Applying the **FAIR** (Findable, Accessible, Interoperable, Reusability) data principles, an open interactive platform (GUSTO Data Vault) was created using open-source technologies for population health studies.

**INTRO:**
- Growing Up in Singapore Towards healthy Outcomes (GUSTO) aims to understand how conditions in pregnancy and early childhood influence the subsequent health and development of women and children.
- The GUSTO Data Vault platform have advanced data exploration capabilities for research data, biospecimens and publications asset management.

**METHODS**
- Data Vault (containerized web application with Docker) was built using PostgreSQL database and Django framework.

**RESULTS**
- GUSTO Data Vault platform showcases data across Demographics, Women’s Health, Children’s Health, Metabolic, Neurodevelopment, Imaging and Omics domains.
- Researchers can browse and discover curated datasets and use the data visualizations to aid with hypothesis construction/discoveries.
- Applicants can submit their data access request to the GUSTO executive committee for approval, after exploring the Data Vault platform.
- Data Vault is refreshed with data updates about every 4 months.
- Data Vault sees around 5,500 unique visitors in a year, mostly from Singapore, with 20% based in countries across Asia, Australia, Europe, and North America.

**COMING UP:**
- Our future work includes the implementation of OMOP Common Data Models (CDM) in Data Vault for expansion of real-world data access.

**Snippets of Data Vault**
- Data catalogue/study explorer
- Interactive data visualizations
- Omics/biospecimen modules
- Data playground module
- Publications

---

**PRESENTERS:** Cindy Ho, Mukkesh Kumar

**Take a picture to visit GUSTO Data Vault**

---

**Take a picture to download the abstract**