



*eHealth Ontario*

# **More data means better care : Integrating provincial data into EMRs**

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**Ontario** 

# **Faculty/Presenter Disclosure**

- **Presenter:** Jim Scott
- **Relationships with commercial interests:**
  - **None**

# **Disclosure of Commercial Support**

- **No Commercial Support**
- **Potential for conflict(s) of interest:**
  - None

# **Mitigating Potential Bias**

- **Not Applicable**

# Where we are today – getting the data

eHealth Ontario has been working with key stakeholders in Ontario to collect provincial digital health data and build centralized repositories to better facilitate the collection, management and use of this key information.

## Centralized repositories house a material portion of Provincial Data

	Data Type	Number of Records	Magnitude/Impact
	<b>Lab Results</b>	<b>4.5</b> billion	<b>94%</b> of community labs in Ontario
	<b>Dispensed Medications</b>	<b>1.6</b> billion	<b>75%</b> of dispensed drugs
	<b>Diagnostic Images &amp; Reports</b> (eg. x-rays, MRIs)	<b>108.3</b> million	<b>77%</b> of digital images
	<b>Clinical Data</b> (e.g. hospital discharge summaries, community care notes)	<b>600</b> million	<b>79%</b> of patients cared for in hospitals or community setting
	<b>Immunizations</b>	<b>1.6</b> billion	Centralized database of <b>immunization records</b>
	<b>Provincial Client Registry</b>	<b>98%</b> of Ontario residents	Authoritative source of <b>patient demographics</b>
	<b>Provincial Provider Registry</b>	<b>92%</b> of registered clinicians	Authoritative source for <b>provider information</b>

# Where we are today – expanding access

eHealth Ontario primary focus has been on expanding access to provincial digital health assets in the acute care sector to support an average of **30 million requests for patient data every month**.

In partnership with OntarioMD, eHealth Ontario's premier delivery partner, we have made great progress in enabling **broader access to Digital Health Data and Services in the primary care sector**, including access to provincial laboratory information, ONE ID, and clinical viewers retrieving provincial patient data.

eHealth Ontario and OntarioMD have partnered on building many EMR integration projects, including HRM, eConsult and OLIS integration – with approximately **3.7K unique sites (representing 14.4K users) connected to OLIS via EMR**. We continue to partner together to drive more value to primary care sector, as the emphasis has now expanded to include sharing of data with primary and community care sector.

Primary care doctors are at the centre of the patients' circle of care and we look forward to further expanding access to provincial patient information to this sector.

## Point-of-care systems support clinicians accessing local and provincial data through Clinical Viewers

- Hospital Information Systems (HIS) for Hospitals
- Systems for Long-Term Care Homes
- Electronic Medical Systems (EMR) for Primary Care Clinicians

# Our users have weighed in ...

Clinicians recognize the value of expanded digital health information that supports enhanced decision making and improved communication and coordination of care with other care providers including:

- Simplified on-boarding process
- One method for identification and authorization
- Data integrated into their clinical practice workflow
- Only relevant data displayed
- Fast easy, search function
- Comprehensive data set
- Tools to trend and analyze data
- System to respond quickly and available 7x24x365
- Unified support experience that will provide quick response to technology issues, so focus is on caring for patients.



# Where is Digital Health Heading?

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## Get the data in the hands of clinicians faster

- Provide viewing options that can be deployed quickly with no training required; options are based on needs of clinicians (role-based) and the investments made (such as EMRs, HIS)



## Let “doctors be doctors”

- Streamline data sharing agreements, simplify privacy/security assessments, and shorten onboarding processes.



## Provide a more seamless workflow

- Enable integrated functions such as Single Sign-On (SSO) and Contextual Launch within the clinician’s point of care system so they can remain within their local system to access provincial data.
- Provide direct access to provincial data into their point-of-care systems.

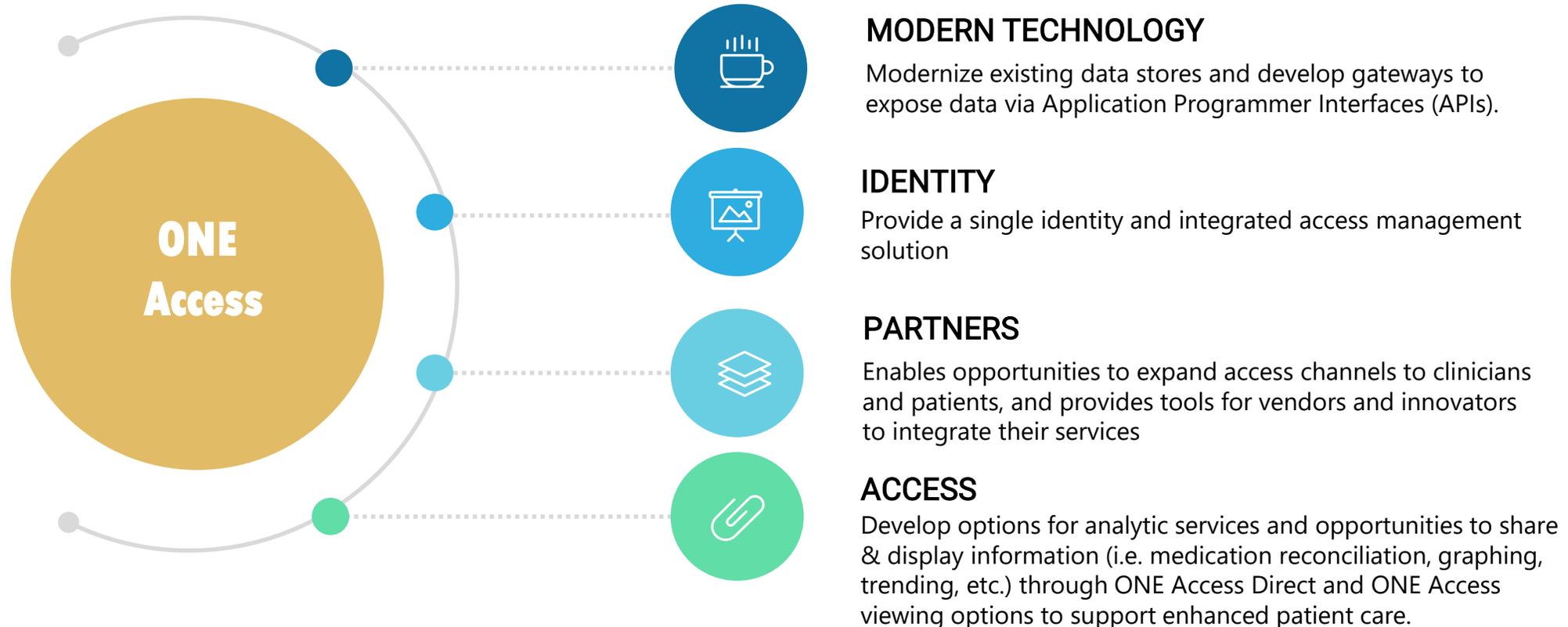


## Enhance technology investments

- Modernize the clinical data repositories for efficiencies and expanded opportunities.
- Provide delivery partners with simplified tools in an integrated and coordinated support model.

# ONE Access: the Approach, the Goal

**ONE Access supports integration with provincial assets and services.** It modernizes offerings and leverages existing investments to increase adoption by offering easy access to the digital health information that **health providers and patients want, when they want it and how they want it.**



# ONE Access – Enhancing the Experience



## Enhancing Use & Sharing of Data

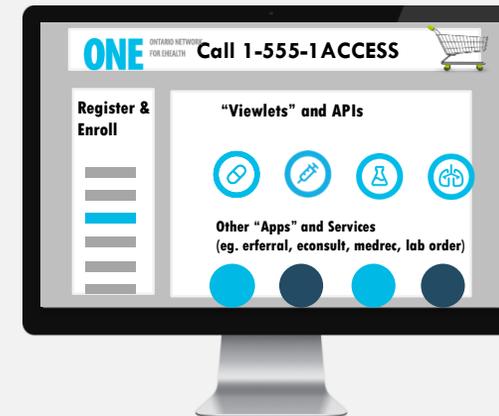
Access to data regardless of the location or tool used, supporting a more **streamlined workflow**. Integration is **simple** with standards and supports enhanced clinical data sharing.

## New Access Options

- **Direct Integration** provides data directly at the point of service systems (EMRs, HISs) and other access channels for viewing clinical data from the Electronic Health Record.
- Point of Service applications (HIS, EMR) will be able to embed the Launch Pad for users to launch provincial Health Services via **Toolbar** launch view from their point of service system.



- **“Viewlets”** for provincial health services will be developed in the future and available through the Launch Pad and Toolbar



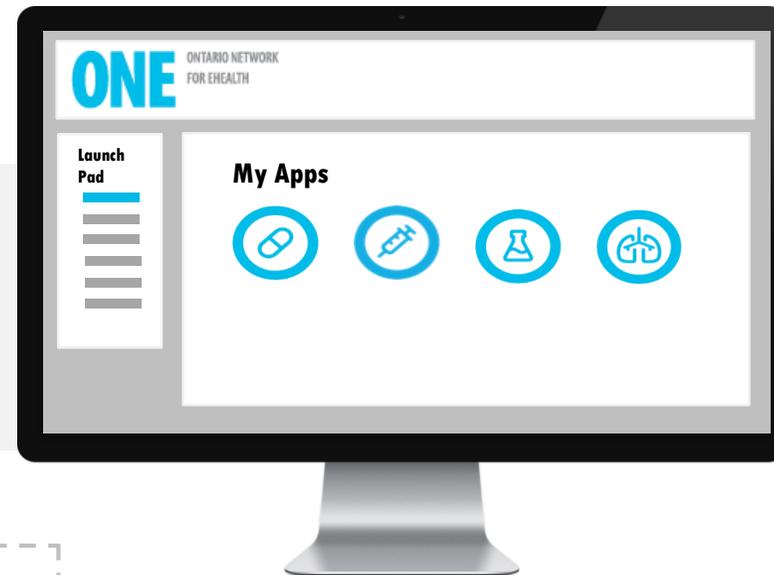
**Making it easier for patients, health care providers, technology and service providers to get what they need**

# ONE Access Landing Page, Launch Pad & Toolbar

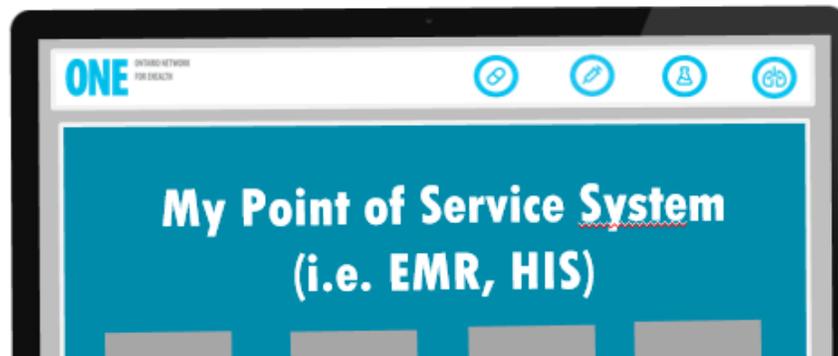


- The ONE Access **Landing Page** will allow health care providers to easily subscribe to digital health applications and services that are protected by ONE ID.
- ONE Access will provide a seamless platform to share provincial and partner data and applications.

The ONE Access **Launch Pad** will act as the “home page” for digital health applications and services, enabling users to easily access their favorite applications, in the order they prefer.



The ONE Access **Toolbar** can be integrated into point-of-care systems (HIS, EMR) to provide a single launch point for applications



# Contextual Launch to Clinical Viewers

Context Management will allow clinicians and their staff to launch applications from within their EMR, passing key information such as user credentials, authorizations and patient information, allowing for seamless connectivity



An icon will be available within the EMR to view provincial information for a patient without the need to log in or search the patient again.

# Direct Integration of Medication & Immunization data

An integrated workflow for clinicians by accessing provincial data and services directly in their EMR with no interruption to their workflow.



In partnership with OntarioMD, eHealth Ontario, there is exciting work underway to expand the data collected within the provincial **Digital Health Drug Repository (DHDR)** and the **Digital Health Immunization Repository (DHIR)** for availability in EMRs.

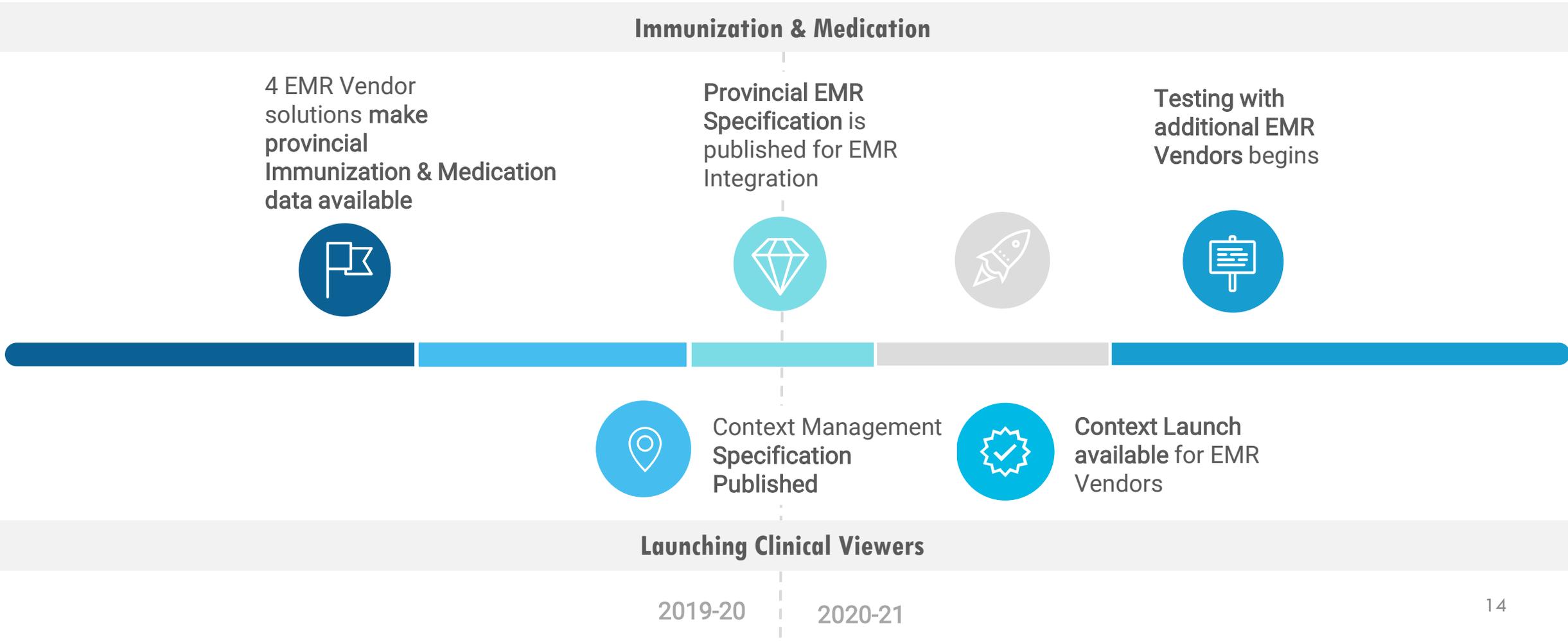
In the first phase, four EMR vendors will deploy a limited production release to support improved health outcomes by making comprehensive immunization and medication information accessible to support healthcare providers within their clinical workflow.

## Benefits for Healthcare Providers

- ✓ Access to clinically relevant drug/pharmacy service and vaccination data through existing EMRs, provincial digital health assets, and other systems to quickly, securely, and efficiently access data enabling the Best Possible Medication History and optimal patient immunization.
- ✓ Access to clinical decision support that is built into the DHDR/DHIR.
- ✓ Enhanced patient safety and continuity of care.

# Implementation High-Level Timelines

In partnership with OntarioMD, provincial immunization and medication data will be made available directly at the point of care via EMR solutions. Context launch will enable seamless connectivity to provincial patient data presented in clinical viewers.



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