

Strengthening Health Analytics in Alberta: Current State and Future Opportunities

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Outline

1. Strengthening Health Analytics – Introduction
2. Health Analytic Landscape
3. Alberta Health Analytic Infrastructure
4. Enabling Data Access
5. Strengthening Analytics Through Partnerships
6. Final Remarks

Strengthening Health Analytics - Introduction

How can we make the most of our data?

Data is an:



Asset



Obligation



Investment

Background

- There is an increasing focus on working cross ministry to create efficiencies in policy and program development
- Opportunities exist to reduce duplication and red tape associated with data access
- Private and public sector stakeholders have commented on difficulties accessing data
- Three main outcomes:
 - Better cross ministry data sharing (creating efficiencies)
 - Enable stronger access for academia (supporting innovation)
 - Commercialization of data (creating opportunities for Albertans)

Strengthening Health Analytics – Objectives

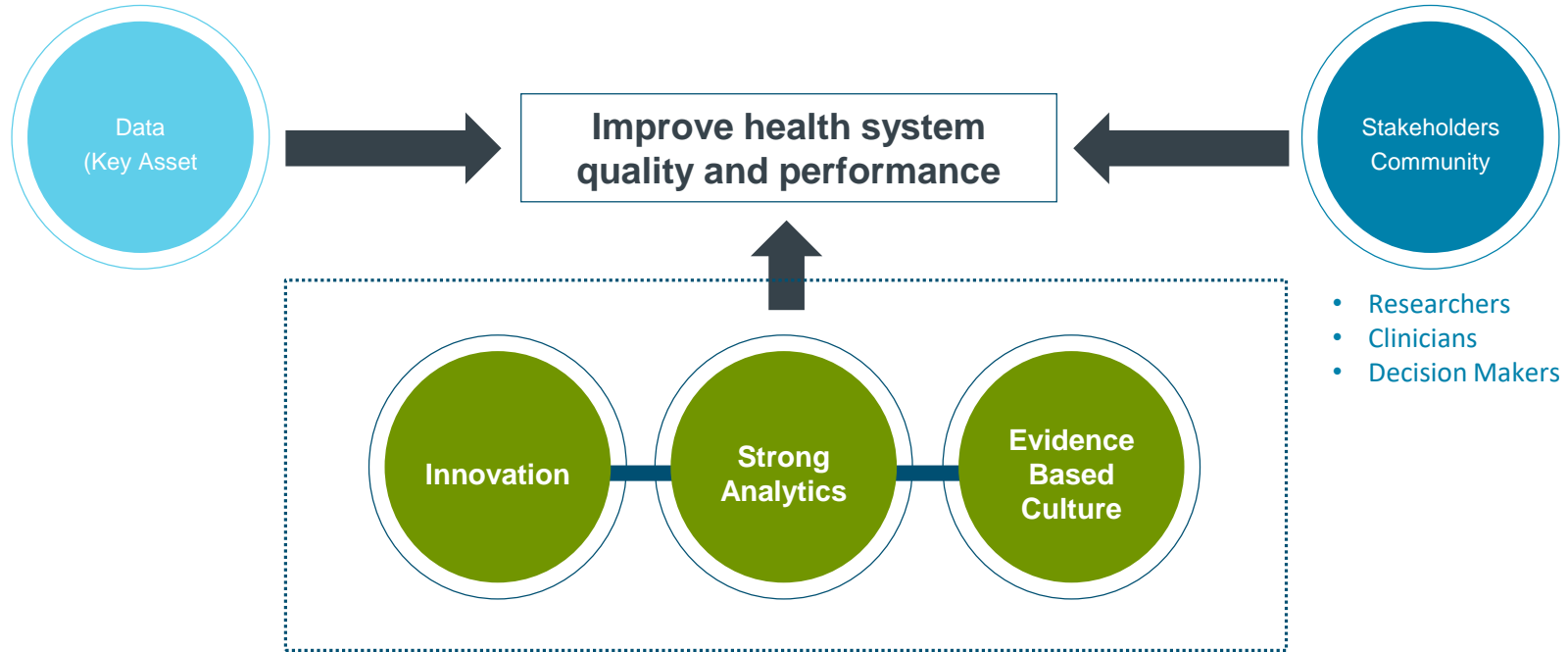
- In June 2020, Alberta Health engaged EY to support their goal of strengthening Health Analytics in the province.
- The project will strive to fully maximize the benefit of Alberta’s health data assets by developing a provincial data and analytics strategy and associated implementation plans. Four deliverables will be developed over the two phases of work:



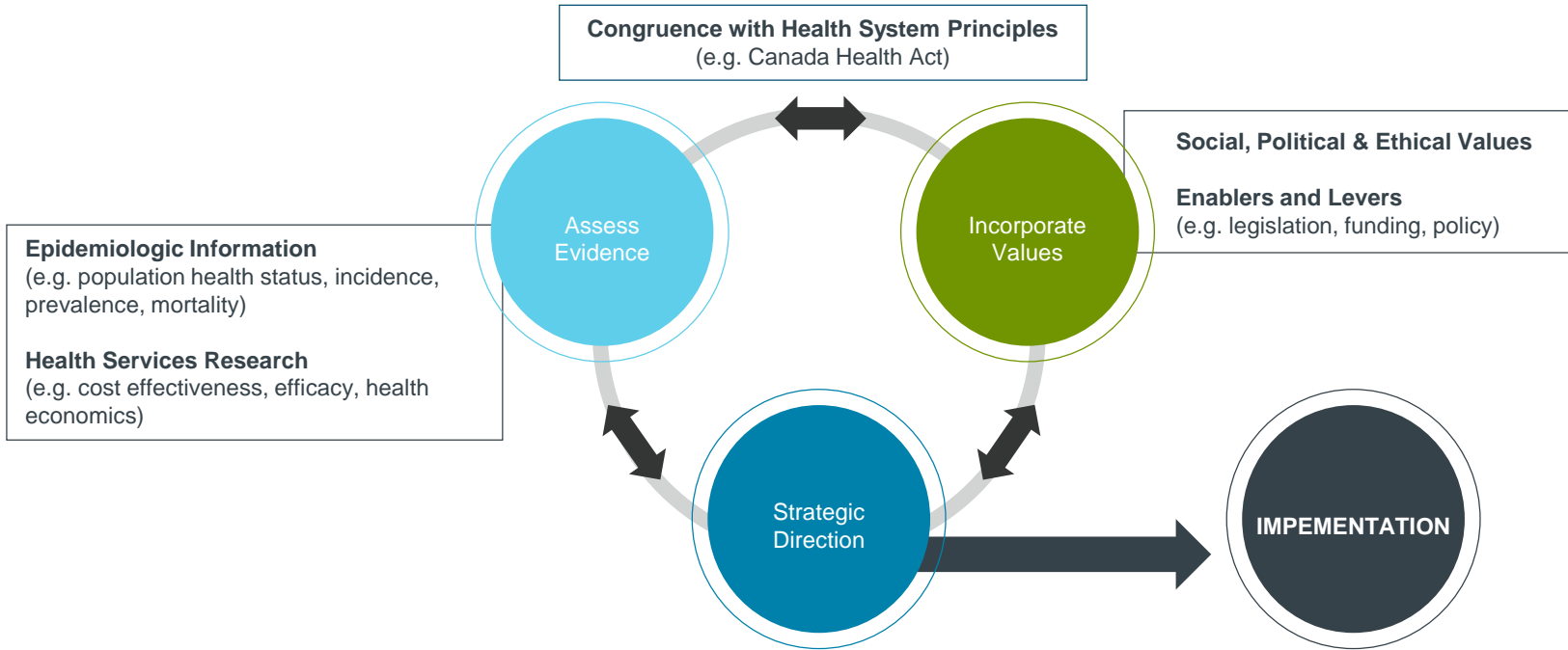
Health Analytic Landscape

Alberta Health Focus

Background

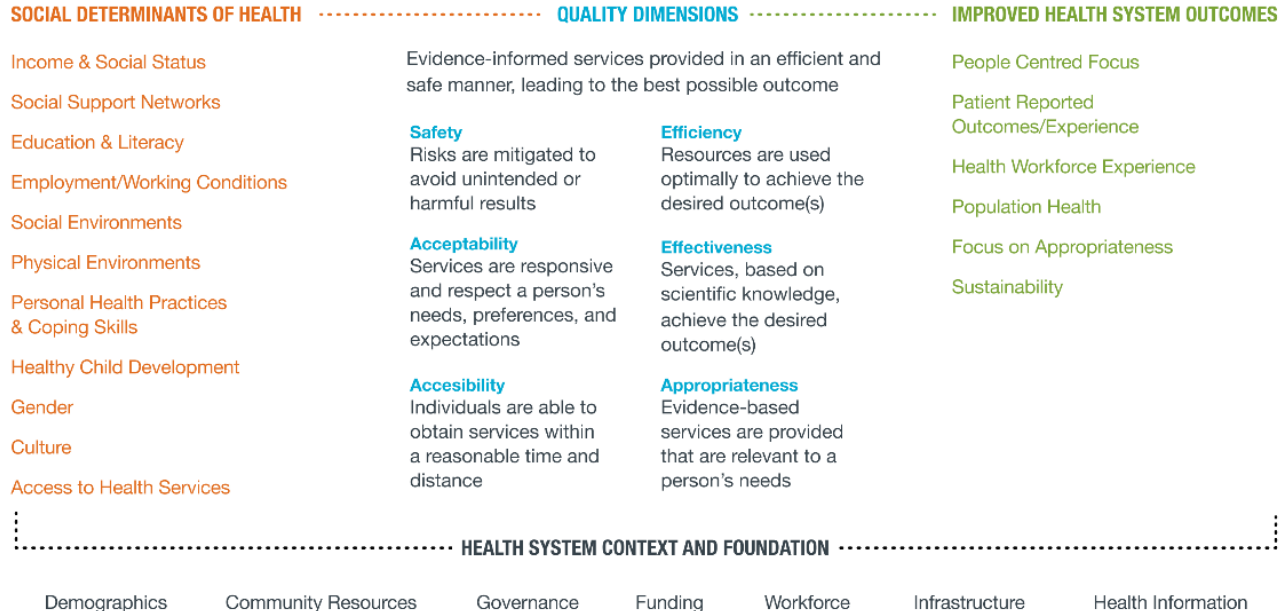


Setting the Context



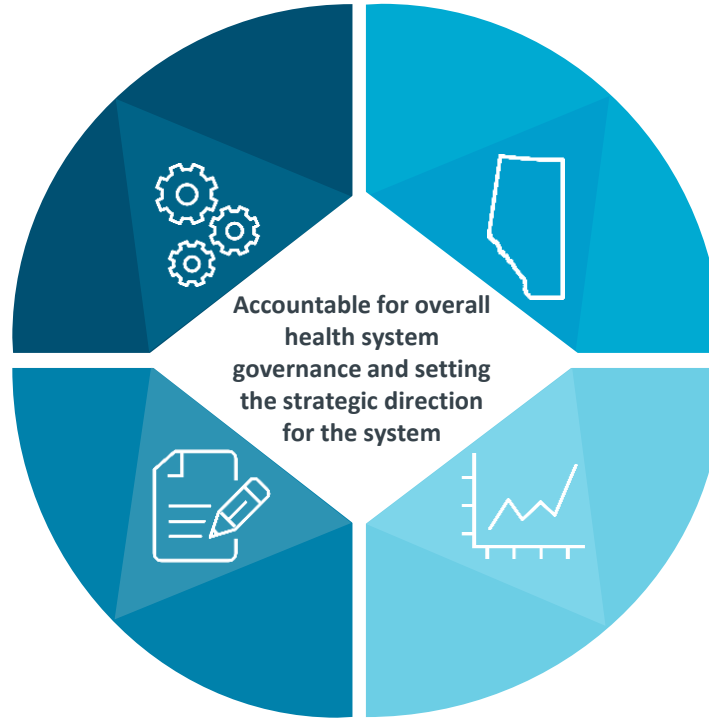
Health System Context – Alberta

Health Equity



Alberta Health

1
Assessment



2
Policy
Development

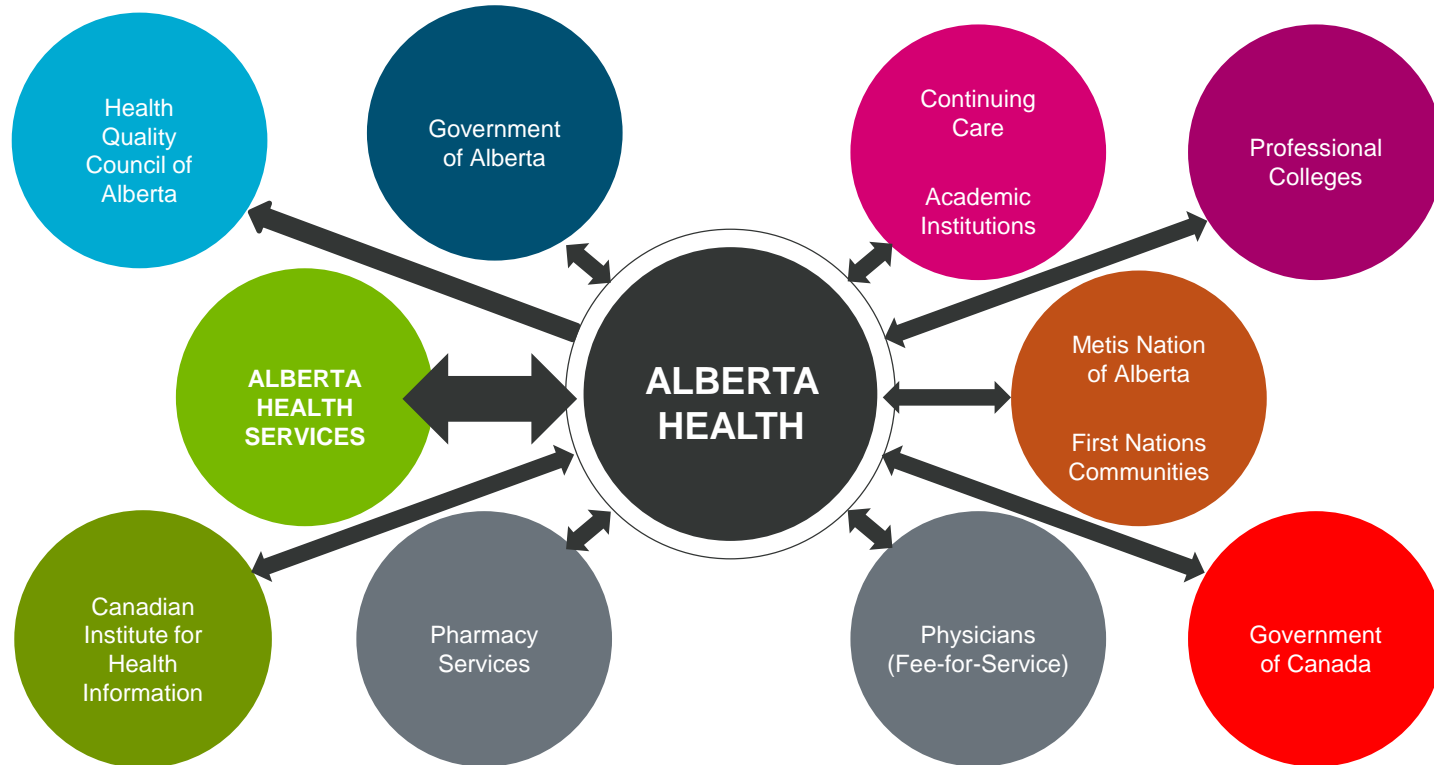
3
Assurance

4
Provincial Analytic
Leadership

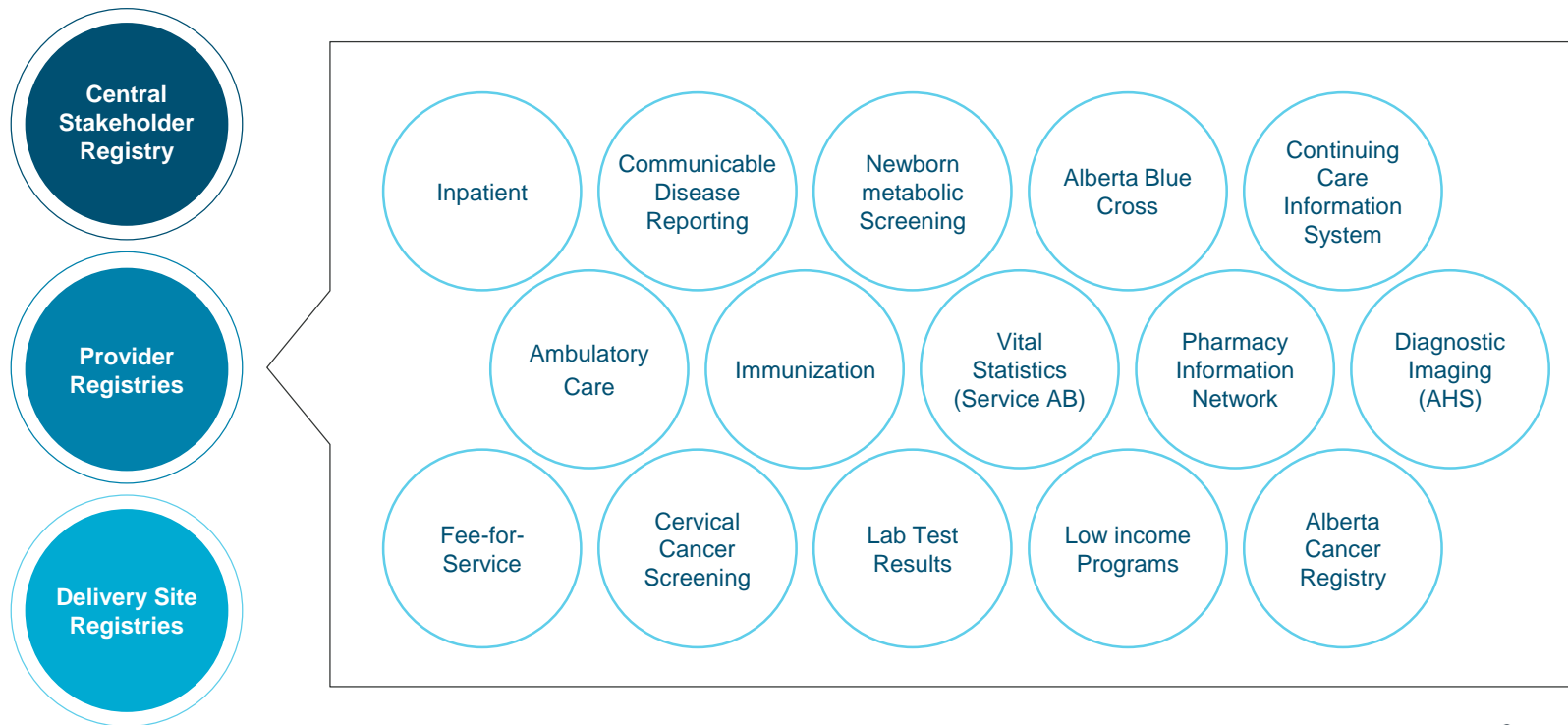
Alberta Health Analytic Infrastructure

What does this look like in real life?

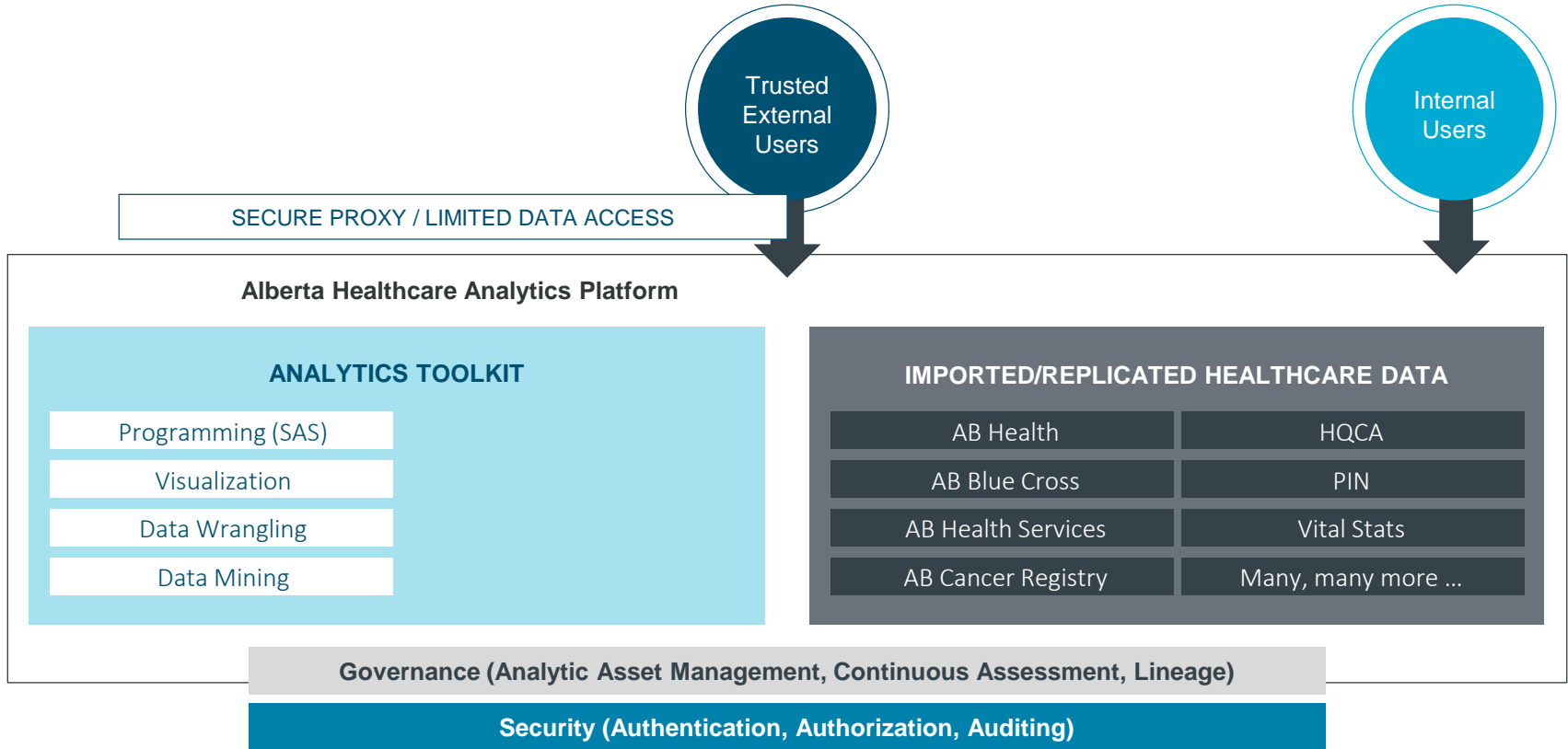
High Level Data Flows – Alberta Health Lens



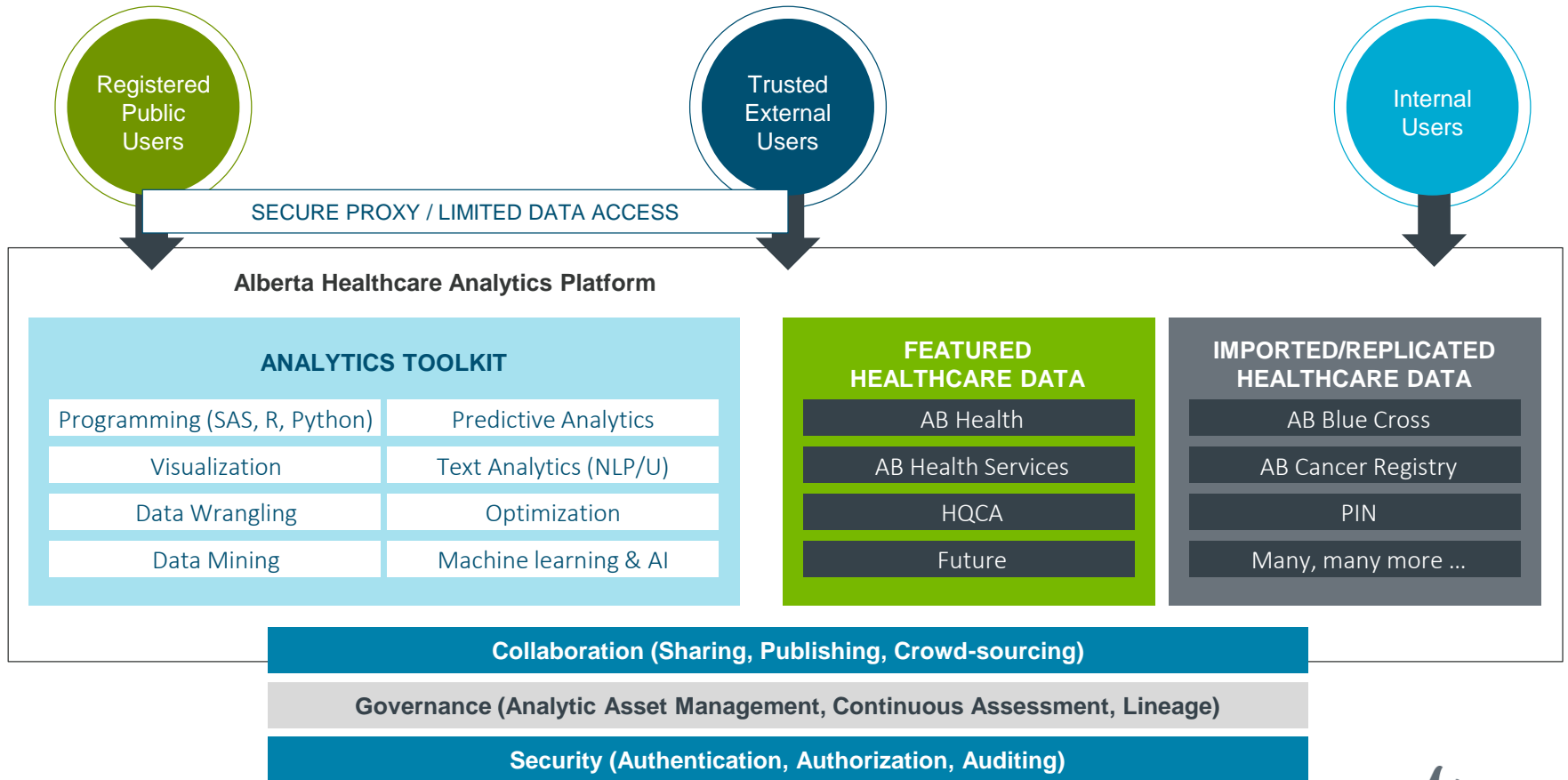
Selected Health Data Sources – Alberta Health



AB Healthcare Analytics Platform - Today



AB Healthcare Analytics Platform – Target State



Enabling Data Access

Empowering Our Stakeholders

Vision and Value



Vision

Mobilization of health and non-health data to create knowledge that drives change, research and innovation for improved health system performance, leading to improved health and quality of life outcomes for Albertans.



Value

- Improved care and health outcomes for patients
- Improved health policy and priority setting
- Foster industry investments and partnerships
- Support research that continuously improves the quality of health services

Strategic Themes



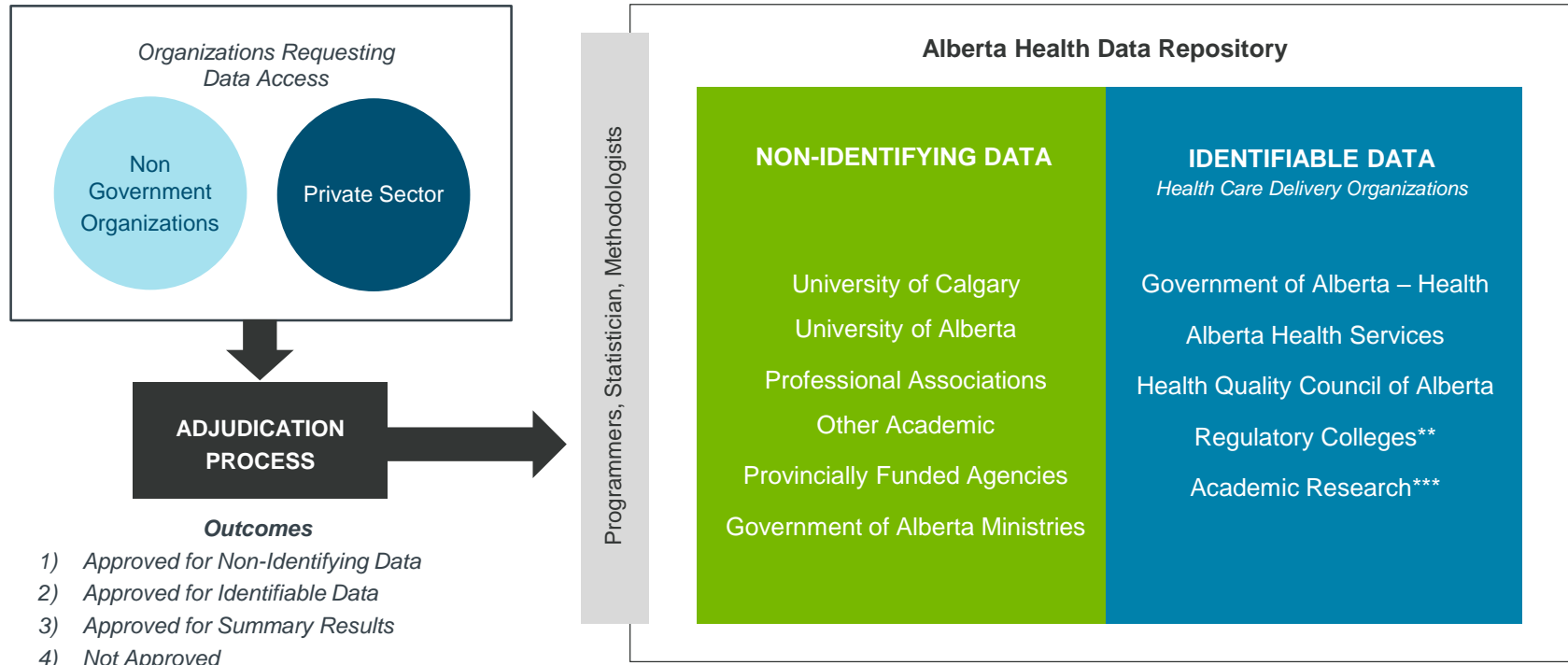
Data Safe Haven Defined

- A Data Safe Haven is a trusted place for holding and analyzing data, with clear governance and controls in place to minimize privacy risks, while maximizing value to stakeholders
- Health will be expanding access to its data warehouse to better support GOA Ministries, professional associations and colleges, academic institutions, non-governmental organizations, and private sector companies

Rationale for a Data Access Safe Haven

- Improved access to data, both health and non-health, provides better evidence to support coordinated cross-government policy and program development
- The Office of the Information and Privacy Commissioner (OIPC) has a preference for the use of data safe havens to improve access, while protecting individual privacy
- The AH data warehouse is a highly secure environment that can be leveraged to meet the goal of improving access and contributing to the overall success of the GOA
- A single, federated approach can meet the access demands efficiently
- Approach reduces resource requirements and ensures legislative and privacy requirements are met

Establishing the Alberta Health Corporate Data Warehouse as a Data Access Safe Haven



** Limited direct access to data to support Legislated regulatory role only.

*** Limited access to studies requiring identifiable, and approved by ethics board.

Strengthening Analytics Through Partnerships

Innovation and Economic Growth Plan

Shifting Organizational Cultures

- Consistent messaging on roles and responsibilities
- Sharing data is the default setting
- A high performing health system, must have high performing components
- Open information sharing a key to driving cultural change and improved collaboration

Fostering Partnerships Focused on:



Creating an stakeholder
partnerships

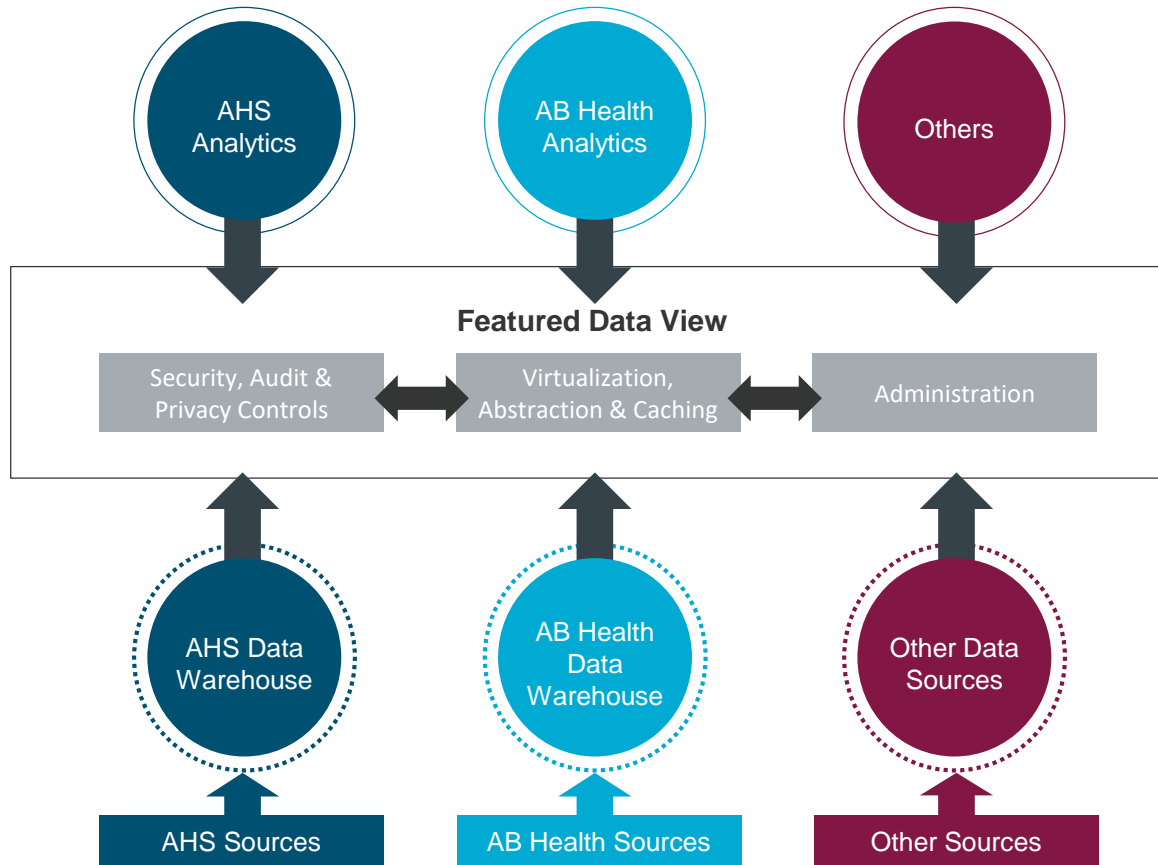


Assisting the developing
a single provincial
analytic infrastructure



Establishing Alberta as a
Health Analytics Innovation
Centre of Excellence

Leveraging Existing Investments



Advantages

- ✓ Timely access to cross-organization data
- ✓ Reduced data duplication / redundancy
- ✓ Analytical views
- ✓ Inbuilt controls to manage security and privacy

Final Remarks

Concluding Thoughts



Focus on values



Analytics is foundational to improved Decision Making



Enabling access and use of data is key

Analytics is about driving better decisions to improve the health system, ultimately improving health status and quality of life.