

Research and the Surgery Strategic Clinical Network

September 11, 2018



Declaration of Conflict of Interest

Nothing to declare

Overview

- What is the Surgery SCN and what do we do?
- What is our role in research?
- What is the next 5 years going to be like?

Just what is a Strategic Clinical Network?

Strategic Clinical Networks

SCNs

Strategic Clinical Networks (SCNs) are creating improvements within focused areas of health care.

To get the most out of our health care system, AHS has developed networks of people who are passionate and knowledgeable about specific areas of health, challenging them to find new and innovative ways of delivering care that will provide better quality, better outcomes and better value for every Albertan.

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Current SCNs

- 1. Diabetes Obesity and Nutrition**
- 2. Bone & Joint Health**
- 3. Cardiovascular Health & Stroke**
- 4. Cancer**
- 5. Digestive Health**
- 6. Respiratory Health**
- 7. Kidney Health**
- 8. Addiction & Mental Health**
- 9. Emergency**
- 10. Critical Care**
- 11. Surgery**
- 12. Seniors Health**
- 13. Maternal Newborn Child & Youth**
- 14. Population Public & Indigenous Health**
- 15. Primary Health Care Integration Network**

The 2017–2020 Health Plan
and Business Plan

A healthier future.
Together.

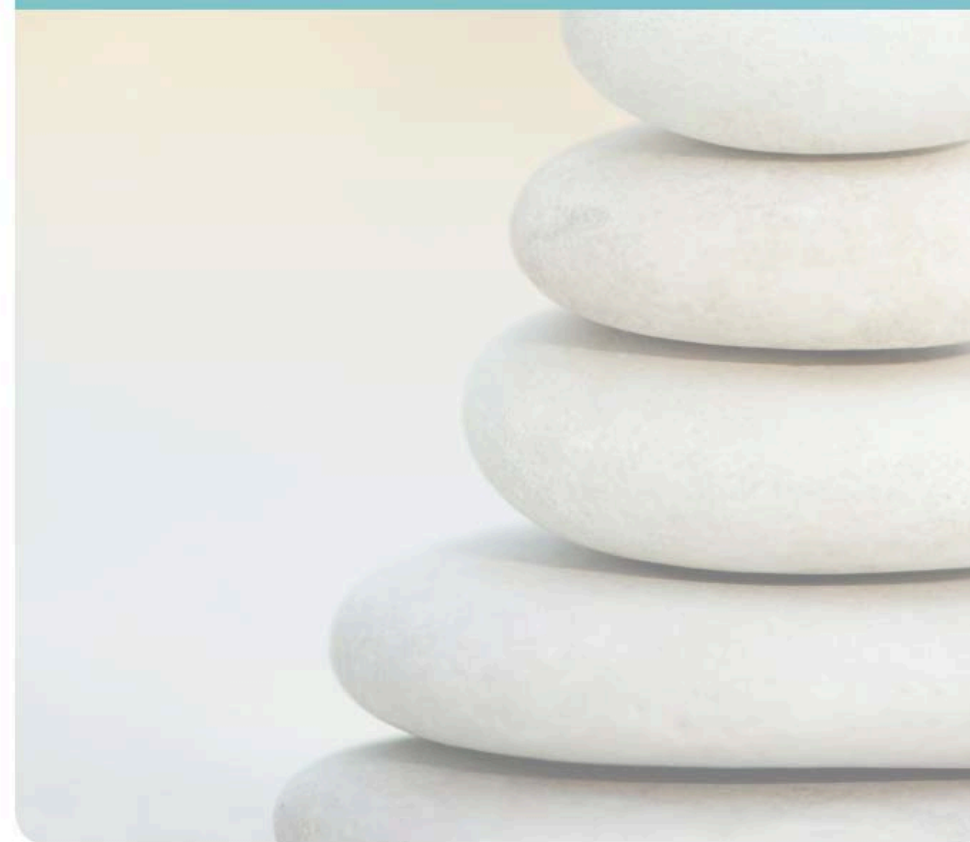


| Operational Plan

May 28, 2017

Strategic Clinical Networks™

2017-2020



Our Four Goals



Goal 1: Improve patients' and families' experiences.



Goal 2: Improve patient and population health outcomes.



Goal 3: Improve the experience and safety of our people



Goal 4: Improve financial health and value for money.

What is the Surgery Strategic Clinical Network?

We're a community of people
who care about surgery in Alberta
and want to make it better



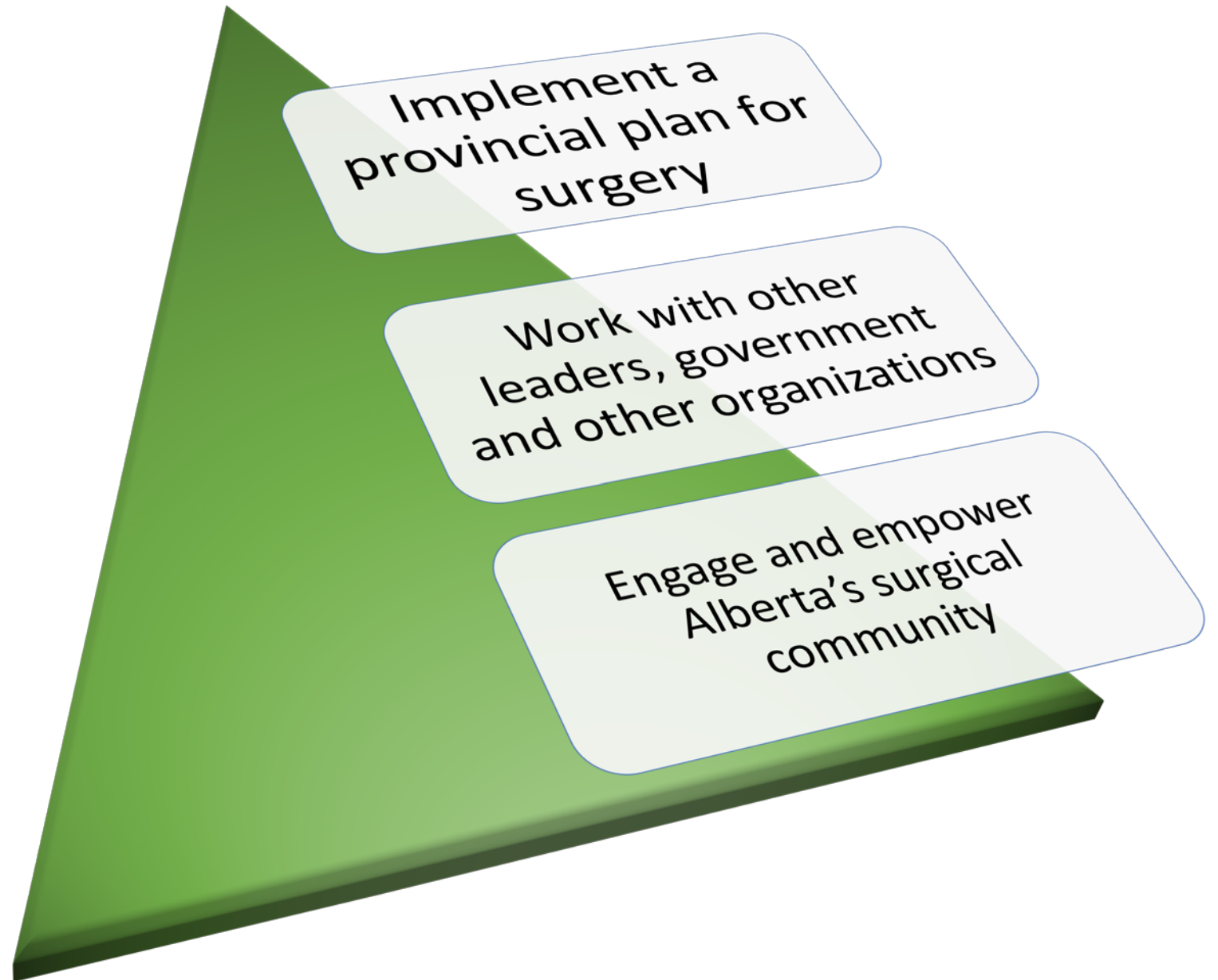
Our Surgical Community



Our Partners



What does the Surgery SCN do?



Our Philosophy

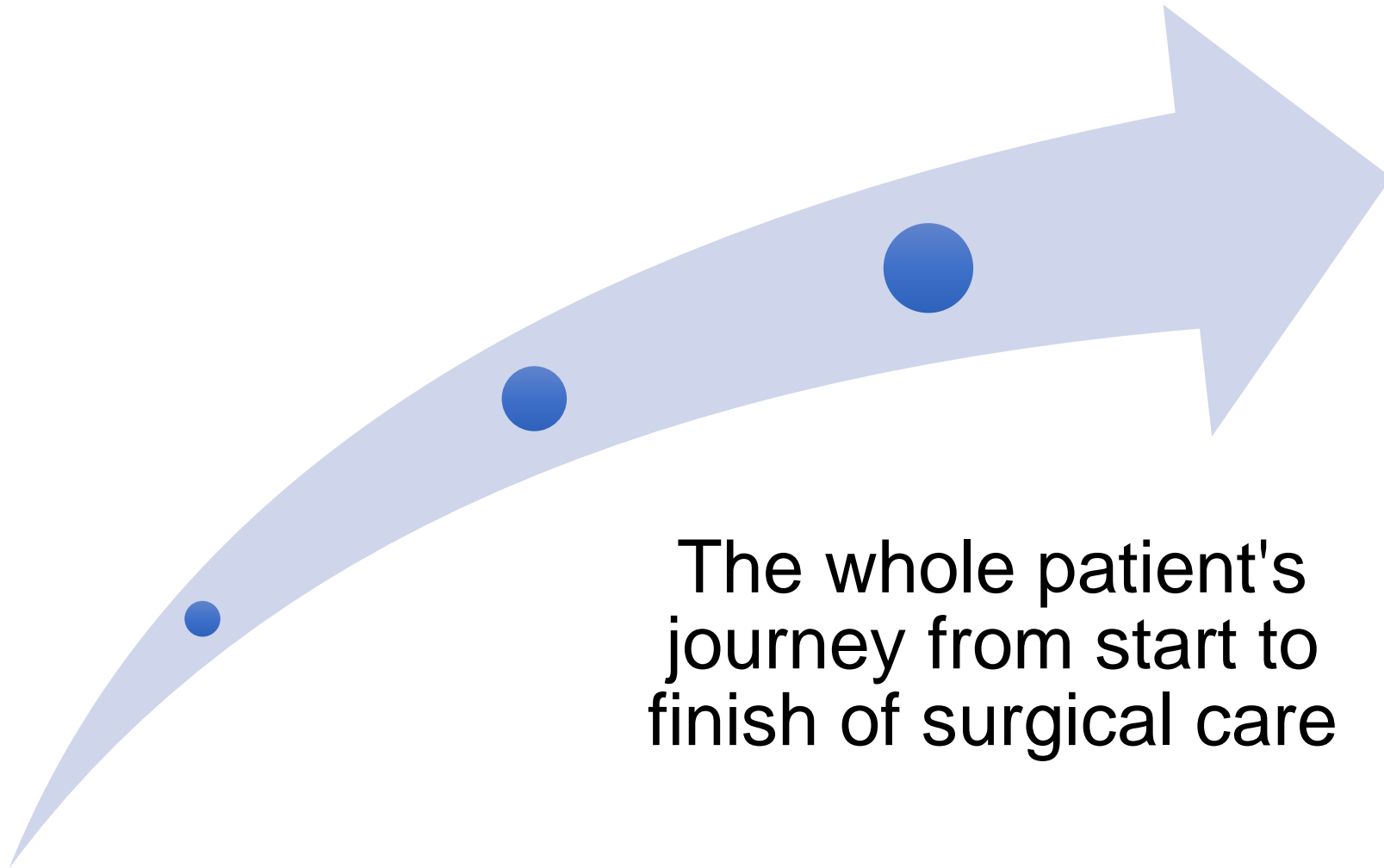


We provide pretty good surgical care in Alberta, but we know it can be better

We believe it is possible to improve

We want to come together as a community to get it done

What is the scope of our work?





Who can we talk to?

Anyone who interacts with a surgery patient along the way

Who is the Surgery SCN?

Leadership Team

Core Committee

Wider community

The Surgery SCN Team



Jill Robert
Senior
Provincial Director



Jonathan White
Senior
Medical Director



Stacey Litvinchuk
Executive Director



Tim Baron
Manager



Bryan Atwood
Senior Project Manager,
ACATS



Ron Moore
Scientific Director



Sanjay Beesoon
Assistant
Scientific Director



Alison Nelson
Provincial Lead for
Enhanced Recovery



Lynne Malmquist
Consultant



Paule Poulin
Research Scientist,
Evidence Decision
Support Program



Crystal Fawkes
Executive Administrative
Assistant



Tracy Berryman
Executive
Administrative
Assistant



Ashley Asman
Executive
Administrative
Assistant

What should you expect from us?

Point to the future.





2018-2021 TRANSFORMATIONAL ROADMAP

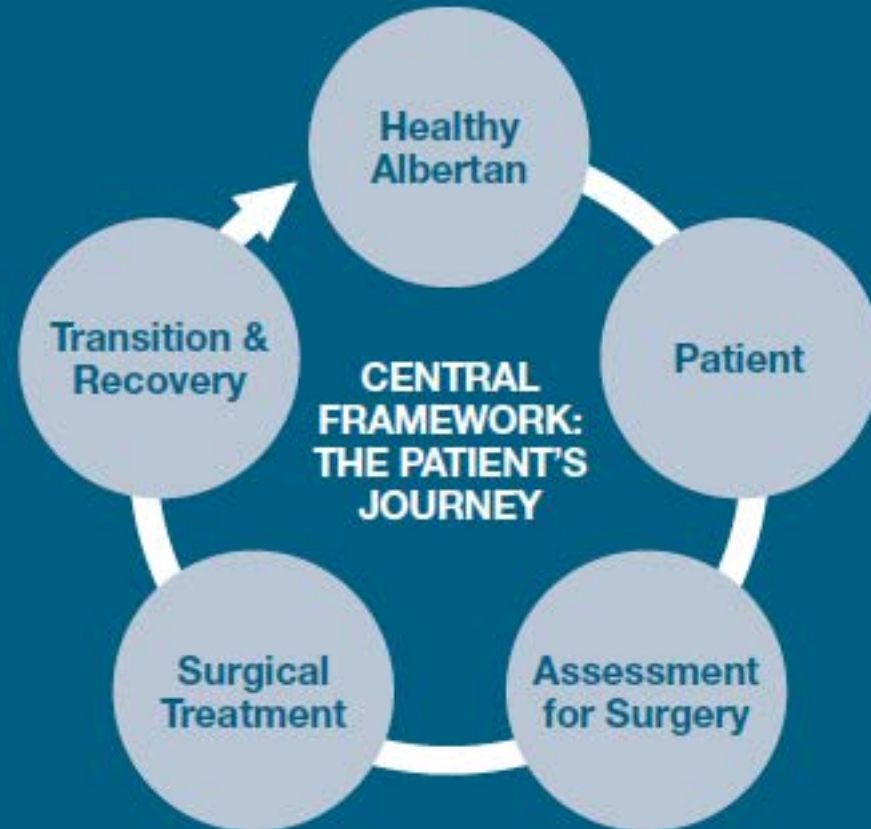
The Alberta Surgery Plan

Revised January 18, 2018

SUMMARY OF The Alberta Surgery Plan

OUR VISION:
Healthy Albertans.
Healthy Communities.
Together.

OUR MISSION:
To improve surgical care
provided to Albertans.





STRATEGIC OBJECTIVE 1

We will improve access to integrated surgical care

Initiatives:

- Bring together a multi-disciplinary Working Group on Access to Surgical Care
- Publish a health evidence review on the issue of access
- Gather more data on access to surgical care
- Share our findings with patients and the public
- Develop and implement projects to test methods for improving access



STRATEGIC OBJECTIVE 2

We will provide safe, high-quality surgical care

Initiatives:

- Bring together a multi-disciplinary Working Group on Surgical Safety and Quality
- Increase the use of ERAS and other care pathways
- Increase the implementation of active surgical quality programs such as NSQIP at all hospitals
- Enhance the use of the Safe Surgery Checklist
- Increase the use of patient-reported outcome data



STRATEGIC OBJECTIVE 3

We will build a strong surgical community

Initiatives:

- Conduct regular SCN visits to each hospital
- Convene an annual Provincial Surgical Forum starting in fall 2018
- Review the operation of our Core Committee
- Develop strategies on engagement and communication and research



STRATEGIC OBJECTIVE 4

We will use analytics and evidence to guide decisions

Initiatives:

- Bring together a multi-disciplinary Working Group on Surgical Analytics
- Develop a unified surgical data strategy and analytical framework
- Work with AHS Analytics to create a provincial surgical data repository accessible to our community
- Develop the concept of a “surgical scorecard”

Connect.



Alberta Surgery Road Trip, August 2017 – January 2018



Rockyview General Hospital, Calgary



University of Alberta Hospital, Edmonton



Peter Lougheed Centre, Calgary



Chinook Regional Hospital, Lethbridge



Alberta Children's Hospital, Calgary



Queen Elizabeth II Hospital, Grande Prairie



Northern Lights Regional Health Centre, Fort McMurray



Royal Alexandra Hospital, Edmonton



Medicine Hat Regional Hospital, Medicine Hat



Red Deer Regional Hospital, Red Deer



Foothills Medical Centre, Calgary



Sturgeon Community Hospital, St. Albert



Misericordia Community Hospital, Edmonton



South Health Campus, Calgary



Grey Nuns Community Hospital, Edmonton



Stollery Children's Hospital, Edmonton



Listen.



Think.



Ask hard
questions.



Act.

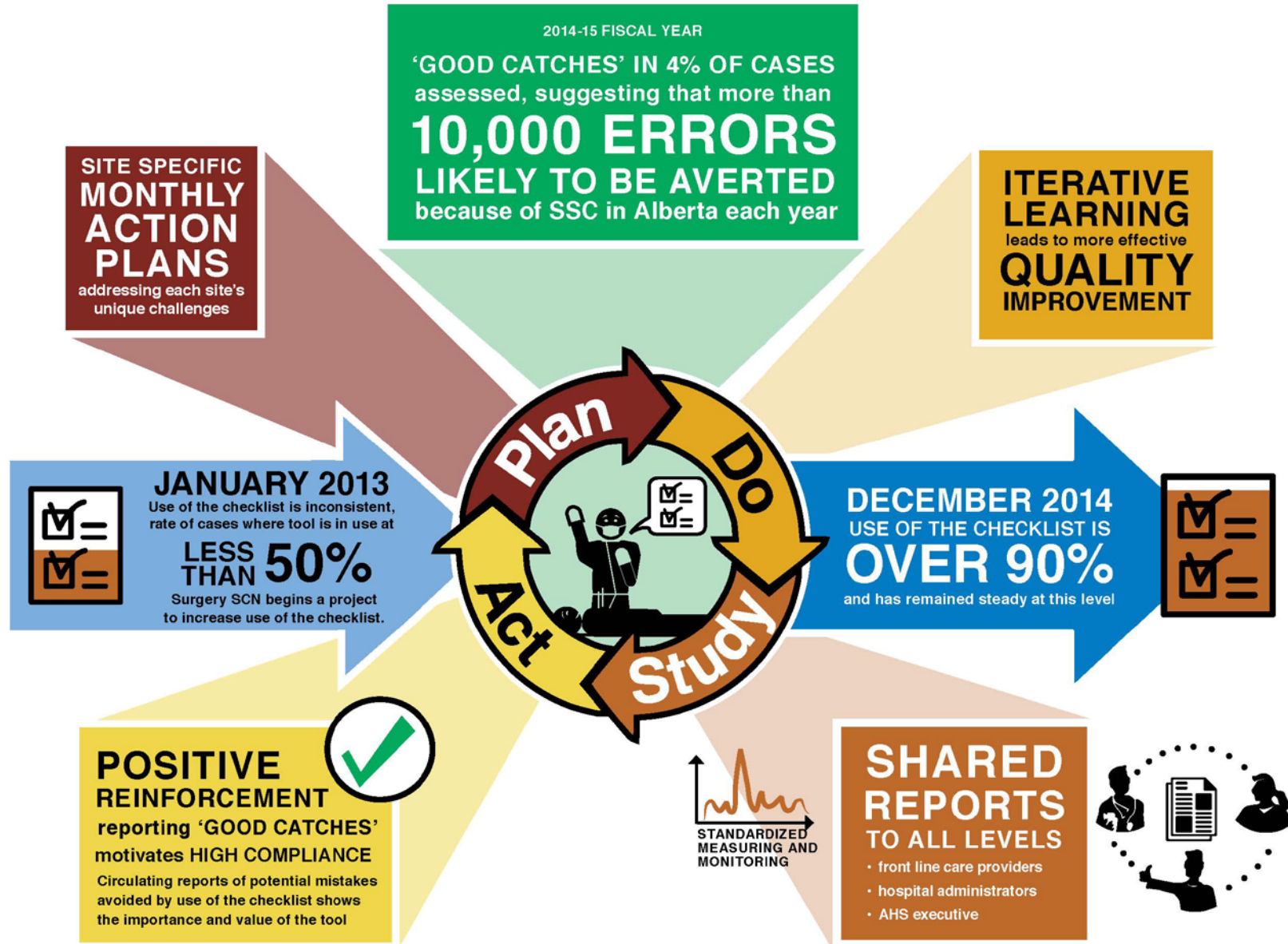
SURGERY STRATEGIC CLINICAL NETWORK SAFE SURGERY CHECKLIST

Strategic Clinical Networks (SCNs) are creating improvements within focused areas of health care.

To get the most out of our health care system, AHS has developed networks of people who are passionate and knowledgeable about specific areas of health, challenging them to find new and innovative ways of delivering care that will provide better quality, better outcomes and better value for every Albertan.

The Safe Surgery Checklist (SSC) is a communication tool that is used to assist surgical teams in reducing and preventing errors during surgery. Reinforcing safety and quality in the OR, the SSC also decreases complications, improves efficiency and ensures better overall outcomes for patients.

The Surgery SCN would like to thank our operational and corporate support Partners as well as Patient and Community Engagement Research (PACER) group for contributing to the success of this initiative.



SURGERY STRATEGIC CLINICAL NETWORK

ADULT CODING ACCESS TARGETS FOR SURGERY (aCATS)

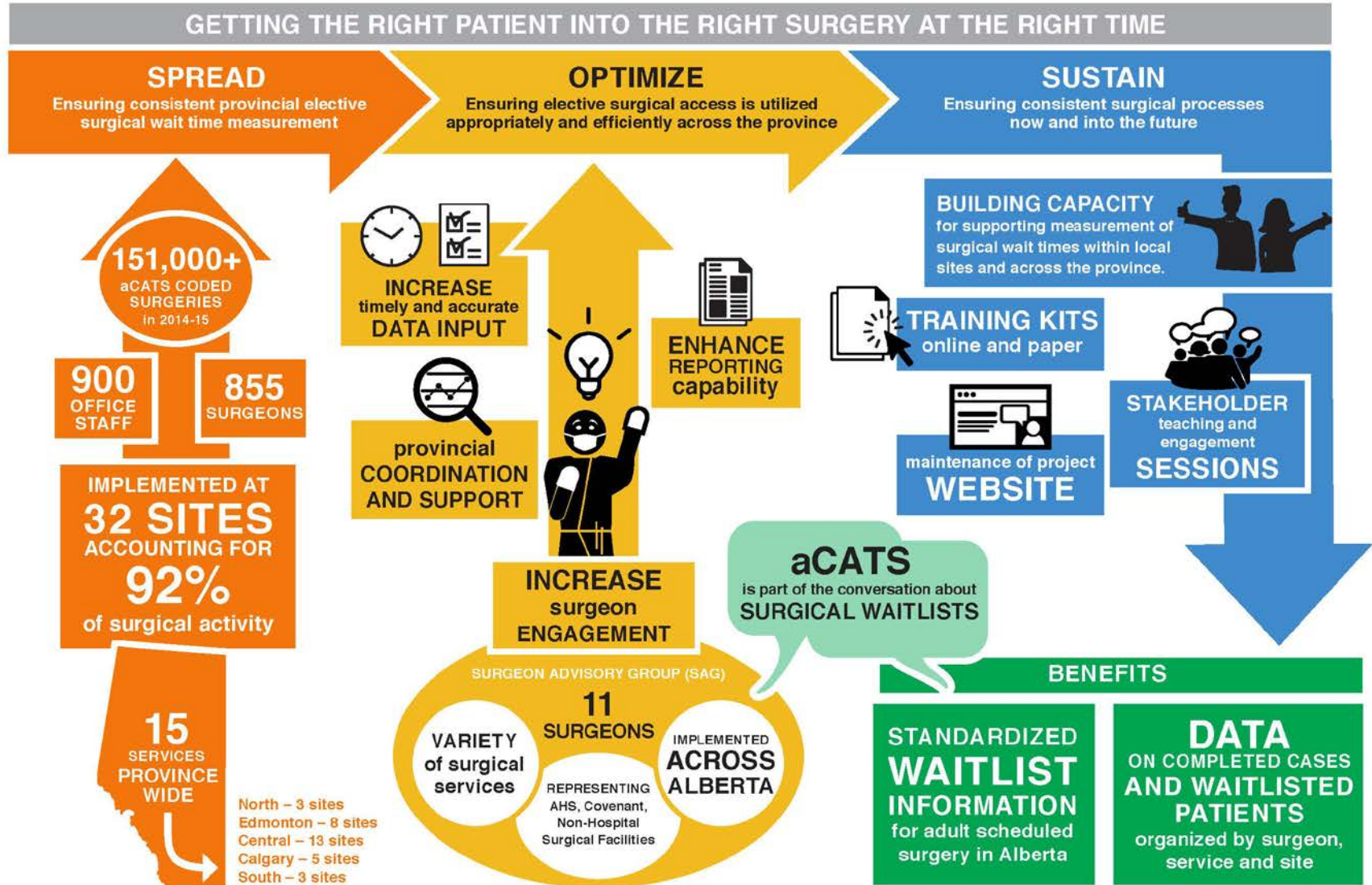
Measuring Access to Elective Surgery

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The adult Coding Access Targets for Surgery project (aCATS) is a key initiative of the AHS Surgery Strategic Clinical Network.

aCATS is an Alberta-developed, standardized coding system to help prioritize scheduled surgeries offered at facilities throughout the province, depending on a patient's diagnosis and level of urgency.



SURGERY STRATEGIC CLINICAL NETWORK

ENHANCED RECOVERY AFTER SURGERY

Helping People Recover Better and Faster from Surgery



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The Enhanced Recovery Pathways After Surgery program (ERAS) is a key initiative of the AHS Surgery Strategic Clinical Network.

ERAS provides consistent ways of managing care before, during and after surgery with an aim of helping patients stay strong physically and mentally, improving recovery time and reducing complications.

ERAS Alberta
patients are the heart of enhanced recovery pathways



HEALTH SYSTEM BENEFITS

COST savings increased QUALITY

greater bed CAPACITY

3024 DAYS OF BED CAPACITY given back to the system

\$3.6–\$8.0 MILLION saved in first 21 months¹

1. All Health System Benefit Numbers provided by the IHE – ERAS Economic Evaluation. www.ihe.ca

ERAS PATIENTS return to home, family, work and play 2.3 DAYS SOONER



HOW WE DID IT PROVINCE-WIDE COLLABORATION

- Local innovation and learning
 - Grassroots-driven changes
 - Teams led by local clinicians
- CONTINUOUS QUALITY IMPROVEMENT**
- Evidence based practices
 - Internationally researched
 - Tested and proven

ERAS Alberta to date: Over 2200 patients experienced ERAS pathways between September 2013 and October 2015 at Peter Lougheed Centre, Grey Nuns Community Hospital (Covenant Health), Royal Alexandra Hospital, University of Alberta Hospital, Misericordia Community Hospital (Covenant Health) and Foothills Medical Centre.

The American College of Surgeons' National Surgical Quality Improvement Program (NSQIP®)

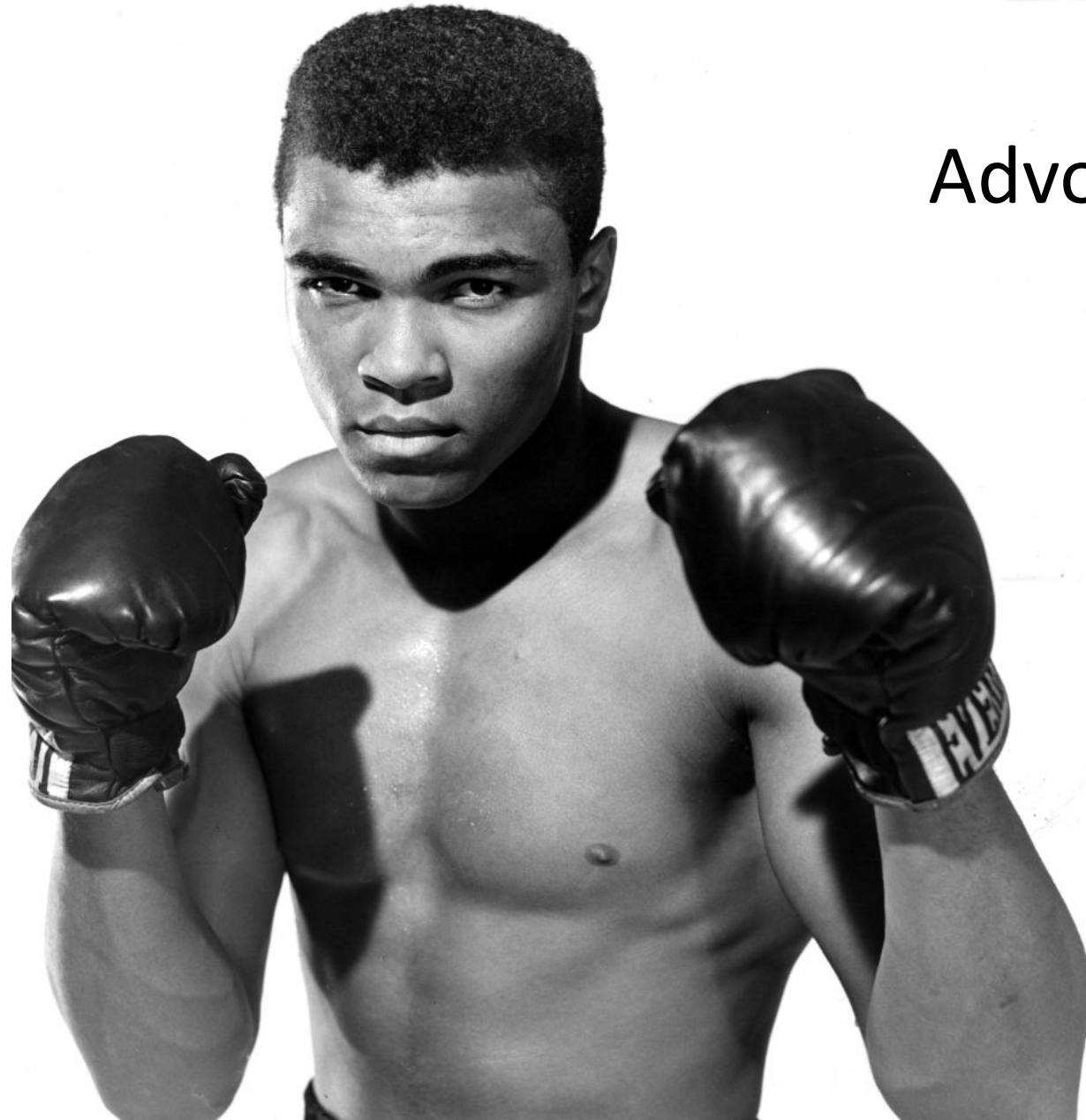
In Alberta, the use of NSQIP® is associated with:

5 Alberta Pilot Sites:

Grande Prairie
University of Alberta Hospital
Red Deer
Rockyview General Hospital
Lethbridge

- an enhanced quality improvement culture
- a reduction in surgical complications
- a reduction in costs associated with surgical complications
- \$3 million invested, \$11 million combined savings (cumulative cost & savings based on past 3 years)

Now expanding to all 16 big hospitals in Alberta



Advocate.

What about Research?

From the 2012 AHS Primer on SCNs

“Each SCN will have a specific mandate to develop a **focused provincial research program** in collaboration with academic partners, and a mandate to **create new knowledge and translate it** into measurably improved health and health care for Albertans. This will involve developing **health research capacity** and **executing prioritized** applied clinical **research**; health services, systems and policy research; and/or population and public health research in selected sub-populations of interest within each SCN. ”

From the Surgery SCN Transformational Roadmap

“The research that we support will be focused on health systems improvement and innovation which translates knowledge to maximize impact on patient care outcomes. We will develop a formal research and innovation strategy that describes how our community will manage innovation from initial idea to evaluation and operationalization.”

Surgery Strategic Clinical Network Research strategy **June 2018**

Key Principle

The research the Surgery SCN supports will be focused on improvement, innovation and knowledge translation which achieves patient impact, and will be directly linked to one of the key strategic objectives laid out in the Surgery SCN 2018-2021 Transformational Roadmap:

1. we will improve Access to Integrated Surgical Care
2. we will provide Safe, High-Quality Surgery
3. we will build a Strong Surgical Community
4. we will use Analytics and Evidence to Guide Decisions



1. Improving access to integrated surgical care



2. Providing safe, high-quality surgical care



3. Building a strong surgical community



4. Using analytics and evidence to guide decisions

1. **Developing health research capacity**
2. **Executing prioritized research** in the following areas:
 - a. applied clinical research
 - b. health services, systems and policy research
 - c. population and public health research
3. **Proactive dissemination** of research findings with rapid uptake, including peer-reviewed publication of results, is one of the major expected outputs of all AHS research. Other measurable research outputs:
 - creating new knowledge
 - creating research capacity
 - informing decision- making
 - providing health benefits
 - improving health system effectiveness and efficiency
 - broader economic and social benefits

Our current research activities

Activity	Developing health research capacity	Executing prioritized research
Grant writing workshops	X	
Seed grants	X	X
Summer studentships	X	X
Letters of support		X
Supporting researchers to develop PRIHS-4 applications		X

Alignment with our partners

The Government of Alberta has highlighted the following priorities which are relevant to our work in the Alberta Research and Innovation Action Plan 2017-2020:

- Health data
- Quality
- Innovation

Alberta Health Services has highlighted the following priorities which are relevant to our work in the AHS Strategy for Clinical Health Research, Innovation and Analytics 2015-2020

- Partnerships
- Liberation of data
- Service excellence
- Value to Albertans
- Applying and spreading knowledge

Strategic Direction for 2018-2020

1. Continue to **provide research support for the work described in the transformational roadmap** (access, quality/safety, community, analytics) including dissemination of research outputs.
2. **Form a Surgery SCN Research Advisory Subcommittee** to assist the Scientific Director with implementation of this strategy.
3. **Build a provincial surgical research network:** meet with our partners, discuss their priorities
 - Campus Alberta institutions
 - O'Brien Institute of Public Health
 - Alberta Institute of Health Economics
 - U of A School of Public Health: Center for Health System Improvement
 - Northern Alberta Clinical Trials and Research Center
 - AIHS Strategy for Patient Oriented Research (SPOR) units
 - TEC Edmonton
 - Research teams in other SCNs
- SCN scientific team to attend Research Day at both U of A and U of C in 2019, and subsequently host a provincial surgical research day.

4. **Secure a 2019 CIHR Health System Impact Fellowship**, in collaboration with our partners.
5. **Develop a plan to leverage emerging systems integrating research and care delivery**
 - Connect Care eg. Cogito, Slicer-Dicer, synoptic reporting, ACATS
 - NSQIP & ERAS: eg. risk calculators, outcomes, process compliance, patient reported outcomes
6. **Review the effectiveness of Seed Grants and summer studentships 2013-2018 in building capacity and executing prioritized research**
 - Applicants: location, career stage
 - Projects: CIHR pillars
 - Resources provided
 - Execution of prioritized research: projects completed
 - Measurable research outputs

What will the next 5 years look like?

2018-2023

5. Develop a plan to leverage emerging systems integrating research and care delivery

- Connect Care eg. Cogito, Slicer-Dicer, synoptic reporting, ACATS
- NSQIP & ERAS: eg. risk calculators, outcomes, process compliance, patient reported outcomes

Multiple initiatives on surgical access & quality



Provincial Surgical Analytics

NSQIP



Connect Care



STRATEGIC OBJECTIVE 3: We will build a strong surgical community



We want Alberta's surgical community to have a strong culture of accountability, improvement and innovation. It is our role to help the community work together to identify and solve problems impacting patient care, and to share and spread best practices across the province. We will begin this work by visiting hospital sites in person, and by bringing our community together at an annual Alberta Surgical Forum.

