

- Ministry of Health

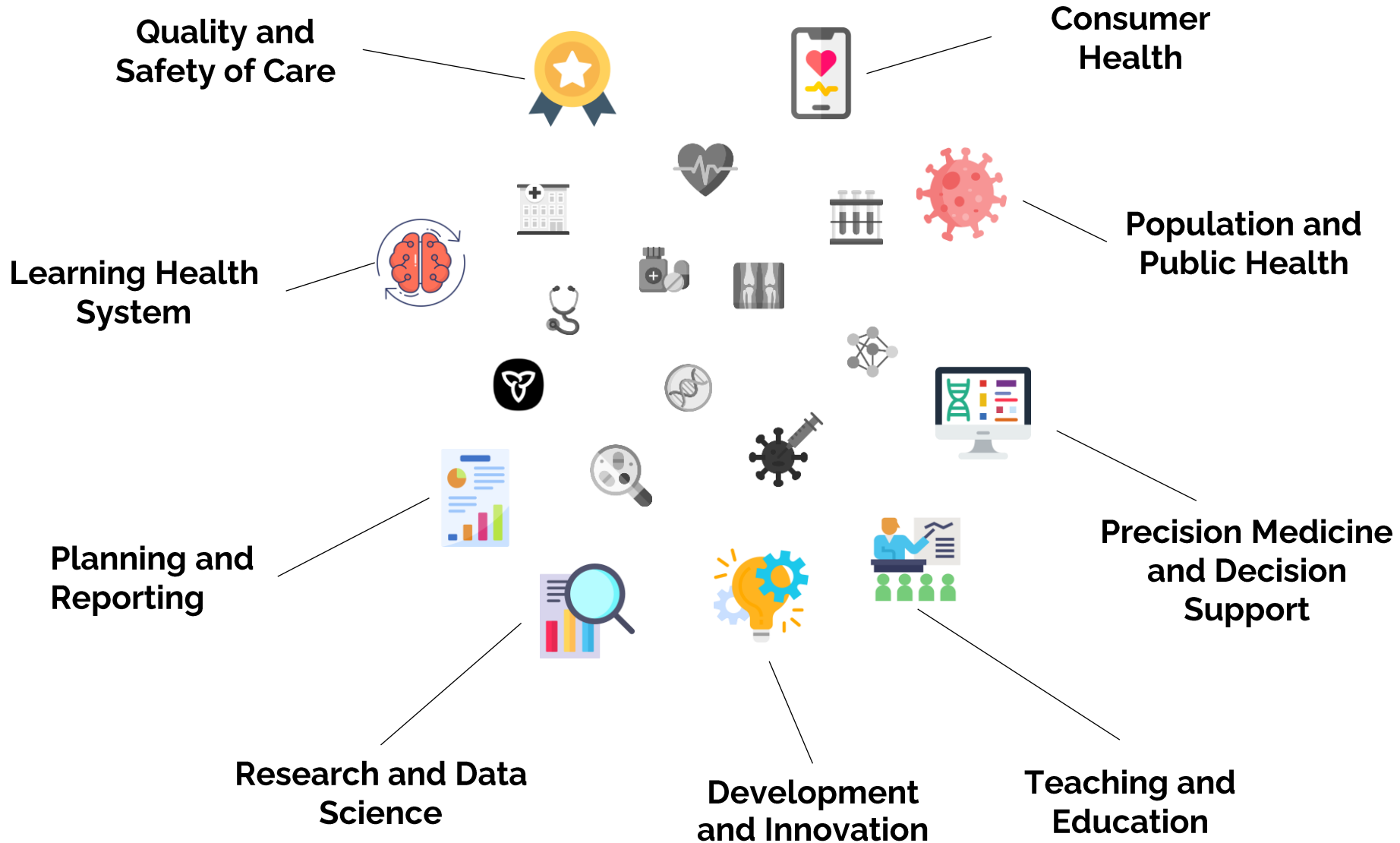
Patient-Oriented Architecture and the Dialogue on Data

Digital Health Division

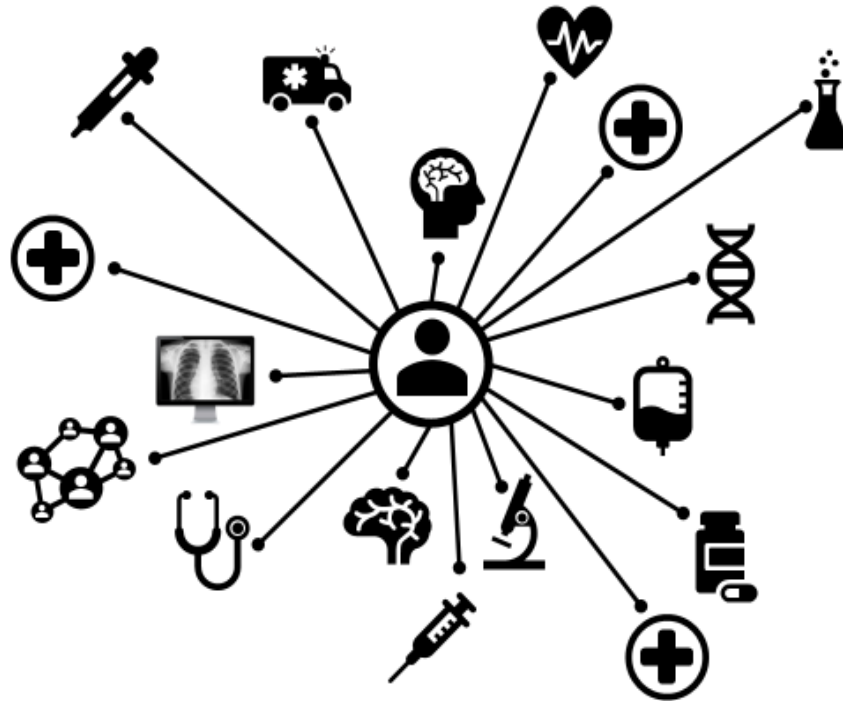
Ministry of Health

February 2022

Challenges enabling Health System Use

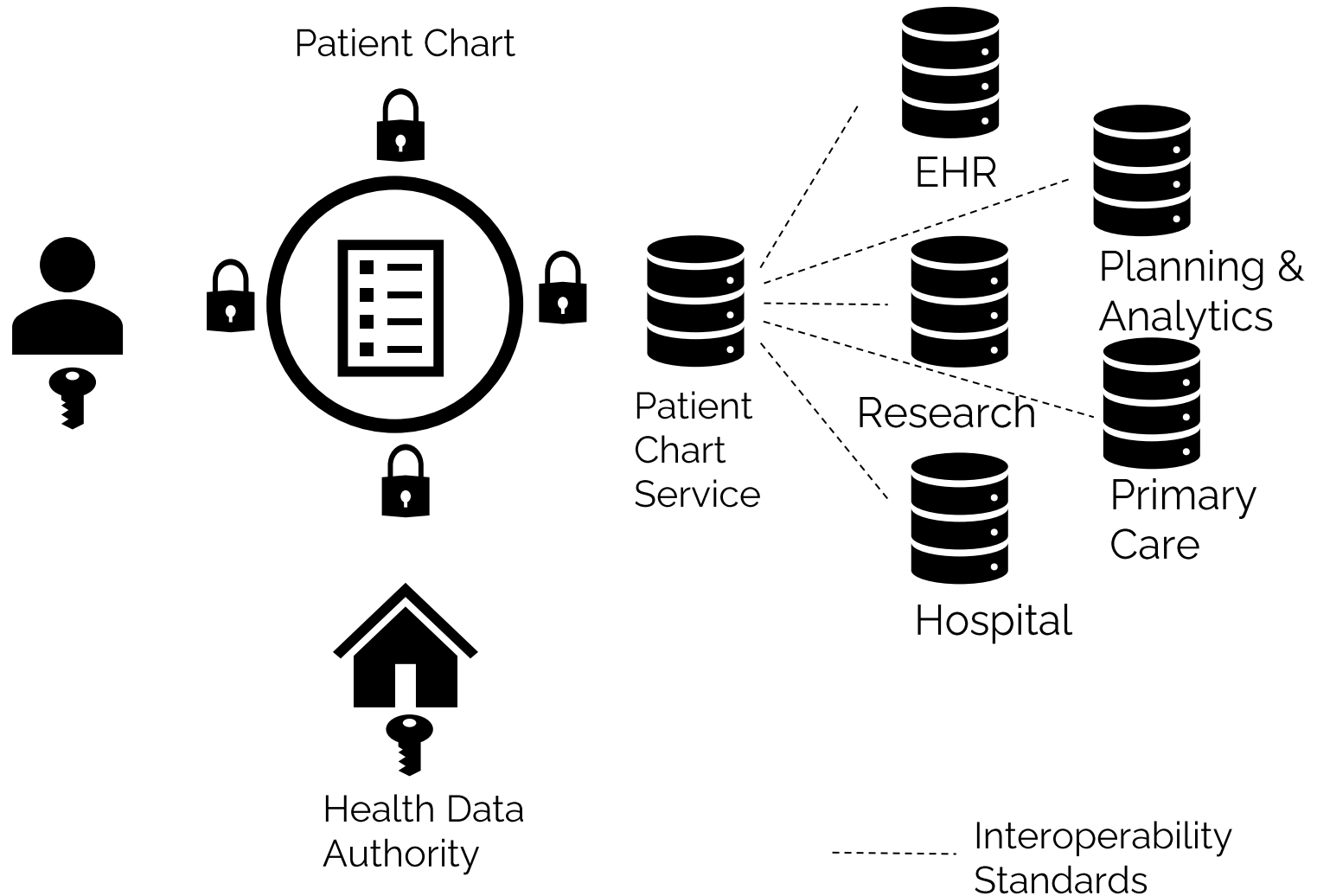


DATA STRATEGY TOMORROW : INTEGRATED PERSON-CENTRED CARE



Based on a person-oriented architecture that puts the individual's interests at the center of every data-sharing decision in the healthcare system. The principle of patient benefit is central to facilitating frictionless data sharing.

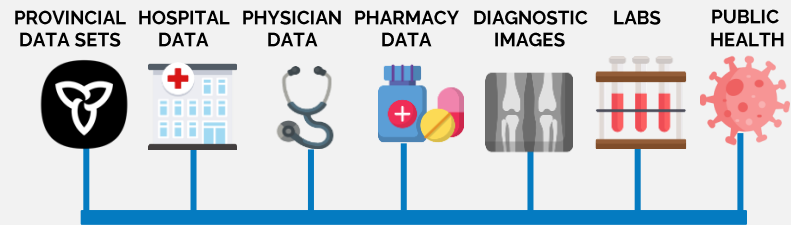
Patient Oriented Architecture: The Data and Digital Platform for healthcare innovation



The Ontario Health Data Platform

OHPD DATA SOURCES

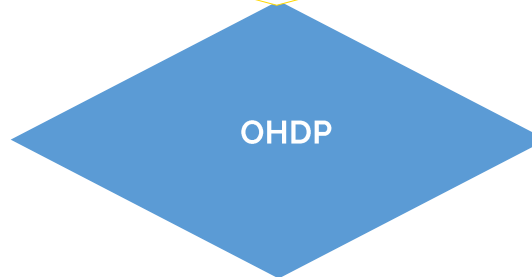
DIRECT IDENTIFIERS ARE REMOVED AND/OR TOKENIZED



TOKENIZED

FEDERATED OHPD COMPUTING ENVIRONMENTS

SECURE, HIGH-PERFORMANCE COMPUTING PLATFORMS



SECURE ENVIRONMENT DATA VISITATION MODEL

ACCESS

OHPD DATA ACCESS

SAFE, PRIVACY-PROTECTIVE RESEARCH AND ANALYTICS

VETTED APPROVED RESEARCHERS AND ANALYTICS USERS PROVIDED ACCESS FOLLOWING TRAINING

PURPOSES:

- RESEARCH WITH RESEARCH ETHICS BOARD APPROVAL
- HEALTH SYSTEM MANAGEMENT, EVALUATION, MONITORING

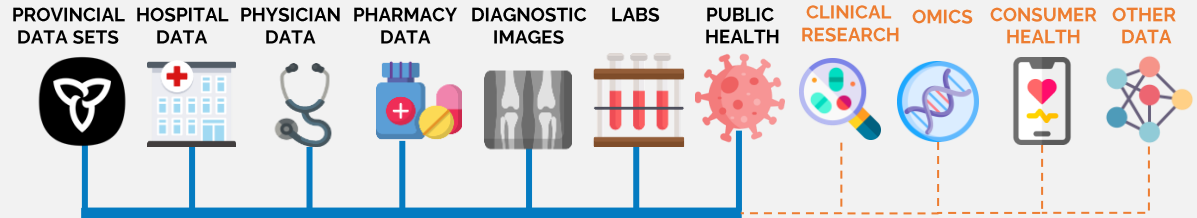


AUTHORIZED RESEARCHER / AUTHORIZED USER

The Ontario Datasphere

ONTARIO DATA AND DIGITAL PLATFORM

COMBINES HEALTH, SOCIAL AND OTHER DATA FROM DIFFERENT SOURCES



MANAGED BY

ONTARIO DATA AUTHORITY
DATA AS A SERVICE
 "Collect Once, Process Once, Use Many Times"

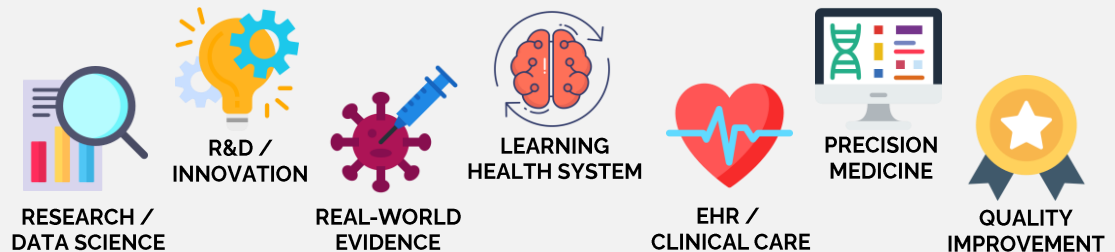
OVERSEES THE APPLICATION OF ALL INFORMATION POLICIES (INCLUDING CONSENT) GOVERNING THE MOVEMENT, PROCESSING AND USE OF DATA IN THE DATASPHERE



USED FOR

SERVICE PATHWAYS

DATA IS USED RESPONSIBLY FOR PURPOSES THAT SERVE THE PUBLIC INTEREST



ICONS FROM FLATICON.COM

The Digital Citizen

The data and digital rights of citizens need to be clearly defined in line with citizens' expectations





Data about you is you

The
Economist

Theresa May v Brussels

Ten years on: banking after the crisis

South Korea's unfinished revolution

Biology, but without the cells

MAY 6TH - 12TH 2017

The world's most valuable resource



Data and the new rules
of competition

- “Data are not bricks to be stacked, oil to be drilled, gold to be mined, opportunities to be harvested. Data are humans to be seen, maybe loved, hopefully taken care of. Data science is human subject research.”

- Raji, I. D. (2020). The discomfort of death counts: Mourning through the distorted lens of reported COVID-19 death data. *Patterns*, 1(4), <https://doi.org/10.1016/j.patter.2020.100066>
- Metcalf, J., & Crawford, K. (2016). Where are human subjects in big data research? The emerging ethics divide. *Big Data & Society*, 3(1), <https://doi.org/10.1177/2053951716650211>

New Dialogue is Needed Around



- **Digital Rights**
- **Ethical Use**
- **Equity**

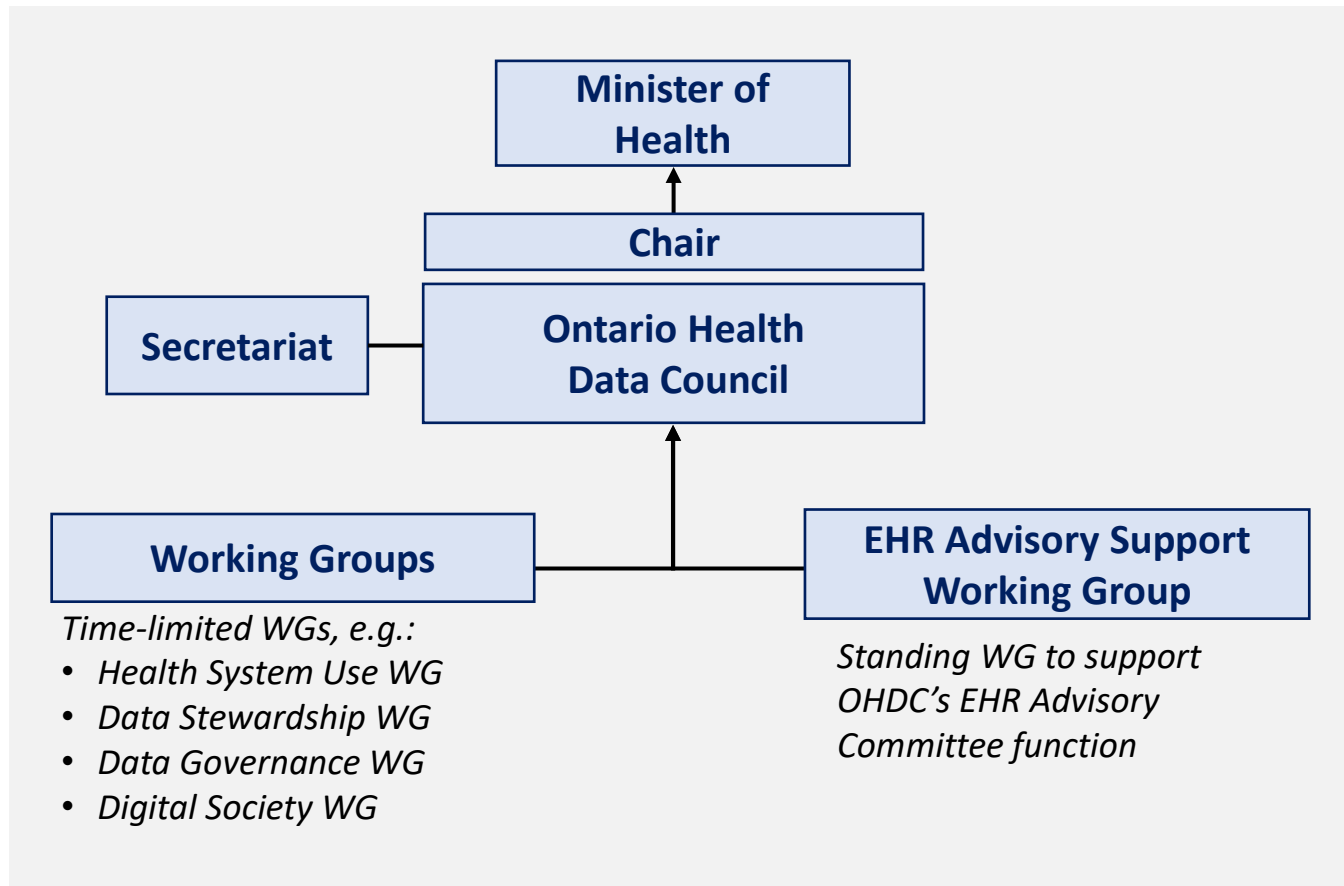
Dialogue on Data

A public policy consultation, including both civic and stakeholder engagement, is needed to confirm and validate the policy requirements for the health data ecosystem

GOVERNANCE : ONTARIO HEALTH DATA COUNCIL (OHDC)

OHDC will sponsor and advise on the Dialogue on Data.

- Working groups, consisting of OHDC members and subject-matter experts, will contribute strategic advice and input on the implementation of Dialogue on Data



Contact

For more information, contact:

Christine Sham

Information Management Strategy and Policy Branch

Digital Health Division

DialogueonData@ontario.ca