IISE Global Performance Excellence Webinar Series:

A Systems Approach to Transformational Change Leadership in Healthcare—with a Case Study

Dale Shattenkirk
Partner and Head of Healthcare and HealthSciences
The Poirier Group

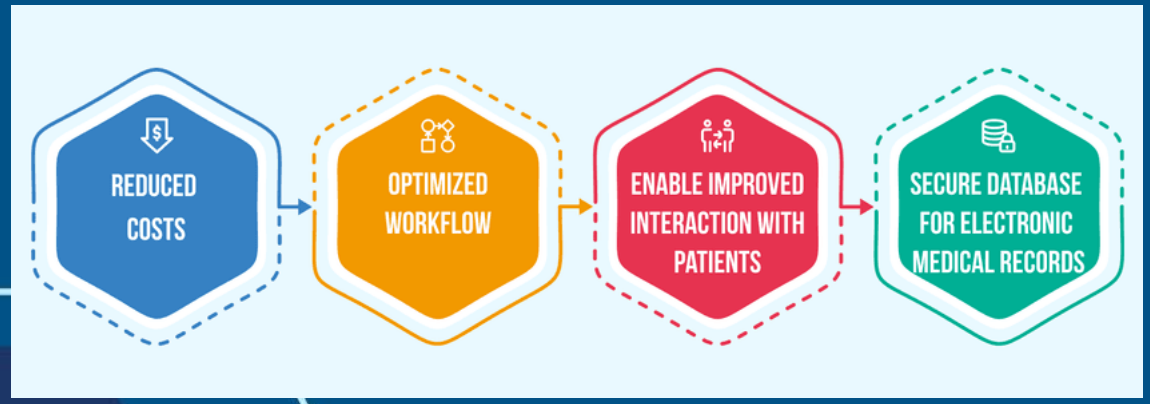
David Poirier
CEO, The Poirier Group
Past President, IISE

MODERATOR
D. Scott Sink, Ph.D., P.E.

IISE Performance Excellence and Op Analytics Volunteer Lead, IISE

Facilitator/Member, CISE

Senior Advisor, TPG



INSTITUTE OF INDUSTRIAL & SYSTEMS ENGINEERS

13 May 2024

Council on INDUSTRIAL & SYSTEMS ENGINEERING

Housekeeping

INSTITUTE OF INDUSTRIAL & SYSTEMS ENGINEERS

Solving complex & critical problems of the world.

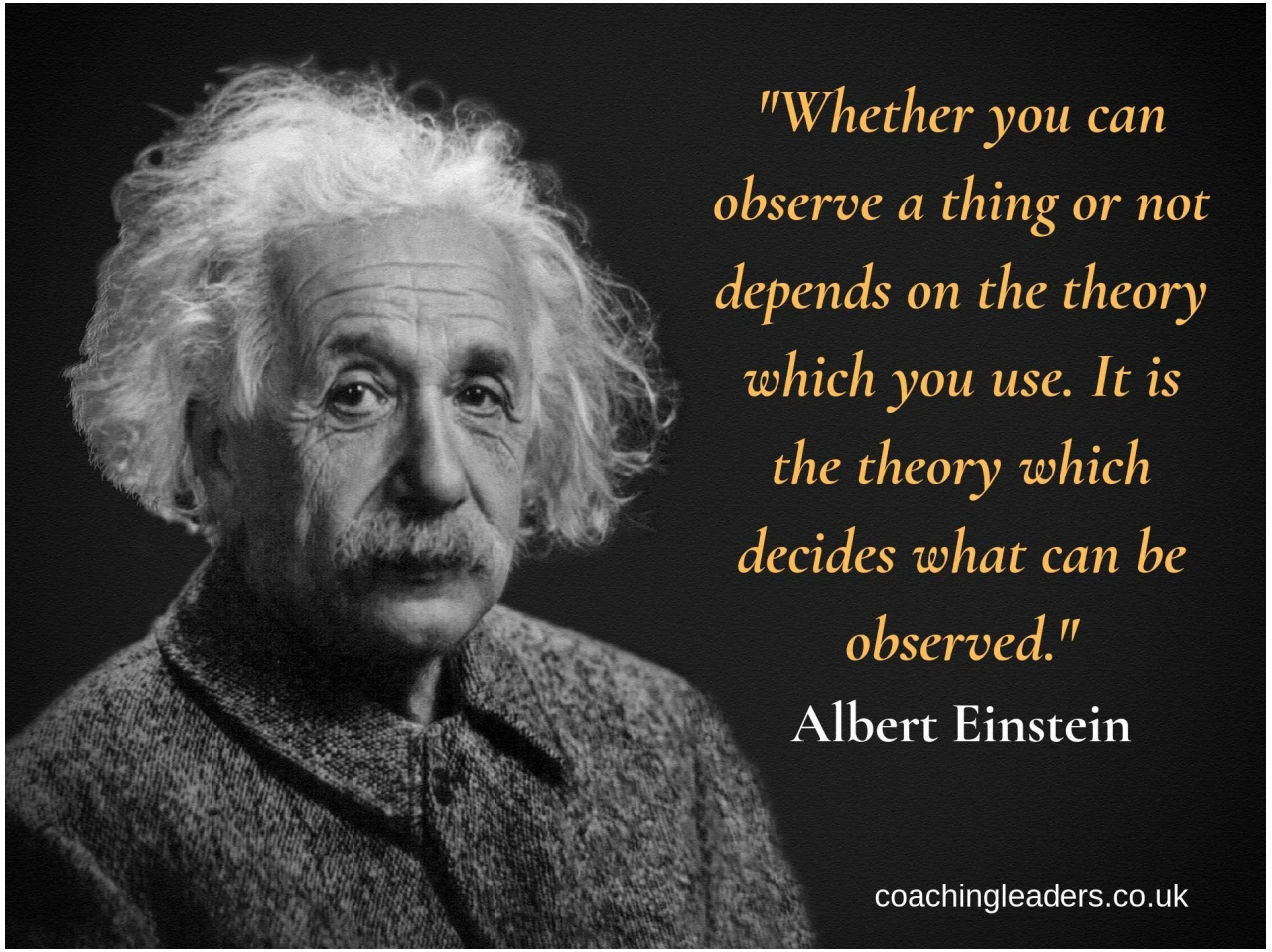
1. Thank you for joining us!
2. We'll share how to get access to the recording, presentation, you will receive a post webinar e-mail that will have access links
3. If you have feedback, observations or questions, feel free to share—use the chat function.

PARTNERING for GROWTH

Council on INDUSTRIAL & SYSTEMS ENGINEERING

Agenda for 12 April

11:00	Scott ‘tee-up’ the session
11:07	Dale Sharing
11:45	Dialogue
11:55	Close-out



ISE Perspectives and Points of View on Transformational Change Leadership for Healthcare Performance Excellence

Purpose and Key Points of the Mini-Series:

1. This is an important 'Domain' of application/contribution for ISE;
2. It is one of the more challenging Integrated Systems Engineering (Strategy, People, Process, Technology) 'problems' today.
3. Healthcare '4.0' has the potential for tremendous positive impact in our World.
4. ISE principles, body of knowledge/skills can make a big difference with rate of progress towards Healthcare Excellence.
5. our challenge was to pick the right topics….

12 April

Tee-up the Series
Frameworks
Failure Modes
Perspectives

26 April

Case Example, Ohio Health
Portfolio Management &
Systems Thinking

13 May

Healthcare 4.0, TPG Perspectives

19 May
IISE Performance Excellence Track
Montreal

- **Transformational Change Leadership**
- **AI Symposium**
- **Operational Analytics**
- **Integrated Systems Engineering**
- **Service Systems Engineering**

30 May

End2end Episodic Healthcare Value Stream Improvement

9 May

End2End Hospital Flow
provement
se
amples

June

Best Practice Benchmarking (UHN, IHI, …)

ISE Capstone Article

IISE Global Performance Excellence Webinar Series:

Integrated Systems Engineering Views on Transformational Change Leadership to achieve Healthcare Performance Excellence

MODERATOR
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Facilitator/Member, CISE

Senior Advisor, TPG

Debbie Nightingale
Executive Transformation Specialist
Distinguished Professor and Research Affiliate, UCF and MIT

Thomas Davis
Director, Performance Services, Hospital Ops
Duke Healthcare

Bob Gold
Founder and Behaviorial Technologist
GoMo Health

Todd Schneider
Lean Leader
Ohio Health
Past President, SHS

INSTITUTE OF INDUSTRIAL & SYSTEMS ENGINEERS

12 April 2024

Council on INDUSTRIAL & SYSTEMS ENGINEERING

Key Points from our Initial Webinar

- Mini-Series is a continuation of our Transformational Change Leadership (ISE perspectives and points of view) with a focus on Healthcare Performance Excellence.

- Provided a multiple stakeholder perspective and dialogue on ‘how to achieve Healthcare Performance Excellence’
  - Patient/Caregiver/Advocate, BPI leaders in major Healthcare Systems (Duke & Ohio Health), and Behavioral Technologist.

- Healthcare System improvement requires ‘extended systems’ approaches, end2end value stream improvement with all key stakeholders engaged in the process.

- Integration of Strategy, Technology, Process and People super critical in this ‘Industry’.

- Balancing the ‘Core Technology’ Preventing and Treating ‘Diseases’ with improving ‘how we do that’ is challenging, the focal problem.

- Healthcare appears to be ‘behind’ other industries and lacks continuity of leadership and consistency of strategy and methods as it relates to Operational Excellence.

Solution Elements (Scott view)—Panel, what do you think, what would you add?

- More Benchmarking and ‘copying’ of best practices, less NIH, re-inventing the wheel
- **Put teeth in Voice of Patient, Advocate/Caregiver feedback and improve feedback mechanisms.**
- More Simulation and Systems Dynamics Modelling
- **Better BPI and Op Analytics program design and deployment, stronger BPI and Op Analytics Programs, not necessarily bigger but better, right leadership with ‘good strategy’.**
- Better positioning and utilization of ‘ISE’
- **Better use of key tools of ILSS (e.g. FMEA, Functional(Swim) lane flow mapping and analytics, Value Stream Analytics and Improvement, Visible Measurement Systems, ….)**
- Adoption and perfection of Tiered Huddles to include ‘2-second’ lean type methods.
- **Deployed, distributed ‘Change Agents/BPI specialists’ in all units that are enterprise coordinated**
- Improved Strategic Performance Improvement Planning

Integration of Strategy, Technology, Process and People

When you integrate:

1. Strategy and policy deployment (Hoshin Kanri type method)
2. Tiered Huddles (for level to level and cross functional communication and coordination)
3. Integrated LeanSigma and BPI/ISE
4. Visible Measurement/Management Systems
5. Flow/Value Stream Workshops

You get speed of trust and rates of improvement required in Healthcare today.

Looking forward to Todd's sharing how Ohio Health is doing this.

THE POIRIER GROUP

Transformational Change Leadership with a focus on Healthcare Systems

May 13, 2024

With You Today

Dale Schattenkirk
Healthcare Partner

- Healthcare Lead at The Poirier Group
- 19 years focused in Healthcare (CDN, US, UK)
- IPAC Lieutenant Governors Award for Health System Transformation
- Certified Human Resource Professional with a focus on Organizational Change
- Lean Six Sigma Master Black Belt

With You Today

David Poirier
CEO

- CEO and Founder of The Poirier Group
- 30 years as a Transformational Leader for Large-Scale Organizational Transformations
- Broad industry and ‘situation’ experience
- Brings a ‘visionary’ and ‘Generative Learning and Leadership’ perspective and point of view to transformational systems improvement work
- Emphasis on the Power of Vision and the Requirement for Solid Values and Operating Principles
- Industrial/Integrated Systems Engineering Foundational Knowledge and Skill base.

Tee-up for Dale

- David, before Dale jumps into his presentation, would you provide a brief Executive Overview of your Perspective and Points of View on Transformational Change Leadership in Healthcare and Life Sciences?

- Dale, take the next 20-25 minutes and share you perspectives, points of view, and case study overview…

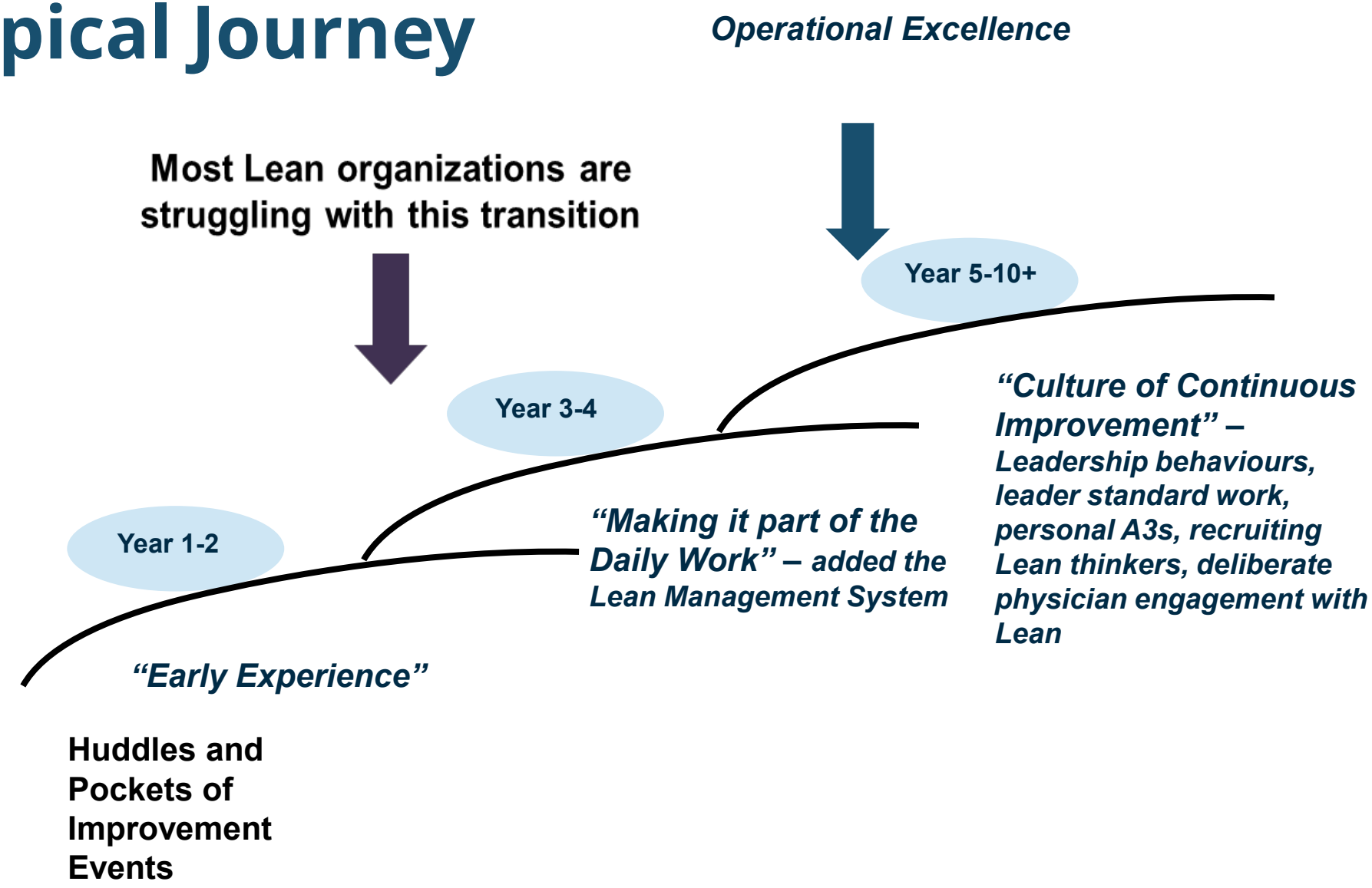
Agenda

1. What is a health system transformation timeline
2. What are leader’s responsibilities in a transformation journey
3. Tool for transformation
4. A case study in transformation
5. Open dialogue

Don’t mistake a clear view with a short distance

Paul Saffo

The Typical Journey

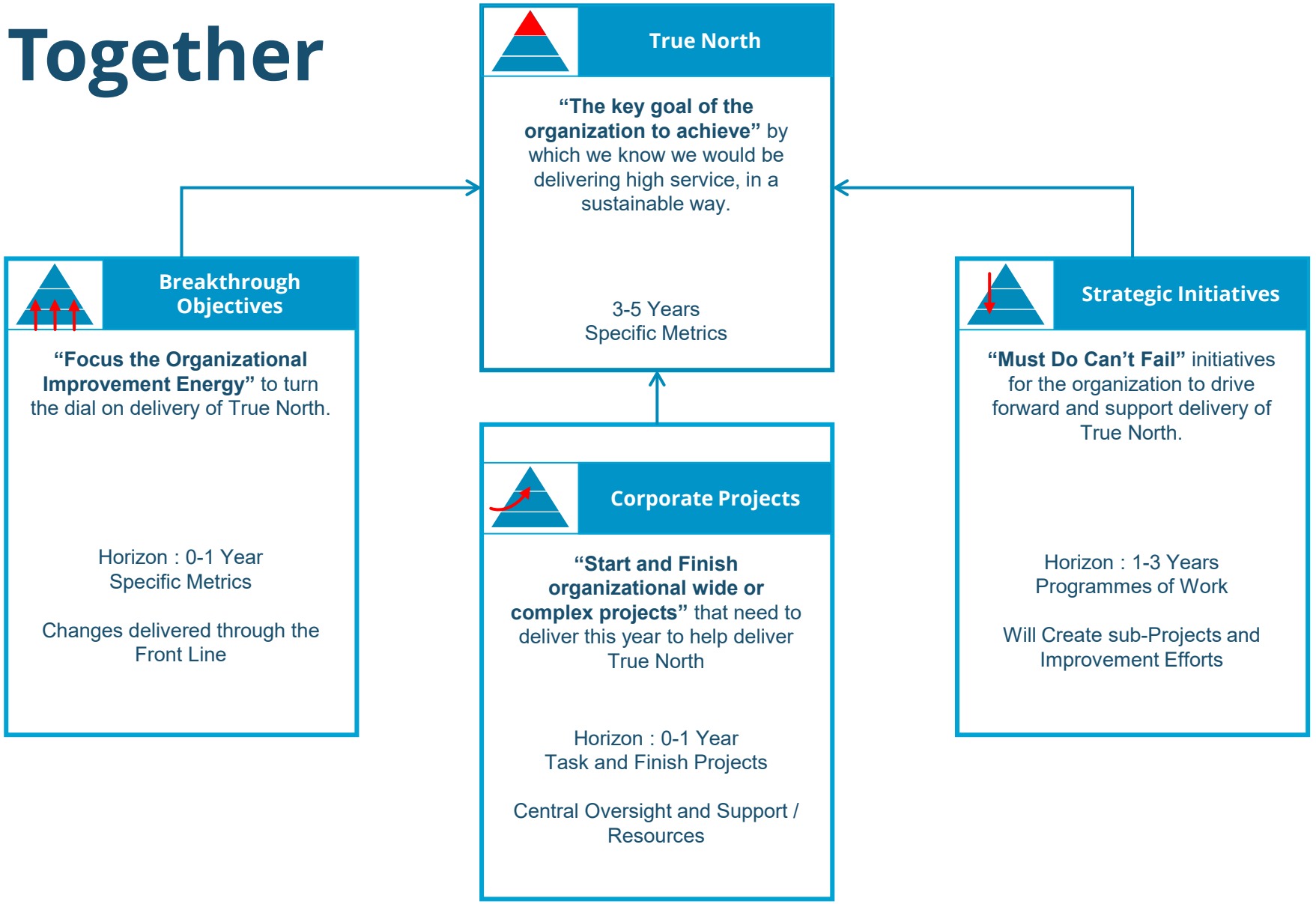


True North

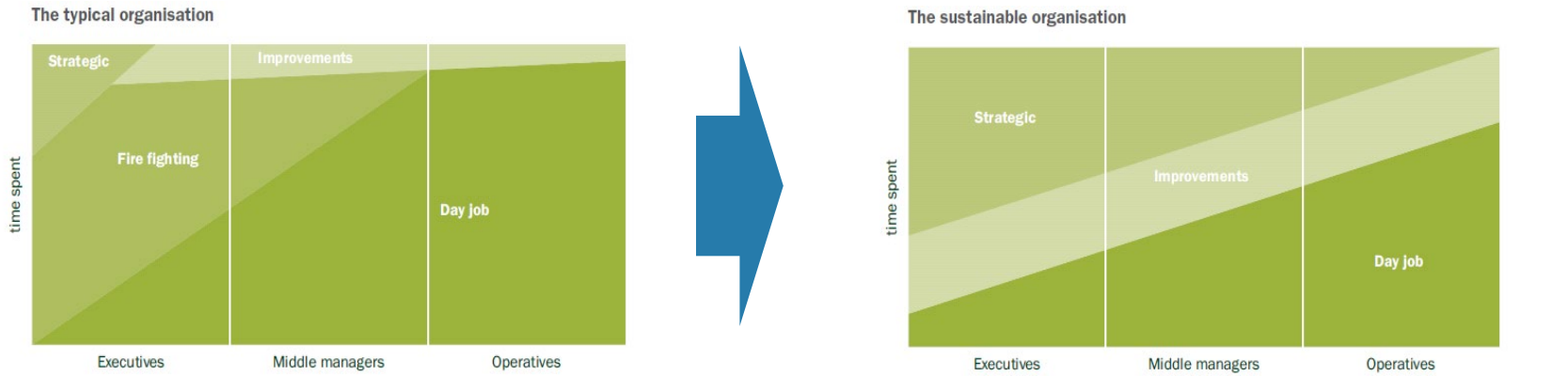
Vision

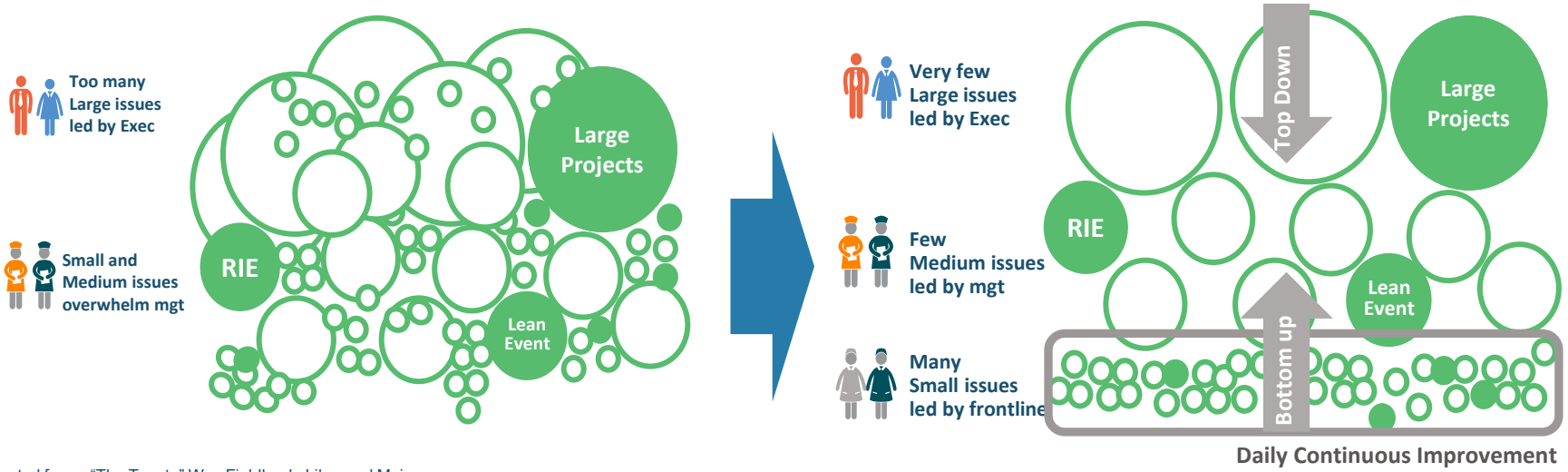
We will be the safest and most effective hospital characterized by innovation, compassion and respect.

Tie It All Together



Driving the Ownership of Improvement





Adapted from: "The Toyota" Way Fieldbook, Liker and Meier

Through leadership coaching, we seek to equip leaders to align direction, goals and objectives whilst empowering and enabling the frontline teams to own and drive improvement 'bottom up' to allow leaders and managers to coordinate larger changes.

Knowing How We're Doing

"What gets measured gets done. What gets measured and fed back gets done well. What gets rewarded gets repeated."

Quality Board

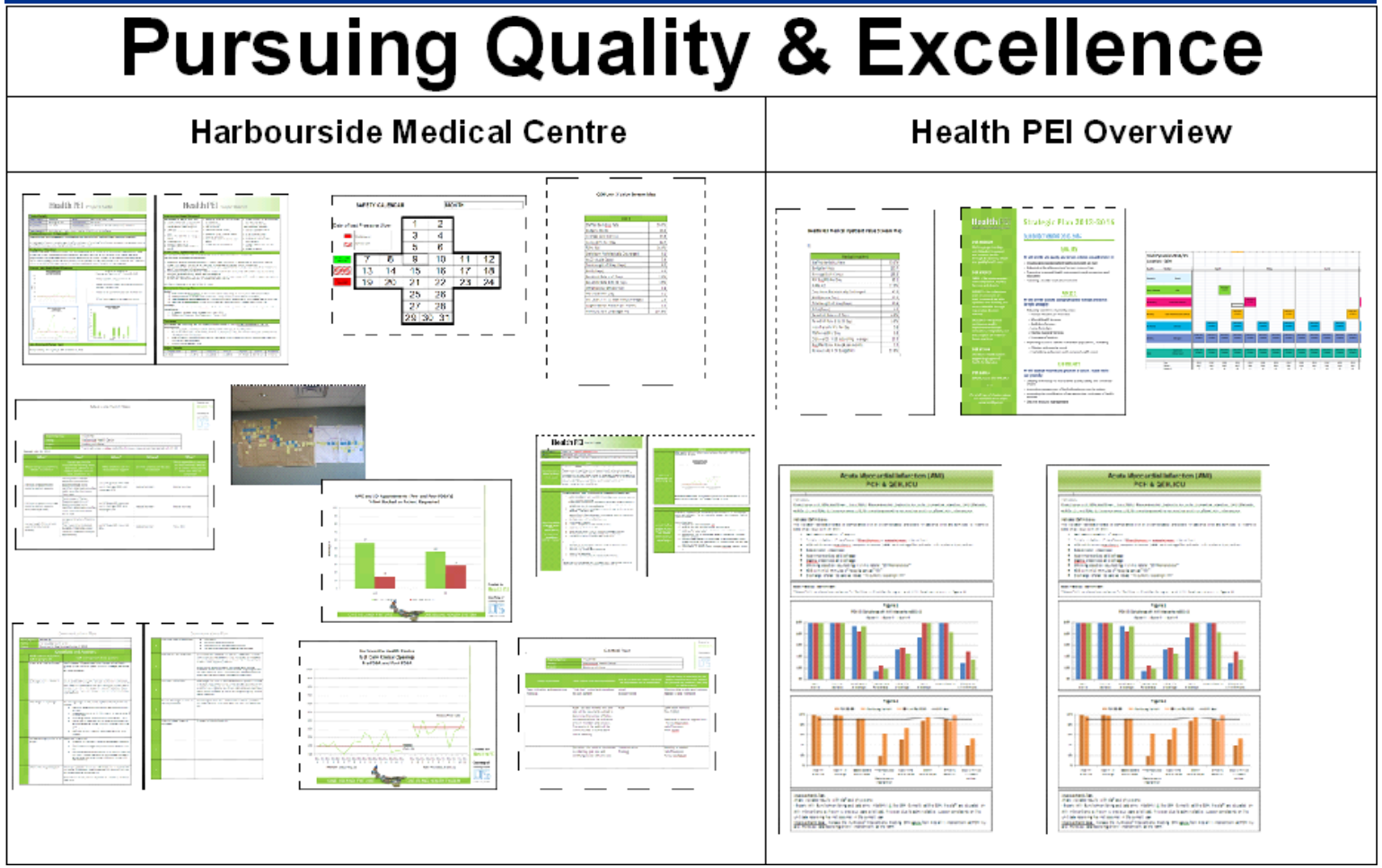
Quality Board Huddle

Lean Site Visit

"Not everything that counts can be counted, and not everything that can be counted counts."

Quality Board

Standard work document available to support Quality Board set up and maintenance



Quality Board Huddle Standard Work

Typical quality board huddle agenda

In conjunction with Quality Boards, Quality Huddles are a quick standup meeting for all staff in the area to communicate the performance of the area and to update on any Pursuing Quality and Excellence projects.

Who should participate? All Staff

Length of time 5- 10 min

How often? Quality Huddles should occur daily at the start of shift or set time agreed upon by staff

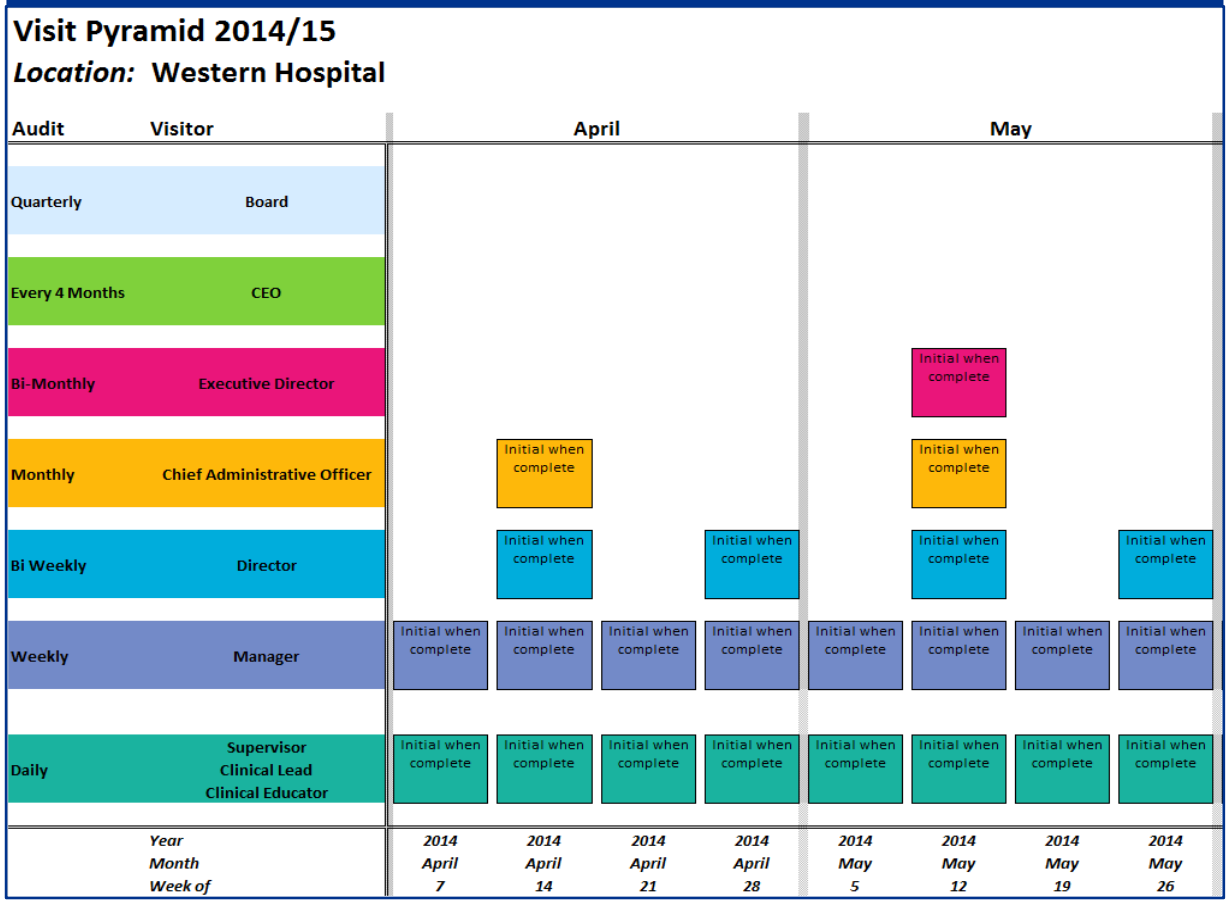
To conduct a Quality Huddle, all staff meets around the Quality Board and the Manger, Clinical Lead or Clinical Educator lead the discussion.

Huddle Agenda

1. Discuss and share the information necessary for the day in an exception reporting format
2. Discuss the safety cross
    - Discuss Safety Cross target and progress
    - Reasons the measures or targets are not met on either the measures or safety cross
3. Discuss any and all projects that are taking place. What is going on, who is doing what etc.
    - Overview of the A3 to highlight and updates and/or changes
    - Overview of the Communication Plan to highlight and updates and/or changes
    - Progress update on project, measures
    - Review current PDSA cycles and the action plans for each PDSA and update accordingly

The Visit Pyramid

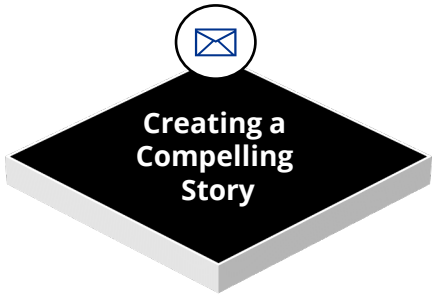
Typical Visit Pyramid



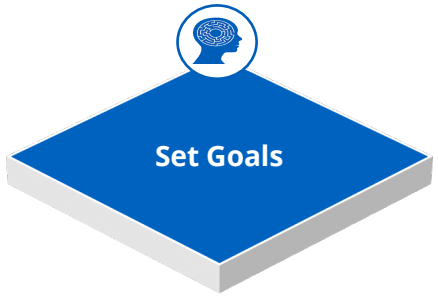
- ✓ The Visit Pyramid is a communication tool which illustrates which leaders will be visiting the unit/site/department during the month.
- ✓ This provides staff with an idea as to when leaders will be onsite.

When the leader is on site, they are there to take part in the regularly scheduled huddle. It creates an opportunity for all staff to have a conversation about HPEI's direction and how we as a team can achieve the provincial goals for a stronger health system.

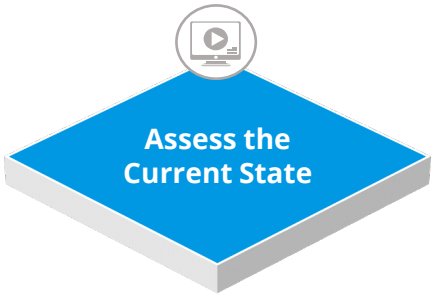
Components of a Lean Transformation



For an organization to transform it needs a reason



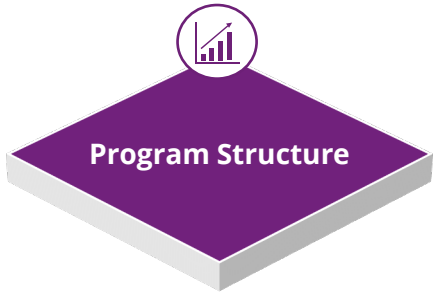
True North metrics must match the organizations strategy



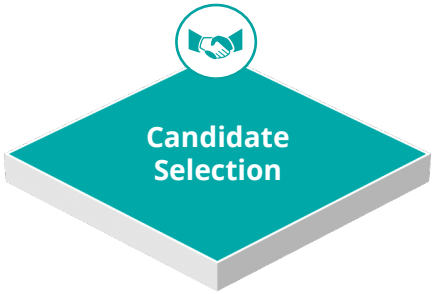
Each Lean transformation is its own journey, identify your organizations strengths and weaknesses

All the tools, templates, quality boards, procedures to support the transformation

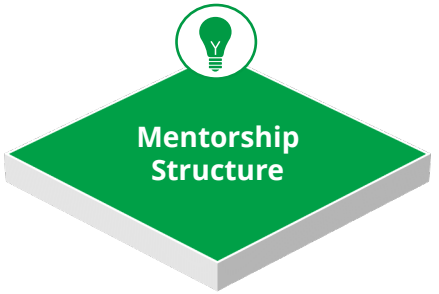
In house or external training to build Lean knowledge and capacity



Flowing from the strategy, True North, and current state assessment design a program map

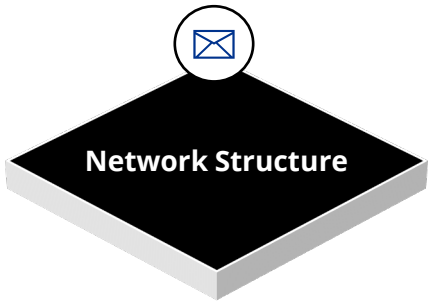


As with any training program having a structure selection process is important to identify the most appropriate candidates

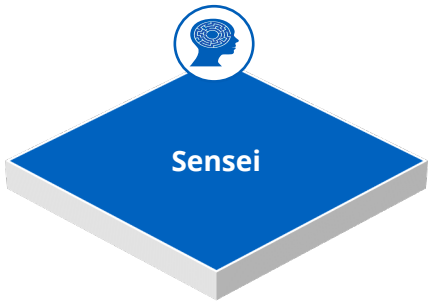


Any new trainee must have a mentor ship support system to support appropriate learning of their new skills

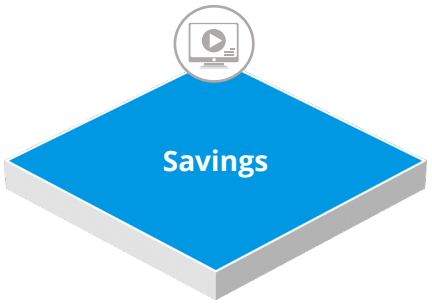
Components of a Lean Transformation



Learning from others is important, creating a network support system to facilitate sharing



Whether it is internal or external the organization should have support from someone that “has been there done that”



As part of the infrastructure a consistent way to measure savings to the system is important

An independent department that has the organization overall needs in mind

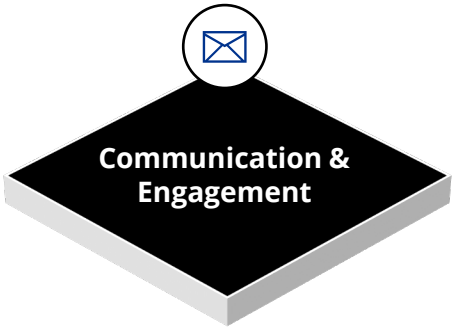
A standard method to identify the appropriate projects to work on

An extension of Lean infrastructure and project selection a consistent way to track projects

There should be a standard and schedule means of reporting Lean progress.

As a program develops and grows it should be evaluated against the original plan to ensure it is achieving the desired outcomes.

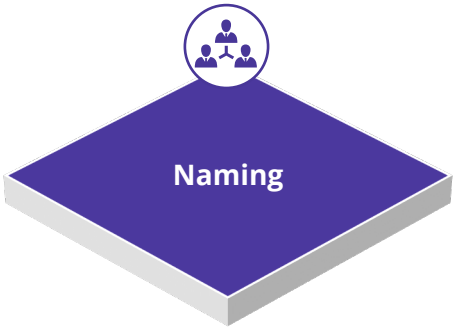
Components of a Lean Transformation



Within the organization a strategy must be in place to ensure information is widely spread and all staff engaged

Leading a Lean transformation requires knowledge. The leadership group should be trained in how to transform an organization

As part of the Leadership training standard work must be developed to lead the organization to achieve its goals



The program should have a name, an identity for the organization (not just “Lean”)

Leadership Sessions at a Glance

Case Study

THE POIRIER GROUP

Health PEI Overview

180,000 Population of PEI

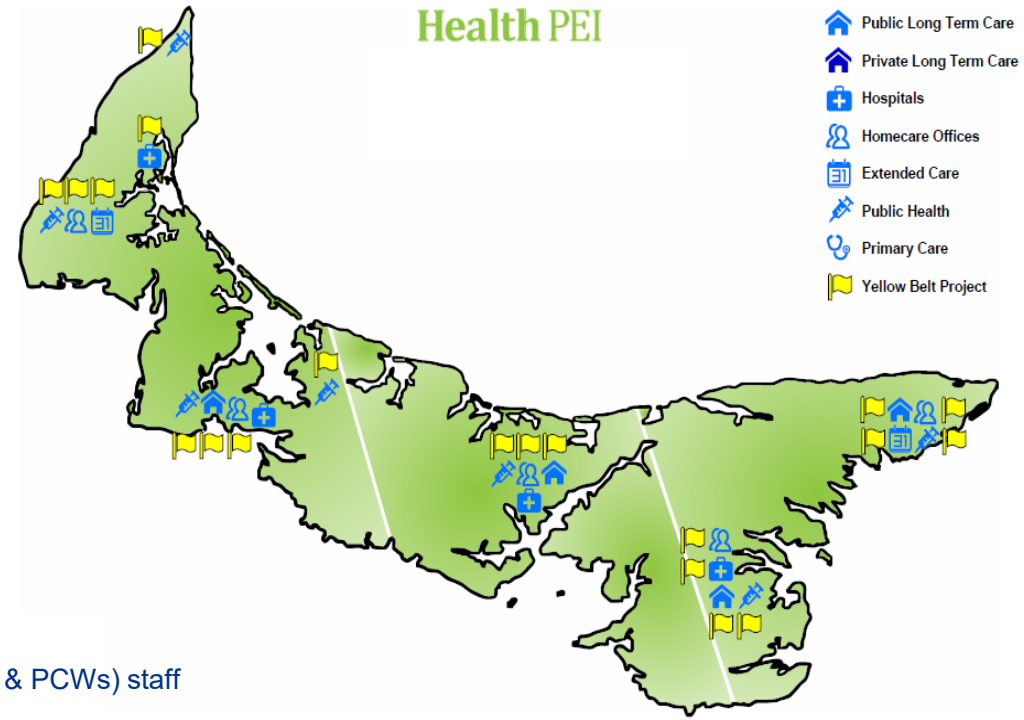
9 Long-term care public facilities

598 Long-term care beds

120 Family Physicians

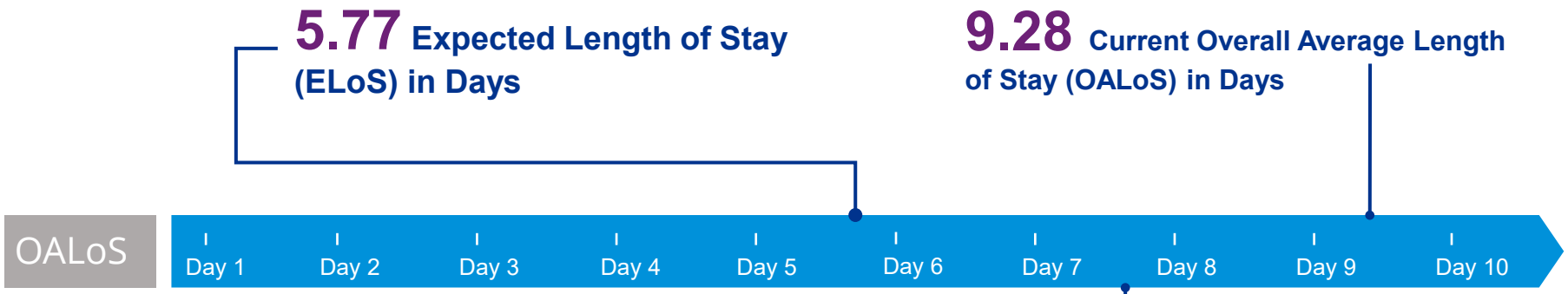
104 Specialists

1,725 Nursing (NPs, RNs, LPNs, RCWs & PCWs) staff



What Health PEI is Trying to Achieve

The goal is to **reduce** Overall Average Length of Stay (OALoS) by **50%**

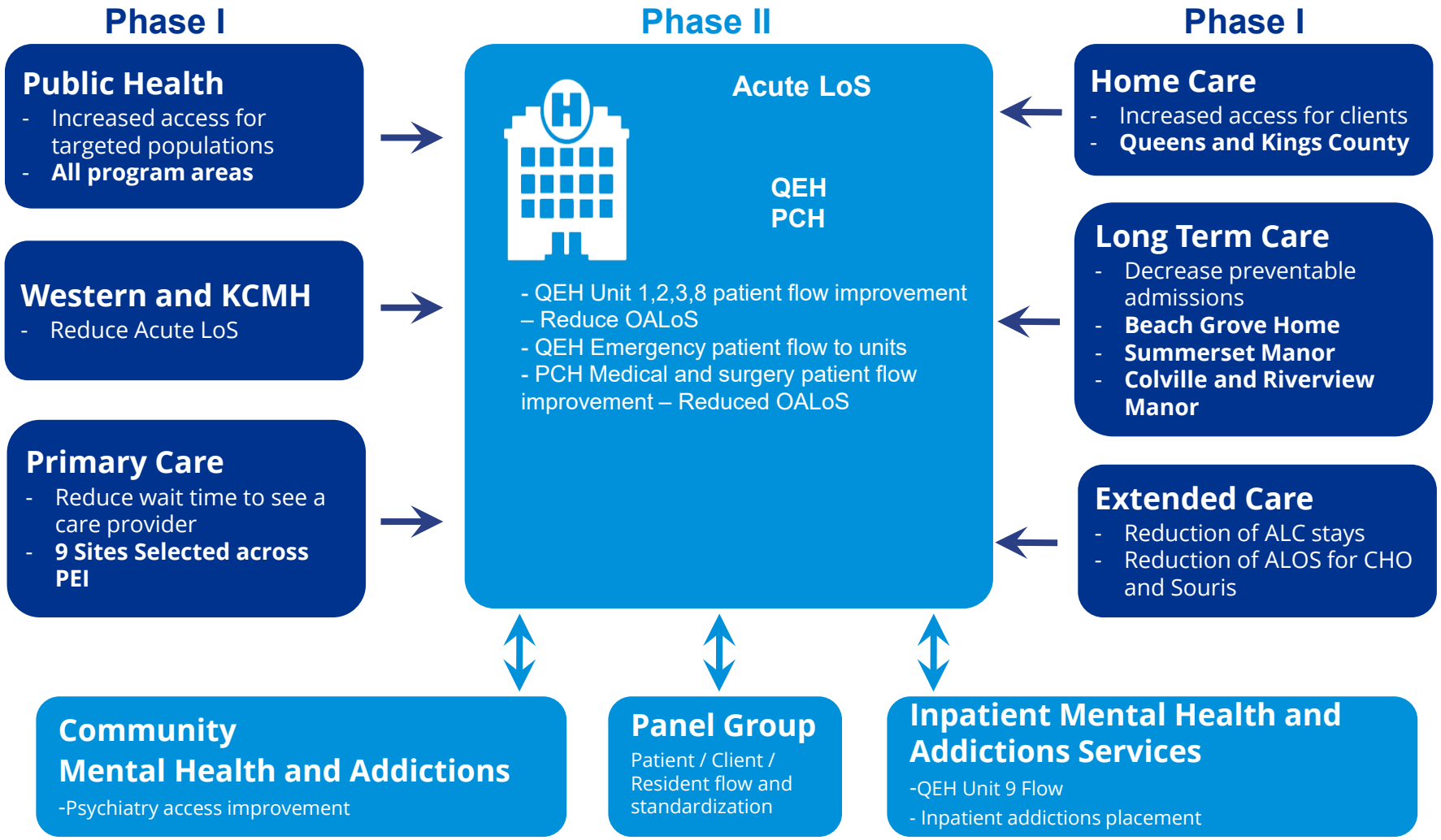


9.28 – 5.77 = 3.51

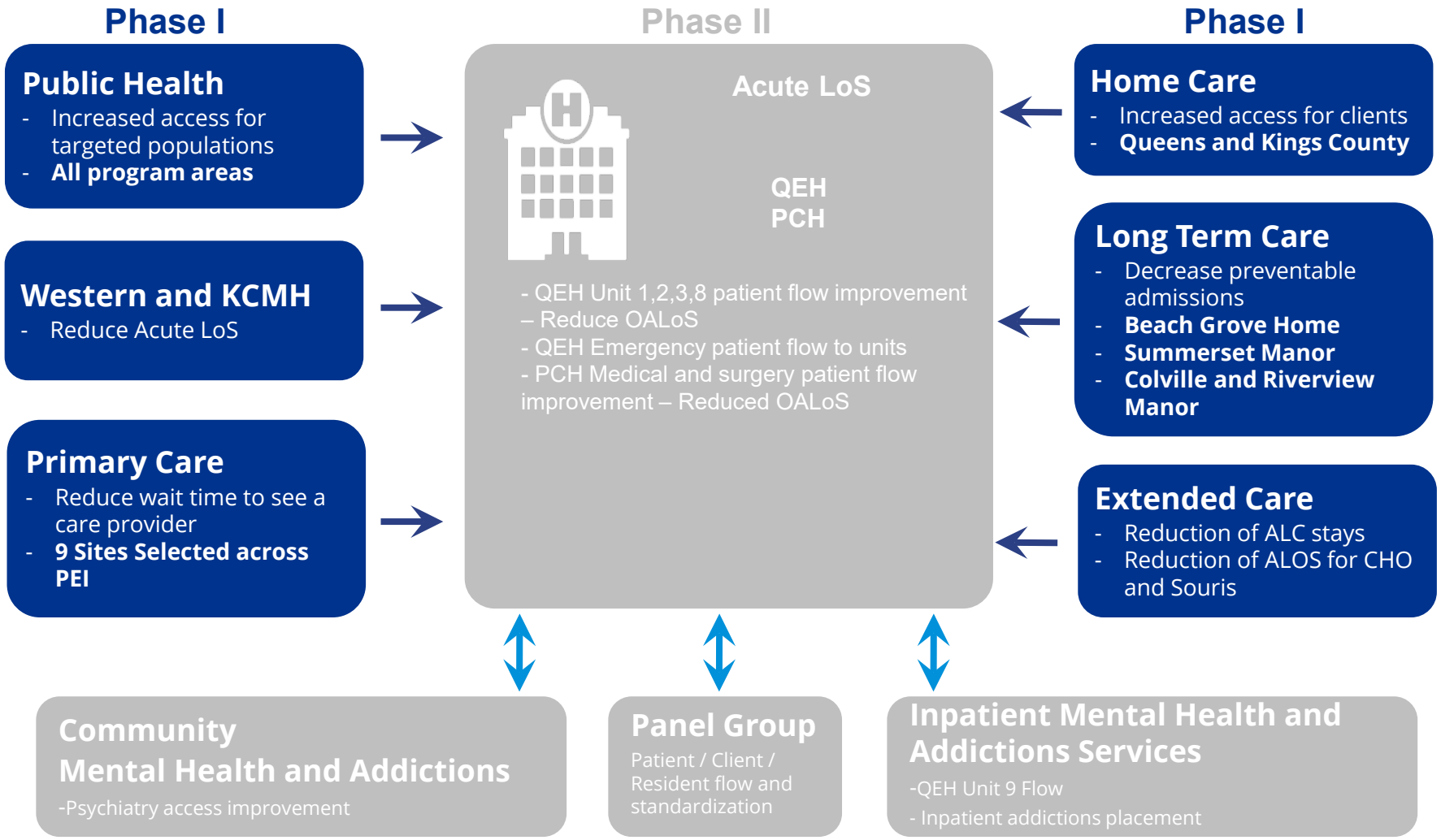
3.51 x 50% = 1.75 Days

New OALoS is 7.5 Days

Overview of Approach



Phase I


Phase I
Public Health
- Increased access for targeted populations
- All program areas
Western and KCMH
- Reduce Acute LoS
Primary Care
- Reduce wait time to see a care provider
- 9 Sites Selected across PEI
Phase II
Acute LoS
QEH
PCH
- QEH Unit 1,2,3,8 patient flow improvement – Reduce OALoS
- QEH Emergency patient flow to units
- PCH Medical and surgery patient flow improvement – Reduced OALoS
Phase I
Home Care
- Increased access for clients
- Queens and Kings County
Long Term Care
- Decrease preventable admissions
- Beach Grove Home
- Summerset Manor
- Colville and Riverview Manor
Extended Care
- Reduction of ALC stays
- Reduction of ALOS for CHO and Souris
Community
Mental Health and Addictions
-Psychiatry access improvement
Panel Group
Patient / Client / Resident flow and standardization
Inpatient Mental Health and Addictions Services
-QEH Unit 9 Flow
- Inpatient addictions placement

Approach

Long Term Care

Phase 1

- **Long Term Care**
- Western and KCMH
- Extended Care
- Primary Care
- Home Care
- Public Health
- Acute LoS

Phase 2

- Panel Group
- Community Mental Heal and Addiction
- Inpatient Mental Health and Addiction

Primary Goal

Identify root causes of preventable hospital admissions and implement actions to eliminate the causes. (this will typically be actions that also reduce staffing workloads)

Additional Outcome

Engage private homes in improvements

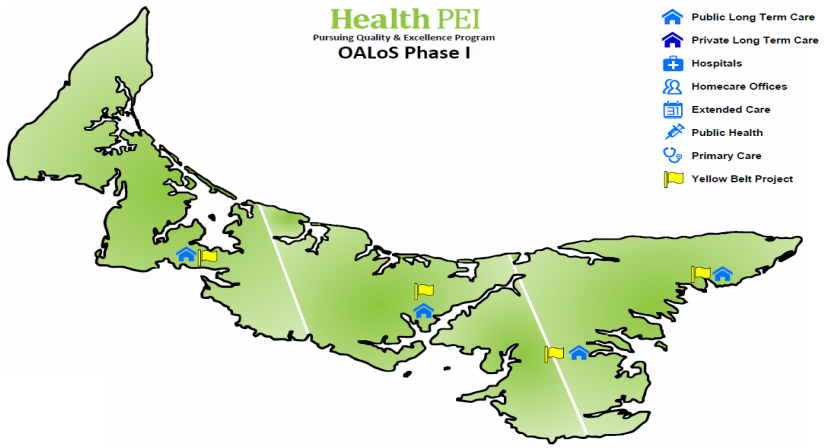
Long Term Care Overview

First Homes:

- Beach Grove Home
- Summerset Manor
- Colville and Riverview Manor

Private homes will be invited to have participants on the first home teams

Locations



Approach

Extended Care

Phase 1

- Long Term Care
- Western and KCMH
- **Extended Care**
- Primary Care
- Home Care
- Public Health
- Acute LoS

Phase 2

- Panel Group
- Community Mental Heal and Addiction
- Inpatient Mental Health and Addiction

Primary Goal

Implement Expected Date of Discharge (EDD) upon admission.

Additional Outcome

Reduce workload on nursing staff and support staff i.e. admission paperwork / actions.

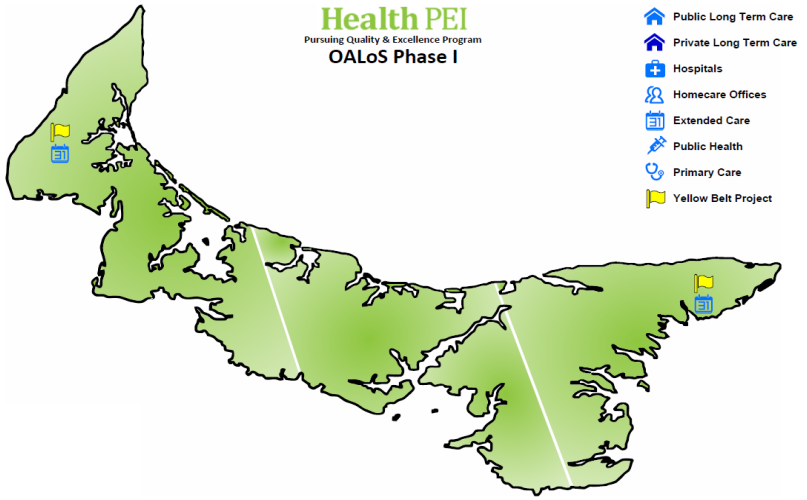
Overview

These two facilities will have a different focus of care, the Yellow Belts will work with the facilities to design clear efficient and effective processes.

Primary Focus

Patient discharge is delayed due to a lack of access to internal services and external processes for services throughout the week, weekends and holidays. There is a lack of understanding and collaboration between the patient, family and staff regarding preparation and planning for discharge home.

Locations



Primary Care

Phase 1

- Long Term Care
- Western and KCMH
- Extended Care
- **Primary Care**
- Home Care
- Public Health
- Acute LoS

Phase 2

- Panel Group
- Community Mental Heal and Addiction
- Inpatient Mental Health and Addiction

Primary Goal

Focus will be identifying panel size and reducing patient wait times to 7days (one week max wait)

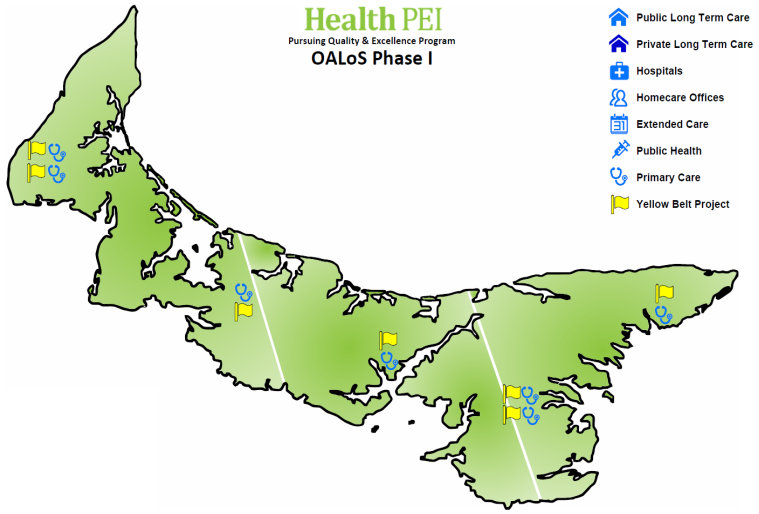
Additional Outcome

Validated metrics accepted and maintained by physicians within the initiative.

Overview

Western	Central	Eastern
Dr. Dickieson	Dr. Coady	Dr. Macleod
Dr. MacKean	Dr. Curtis	Dr. Henbest
Dr. MacNeill	Dr. Morais	Dr. Johnston

Locations



Home Care

Phase 1

- Long Term Care
- Western and KCMH
- Extended Care
- Primary Care
- **Home Care**
- Public Health
- Acute LoS

Phase 2

- Panel Group
- Community Mental Heal and Addiction
- Inpatient Mental Health and Addiction

Primary Goal

Identify potential capacity in high volume areas LT maintenance and supportive services.

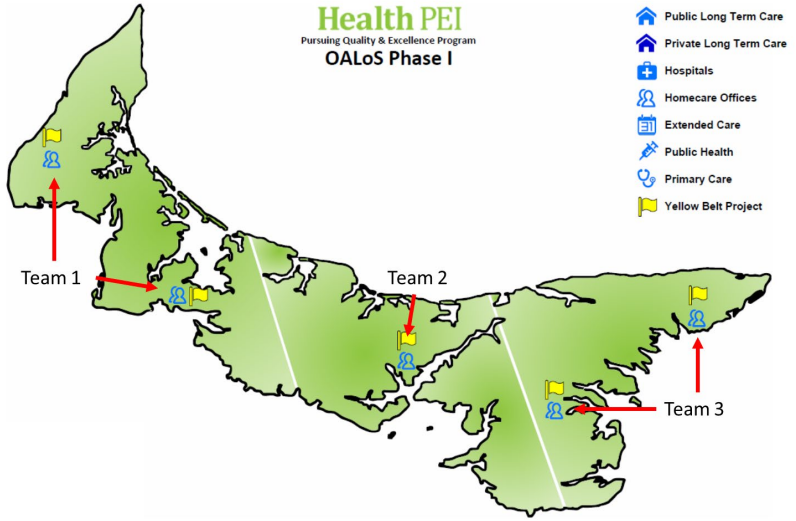
Additional Outcome

Help the department reduce disparity between counties and help the department with definitions of services. Develop better tracking of visits and hours to clients (without introducing administrative burden), create tools for Team Leaders/Managers to monitor travel and mileage claims.

Overview

Focus will be on opening capacity for homecare staff

Locations



Public Health

Phase 1

- Long Term Care
- Western and KCMH
- Extended Care
- Primary Care
- Home Care
- **Public Health**
- Acute LoS

Phase 2

- Panel Group
- Community Mental Heal and Addiction
- Inpatient Mental Health and Addiction

Primary Goal

Increase nursing capacity through reduction of duplicate activities and review of current policies

Additional Outcome

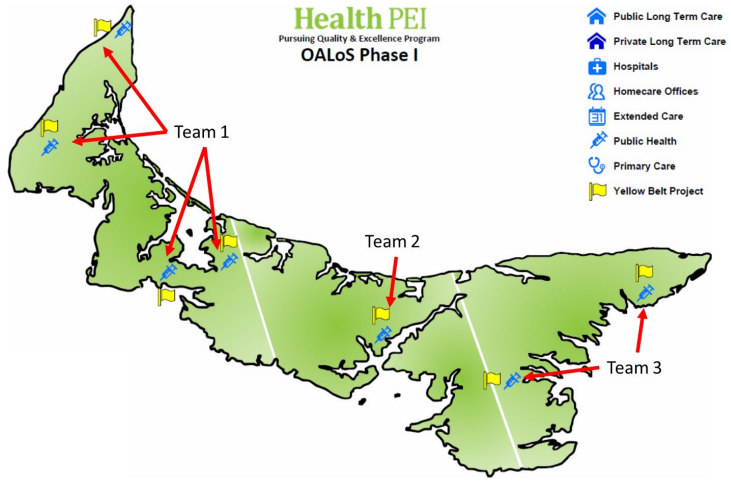
Increase high risk target population visits and immunizations. Increase primary care providers capacity through reduction of duplicate activities.

Overview

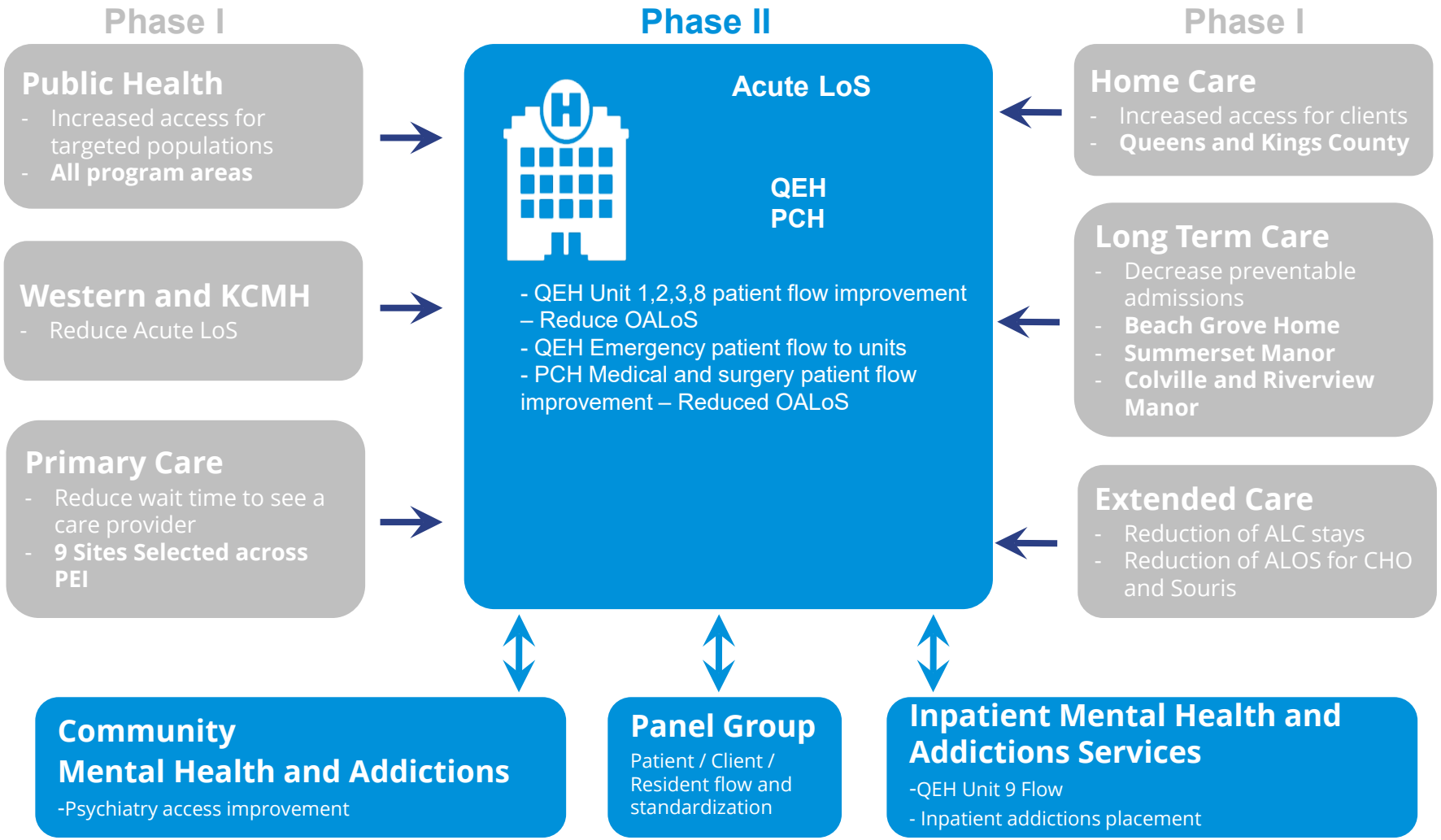
Focus will be on opening capacity for public health staff to increase population served

- Current high risk target population immunized is less than 50% (7,100 of 16,000 – identified by PH) this referred to seniors only in 2012/2013
- Duplicate visits with primary care provider and PH nurses for 2 – 18 month
- Review current home visit standards and identify improvements to properly utilize PHN staff i.e. define standards for repeat visits and offer weight recheck visits in the PHN office

Locations



Phase II


Phase I
Public Health
- Increased access for targeted populations
- All program areas
Western and KCMH
- Reduce Acute LoS
Primary Care
- Reduce wait time to see a care provider
- 9 Sites Selected across PEI
Phase II
Acute LoS
QEH
PCH
- QEH Unit 1,2,3,8 patient flow improvement – Reduce OALoS
- QEH Emergency patient flow to units
- PCH Medical and surgery patient flow improvement – Reduced OALoS
Phase I
Home Care
- Increased access for clients
- Queens and Kings County
Long Term Care
- Decrease preventable admissions
- Beach Grove Home
- Summerset Manor
- Colville and Riverview Manor
Extended Care
- Reduction of ALC stays
- Reduction of ALOS for CHO and Souris
Community Mental Health and Addictions
-Psychiatry access improvement
Panel Group
Patient / Client / Resident flow and standardization
Inpatient Mental Health and Addictions Services
-QEH Unit 9 Flow
- Inpatient addictions placement

Phase 2 Primary Goals

Phase 1

- Long Term Care
- Western and KCMH
- Extended Care
- Primary Care
- Home Care
- Public Health

Phase 2

- Acute LoS
- Panel Group
- Community Mental Heal and Addiction
- Inpatient Mental Health and Addiction

QUEEN ELIZABETH HOSPITAL QEH PRINCE EDWARD ISLAND

Primary Goal

Collaboratively work with units 1, 2,3 and 8 to reduce the patient OALoS by focusing on Emergency Department flow between the ED and inpatient units. This would reduce the burden on ED by lessening the ED hold workload.

PCH PRINCE COUNTY HOSPITAL

Primary Goal

Working collaboratively with the Medical and Surgery units focus on EDD to reduce the OALoS.

Medical Inpatient	
Staffed Beds Occ Rate	87.9%
Budgeted Beds	200.6
Average Daily Census	182.7
ALC Avg Pts Per Day	72.1
% Pts ALC	39.8%
Daily Num Pts Medically Discharged	46.7
ALOS (Acute Days)	13.6
Total Length of Stay (Days)	26.6
ELOS (Days)	3.6
Re-Admit Rate <= 7 Days	2.7%
Re-Admit Rate 8 to 28 Days	13.3%
Intra Transfer Pts Per Day	4.2
Pts Moved Per Day	0.7

Phase II Metrics

Primary Goal

This group is the key to coordinated patient / client / resident flow between facilities and services on PEI and ensure a timely transition. The project focus would be to work with all facilities / departments / agencies to create standard predictable work flow for the people they serve.

Method of Transfer
Hospital to Hospital transfer
Transferred to Restorative Care
Emergency - non admitted
Emergency - Admitted straight forward cases
Emergency - Admitted complicated cases

Metrics Used by Panel Group

Primary Goal

Using the Advanced Access model; currently used in primary care, identify the physician champions to work with to reduce wait times for Psychiatry.

Primary Goal

Focusing on Mental Health inpatients in unit 9 reduce their LOS by focusing on EDD. Additionally identify the Mental Health and Addiction patients that are in other units and focus on the barriers to patient / client flow.

Lean Transformation Results

Success

- ✓ ACA being implemented independently
- ✓ Have created required capacity of YB/GB/BB
- ✓ 200 projects to date
- ✓ QBH's being completed by ELT
- ✓ Comprehensive project distribution
- ✓ Strong infrastructure
- ✓ Many people engaged from tip to tip
- ✓ Physician Engagement
- ✓ Value Stream map

Opportunities

- ✓ Leadership Huddles
- ✓ Senior Leadership mentoring of QBH's
- ✓ Quality Boards put up and used
- ✓ Spread / projects from Phase I
- ✓ Spread / projects from Phase II
- ✓ Ensure value is maintained for energy inputted

Investments

- ✓ 56 projects with average participants of 10
- ✓ Online training for 76 staff $
- ✓ Training days for Yellow Belts
- ✓ Leadership training
- ✓ Additional costs for venues and supplies
- ✓ Consulting contracts
- ✓ $1,200,000 invested

Thank You & Questions

THE POIRIER GROUP

Special Thanks to Dale and David

INSTITUTE OF INDUSTRIAL & SYSTEMS ENGINEERS
Solving complex & critical problems of the world.

Thanks for taking time from a busy schedule to contribute, pay forward with your insights, experiences, perspectives, points of view and wisdom.

Dale Shattenkirk
Partner and Head of Healthcare and HealthSciences
The Poirier Group

David Poirier
CEO
The Poirier Group

Quick Closer Question:

What are the key takeaways you want our attendees to leave with today?

Membership has its Privileges....
Access to our great Magazine

July 2024
Transformational Improvement in Healthcare

March 2024
Leading Transformational Change

Leading, managing time and change in the 2020s

Creating ISE change masters begins with developing profound knowledge

By D. Scott Sink

IISE has been sponsoring a Global Performance Excellence Webinar Series (*iise.org/PExcellencewebinars*) for the past four years. Recently we have been doing miniseries focused on specific topics: Resilience in the '20s, Business Process Management, Integrated LeanSigma, Operational Analytics and most recently Artificial Intelligence (AI).

At the completion of each topical miniseries, we have provided a capstone article in *ISE*. This feature caps our most recent Change Leadership and Management miniseries started in December.

In 1979, William Morris wrote a book titled *Implementation Strategies for Industrial Engineers*. He was my Ph.D. adviser and his thoughts, research and work had a profound impact on me as I finished my doctorate at Ohio State. For the 40-plus years since, time and change have been more than key words in

38 ISE Magazine | www.iise.org/ISEmagazine

SCM 4.0
April 2023

Aug 2023
Op Analytics

Managing through VUCA
Dec 2022

Operational analytics – The ISE way

Webinar series lays foundation for data processing methods

By D. Scott Sink with Jared Frederici

Industrial engineering has evolved significantly over the past 30-plus years, certainly over the 75 years since IISE, our professional society, was formed in Columbus, Ohio. Measurement and analysis leading to improvement has been the foundation of our profession – time studies on laying foundations and bricks as you recall was an early study by Frank Gilbreth and Frederick Taylor.

Our ability to capture, store, process and portray data has increased exponentially over time, specifically in the last 20 years. And, with the maturation of artificial intelligence (AI), machine learning, automated data processing and conversion of data to information, decision support and action-taking are amplified and accelerated. The latencies that slow down benefits realization on "innovation" can be minimized (see Figure 1).

In June and July, our IISE Global Performance Excellence Webinar Program delivered a series of four webinars that laid a foundation for ISEs and others to better understand the subfield of operational analytics within ISE.

This article is an executive summary from that series of webinars. (D01, 201, 301 and a 401-Best Practice Case Study from University Health Network in Toronto; use this link to access the recordings and presentations: *iise.org/details.aspx?id=47039&analytics*.) It is also an overview of what is taught, in more detail, in ISE's Operational Analytics Certification Course (*iinfr.iise.org/ooa*).

What follows is an executive summary from that miniseries of webinars on operational analytics.

Analytics is a huge and growing field that has been fueled by technological advances and enablement. At the recent ISE Annual Conference in New Orleans, keynote speaker Judy Jim, professor of industrial and operations engineering at the University of Michigan, discussed the interface of data science and quality engineering. I was exposed to the concept of data fusion. I hadn't thought about the continuum of types of data

Figure 1

OA done right

Operational analytics minimizes latencies and enhances the ability to drive more rapid benefits realization.

Access the PE webinars

To take advantage of IISE's on-demand library of webinars and do a deeper dive on recent offerings focusing on operational analytics, visit *iise.org/PExcellencewebinars*.

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Photo by Getty Images

Industry 4.0/5.0, BPM 4.0/5.0 and AI: Integrated systems engineering perspectives

Webinar series explores impact of technology innovation

By D. Scott Sink

Dec 2023
ISE's Leveraging AI

IISE Global Performance Excellence on-demand Webinar Library

100+ Timely Webinars on a full spectrum of Performance Excellence topics with an Integrated Systems Engineering Perspective and Point of View.

Available on-demand for IISE members.

Clustered into packages of webinars to provide tailored **Certificate opportunities** for our Members.

1--Operational Excellence
2--Integrated LeanSigma
3--Operational Analytics
4--Change Leadership & Management

Strengthen your Resume and Linkedin Page!!

Industry and Service Systems 4.0

Explore the major "movements" and hear thought leaders in Industry 4.0, Healthcare 4.0, Supply Chain 4.0, Service Systems 4.0, more.

- Healthcare Performance Excellence Series: Best Practice Case Study in Hoshin Kanri and Lean
- Healthcare Performance Excellence Series: Integrated Systems Engineering Perspectives and Points of View
- Best Known Methods for Integrated Systems Engineering
- AI 501: Migration Strategies
- AI 401: CISE Panel Perspectives and Points of View on Industry 4.0 and AI
- AI 301: AI for Smart-Integrated Automation
- AI 201: Threats, Failure Modes, Watch-Outs, Challenges, and Obstacles
- AI 101: Sensemaking of AI and ISE Perspective
- Best Practices: Outstanding Innovation in Service Systems Engineering
- Supply Chain Management 4.0 in Periods of Disruption
- Supply Chain Leadership Insights for the '20s
- Business Process Management 4.0/5.0: Visions and Migration Strategies Perspectives and Points of View
- Business Process Management 4.0/5.0: Perspectives and Points of View to Migrate to Higher Levels of Operational Excellence
- Integrated Systems Engineering: Thought Leader Perspectives and Points of View
- Supply Chain 4.0: Cold Supply Management-Vaccine Case Focus
- Using 'Control Towers' to Integrate your Digital Supply Network
- Supply Chain 4.0: Benchmarking to latest Innovations in Logistics and Supply Chain Leadership and Management
- Service Systems Engineering Best Practice Virtual Benchmarking
- Service Systems Engineering Outstanding Innovation
- The Industry Practitioner Track Orlando 2019: Sneak Preview
- Smart Supply Chains and Industry 4.0
- The Impact of Industry 4.0 on Business Models
- The ISE Role in Service Systems Engineering: Service 4.0 Overview, Digital Transformation in Healthcare and Enterprise Shared Service
- Whetting your Appetite ("Aperitivo"): All you Need to Know about Industry 4.0

For the Change Industry and Service Systems 4.0 and Healthcare Performance Excellence webinars in our mini-series…

IISE Perf Excellence Webinars On-Demand Link

Upcoming Offerings for you.

See you in Montreal?

18 May—AI Symposium [REGISTER AI Symposium]

19 May—CISE Performance Excellence Track/Workshops

[REGISTER CISE Performance Excellence Track/Workshops]

Webinars Resume end of May and early June (see next slide)

Upcoming Offerings for you.

Upcoming not scheduled:

- *4-5 Focused Webinars in our Healthcare Performance Excellence Mini-Series*
  - *Creating improved Flow (end2end value stream improvement in Healthcare facilities)*
  - *End2End Value Stream Improvement for Episodic Health Care Events*

- *7-habits of highly effective Young Professionals (2024 version)*
- *The Spectrum of Performance/Process Improvement Strategies*
- *Foundations and Roadmaps for becoming an ISE Change Master*
- *Foundations and Methods for becoming Skilled at Operational Analytics*
- *Final Four Capstone Senior Design Project Webinar Presentations*

IISE Annual Conference—Montreal!!

- CISE Performance Excellence Track (Sunday)
  - Operational Analytics
  - Transformational Change Leadership & Management
  - Integrated Systems Engineering
  - Service Systems Engineering
  - Best of Best ISE Capstone Sr. Design Project Showcase and Competition
- ISE Capstone Showcase and Leadership and Student Mixer (5:00-5:30 Sunday)
  - We'll have the 'Sweet '16'' in both categories for you to view, that's a lot of fun to meet all the students on the teams and understand their great work.
  - That Showcase will occur in the context of the larger leadership and student mixer, so it's networking at it's best.
- Best Practices in Service Systems Engineering Finalists (Sunday am)
- Final Four of the Capstone Competition (Monday am)
- IISE Honors and Awards Events (Sunday, Monday, Tues Keynotes)

- Get altitude on Life and your Career and your Job
- Grow your professional network
- Experience 'Old Montreal'
- Challenge yourself, personal and professional development
- Get up to speed on Op Analytics, Analytics
- Get charged up about Transformational Change Leadership
- And, much more

AI/Industry-Services 4.0 Symposium

A unique opportunity to engage in a one-day, pre-conference symposium and hear from leading experts in the diverse field of AI.

A chance to meet many of our Council on Industrial and Systems Engineering Leaders/Members.

Networking and Professional Development Opportunity.

Look for registration information on the IISE Website soon.

Artificial Intelligence Symposium
Saturday May 18, 2024
Proposed Schedule

9:00 AM – 10:15 AM: Opening & Keynotes from Dr. Joé T. Martineau & Dr. Foutse Khomh

- High "Altitude" Overview
- Definitions/Understanding
- Generative AI
- Active Q&A

10:30 AM – 12:00 PM: Panel Session (CISE members)

- Umbrella panel
- How does AI fit within a philosophical structure (e.g., Industry 4.0)?
- Relationship with smart automation
- "How is AI instrumental in delivering results?"

12:00 pm – 1:30 PM: Lunch

1:30 PM – 3:00 PM: "Hot Button" Topics

- AI Ethics/Legal? AI Ethics/Legal?
- Software Integration/Cybersecurity

3:15 PM – 4:15 PM: Closing Session

5:00 PM: Dinner on their own

Join other conference attendees or they can coordinate an AIS signup.

IISE Artificial Intelligence Symposium 2024

IISE ANNUAL CONFERENCE & EXPO 2024

Reserve Your Seat Today

Come Early and Add the Pre-conference Symposium to Your Registration

SATURDAY, MAY 18, 2024
9 AM - 4:15 PM
Montreal Convention Centré, Montreal Canada

FEATURED SPEAKERS

OLIVIER BLAIS
Co-founder and VP of Decision Science at Moov AI, Chair of the Canadian delegation for artificial intelligence of the ISO/IEC

FOUTSE KHOMH, PH.D.
Canadian Institute for Advanced Research AI Chair at Mila and a professor , Polytechnique Montréal.

JOÉ T. MARTINEAU, PH.D.
Assistant professor in ethical management at HEC Montreal

ABOUT THE SYMPOSIUM

9 a.m. — Opening & Keynote
Featuring: Dr. Joé T. Martineau & Dr. Foutse Khomh
This event begins with a focus on ethics and risks as well as industry possibilities and reduction to practice with AI

10:30 a.m. — Panel Discussion with Q& A
Featuring: Members of the Council on Industrial and Systems Engineering
Industry leaders and Operational Excellence/ISE deliver a panel for a presentation focused on how AI deployment is playing out in healthcare, retail, manufacturing, and logistics.

12 p.m. — Lunch on your own

1:30 p.m. — "Hot Button" Topics
A panel of industry experts will lead small breakout sessions covering topics ranging from ethics to cybersecurity.

3:15 p.m. — Closing Session
Featuring: Olivier Blais
Dynamic recap that also engages participants to share their insights and takeaways.

Come early and add the pre-conference symposium to your registration

www.iise.org/Annual/details.aspx?id=54690