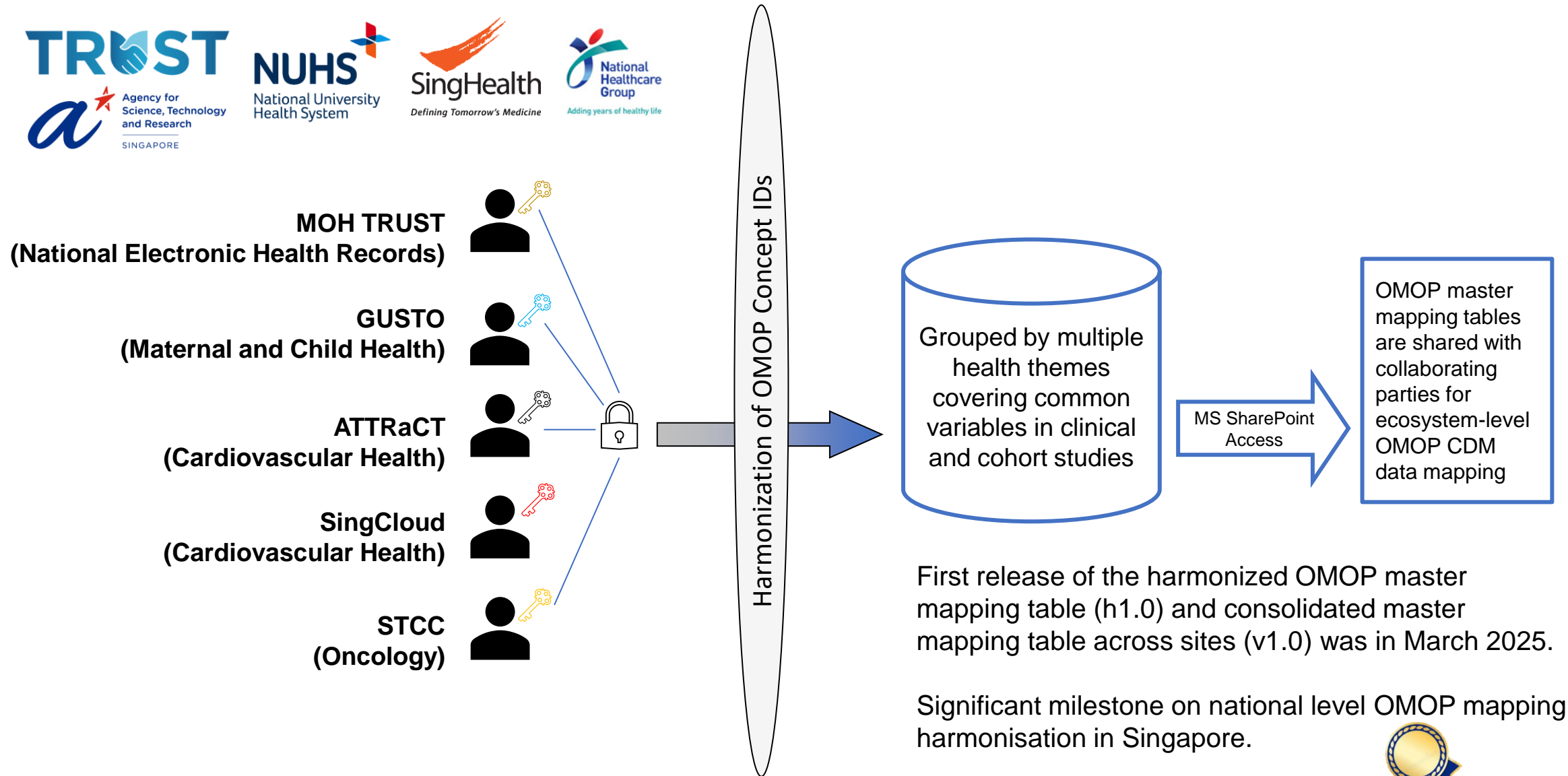
# TRUST OMOP Approach

All-of-Singapore **National Electronic Health Records** mapping efforts:

- Mapping and harmonisation of demographics, diagnoses, medications, visits, laboratory tests, and radiology codes completed.
- Standardised ICD/SNOMED/SDD codes to OMOP terminology across all healthcare institutions.
- Achieved 98% of DQD of mapping to ensure accuracy and relevance.
- Mapping codes now available centrally to enable whole-of-country data harmonization (see next slide)



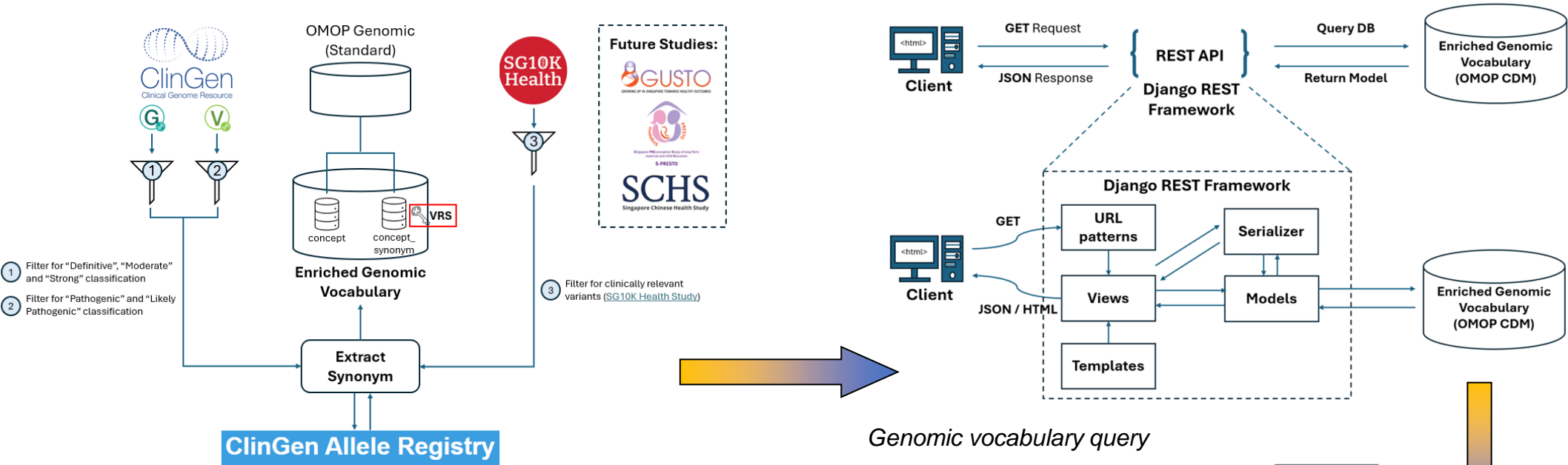
# Singapore's Ecosystem Harmonisation of OMOP CDM Master Mapping Table



OFFICIAL (CLOSED) – NON-SENSITIVE



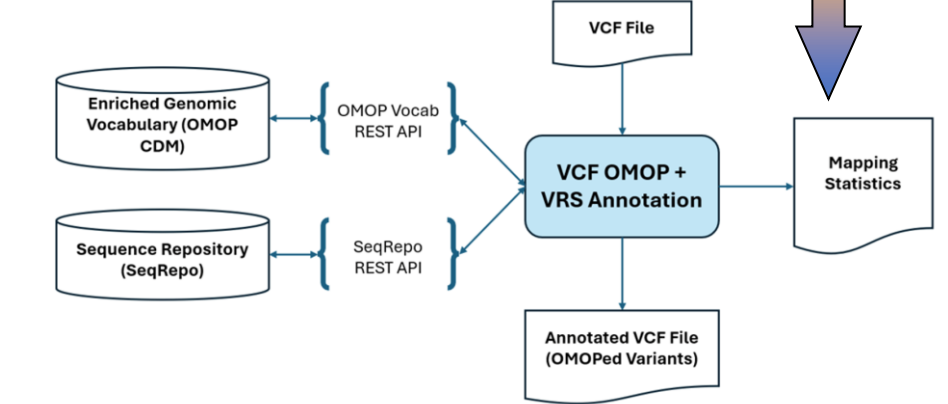
# Embarked on Singapore's OMOP Genomics CDM Strategy



A workflow to enrich genomic vocabulary from public sources or local genomic cohorts

The framework provides a solution for genomic data mapping in OMOP CDM for local and international collaborations.

Genomic vocabulary query



Annotation of genomics VCF file with OMOP Concept ID and VRS computed identifier

## Potential Research Study Topics with OHDSI Community

- Use of GLP-1 receptor agonists and adverse risk outcomes (building upon the findings from OHDSI APAC Symposium 2024, Singapore).
- AI-based prediction of post-surgical risk complications in patients planning for an elective surgery (building upon the findings from IMAGINE AI 2024 Datathon, Singapore).





**Thank you**  
Questions?



# The Book of OHDSI in Japanese

OHDSI APAC Community Call  
05/15/2025

Keiko Asao



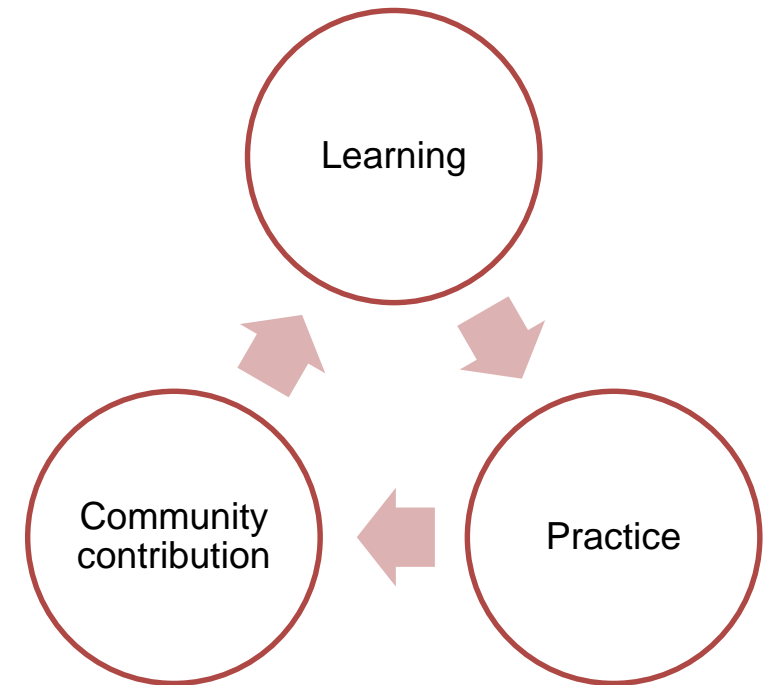
# Contributors to the Japanese Edition

- Supervisors: Shigemi Matsumoto and Tatsuo Hiramatsu
- Work: Keiko Asao, Tomoko Kobayashi, Motoi Miura.
- Machine translation program: Martijn Schuemie
- Supported by: Department of Real World Data R&D  
Graduate School of Medicine, Kyoto University



# What is The Book of OHDSI?

- OHDSI's official text book
- A practical guide to research using OMOP CDM and OHDSI tools
- Suitable for a wide range of readers, from beginner to advanced
- Co-authored by more than 50 OHDSI community members
- Written in R Markdown and published free of charge on GitHub (Creative Commons Zero)





# Overview: The Book of OHDSI in Japanese

- Translation project to promote understanding of OHDSI/OMOP CDM
- Original (English): approx. 115,000 words, 464 pages

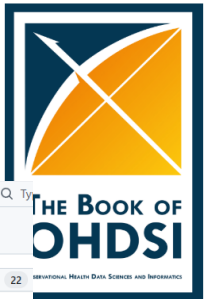
## The Book of OHDSI

Observational Health Data Sciences and Informatics

2021-01-11

## Preface

This is a book about the Observational Health Data Sciences and Informatics (OHDSI) collaborative. The OHDSI community wrote the book to serve as a central knowledge repository for all things OHDSI. The Book is a living document, community-maintained through open-source development tools, and evolves continuously. The online version, available for free at <http://book.ohdsi.org>, always represents the latest version. A physical copy of the book is available from [Amazon](#) at cost price.



OHDSI / TheBookOfOhdsi		
<> Code	Issues 22	Pull requests 10
Actions Projects Security Insights		
TheBookOfOhdsi Public		
Watch 22		
master 2 Branches 1 Tag		
Go to file		
Add file Code		
Admin_mschuemi and Admin_mschuemi Fix render errors, including corrupt png header, R... 4ef7abb · 6 months ago 652 Commits		
extras	Fix render errors, including corrupt png header. Rendering t...	6 months ago
images	Fix render errors, including corrupt png header. Rendering t...	6 months ago
.gitignore	Adding HTML version of book description. Changing figure L...	6 years ago
.nojekyll	starting Travis CI	7 years ago
.travis.yml	update to remotes::install_github()	5 years ago
Characterization.Rmd	minor spelling edits -part 2	5 years ago
ClinicalValidity.Rmd	Remove trailing whitespace	5 years ago
CohortDefinitions.Rmd	Remove trailing whitespace	5 years ago
Cohorts.Rmd	minor spelling edits -part 3	5 years ago
CommonDataModel.Rmd	minor spelling edits -part 3	5 years ago
Contributors.csv	dedup and correct Chan's name on the contributor list	6 years ago
DESCRIPTION	initial import of bookdown-demo	7 years ago





# R Markdown

```
index.Rmd x WhereToBegin.Rmd x
Knit on Save ABC Knit
Source Visual
1 # where to begin {#whereToBegin}
2
3 *Chapter leads: Hamed Abedtash & Kristin Kostka*
4
5 > "A journey of a thousand miles begins with a single step." - Lao Tzu
6
7 The OHDSI community represents a mosaic of stakeholders across academia, industry and
8 benefits a range of individuals and organizations, including patients, providers, and
9 systems, industry, and government agencies. This benefit is achieved by improving bot
10 analytics as well as the usefulness of healthcare data to these stakeholders. We beli
11 which benefits greatly from disruptive thinking. We actively seek and encourage fresh
12 work. \index{community}
13
14 ## Join the Journey
15
16 Everyone is welcome to actively participate in OHDSI, whether you are a patient, a he
17 someone who simply believes in our cause. OHDSI maintains an inclusive membership mod
18 requires no membership fee. Collaboration is as simple as raising a hand to be includ
19 count. Involvement is entirely at-will. A collaborator can have any level of contribu
20 from someone who attends weekly community calls to leading network studies or OHDSI w
21 have to be data holders to be considered active members of the community. The OHDSI c
22 researchers, health care providers and patients & consumers alike. A record of collab
23 periodically updated on the OHDSI website. Membership is fostered via OHDSI community
24 chapters. \index{join the journey} \index{workgroups} \index{chapters}
25
26 ```{r jointhejourney, fig.cap='Join the journey - How to become an OHDSI collaborator
27 fig.align='center'}
28 knitr::include_graphics("images/whereToBegin/joinTheJourney.png")
29 ```
30
31 ### OHDSI Forums
32
33 The OHDSI Forums[^forumur] is an online discussion site where OHDSI Community Collab
34 form of posted messages. The forums consist of a tree-like directory structure. The t
35 can be divided into categories for the relevant discussions. Under the categories are
```

## Chapter 2 Where to Begin

Chapter leads: Hamed Abedtash & Kristin Kostka

"A journey of a thousand miles begins with a single step." - Lao Tzu

The OHDSI community represents a mosaic of stakeholders across academia, industry and government-entities. Our work benefits a range of individuals and organizations, including patients, providers, and researchers, as well as health care systems, industry, and government agencies. This benefit is achieved by improving both the quality of healthcare data analytics as well as the usefulness of healthcare data to these stakeholders. We believe observational research is a field which benefits greatly from disruptive thinking. We actively seek and encourage fresh methodological approaches in our work.

### 2.1 Join the Journey

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. OHDSI maintains an inclusive membership model. To become an OHDSI collaborator requires no membership fee. Collaboration is as simple as raising a hand to be included in the yearly OHDSI membership count. Involvement is entirely at-will. A collaborator can have any level of contribution within the community, ranging from someone who attends weekly community calls to leading network studies or OHDSI working groups. Collaborators do not have to be data holders to be considered active members of the community. The OHDSI community aims to serve data holders, researchers, health care providers and patients & consumers alike. A record of collaborator profiles are maintained and periodically updated on the OHDSI website. Membership is fostered via OHDSI community calls, workgroups and regional chapters.



Join the OHDSI  
forum



Introduce yourself!  
Let the community



Join an OHDSI  
meeting





# Translation Approaches Considered for the Japanese Translation

Approach	Advantages (Pro)	Issue (Con)
PDF/HTML-based translation (Korean and Chinese version method)	<ul style="list-style-type: none"><li>• Relatively easy to start</li><li>• Can be translated close to the display format</li></ul>	<ul style="list-style-type: none"><li>• Figure, formula, and code structures are hard to handle.</li><li>• Difficult to maintain the composition of the original work</li></ul>
GitHub + GPT-4o (French version method)	<ul style="list-style-type: none"><li>• Faithful to source file (rmd)</li><li>• Parallel processing of translation and structural adjustment</li></ul>	<ul style="list-style-type: none"><li>• Depends on output accuracy of ChatGPT</li><li>• Manual verification and correction required.</li></ul>
Using GitLocalize	<ul style="list-style-type: none"><li>• GitHub-based for easy translation management</li><li>• Easy to handle updates</li></ul>	<ul style="list-style-type: none"><li>• R Markdown support is limited</li><li>• Technical setup required</li></ul>

Martijn, thank you!



# FYI: What is GitLocalize?

- Continuous localization tool for GitHub repositories
- Automatically links the original text to the translation, so you can see the extent to which the original text is affected by the update.
- Useful for frequent updates.

## 翻訳文の差分管理

87 %

English	locale/en/docs/index.md	Japanese	locale/ja/docs/index.md
title	Docs	title	ドキュメント
layout	docs.hbs	layout	docs.hbs
labels	Its LTS	labels	Its LTS

### About Docs

There are several types of documentation available on this website:

- API reference documentation
- ES6 features
- Frequently asked questions
- Guides

### API Reference Documentation

The **API reference documentation** provides detailed information about a function or object in Node.js. This documentation indicates what arguments a method accepts, the return value of that method, and what errors may be related to that method. It also indicates which methods are available for different versions of Node.js.

This documentation describes the built-in modules provided by Node.js. It does not document modules provided by the community.

### ドキュメント

ここには3種類のドキュメントがあります:

- API リファレンス
- ES6 の機能
- よくある質問
- Guides

### API リファレンス

API リファレンスでは Node.js の関数やオブジェクトの詳細情報を提供しています。このドキュメントでは、メソッドで何の引数を取るのか、そのメソッドの返り値とそのメソッドに関連するエラーについても説明されています。また、異なる Node.js のバージョンでどのメソッドが使えるかについても説明されています。

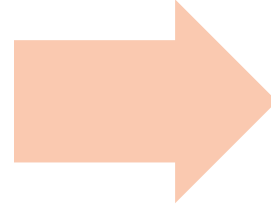
このドキュメントでは Node.js によって提供された組み込みのモジュールについて説明しています。コアに組み込まれていないモジュールは含みませ



# Translation Process

## Step 1: Translation and post-editing

- GitHub + GPT-4o
- Create a terminology list to ensure consistency first
- Post-editing for R markdown format
- Post-editing for Japanese readability
- (No translation for Figures)



## Step 2: Publication and corrections

- Published in HTML and PDF
- Going to accept revision and correction suggestions via GitHub and other methods (email, etc.)



# GitHub + GPT-4o

- [TheBookOfOhdsiInFrench/extras/TranslateBook.R](https://github.com/OHDSI/TheBookOfOhdsiInFrench/blob/main/extras/TranslateBook.R) at main - [OHDSI/TheBookOfOhdsiInFrench](https://github.com/OHDSI/TheBookOfOhdsiInFrench)
- Martijn Schuemie created The Book of OHDSI translation prompt with GPT-4o while keeping the R programming part.

The screenshot displays the GitHub interface for the repository 'OHDSI / TheBookOfOhdsiInFrench'. The repository is public and has 2 branches and 0 tags. The file list shows the following structure:

File/Folder	Description	Commit Date
.github/workflows	Adding TinyTex	6 months ago
extras	Adding PDF render to GA	6 months ago
images	Adding PDF render to GA	6 months ago
.gitignore	Uploading preamble.tex	6 months ago
.nojekyll	Initial translation	6 months ago
.travis.yml	Initial translation	6 months ago
Characterization.Rmd	Fixing issues caused by translation	6 months ago
ClinicalValidity.Rmd	Fixing issues caused by translation	6 months ago
CohortDefinitions.Rmd	Initial translation	6 months ago
Cohort.Rmd	Fixing cross-references	6 months ago

The commit history shows 14 commits by schuemie, with the most recent commit being 'Fixing cross-references' 6 months ago.



# Terminology List to Ensure Consistency

- How to translate OHDSI terminologies?
  - Listing of keywords and frequently used terms (about 200 words)
  - Regional community leaders' reviews and inputs
- Translation should vary for the same terminology depending on context.
- Usage fluctuations even within the original text (occasionally).

- Examples of difficult translation

Observation	Observations, observations (as domain)
Procedure	Procedure
Visit	Length of visit (Visit)
Encounter	Seeing a doctor
The Book of OHDSI	OHDSI Books



# Post-editing For R Markdown File

## How it looks in HTML

本例で使用されるコホートは、既に ATLAS に作成されていると仮定します (Chapter (ref?)(Cohorts) で説明)。付録には、ターゲットコホート (Appendix (ref?)(AceInhibitorsMono), (ref?)(ThiazidesMono)) およびアウトカムコホート (Appendix (ref?)(Angioedema), (ref?)(Ami), (ref?)(ARBUse)) の完全な定義が提供されています。



The correction should conform to the style of the original text.



## R markdown format

```
400
401 - ### 設計
402
403 本例で使用されるコホートは、既に ATLAS
    に作成されていると仮定します (Chapter @ref(Cohorts)
    で説明)。付録には、ターゲットコホート (Appendix
    @ref(AceInhibitorsMono), @ref(ThiazidesMono))
    およびアウトカムコホート (Appendix @ref(Angioedema),
    @ref(Ami), @ref(ARBUse)) の完全な定義が提供されています。
404
405 - ```{r atlasIncidenceCohortSelection,
    fig.cap='ターゲットおよびアウトカム定義の発生率。',echo=FALSE
```



```
400
401 - ### 設計
402
403 本例で使用されるコホートは、既に ATLAS
    に作成されていると仮定します (Chapter \@ref(Cohorts)
    で説明)。付録には、ターゲットコホート (Appendix
    \@ref(AceInhibitorsMono), \@ref(ThiazidesMono))
    およびアウトカムコホート (Appendix \@ref(Angioedema),
    \@ref(Ami), \@ref(ARBUse)) の完全な定義が提供されています。
404
405 - ```{r atlasIncidenceCohortSelection.
```

図 9.22: ターゲットおよびアウトカム定義の発生率。





# Post-editing for Japanese Readability

- The contents are technically difficult.
  - Particularly the second half of Part III and Part IV (PheValuator, calibration of negative controls and effect estimates, positive controls, etc.).
  - Only when the content is understood can the translation be readable.



# Web Application Explanation

- As for the explanation of the web application, it is devised as the form of “English (Japanese)” so that it can be followed as the instructions of the application.

図 10.8 はコンセプトセット表現を示しています。対象とするすべてのACE阻害薬成分を選択し、その下位層すべてを含め、これらの成分を含むすべての薬剤を含めています。「Included concepts（包含されるコンセプト）」をクリックして、この表現に含まれている21,536のコンセプトすべてを確認することができ、「Included Source Codes（包含されるソースコード）」をクリックすると、様々なコーディングシステムに含まれるすべてのソースコードを探索することができます。

Concept Set Expression

Included Concepts 21536

Included Source Codes

Export

Import

Name:

ACE Inhibitors

Show 25 entries

Search:

Showing 1 to 15 of 15 entries

Previous 1 Next

	Concept Id	Concept Code	Concept Name	Domain	Standard Concept Caption	Exclude	Descendants	Mapped
	1335471	18867	benazepril	Drug	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	1340128	1998	Captopril	Drug	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	19050216	21102	Cilazapril	Drug	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	1341927	3827	Enalapril	Drug	Standard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



# Revisions and Corrections

- Intensively revised and corrected during the first three months from the publication.
- Please contact us at [info@kappa-medical.com](mailto:info@kappa-medical.com) with any corrections you notice after reading the report.
- Ongoing revisions are described in the ReadMe on GitHub.

The screenshot shows a web browser displaying the GitHub repository page for 'The Book of OHDSI Japanese'. The address bar shows the URL: <https://github.com/OHDSI/TheBookOfOhdsiInJapanese>. The repository name is 'TheBookOfOhdsiInJapanese' and the description is 'Initial translation by GPT-4o'. The repository is owned by 'Kappa-medical K.K.'. The repository has a 'README' file and a 'CC0-1.0 license'. The README content is in Japanese and describes the book's translation and how to contribute corrections.

The Book of OHDSIの日本語版です。

原文は下記にあります。 <https://github.com/OHDSI/TheBookOfOhdsi>

この翻訳は、The Book OHDSI原文を下記のプログラムにより機械翻訳した後、ポストエディットし作成されました。 <https://github.com/OHDSI/TheBookOfOhdsiInFrench/blob/main/extras/TranslateBook>

日本語版の内容に修正案がある方は、下記の手順に従ってください。

1. このGitHubのレポジトリを自分のアカウントにフォークしてください。
2. RおよびRStudioを使って、Rmd（Rマークダウン）ファイルを編集してください。
3. 変更をコミットしてください。
4. ご自分のフォークから、Contributeしてください。
5. 管理者が確認したのち、Mergeすることによって、修正が反映されます。

Rマークダウンの使用法は、原文のレポジトリから、Cheat Sheetや原文のRmd等を参考にしてください。特に、リンク等の書式に気をつけるようお願いします。



# Lessons Learned

- Team with members who are good at:
  - GitHub and R Markdown
  - Languages
  - OHDSI and OMOP contents
- Book structure in R Markdown
  - Edit to properly reflect chapter and section numbers, figure numbers, references, etc.
- PDF needs further adjustment
  - To use Japanese fonts, it was necessary to change the settings.
  - The index is shown in PDF only (not in HTML).
- Pitfalls of machine translation
  - Large translation omissions occur! (Note that paragraphs, table halves, etc., especially when one sentence is long.)
- Punctuation style was adjusted in Japanese version.
  - Example: Citations after the punctuation to ones before the punctuation.
  - Example: “Chapter X” was changed to “第X章” to make more natural in Japanese.



# Future Prospects: Making The Book of OHDSI Multilingual

- OHDSI global movement to update the Book with consideration for multilingualization.
- Including the localization into the scope when created the original may make the localization easier
  - Easy to understand, relatively short original text
  - Easy-to-translate structure (e.g., diagrams with instructions on the application for application descriptions)



# HTML and PDF available April 1, 2025

- <https://ohdsi.github.io/TheBookOfOhdsiInJapanese/>
- <https://ohdsi.github.io/TheBookOfOhdsiInJapanese/TheBookOfOhdsiInJapanese.pdf>

OHDSIの本

序章

この本の目標

本書の構成

貢献者

ソフトウェアのバージョン

ライセンス

本書が作成された方法

I OHDSI コミュニティ

1 OHDSI コミュニティ

2 どこから始めようか

3 オープンサイエンス

II 共通データモデル

4 共通データモデル

5 標準化ボキャブラリ

6 ETL (抽出-変換-読込)

III データ解析

7 データ解析の使用例

8 OHDSI 分析ツール

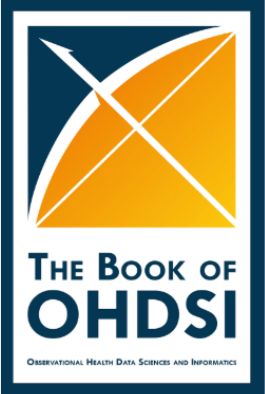
OHDSIの本

Observational Health Data Sciences and Informatics (OHDSI)

2025-03-15

序章

これは、OHDSI コラボレーションについての本です。この本は、OHDSIコミュニティにより作成され、OHDSIに関するすべての知識の中心的なリポジトリとして役立つことを目指しています。この本はオープンソース開発ツールを通じてコミュニティにより維持される生きた文書であり、絶えず進化しています。オンライン版は無料で <http://book.ohdsi.org> から利用でき、常に最新バージョンを表示します。物理的なコピー（訳者注：英語版）はAmazonで原価価格で入手可能です。



この本の目標

この本は、OHDSIの中心的な知識リポジトリとなることを目的としており、OHDSIコミュニティ、OHDSI データ標準、および

OHDSI の本

Observational Health Data Sciences and Informatics (OHDSI)

2025-03-15