

COVID-19
IMMUNITY
TASK FORCE

GRUPE DE TRAVAIL
SUR L'IMMUNITÉ
FACE À LA COVID-19



SEMINAR

The CITF Databank



THURSDAY, DECEMBER 15, 2022
3 P.M. TO 4 P.M. EST

Moderator

Tim Evans, MD, PhD

Executive Director, COVID-19 Immunity Task Force

Professor, Director and Associate Dean of the School of Population and Global Health,
Faculty of Medicine, McGill University



Land Acknowledgement

We are speaking to you from our place of work at McGill University, which is on land which has long served as a site of meeting and exchange amongst Indigenous Peoples, including the Haudenosaunee and Anishinabeg nations. We would like to acknowledge and thank the diverse Indigenous Peoples whose presence marks this territory on which peoples of the world now gather.

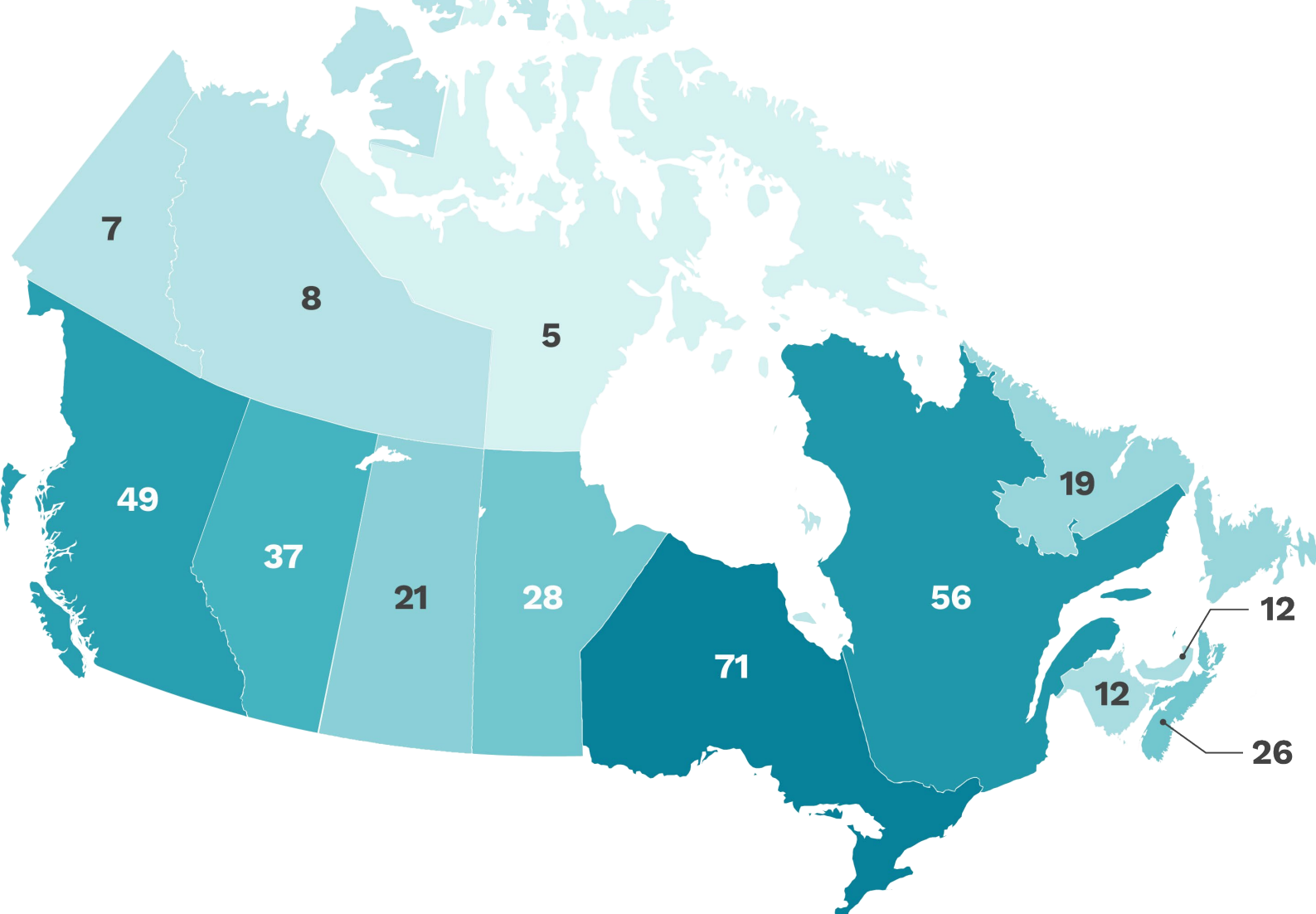
COVID-19 Immunity Task Force mandate

Established by the Government of Canada in April 2020

Mandate:

Catalyze, support, fund, and harmonize knowledge on SARS-CoV-2 immunity for federal, provincial, and territorial decision-makers to inform their efforts to protect Canadians and minimize the impact of the COVID-19 pandemic.

CITF supports studies active across Canada



119 studies

CITF mandate for data sharing

“

Establish an ethos in which the **rigorous gathering and rapid sharing of data** to inform Canadians and to advance the broad public interest over-rides any considerations of personal/group advancement.

- CITF Guiding Principles

”



David Buckeridge, MD, PhD, FRCPC

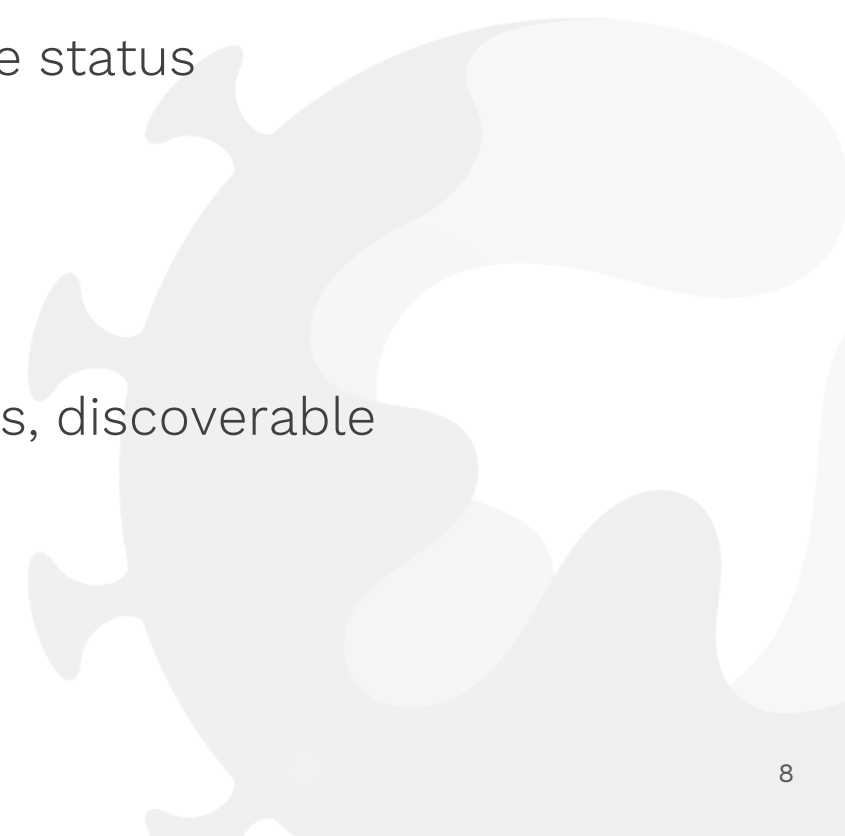
Scientific Lead, Data Management and Analysis
CITF Secretariat

Professor, School of Population and
Global Health, McGill University

data@covid19immunitytaskforce.ca

CITF Databank: Key characteristics

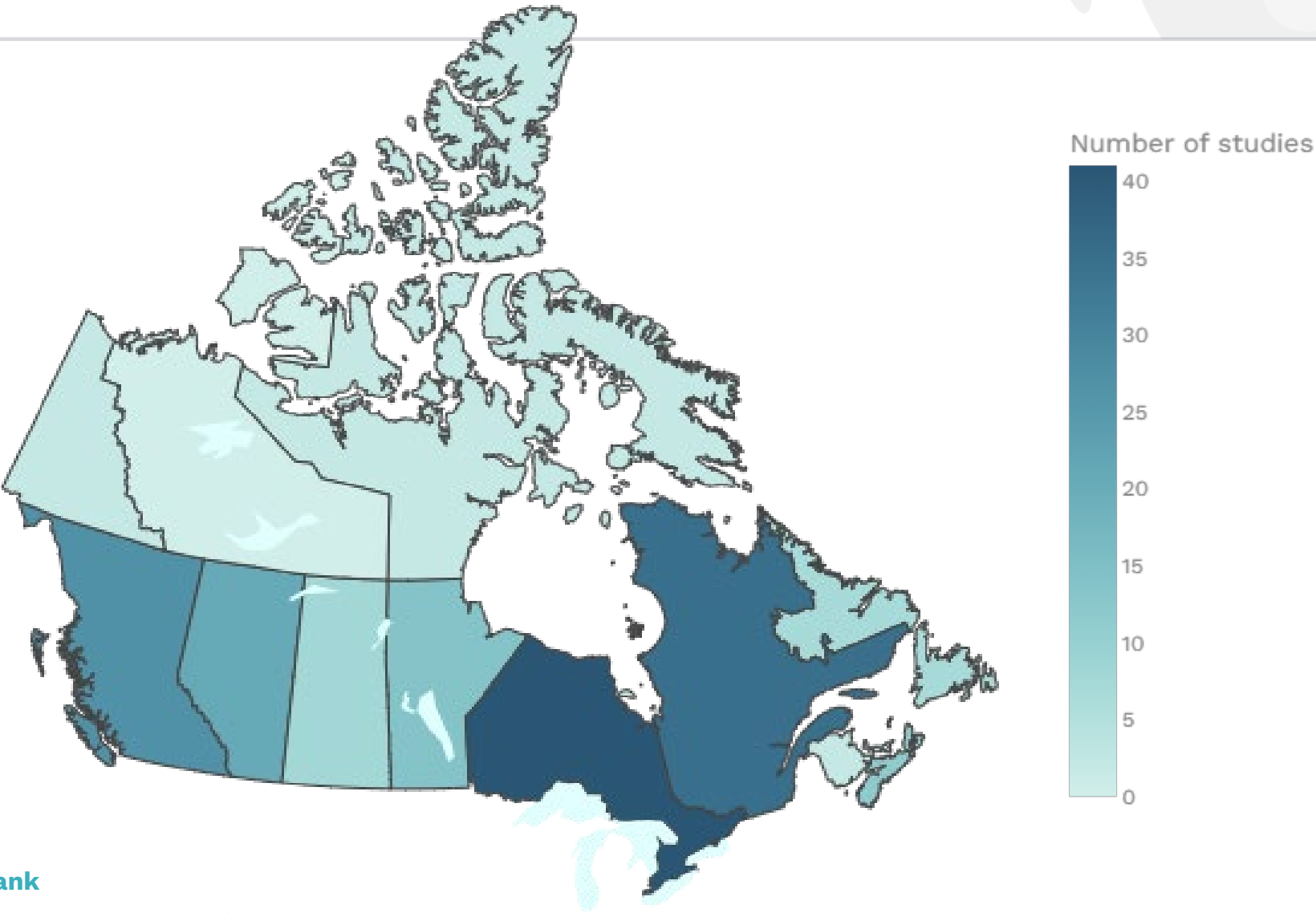
- Broad scope
 - ▶ Over 70 research studies to be included
 - ▶ Studies across Canada across the course of the pandemic
 - ▶ Multiple populations, sampled by population, not disease status
- Scientifically valuable content
 - ▶ Individual-level data and statistical aggregates
 - ▶ Self-report, database, laboratory
 - ▶ Metadata, common data elements, harmonized data sets, discoverable
- Robust data governance
 - ▶ Common consent elements
 - ▶ Clear data sharing mechanisms and oversight



Three types of data in the CITF Databank

1. Descriptions of data (Metadata): catalogue in collaboration with [Maelstrom Research](#) – open access
2. Statistical aggregates: anonymized, aggregated results from CITF-funded studies and partners: [Seroprevalence in Canada webpage](#) – open access
3. **Individual-level data: deidentified records from CITF-funded studies and partners - restricted access**

Geographic distribution of studies



Populations in CITF Studies

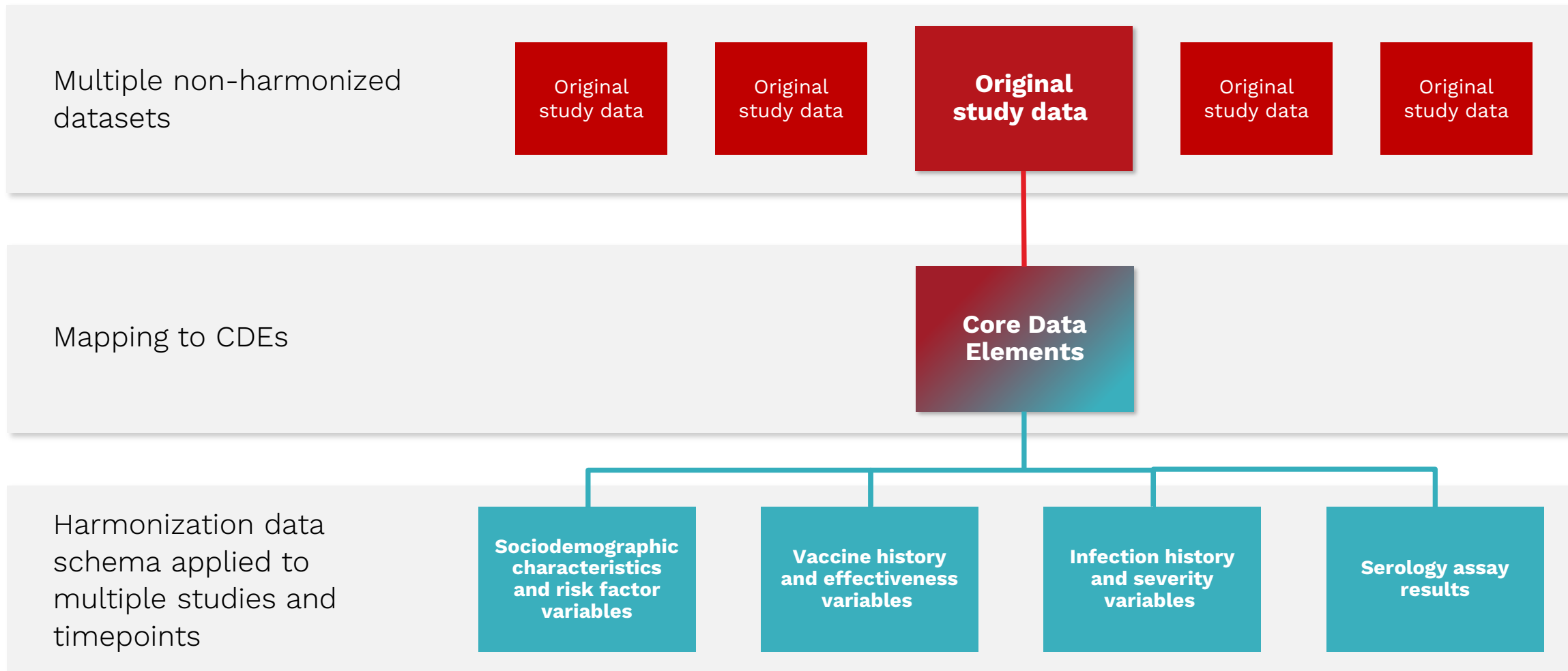


Databank variables

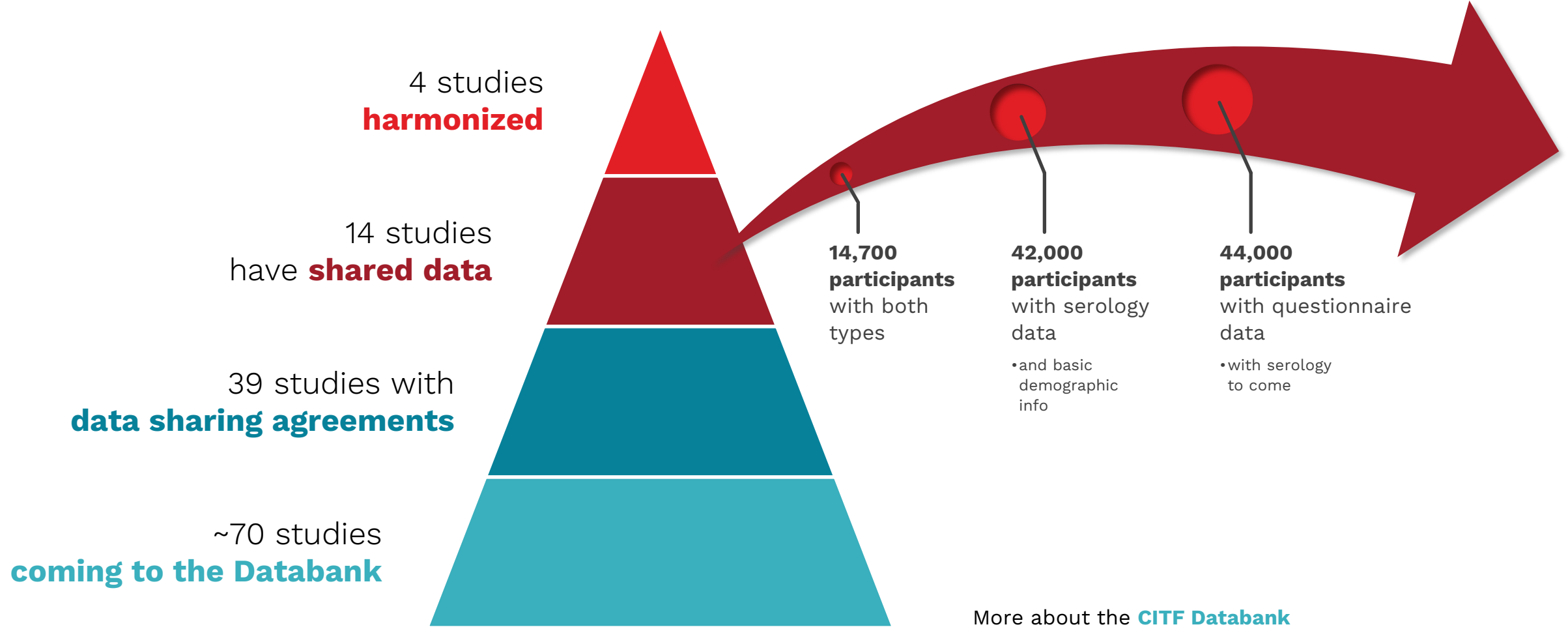
Demographic and health background	Administrative	Identifiers (participant, cluster, visit date, completed by proxy)
	Sociodemographic	Age, sex, gender, race-ethnicity, highest education completed
	Residence	Resides in institution (e.g. LTCH), FSA, # household members and rooms
	Other exposure risks	Works close to public. Pre-2021: travel, adherence to NPI
	Health history	Chronic conditions, smoking, height and weight
COVID-19 history	Infection	PCR test results, other signs of infection, dates (relative to vaccination)
	Clinical	Hospitalization, death, on-going symptoms (in most recent version)
	Vaccination	Dose, type, date, [adverse or secondary effects]
Laboratory measures	Serology	Infection-acquired and vaccine-induced seropositivity assay results and assay specifications
	Cell-mediated immunity	Study specific measures



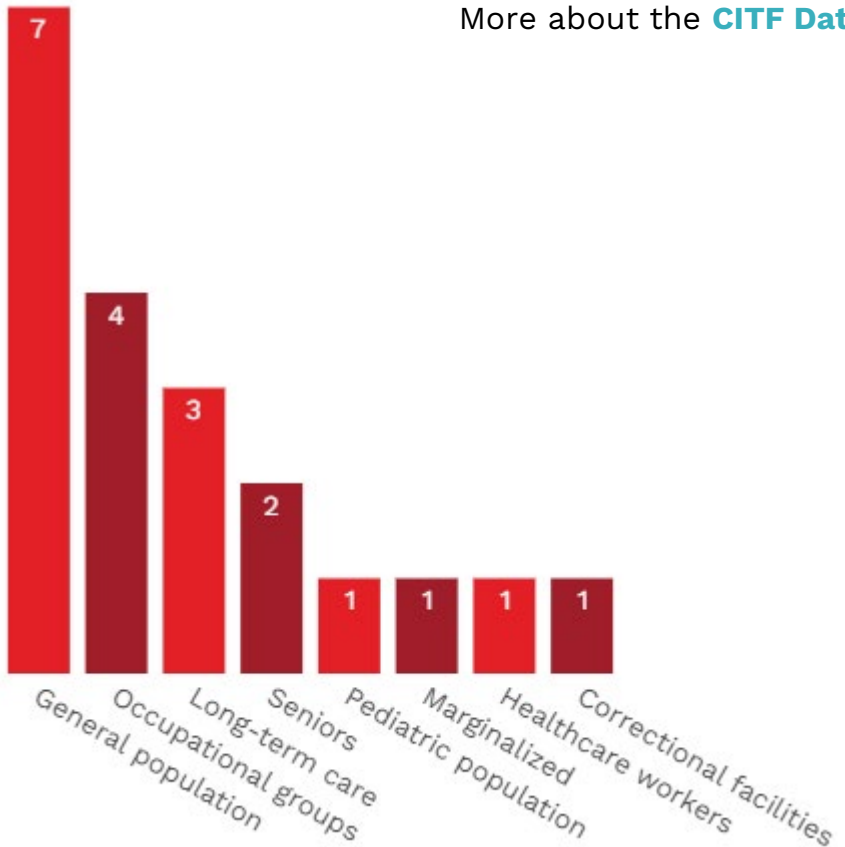
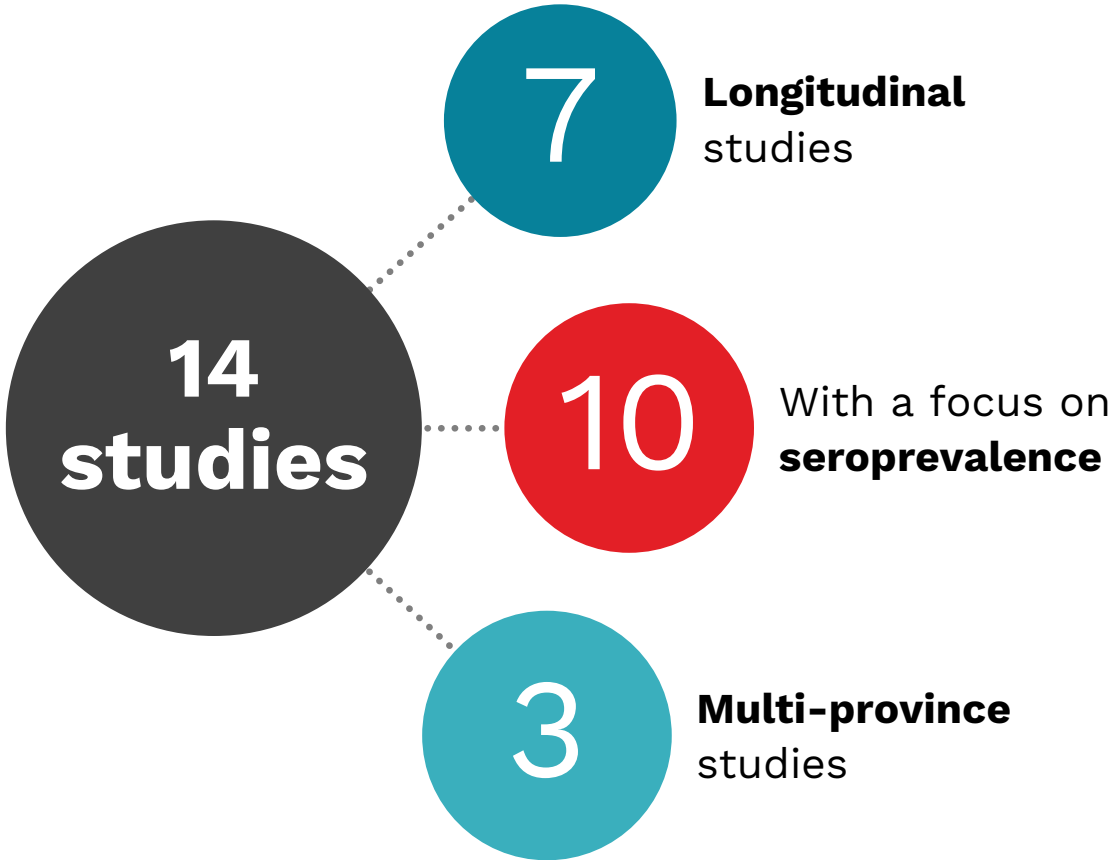
About harmonization



Current Databank progress



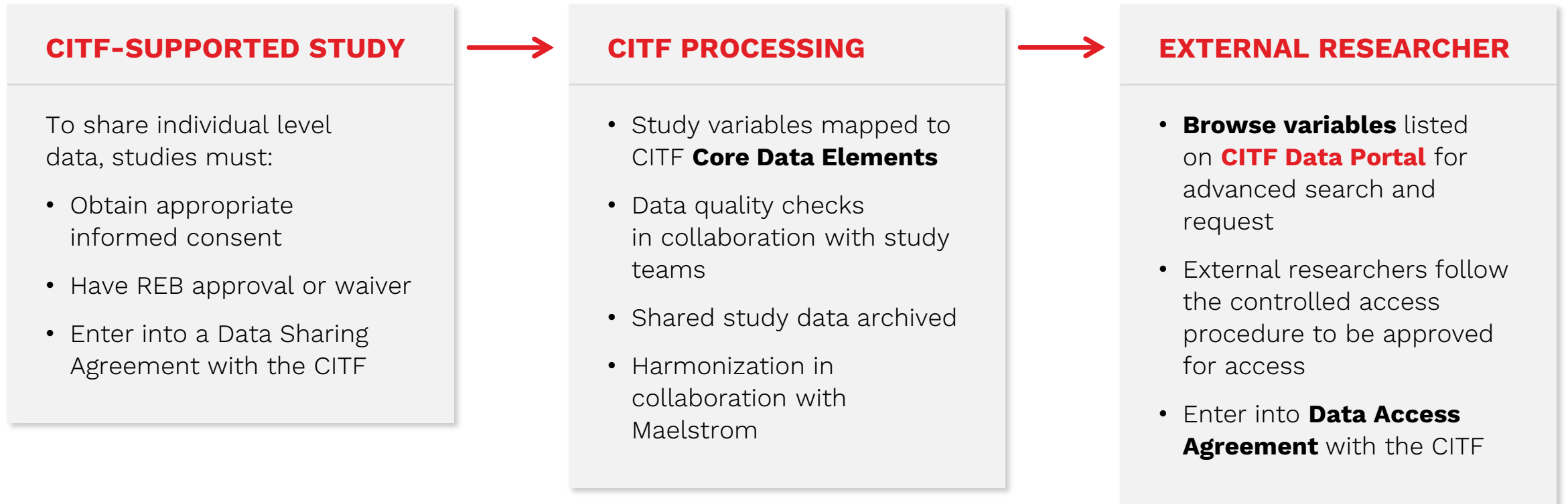
Current Databank contents





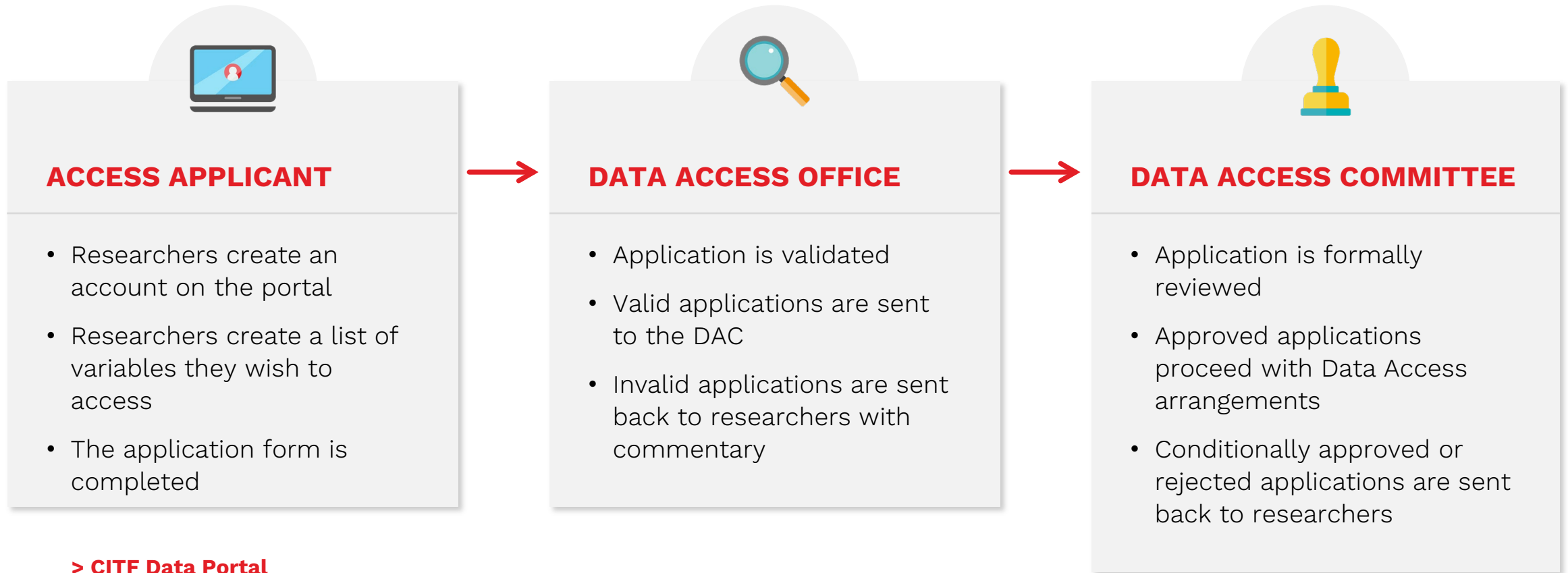
Accessing individual level data

Governance of individual level data



> **Detailed access procedure**

Controlled Access Procedure



> [CITF Data Portal](#)

> [Detailed access procedure](#)

Data Access Office and Data Access Committee

Data Access Office (DAO)

- The CITF DAO performs administrative assessments of incoming data access applications.
- This involves checking the overall quality and completeness of the application and required documentation.
- The Data Access Office also manages data transfers and communication between applicants and the DAC or CITF Data Teams.

Data Access Committee (DAC)

- The CITF DAC reviews requests to access individual-level data in the CITF Databank for research projects.
- The DAC assesses the feasibility of the proposal and its compliance with the CITF Guiding Principles as outlined in the CITF Data Access Policy.
- The committee is composed of 5 members with expertise in areas such as science, data governance, and lived experience.

What is needed to approve a request

REQUIRED DOCUMENTATION

- Research summary including justification for the requested variables and statistical analyses to be conducted
- Evidence of approval by a Research Ethics Board for the research project or confirmation for why REB approval is not required
- CV of the researcher applying

CRITERIA FOR APPROVAL

- Research is in accordance with the guiding principles of the CITF
- Research has been deemed scientifically sound and the project scope is appropriate
- Justification for the need of the CITF Data is provided
- If requested data could identify Indigenous Peoples or Communities, justification for the use of the variables and evidence of appropriate engagement

FAQs

- There is **no cost** associated
- Available **internationally**
- Available for researchers working in **industry and academia**
- Length of approval time varies by request



Conditions of Use

Once Data Access has been granted, applicants must adhere to the following documents:



If changes to study personnel or study protocol are expected that could affect the use of CITF data, an **amendment form** must be filled out.

- ▶ Depending on the nature of the change, the form will need to go through a DAO review (i.e. new project staff) or DAO and DAC review (i.e. changes to statistical analysis, new variables requested, etc.)



Consulting the Metadata



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STUDIES IN THE CITF DATABANK



Studies in the CITF Databank



Saskatchewan SARS-CoV-2 Seroprevalence Protocol (Phase I/Retrospective- lab analysis only)

Maureen Anderson, University of Saskatchewan

This study aims to understand what proportion of the population in Saskatchewan has immunity to SARS-CoV-2 by geographic area, age group and sex, in order to establish the cumulative population immunity. Researchers are also examining how long immunity lasts and helping to target vaccination campaigns.

[RESEARCH SUMMARY](#)



Surveying prospective population cohorts for COVID19 prevalence and outcomes in Canada (SUPPORT-Canada)

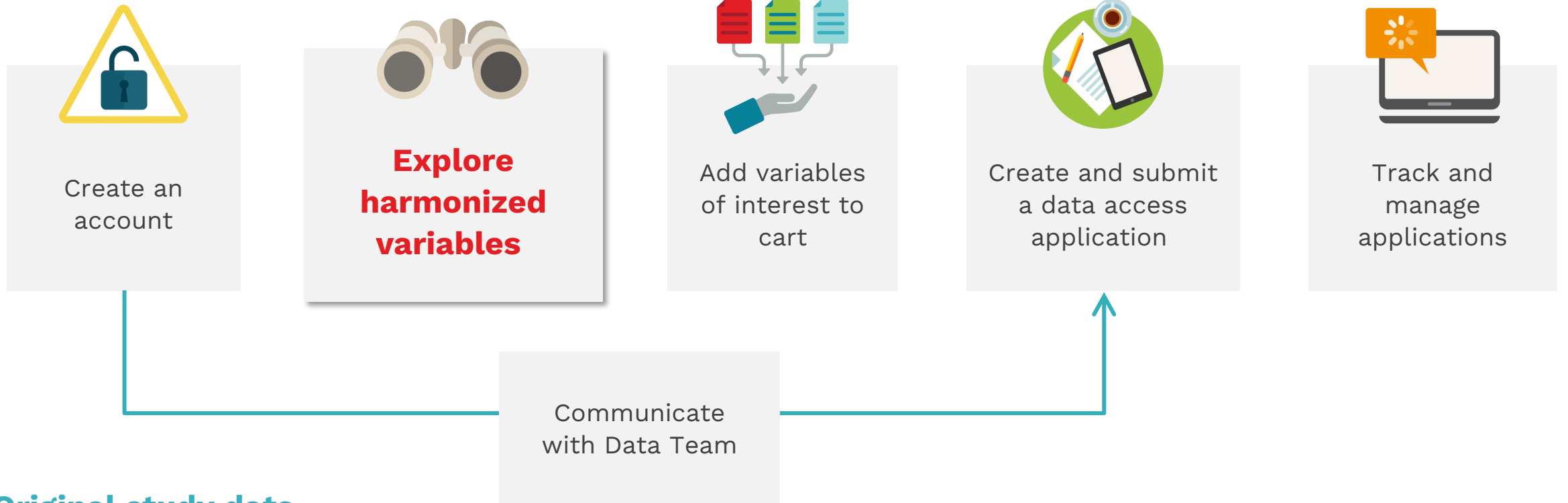
Philip Awadalla, Canadian Partnership for Tomorrow's Health (CanPath)



Navigating the CITF Data Portal

Data Portal Access Process

Harmonized data



Original study data

(*shared variables only)

> [CITF Data Portal](#)

Step 2: Explore harmonized variables

The screenshot displays the 'Explore Variables' web application interface. At the top, the navigation bar includes the COVID-19 Immunity Task Force logo, the text 'COVID-19 IMMUNITY TASK FORCE' and 'GROUPE DE TRAVAIL SUR L'IMMUNITÉ FACE À LA COVID-19', and menu items for 'Harmonization', 'Data Access Process', 'Data Access', and 'Approved Projects'. The 'Explore Variables' button is highlighted with a red circle. Below the navigation bar, the main content area is titled 'Explore Variables'. On the left, there is a sidebar with 'Variables' and 'Protocols' sections, each containing 'Areas of Information' and 'Properties' links. The main content area features a 'Query' section with a search bar and 'Advanced search' and 'Copy query' buttons. Below this, there are sections for 'Lists' (Coverage) and 'Variables' (163) with a 'Download' button and an 'Add to cart' button. A pagination control shows '20' items per page and page numbers '1', '2', '3', and '...'. The bottom section is a table of variables.

<input type="checkbox"/>	Name	Label	Value type	Annotations	Protocol
<input type="checkbox"/>	adm_cluster_1	Type of Clusters present in the study - if more than one exists they would be separated by a semi-colon	Integer	Other administrative information	CITF-Questionnaire1-HP

Step 2: Explore harmonized variables

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Harmonization **Explore Variables** Data Access Process Data Access Approved Projects

Explore Variables

Variables

Areas of Information >

Properties >

Protocols

Properties >

Selection Criteria

Filter the selection criteria by keyword Filter

Areas of information

Socio-demographic and economic characteristics *i*

- Age/birthdate
- Education
- Ethnicity, race and religion
- Labour force and retirement
- Residence
- Sex/gender

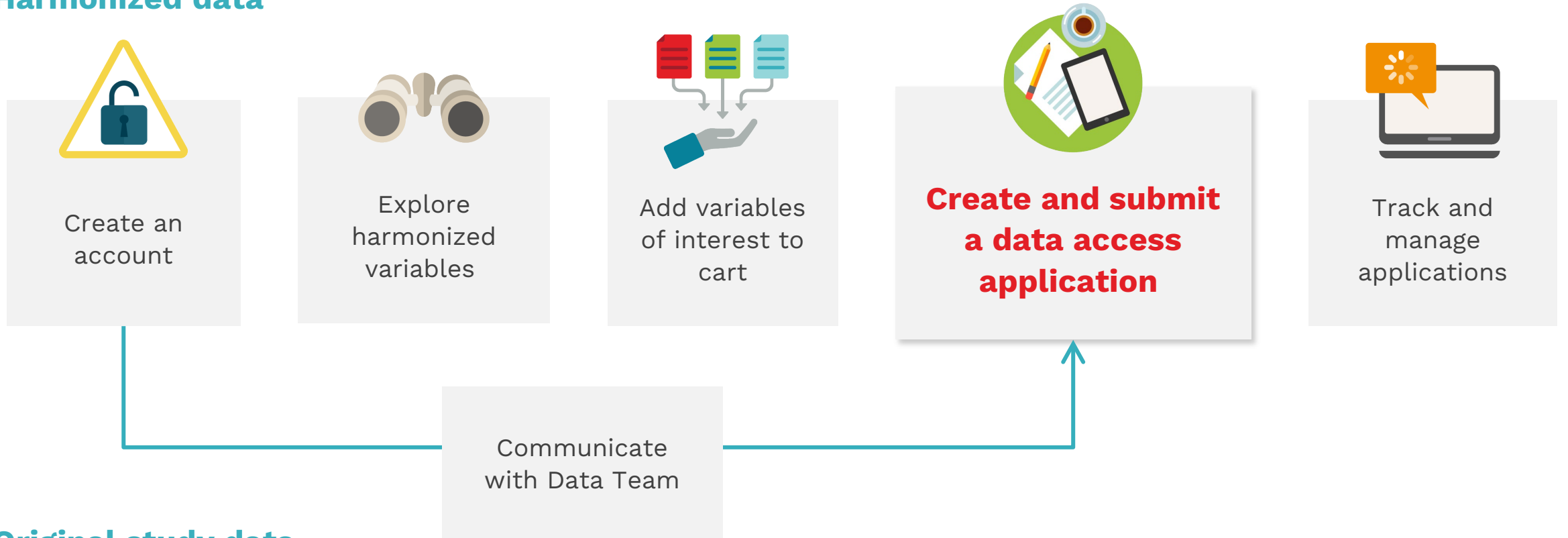
Lifestyle and behaviours *i* Select All

- Leisure activities
- Tobacco

Ability to filter by areas of information and properties of variables

Data Portal Access Process

Harmonized data



Original study data

(*CDEs only)

> [CITF Data Portal](#)

Step 4: Create a data request

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Administration EN Hanna Joan Eleanor Swail

Harmonization Explore Variables Data Access Process Data Access Approved Projects

Cart

Use the cart to make a list of variables. This list can be analyzed or can be viewed in the Explore Variables page.

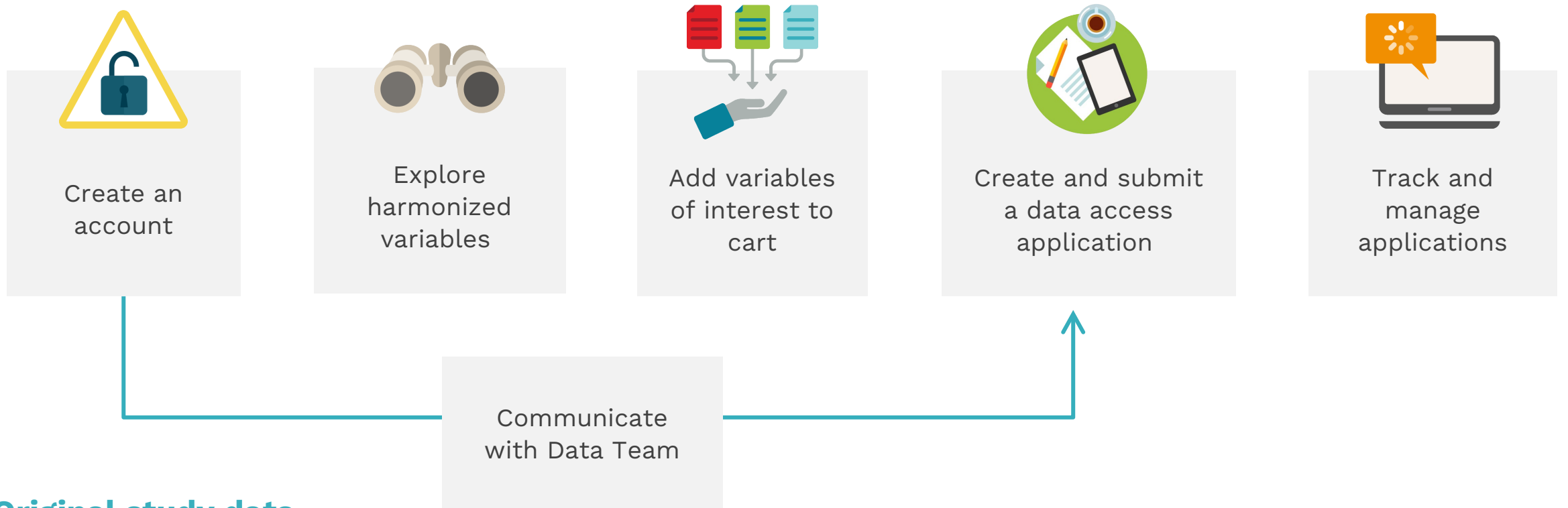
Variables + New Data Access Request Add to List Download Delete

50

<input type="checkbox"/>	Name	Label	Value type	Annotations	Protocol
<input type="checkbox"/>	adm_cluster_1	Type of Clusters present in the study - if more than one exists they would be separated by a semi-colon	Integer	Other administrative information	CITF-Questionnaire1-HP
<input type="checkbox"/>	adm_completion_date	Date of interview	Date	Date and time-related information	CITF-Questionnaire1-HP

Data Portal Access Process

Harmonized data



Original study data

(*shared variables only)

[> CITF Data Portal](#)



Questions?

data@covid19immunitytaskforce.ca



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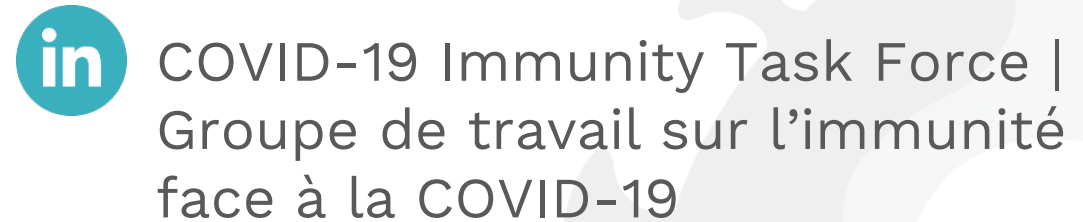
Seminar Series | Research Results & Implications

How social determinants of health affected the COVID-19 pandemic in Canada



January 25, 2023 | 12:30 p.m. to 2:00 p.m. EST

Discover us!



covid19immunitytaskforce.ca