



# MANITOBA FIRST NATIONS HEALTH SYSTEMS & USER INTEGRATION – “BUILDING RELATIONSHIPS TO IMPROVE THE COORDINATION OF CARE”



Presentation to:  
**COACH eHealth Conference 2014**



By:  
**Assembly of Manitoba Chiefs eHealth  
Opaskwayak Health Authority  
Manitoba eHealth  
Northern Health Region  
First Nations & Inuit Health Branch - MB Region, eHealth Solutions Unit**



**Vancouver Convention Centre,  
Vancouver, BC  
Monday, June 2<sup>nd</sup>, 2014**

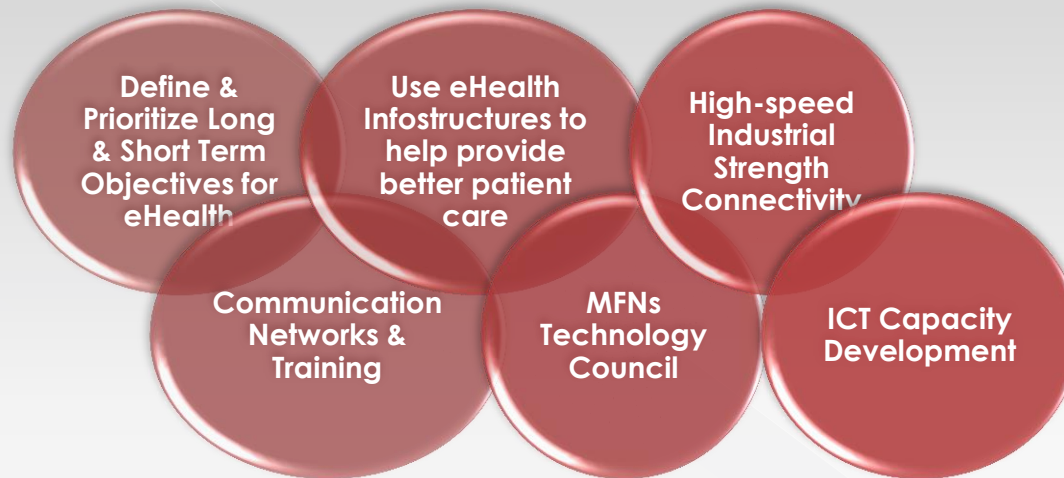
# COLLABORATION IN MANITOBA FIRST NATIONS eHEALTH DEVELOPMENT & DEPLOYMENT

Closing The Health Care Digital  
Divide Between Manitoba First  
Nations & Provincial Health Care  
Settings

*Insert Part 1 of video*

# MFNs eHealth Long Term Strategy

Passed by the Executive Council of Chiefs:  
March 22, 2012, at Brokenhead Ojibway Nation



# **PARTNERSHIPS**

## **The Key To Success**



# Manitoba – Regional eHealth Collaboration

- Telehealth, eChart & Interim eHealth Advisory Partnerships have First Nation, TC & community members
- In addition, there are various First Nation Community & Tribal Council led eHealth initiatives which include FNIHB, RHA or Manitoba eHealth involvement.
- AMC eHealth & FNIHB eHealth Program Authority sit as members on these provincial bodies.

\*\* AMC eHealth representatives sit on the planning committee for this event.

\*\*\* First Nation public health nurse on this committee + FNIHB and Manitoba eHealth representatives sit on the project advisory committee.

	First Nations	FNIHB	Provincial
<b>Operational Units</b>	AMC eHealth	eHealth Solutions Unit	Manitoba eHealth
<b>Telehealth</b>	Regional Telehealth Advisory Partnership (Co-Chair)	Regional Telehealth Advisory Partnership (Co-Chair)	Coordination of Care Advisory Committee: <ul style="list-style-type: none"> <li>• MBTelehealth Program</li> <li>• eChart Manitoba</li> <li>• Client Registry</li> <li>• eHealth_hub service</li> <li>• eReferral</li> </ul>
<b>eChart Manitoba (EHR)</b>	Regional eChart Advisory Partnership (Co-Chair)	Regional eChart Advisory Partnership (Co-Chair)	
<b>Panorama</b>	eHealth-Panorama Coordinator(s) FNs Panorama Project Coordinator	Regional Panorama Working Group Panorama Deployment Information Sharing Group (national)	Panorama Steering Committee** Panorama Public Health Advisory Committee ***
<b>cEMR and EMR (Electronic Medical Records)</b>	cEMR II Infoway Project + cEMR III + and Mustimuhw Coordination Northern MFNs eMR-cEMR Technical Assessment Project	Federal Nursing Station EMR Pilot Advisory Committee	EMR Adoption Project EMRs in the North Committee RHA operated EMRs (Northern Health Region & OCN)
<b>eHealth Engagement</b>	Interim eHealth Advisory Partnership (Co-Chair) Community Meetings eHealth Gatherings Manitoba First Nations Health Technicians	Interim eHealth Advisory Partnership (Co-Chair) FNIHB Regional Management Team and Programs	Director assigned as First Nations Liaison Solution Information Management Services for First Nations/FNIHB eHealth Conference**

# Telehealth in MFNs

**Regional Telehealth  
Partnership Committee**

**MBTelehealth**

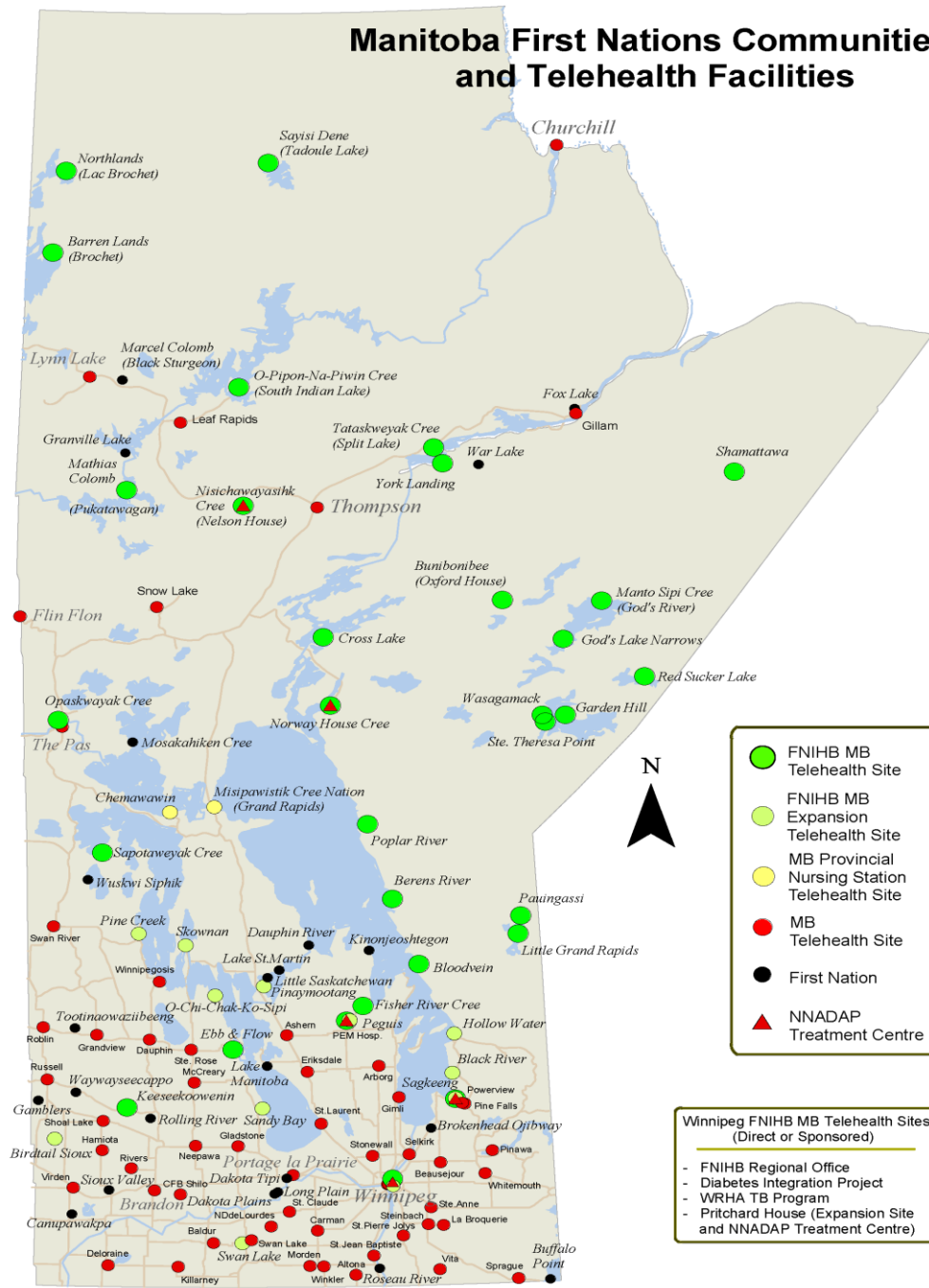
**Community Telehealth  
Coordinators in 4 MFNs**

**Collective Goal: improve quality  
& utilization of existing sites  
Continue expansion to MFNs**

**Key Challenges:  
Connectivity  
Sustainability of Operating Costs  
\$45K/yr/site**



# Manitoba First Nations Communities and Telehealth Facilities



Sources:  
FNIHB MB Region and MB Telehealth October 16 2013

- 2001 – MB Telehealth is established in 28 sites with 2 First Nation sites (Norway House & Berens River)
- 2014 – 143 Manitoba sites & 40 sites in 36 First Nation communities
  - > Federal hospitals
  - Provincial & Federal Nursing Stations
  - Band Health Centres
  - NNADAP Treatment Centres
  - Regional Offices
- = 25% FN sites
- Majority of sites are served by a First Nation broadband communications provider (Broadband Communications North - BCN)
- Currently serving over 55,000 First Nation on- reserve residents



**EMRs**

**CEMRs**

**EHR**

**Panorama**

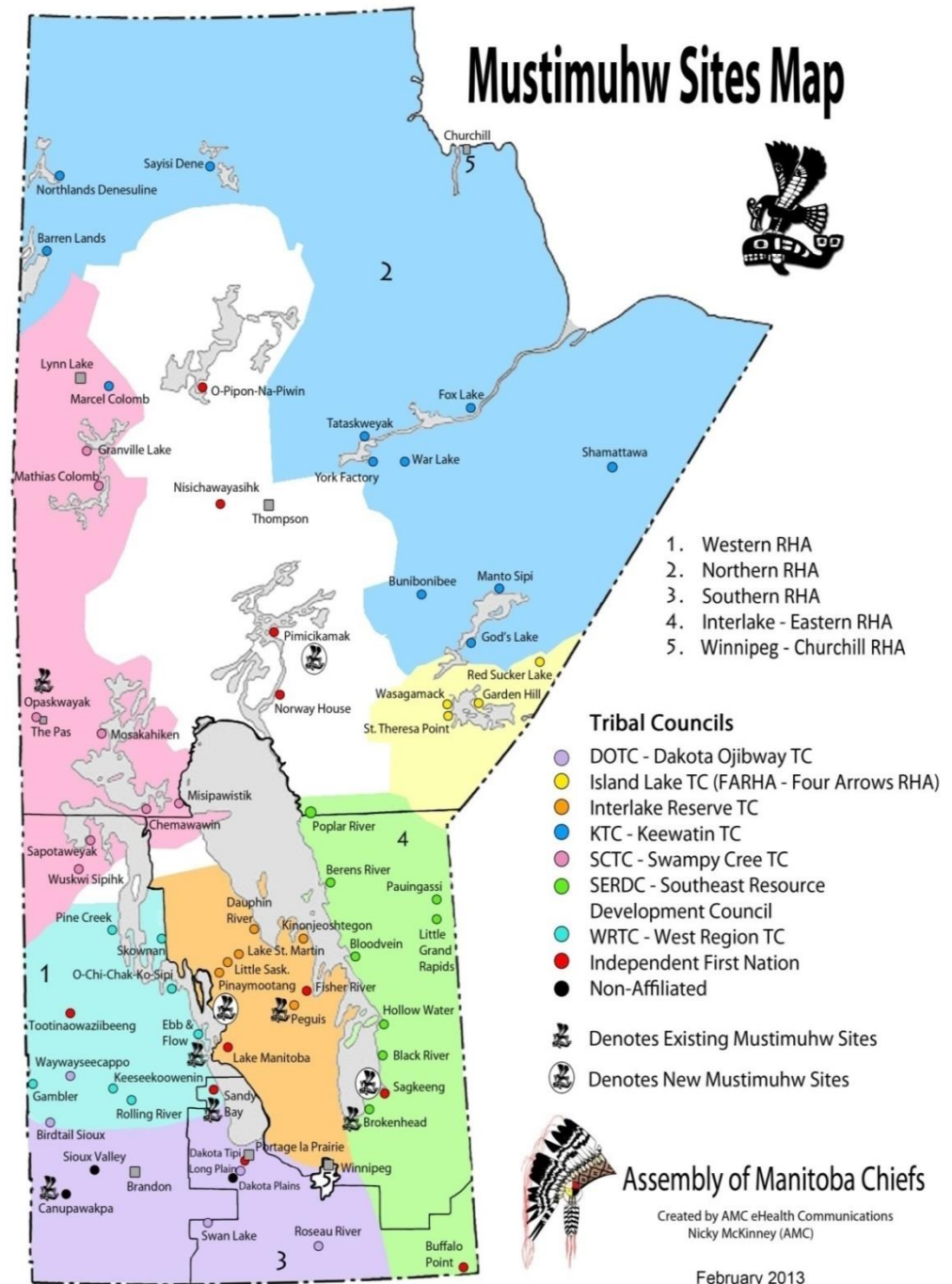
# Mustimuhw cEMRII

Project funded by Canada Health Infoway

## GOALS

1. Develop & demonstrate interoperability between Mustimuhw (cEMR) & a provincial eMR
2. Deployment of 3 new Mustimuhw sites
3. Conceptual Design for the Deployment of a future nursing station Mustimuhw site: a potential future state nursing station model (managed by FNIHB or Manitoba Health based on lessons learned from the Health Centre implementations)

Project Wrap-up & Press Conference  
– July 3<sup>rd</sup>, 2013 @ Sagkeeng



# Mustimuhw Deployment



# Northern MFNs EMR-cEMR Technical Readiness Assessment Collaboration Project

Project funded by FNIHB-MB

## Project Management Team:

- AMC
- KTC
- SCTC Communities
- Independent North:
  - Cross Lake Band of Indians, Norway House Cree Nation, O-pipon-na-piwin Cree Nation (South Indian Lake)
- Northern Health Region

## Project Advisory Committee:

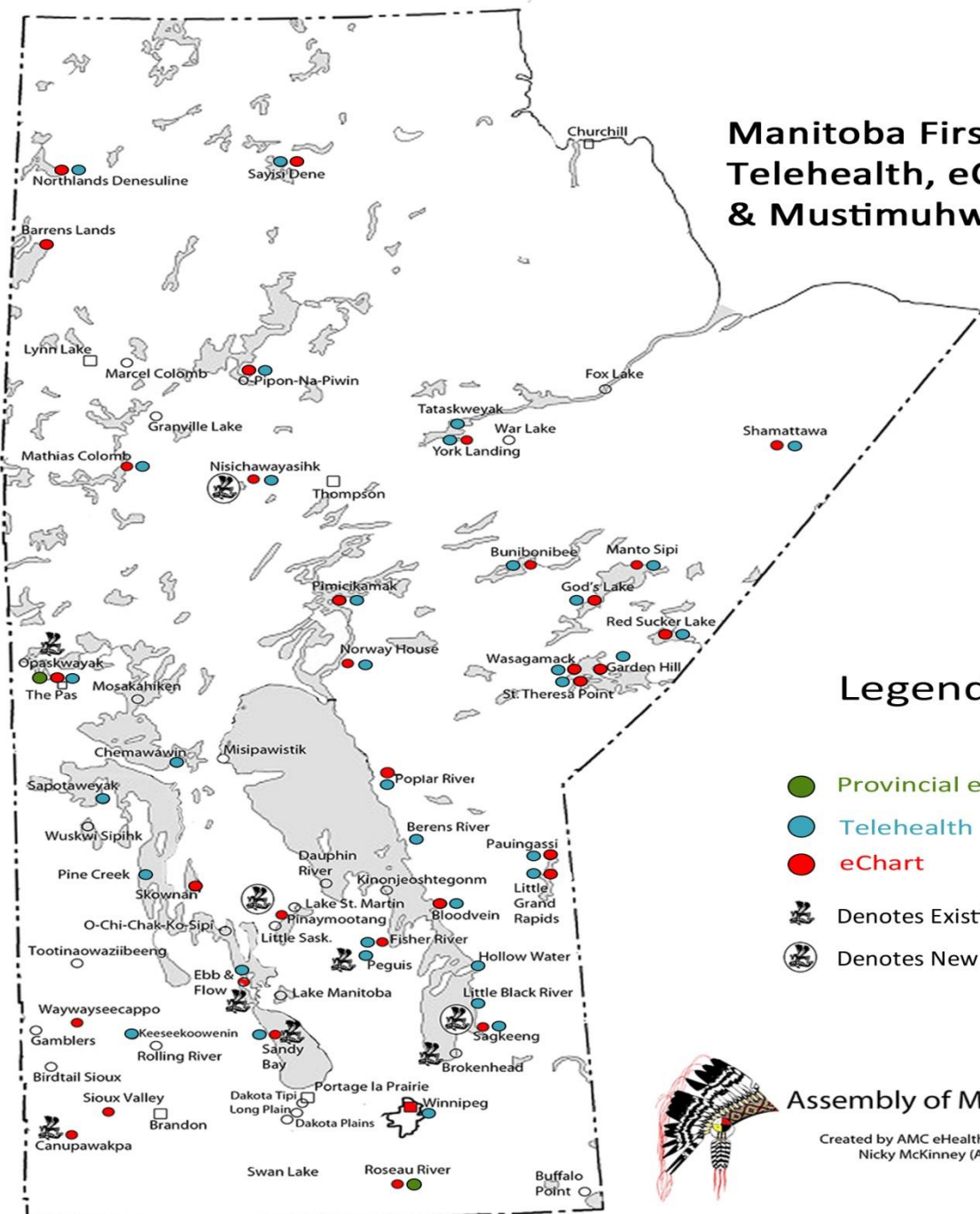
- MFNs
- FNIHB - MB
- Manitoba eHealth
- Manitoba Health



  
Northern Health Region  
EMR locations

**Blue:** Existing NHR eMR sites  
**Yellow:** Northern MFNs eMR-cEMR Technical Assessment Project  
**Red:** Sites to be assessed in partnership with AMC in future  
**Green:** FARHA project

# Manitoba First Nation Telehealth, eChart, eMR & Mustimuhw Sites Map



## Legend

- Provincial eMR
- Telehealth
- eChart
- Denotes Existing Mustimuhw Sites
- Denotes New Mustimuhw Sites



Assembly of Manitoba Chiefs

Created by AMC eHealth Communications  
Nicky McKinney (AMC)

# FNIHB EMR Pilot

## Progress to Date

- ◉ **Established Governance Structure – Advisory, Steering, Project Committees**
- ◉ **Identified Pilot sites**
- ◉ **Preliminary Privacy Impact Assessment (PIA) – complete**
- ◉ **Operational PIA – in progress**
- ◉ **Security Threat Risk Assessment – in progress**
- ◉ **“Current State” workflow analysis – complete**
- ◉ **“Future State” user role specifications – in progress**
- ◉ **Clinical practice design / development – in progress**
- ◉ **User, confidentiality & information sharing agreements – in progress**
- ◉ **Feasibility testing via satellite (central hosting) – in progress**
- ◉ **Hardware assessment & procurement – in progress**
- ◉ **Vendor procurement – in progress**
- ◉ **Deployment & “GO LIVE” planning – work break down structure underway**

# eChart Manitoba

- ⦿ **eChart is a record of key health information about an individual over a long time period, not a detailed record of care**
  - > A comprehensive health history will take many years to complete
- ⦿ **Complements point of service systems (like electronic medical records or electronic patient records)**
  - > Does not replace them
- ⦿ **Dependent on information from existing electronic sources**
  - > No capability to enter clinical data directly – View only system
  - > No data from non-automated sources (e.g. some rural hospital labs)
  - > Data is captured from date of source system “go live”
- ⦿ **Patient centric record of information**
  - No capability within solution to report or search by aggregate information

# Implementation Status

◎ **As of May 1, 2014, live in 418 locations across Manitoba**

◎ **First Nation locations:**

- > 21 Federal Nursing Stations
- > 2 Federal Hospitals
  - Percy E. Moore, Norway House
- > Northern Medical Unit
- > Birdtail Sioux Health Centre
- > Black River Health Centre
- > Ginew Wellness Centre
- > Opaskwayak Health Authority
- > Pinaymootang Health Centre
- > Ebb & Flow Health Centre
- > Fisher River Health Centre
- > Fort Alexander Health Centre
- > Waywayseecappo Health Centre
- > Canupawakpa Dakota Nation
- > Sandy Bay Health Centre
- > Cross Lake Nursing Station
- > Sioux Valley Health Centre
- > 391 York Avenue, Winnipeg FNIHB Office



# Panorama Project Milestones

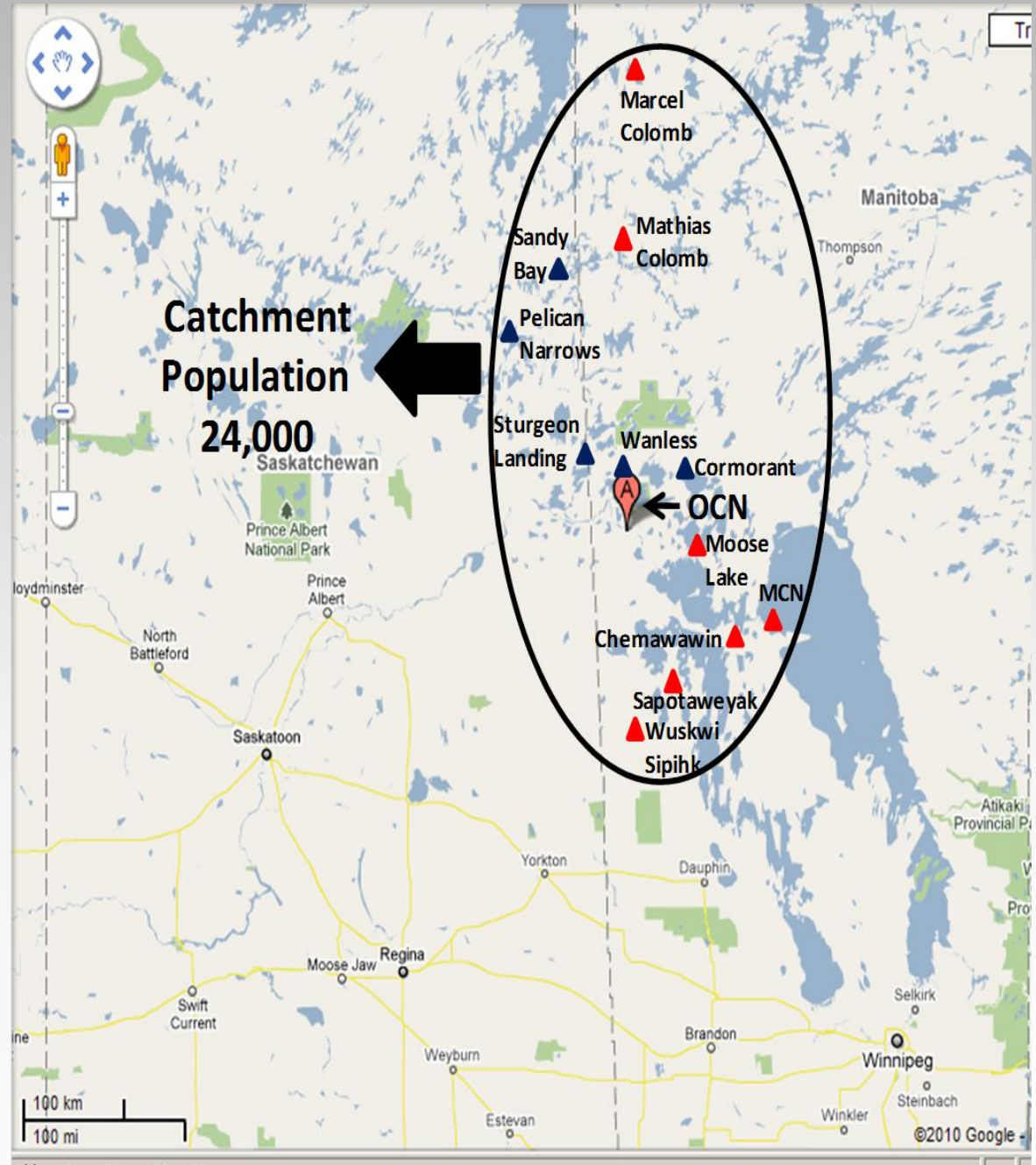
- **Manitoba Panorama Steering Committee meets monthly**
  - First Nation & FNIHB representation on the provincial Steering Committee
  - AMC, FNs & FNIHB all part of the work in making the project happen
- **Project Team engaged including business representatives**
  - Working Groups identified & kicked off
  - First Nation & FNIHB public health providers on relevant working groups
- **Current focus for team:**
  - Requirements / Analysis on Immunization & Inventory functionality
  - Solution Architecture & Solution Design
  - Proof of Concept Environment Build
  - Stakeholder Engagement & Communication
  - Strategy for Training
  - Initial Discussions on Pilot & Deployment
  - Participation in the national Panorama Working Group Communities of Practice

# Opaskwayak Health Authority - Northern Health Region

## EMR Partnership

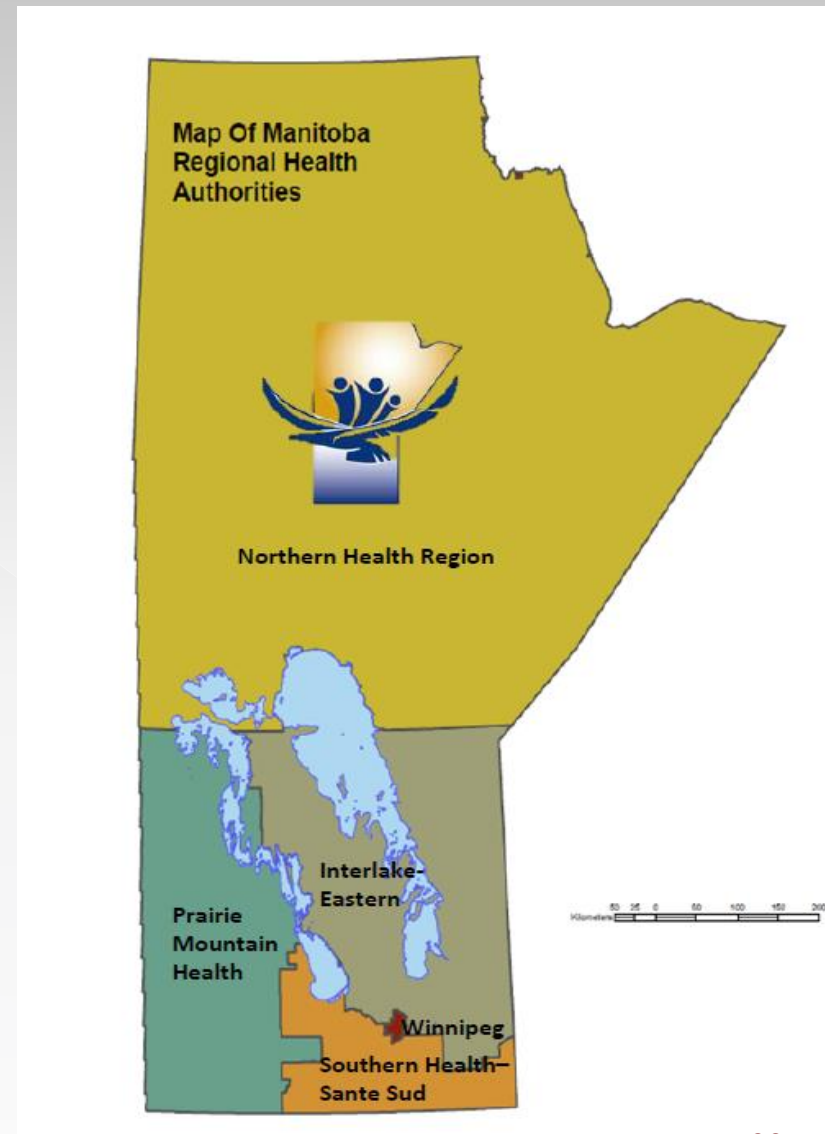
- Opaskwayak Cree Nation (OCN) is 1 of 8 communities in the Swampy Cree Tribal Council area, & is one of the larger employers in the area
- Total membership of OCN is approximately 5,600 with 56% of the members living on OCN land
- OCN is governed by a Chief & 8 Councillors

- ▲ SCTC Communities
- ▲ Non-SCTC Communities



# Northern Health Region

- Created in May 2012, the Northern Health Region is the largest of the 5 RHA's in Manitoba
- Our population is 74, 000 people spread over 396,000 km<sup>2</sup>. Our population density of 0.18 persons per km<sup>2</sup> compared to 2.19 for the entire province.
- The Region includes 10 Cities, Towns & Municipalities; 25 First Nation communities & 16 Northern Affairs communities.
- Many of our communities are only accessible by air or winter roads.



# Overview of The Pas & OCN



- **Two communities adjacent to one another; once considered separated but through a change in thinking, now considered connected by that same Northern Saskatchewan River**
- **NHR provides health services in The Pas with limited access on OCN**
- **OHA provides community health services on OCN**
- **Residents of OCN access Acute Care at The Pas Health Complex. Primary Care services are provided at BWHC**
- **NHR became a stakeholder partner in the OHA Health Services Integration Project**
- **Established the goal of addressing the continuity of care for the residents of OCN**

# Initial Drivers

## Community Readiness

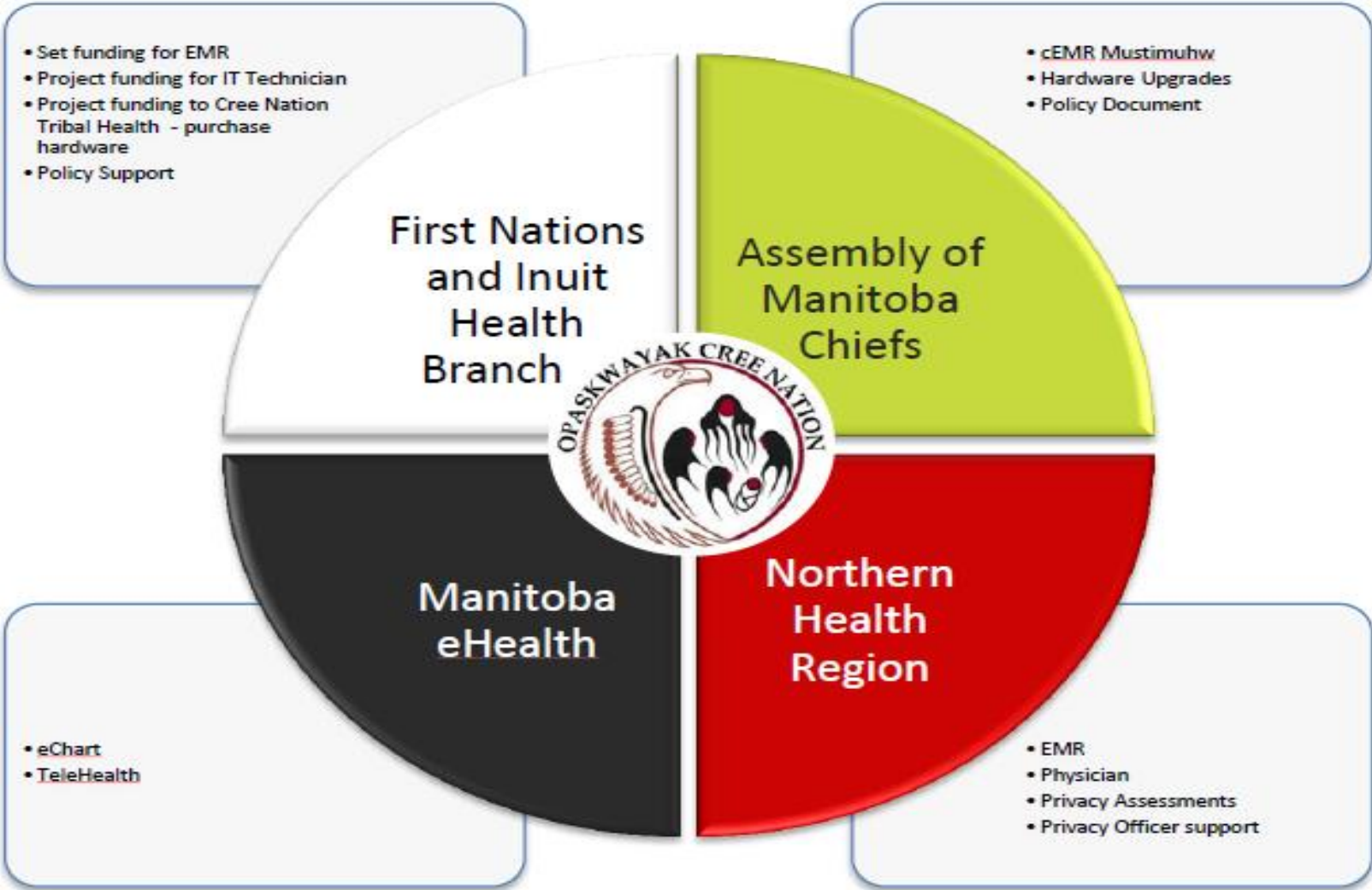
- OCN wanted improved access to health services for residents living at OCN & for those in neighbouring communities
- OCN wanted a physician working at OHA with full access to timely & accurate patient information
- Invited NHR to the table for joint meeting to discuss opportunities for partnerships



Beatrice Wilson Health Centre

## Shared Resources

- OHA's new Beatrice Wilson Health Centre provided space for the region to place a physician on OCN
- Physician provides Primary Care services through the Health Centre but is a contract physician with the Health Region
- Plan moving forward is to add an additional Physician once resources become available



## OPASKWAYAK CREE NATION HEALTH AUTHORITY

*minoyâwin katoskâtamâk*

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*Working Together for Health*

*Insert Part 2 of video*



# **Moving Ahead in Partnership**

***Overcoming  
Challenges & Sharing  
Lessons Learned***

# Challenges in First Nations eHealth Deployment

- ⦿ **Communication across so many organizations**
- ⦿ **Appropriate community engagement on tight timelines**
- ⦿ **Information Sharing Agreements & the integration of First Nation OCAP (Ownership, Control, Access, Possession) Principles™ into shared resources**
- ⦿ **Foundational infrastructure / connectivity**
- ⦿ **Keeping “what is best for the patient” as the core principle**

# The Path Forward

- ⦿ **eHealth governance will need to evolve, looking to the path to be laid out under trilateral health governance negotiations in other jurisdictions**
- ⦿ **At some point, the “ground up”, community development approach requires the formal ratification of the leadership authority in order to evolve to the next level**
- ⦿ **How much are we influencing that path by our examples?**
- ⦿ **In the absence of the common path . . .**
  - > Standing still is not an option
  - > Try to head in the same direction
  - > Be willing to walk each other's path along the way
  - > Share what we learn on our journeys with each other
  - > Leave no one behind

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**Ekosani - Ekosi – Wopida - Miigwech – Mahsi –Thank You**