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Digital Health Transformation Imperative

Why British Columbia is undergoing transformation of health care delivery towards better health outcomes.



\$21 Billion

A year is spent on health care in BC, nearly 50% of direct provincial spend; these rising costs are not sustainable

Misfocused

Health system remains largely focused on hospital and not remaining independent practices



Of the population today is over 65 years old - over the next 20 years, the proportion of seniors will double



often fragmented, untimely, and inefficient

Disconnected

Patient services are too

Siloed

Critical health information locked in systems or on paper. Making it difficult for care givers to provide coordinated end-to-end patient care across care continuum



20%

Of BC residents are living with two or more chronic conditions

Disparate efforts

Lack of coordination across health system to invest in improvements is further fragmenting efforts towards an integrated system of care



Digital Innovation is Transforming Health Care

Disruptive yet vital role in tackling issues of sustainable, scalable and automated services to meet increasing demand.

Three biggest disruptions:



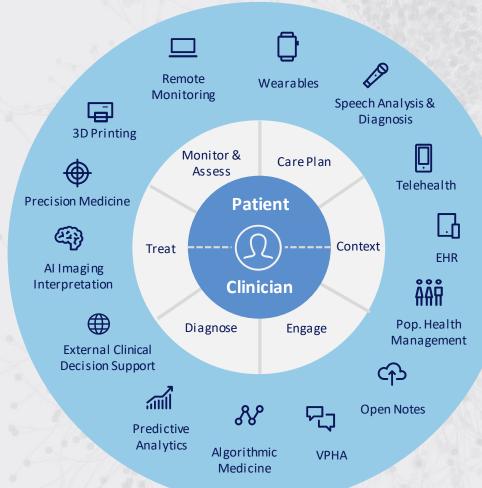
Explosion of consumer-centric health care to empower patients.



Digital access to health care which eliminates geographic barriers.

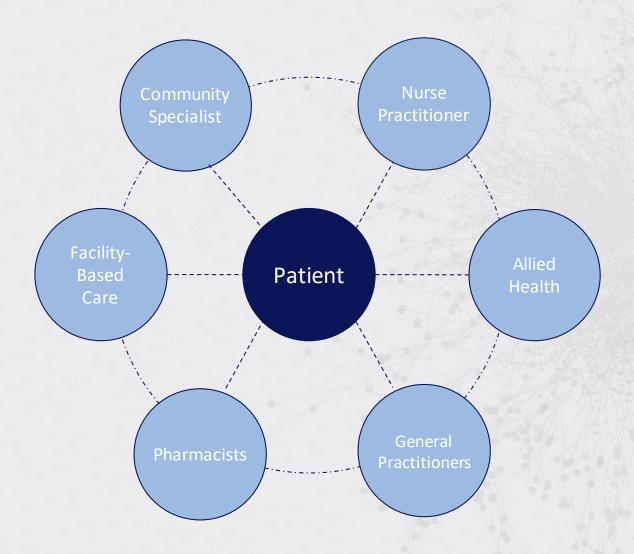


Advancements like precision medicine, artificial intelligence and analytics pivots health care to "wellness, prevention and self-management".



Our sector is shifting towards emphasis on team-based care

As our priorities shift, we will need to break down traditional silos





Goals



Patient Empowerment

Empower patients as partners in their care and wellness



Integrated Care

Create an integrated and comprehensive team-based care experience for patients and clinicians



Improved Care Team Experience

Build a culture of trust, collaboration and joy in work to support the care team in delivering quality health care



Enhanced Decision Support

Provide timely, accessible, accurate information and tools to support clinical and system planning decisions



Vision

Optimal health and wellness for every British Columbian



Mission

Co-create an integrated and sustainable health care system that delivers improved health outcomes and embraces a culture of innovation, trust and partnerships

Five Strategic Pillars to Digitally Enable Health Transformation

Empower Patients



Transform
Primary,
Specialist &
Community Care



Transform Hospital-Based Care



Advance Analytics Capabilities



Enhance Foundational Clinical Systems



Digital Health Foundation

Infrastructure

Policy and Standards

Privacy and Security

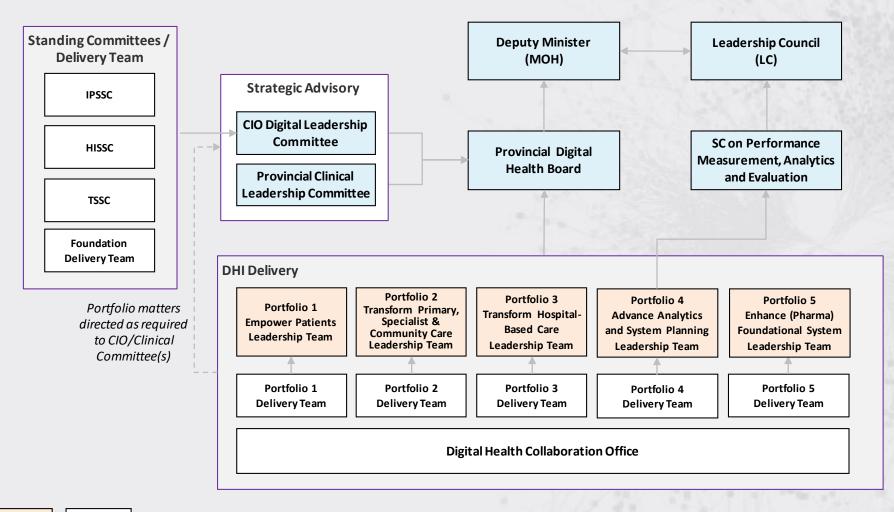
Identity Management

Architecture

Digital Health Transformation Principles

Patient Experience • Provider Experience • Learning & Insight • Accessible & Appropriate Cost-Efficient & Sustainable • Supports Population Health Outcomes • Privacy & Security

DHI governance structure — Year 1



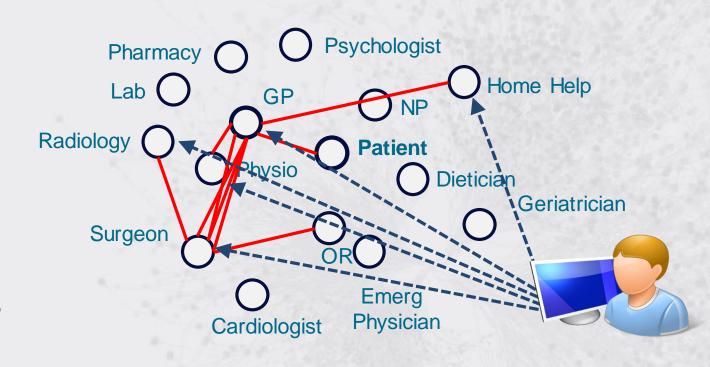
Legend:

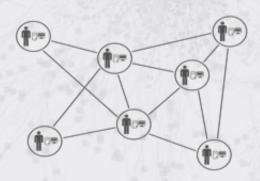
Strategic Governance Delivery Governance Delivery Teams

Primary Focus: Digitization of Team-based Care

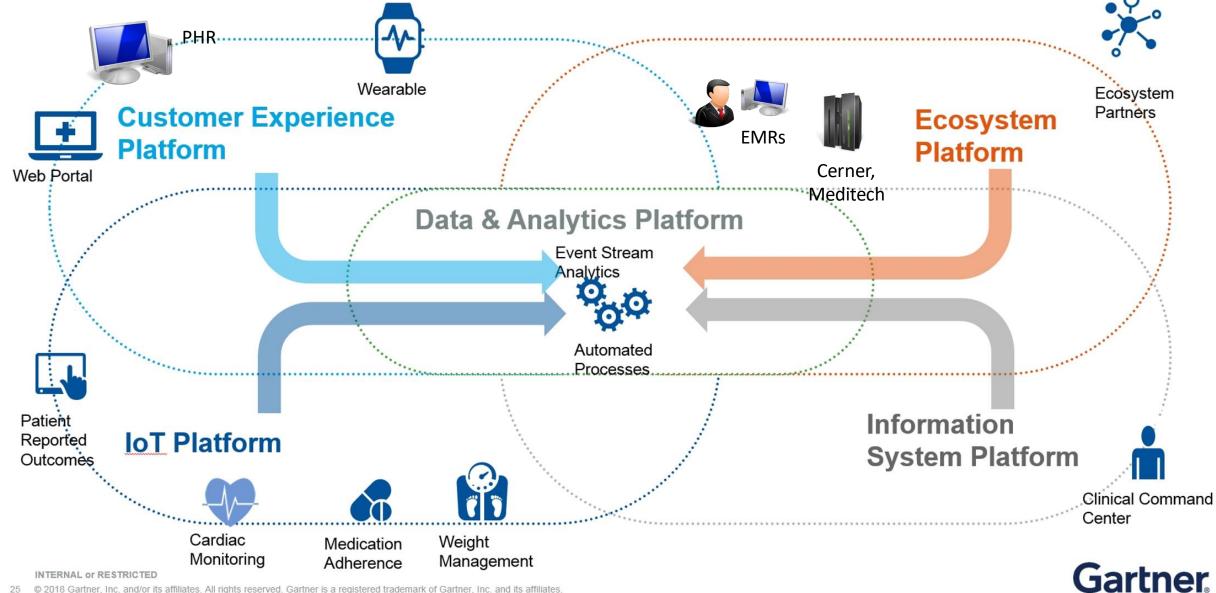
Focus is collaborative development of:

- An ecosystems for patients and providers
- Platform for integrated, enhanced patient experiences & outcomes
- Access to all health info & services
- Open, standards-based architecture
- Integrates with wider health sector assets and private sector solutions
- Grounded BC in reference architecture
- Interoperable with diverse systems and tools





Standards-based Multi-Vendor Platform Ecosystem





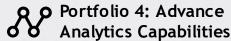
DHI Year 1 high-level priorities

Year 1 focuses on creating an impact on patient empowerment and primary & community care, while also establishing a strong governance, policy, and technical foundation for the delivery of digital health in BC



Portfolio 1: Empower Patients

- Health Gateway Minimum Viable Product (MVP)
- Patient Access Strategy & Roadmap
- Virtual Care Policy Framework
- 1-2 Virtual Health Pilots
- Optimization of home health monitoring
- Mental Health & Substance Use Virtual Pilot



- Data quality improvement
- Health Data Platform
- Reporting Portal
- Health System Performance Mgmt Framework
- Data governance framework for Indigenous People's data
- Advancement from Descriptive to Predictive Analytics



Portfolio 2: Transform Primary, Specialist & Community Care

- PCN IMIT Enablement Planning
- Activation of Priority Capabilities
- Innovation Acceleration Centres (IACs)
- Provincial Digital Solutions Toolkit
- Provincial EMR Vendor Management Strategy



Portfolio 3: Transform Hospital-Based

 Various, in collaboration between Health Authorities and PHSA



Portfolio 5: Enhance Foundational Clinical Systems

- End-to-end Pharmaceutical Business Strategy
- PharmaNet Roadmap and Priorities



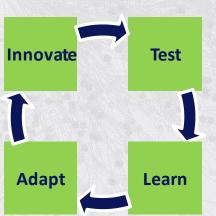


Digital Health Foundation

- Reference Architecture
- Enterprise IDAM Strategy and Roadmap
- Expansion of Priority Capabilities (CDX and CareConnect) and Evaluation of Provincial Scalability
- Provincial privacy & security standards & policy

Areas of Early Exploration

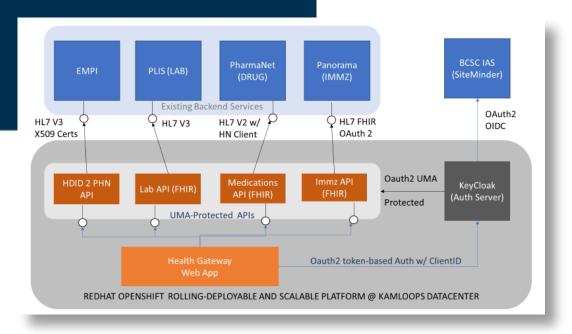






Branding TBD





A single place to view your health records

Visits to clinics, lab test results, prescription medications, and vaccinations.



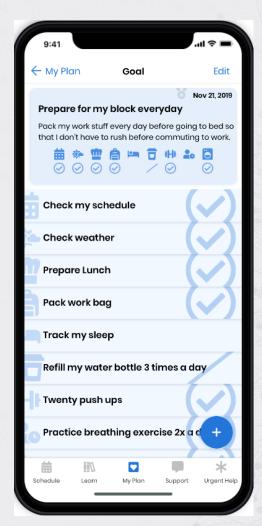
Documented and published on **GitHub**

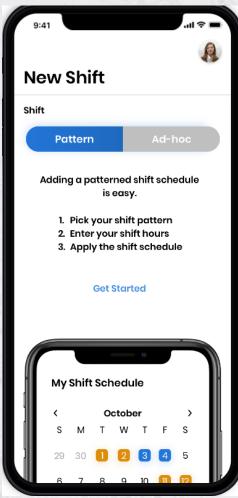


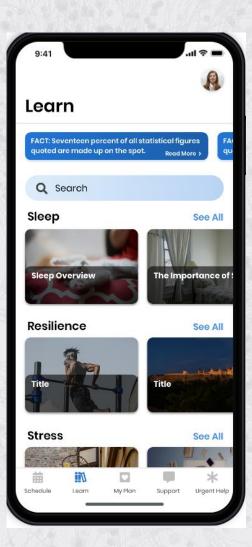
BCEHS Application

Specific content, interactive tool for shifts, and more

- Co-designed by BC EHS employees and the Critical Incident Stress Program
- Developed and reviewed by trauma trained clinicians
- Tools, content contextually linked with schedule
- Reminders and trackers create a highly interactive experience







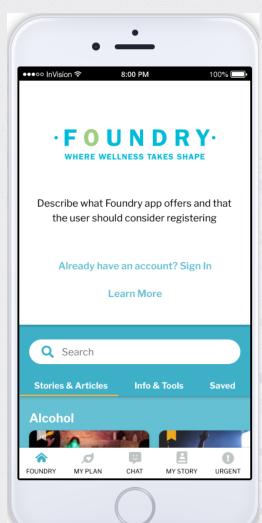


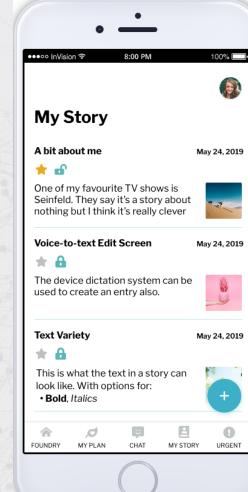
Prototype

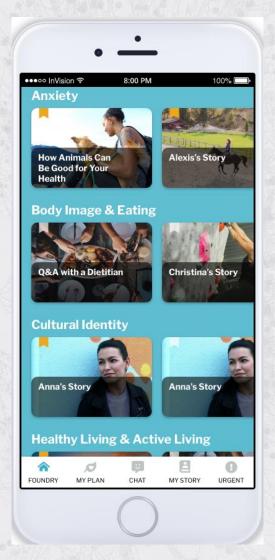
Foundry/BCCH

Targeted content, services and peer support

- Co-designed by the project's Youth Advisory Committee
- Intuitive, easy to use
- BC Childrens's Hospital provides content
- 'Favourite' articles for offline viewing
- Mobile friendly
- In-app Action Plan, Goals, chat (to peers & counsellors)

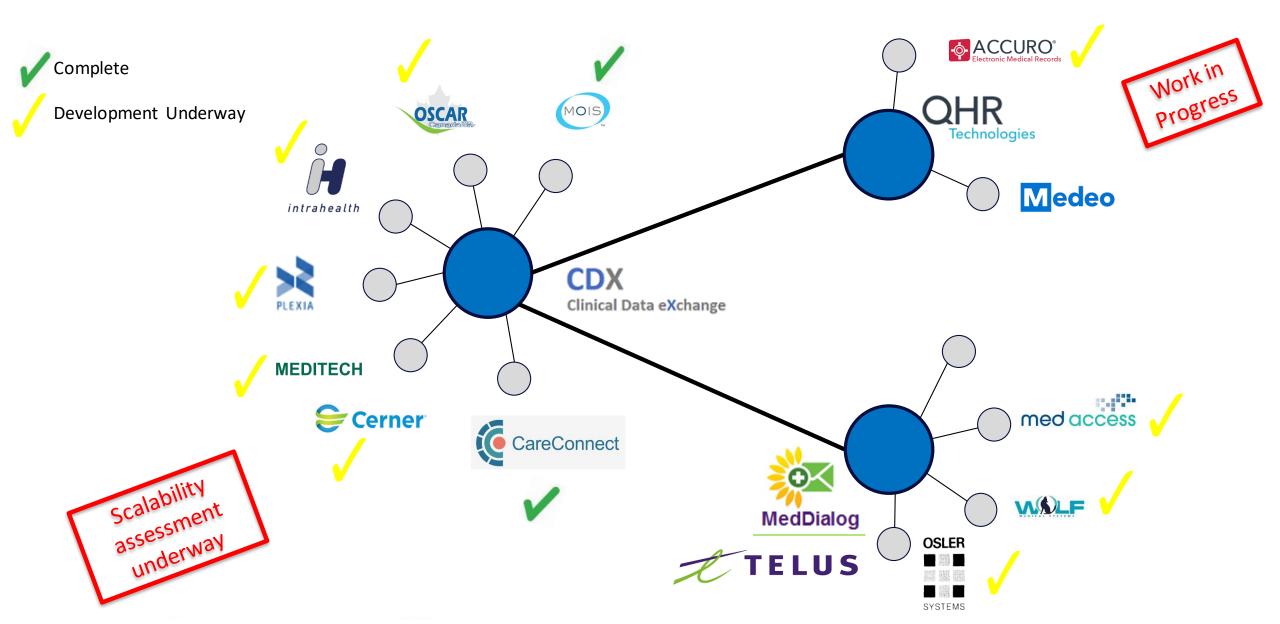








Evolving Information Exchange Capabilities

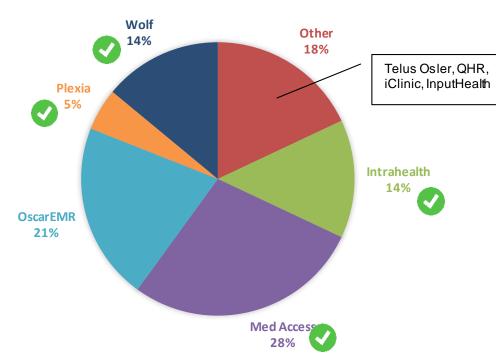


Expansion of CareConnect Access

patient record in EMR to patient record on CareConnect.

~2-5 seconds (including logging on for the first time during a session) for physician to get from

EMR VENDOR REPRESENTATION IN VCH



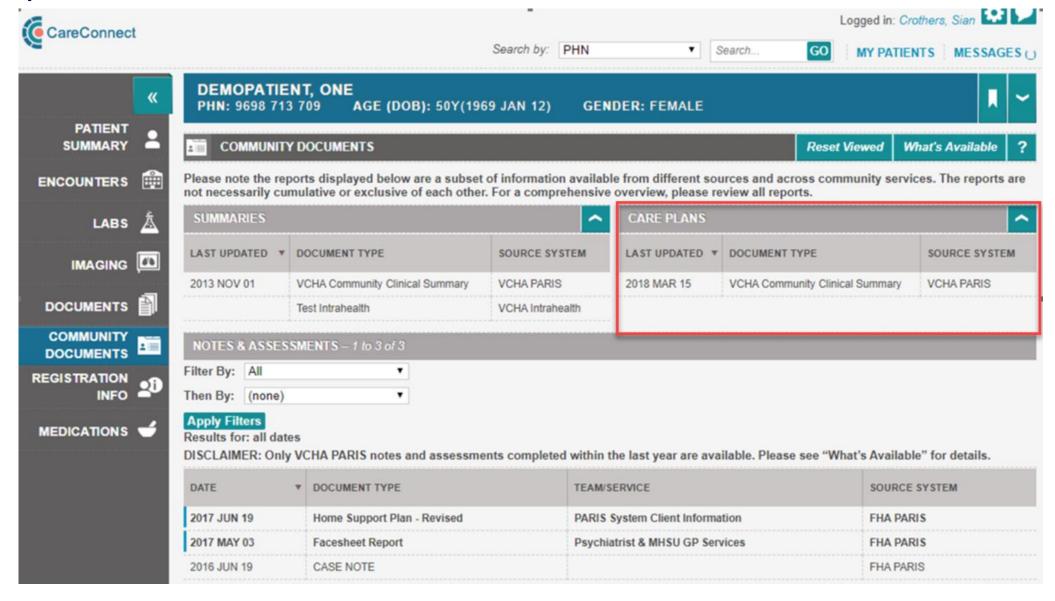
"Rapid Access" Integration Status

- **Integration Complete**
 - Telus Med Access
 - Telus Wolf
 - Intrahealth
 - Oscar
 - Plexia
- **Integration Pending**
 - **OHR Accuro**

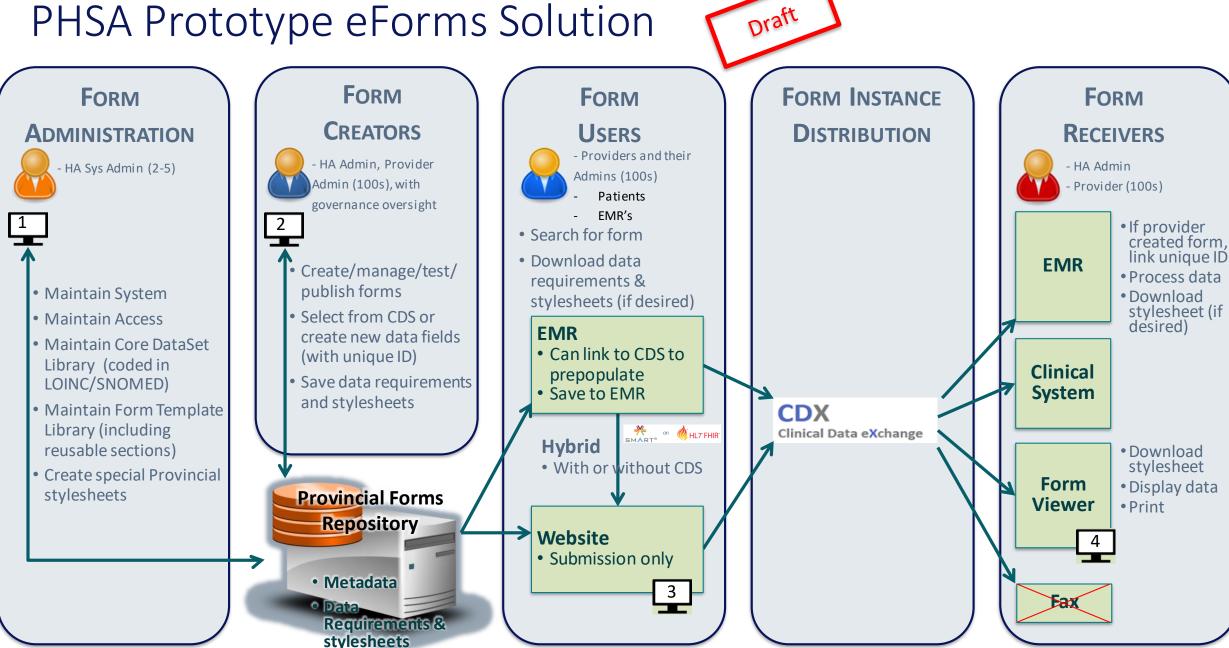
- Integration between EMRs in Private Practice and CareConnect leverages PPN
- The PPN is available to all clinics in BC that use a cloud-based EMR



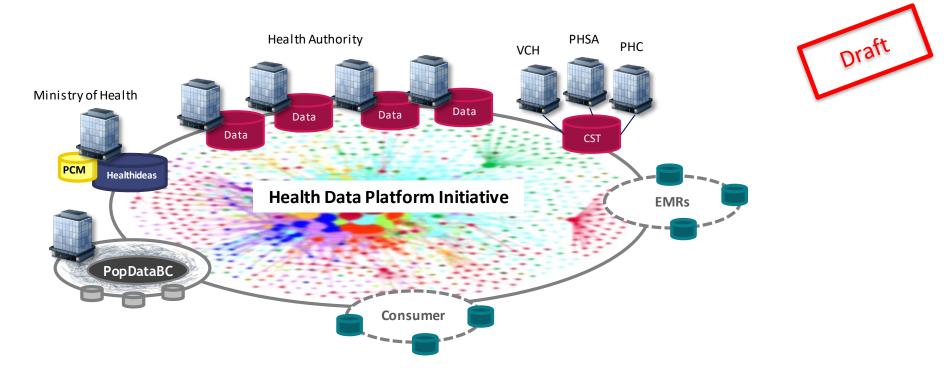
Expansion of CareConnect Content



PHSA Prototype eForms Solution

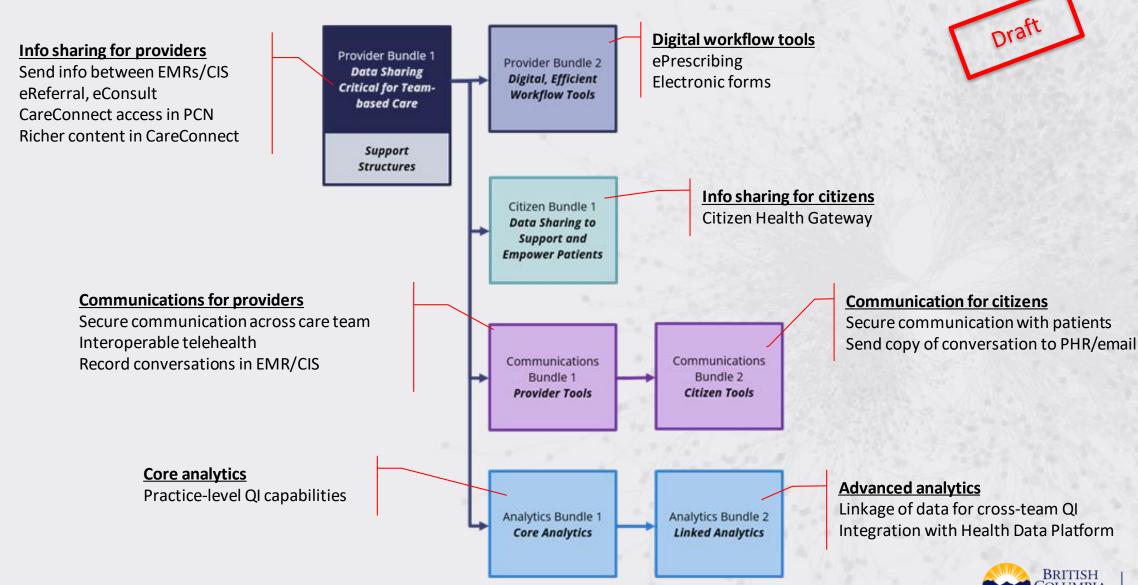


Health Data Platform



- BC provincial analytics platform, public asset, led by MOH
- Distributed governance with local data stewards, local control
- Federated system, on-demand discovery & aggregation
- No central data lake/warehouse
- Trusted external third party doing linking, de-identification
- Streamlined data access processes

PCN Digital Capability Bundles – Short Term Direction



Questions?



