

Enabling change across a whole system

Session A2
11.00 – 12.15

*“Tomorrow belongs to those
who can hear it coming”*
David Bowie
Heroes



Today's session is part of the "Change" theme at the International Forum

The "Change Rebels Salon" each day

~~16:45-17:45 M14 today~~

12.30- 1300 L5 Thursday Capital Suite 14-16

12.30- 1300 L12 Friday Capital Suite 6 & 13

Thursday

~~1100-1215: Nuka – 25 years of community driven transformation: remarkable clinical, cost, and happiness achievements A1~~

1100-1215: Enabling change across a whole system A2

1315-1430: Breaking the rules and co-developing better care systems from the inside out B2

1500-1600: Creating a culture that fosters creativity and new approaches to quality improvement C2

Friday

1100-1215: Change happens one person at a time D2

1315-1430: Creating change together E2

1500-1600: The future of change F2

Recurring (& interconnected) themes in approaches to making large scale change happen

Moving together towards a shared direction

Co-producing change: "with" & "by", not "to" or "for"

Setting up systems for experimental learning & unlearning: "doing the right next thing"

Changing yourself as a resource for change

Developing leaders everywhere: sustainable systems of distributed leadership

Creating the conditions for emergent change

Shaping networks to shape opinions

Building power: a spectrum of allies AND working through pillars of formal power

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HEALTH
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COUNCIL



Moving from concept to reality

learning how to support emergence



Adapting improvement education to context: small-scale projects or diverse and reflective portfolios?

Doctoral Research in Pre-registration Nurse Education

QI EDUCATION IS COMPLEX

MEASURE LEARNER ENGAGEMENT

CREATE DIVERSE QI ACTIVITIES



Lorraine Armstrong
Lecturer in Nursing
University of Stirling



@LarmstrongQ



**Adapting
improvement
education to context:
small-scale projects
or diverse and
reflective portfolios?**

Lorraine Armstrong
Professor Fiona Harris
Professor Ashley Shepherd



Declaration of interest

**University of Stirling have funded the following PhD research study and conference attendance
No payment has been received to talk or provide advice**



Quality Improvement
education is a complex
intervention



Measure engagement
as a QI educational
outcome



Diverse and reflective
longitudinal QI learning
activities



Platform 6 Improving safety and quality of care

Registered nurses make a key contribution to the continuous monitoring and quality improvement of care and treatment in order to enhance health outcomes and people's experience of nursing and related care. They assess risks to safety or experience and take appropriate action to manage those, putting the best interests, needs and preferences of people first.



SMALL-SCALE PROJECTS

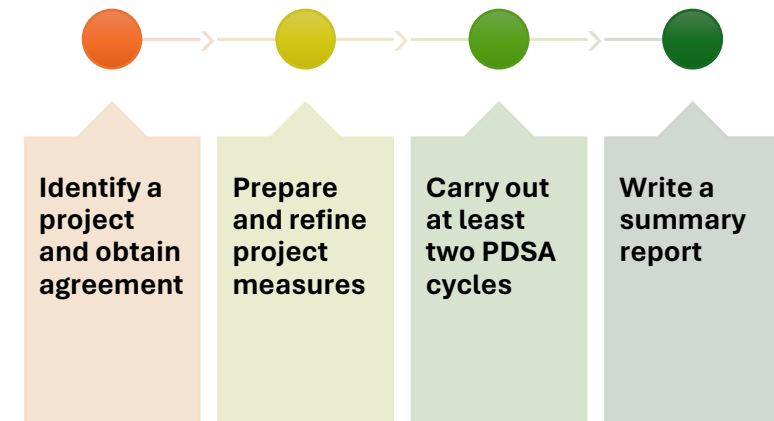
2013-2019

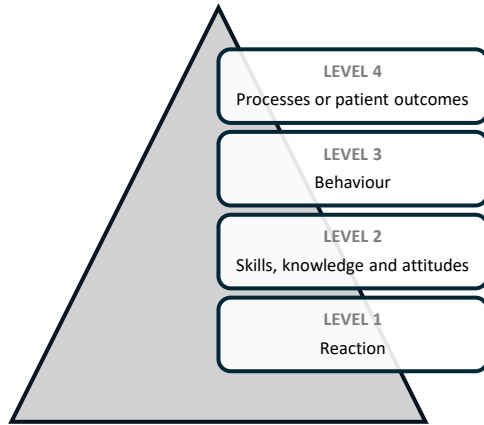
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B. James et al. / Nurse Education in Practice 19 (2016) 70–78

Table 1
Quality improvement curriculum content.

Semester	IHI open school courses	Teaching
1.		Person/Patient Centred Care Introduction to the concept of quality in healthcare Example of quality initiatives in action – Scottish Patient Safety Programme QI Questions in MCQ Exam Evidence-based learning
2.	QI101 Fundamentals of Improvement PS100 Introduction to Patient Safety PS101 Fundamentals of Patient Safety	Evidence informed practice Quality Improvement Model
3.	PS102 Human Factors and Safety PS103 Teamwork and Communication QI102 The Model for Improvement: Your Engine for Change	Improvement and Safety QI Questions in MCQ Exam Practice-based Assignment – Care Partnerships Care Study
4.	QI103 Measuring for Improvement QI104 Putting it All Together: How QI Works in Real Health Care Settings QI105 The Human Side of QI	Tools for Quality Improvement
5.	QI106 Level 100 Tools	Decision-making Evidence for Practice Resources for Practicum online
6.	PS104 Root Cause and System Analysis PS105 Communicating with Patients after Adverse Event	Podcasts × 2 Introduction to Practicum Practicum: Essential Skills Workshop Preparing to work at SCQF level 10 Practicum Assignment Q&A Resilience Workshop
7.	PS106 Introduction to the Culture of Safety L101 So You Want to Be a Leader in Health Care	Collaborative Improvement Project (Practicum) Practice events Online/email/telephone/interview/workshop support Reading week
8.		

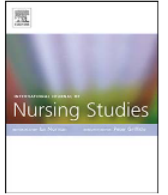




Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

International Journal of Nursing Studies

journal homepage: www.elsevier.com/locate/ijns



An evaluation of approaches used to teach quality improvement to pre-registration healthcare professionals: An integrative review



Lorraine Armstrong^{a,*}, Ashley Shepherd^a, Fiona Harris^b



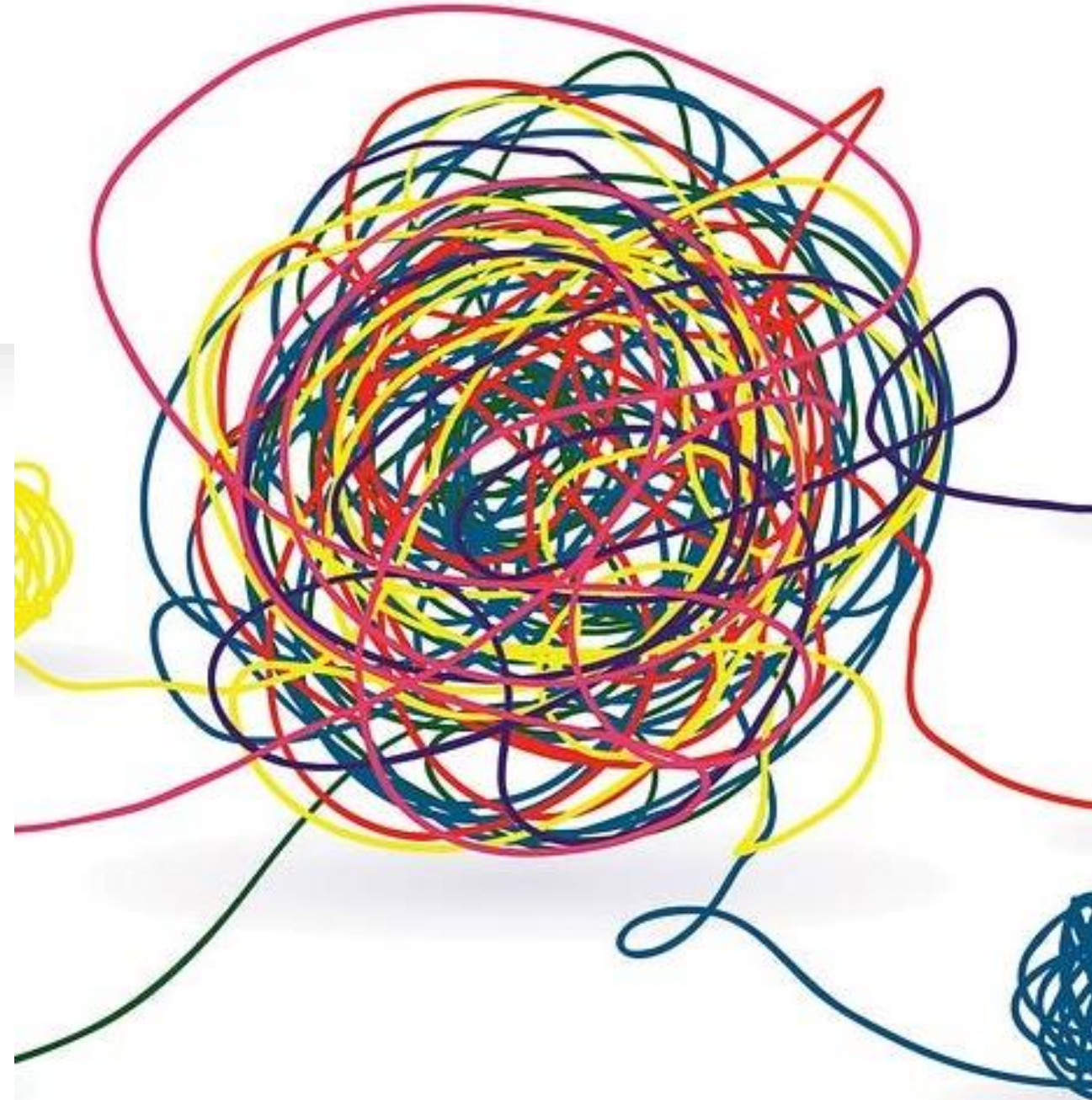
- Kirkpatrick Evaluation Model (2009) for educational outcomes
- Experiential learning most common teaching approach
- Learning situated in practice lacked contextual description
- QI related behaviour not explored in any study
- Pre/post surveys limits understanding



QI education is a complex intervention!

Multiple components at different system levels:

- faculty
- curriculum
- learner
- stakeholders
- QI endeavour
- practice setting
- organisational culture
- interprofessional teams
- students' own motivations





Understanding the influence of context and practitioners' improvement behaviours is a fundamental principle of improvement science (Bates et al. 2017)

- What contextual factors influence the QI learning experiences of third year student nurses in the practice setting?
- How do these contextual factors interplay throughout the QI learning process and across different practice settings?
- How do students experience QI as Registered Nurses?

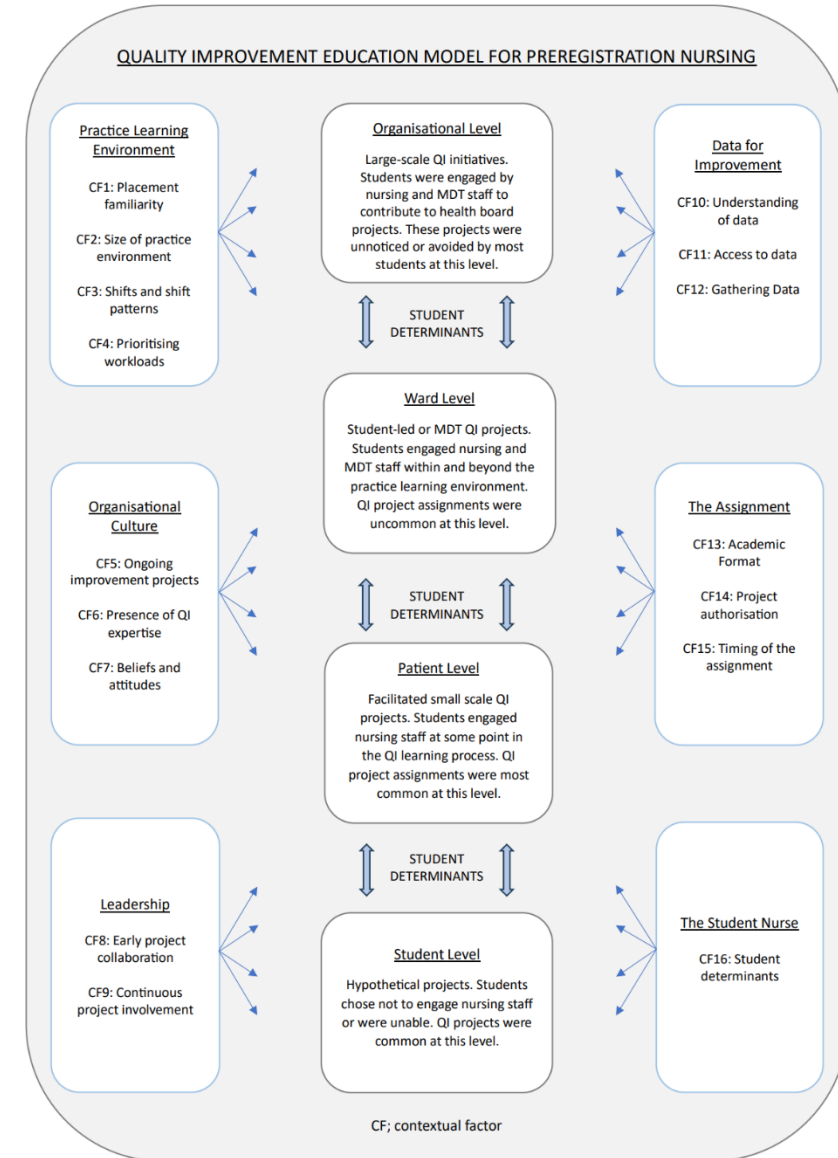
Ethnography | acute setting | 8 weeks | 9 wards | 30 students | 8hrs observed | documentary analysis

5 focus groups | 10 interviews | 4 in-depth case studies | cross-case analysis | 10 follow up longitudinal interviews



Summary of findings

- Sixteen contextual factors – six themes
- Contextual factors experienced in all settings (positive/negative)
- Combination of factors influenced level of QI engagement
- Positive QI experiences correlated with sustained engagement





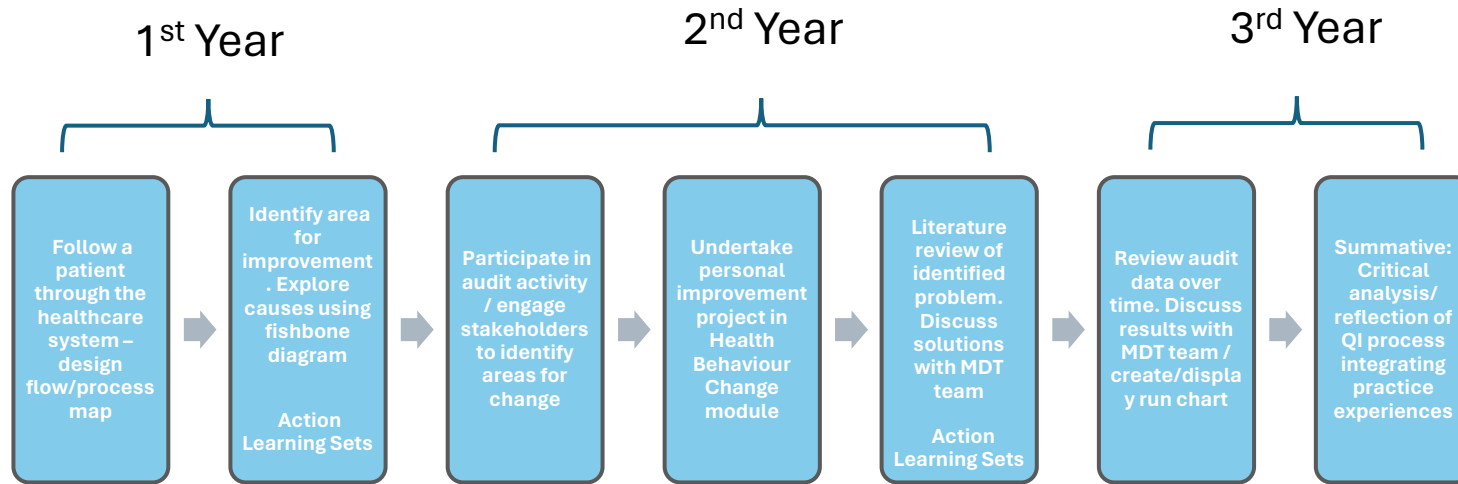
Diverse and reflective
longitudinal QI learning
activities!

- Small-scale improvement projects create inequity of QI learning
- Student engagement in QI is influenced by one practice setting
- Exposure to diversity of practice contexts could increase engagement
- Regular and timely reflective discussion about contextual factors

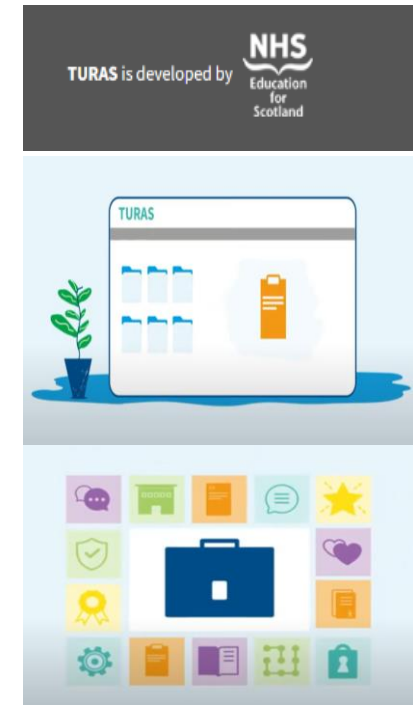
LONGITUDINAL / DIVERSE PORTFOLIOS

2020-CURRENT


TURAS | Nursing and Midwifery Portfolio

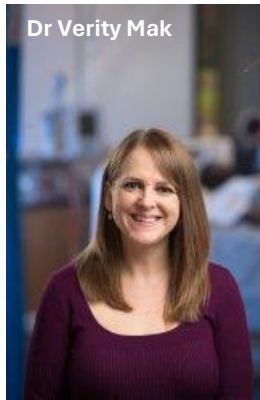


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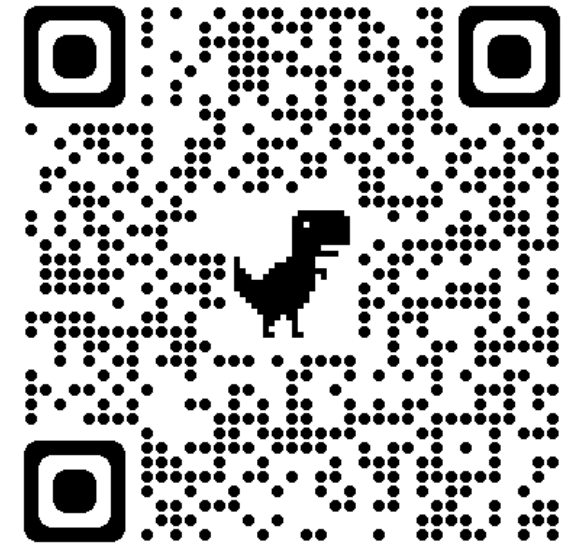


BMJ Open How, and under what contexts, do academic–practice partnerships collaborate to implement healthcare improvement education into preregistration nursing curriculums: a realist review protocol

Lorraine Armstrong ¹, Chris Moir,² Peta Taylor³



UNIVERSITY of STIRLING





Quality Improvement
education is a complex
intervention



Measure engagement
as a QI educational
outcome



Reflect upon
longitudinal QI port-
folios which offer
diversity

International Forum on Quality and Safety



Expert Opinion

In your role, how will you influence the development of QI activities which learners can engage with as part of everyday practice, and what challenges or benefits might be predicted?

Local Is Global: Advancing Healthcare Delivery and Quality on the International Stage

Jonathan Wetzel

Executive Director, Mount Sinai International

Mount Sinai Health System (New York, New York, USA)

Tao Xu, MD

Medical Director, Mount Sinai International

Associate Professor, Icahn School of Medicine at Mount Sinai

Mount Sinai Health System (New York, New York, USA)



**Mount
Sinai**

Pop Quiz!

Guess the country where each food item is offered:



Crepes



Bulgogi Burger



**Grilled Halloumi
Cheese Muffin**



McFalafel Wrap



Chicken McDo



McAllo Tikki

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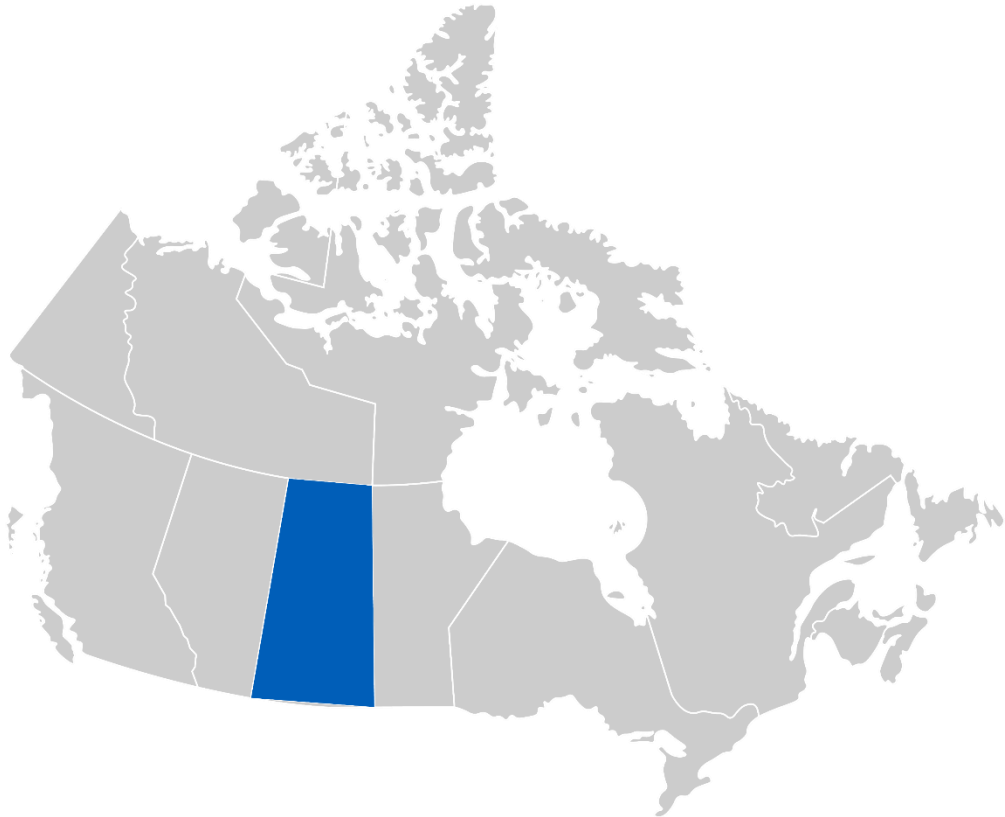
Moving from concept to reality

learning how to support emergence

| Declaration of Interest

The presenters have nothing to declare.

| Who we are & where we started



Our Mission

Accelerate the improvement of health & health care throughout Saskatchewan



Our Purpose

- Assess the quality of health and healthcare
- Build capacity for quality improvement
- Promote research and education leading to improvement

Our health system has evolved

Our health system has evolved, and we need to evolve with it. To fulfill our mission of accelerating improvement in health and health care, we have identified two focus areas dedicated to addressing vital community needs.



Thrive at Home



Four Winds

The strategic question we must ask ourselves isn't just, "What will we focus on?" but:

**How can we
accelerate
change?**

How we **accelerate** change

A four-stage approach is applied to any project, initiative, or strategy we undertake as an organization. We're committed to collaborating, integrating, and synergizing with our health system partners and community organizations to ensure the best possible outcomes.



UNDERSTAND THE SYSTEM

OUTCOME:

Evidence & consensus has been achieved.

TACTICS

- GATHER INTELLIGENCE
- ENGAGE STAKEHOLDERS
- CONDUCT ANALYSES
- BUILD CAPABILITIES



BUILD SHARED COMMITMENT

OUTCOME:

Commitment to address quality gap has been made with actionable plans in place.

TACTICS

- DEVELOP THE CASE FOR CHANGE
- SUPPORT CONCEPT IMPLEMENTATION
- ENGAGE STAKEHOLDERS



CREATE CONDITIONS FOR MOBILIZATION

OUTCOME:

Conditions have been created to accelerate change-at-scale among partners.

TACTICS

- MEASURE & EVALUATE
- CONVENE COLLABORATORS
- DEVELOP THE SKILLS FOR IMPROVEMENT
- ALIGN INITIATIVES



ORGANIZE FOR ACTION

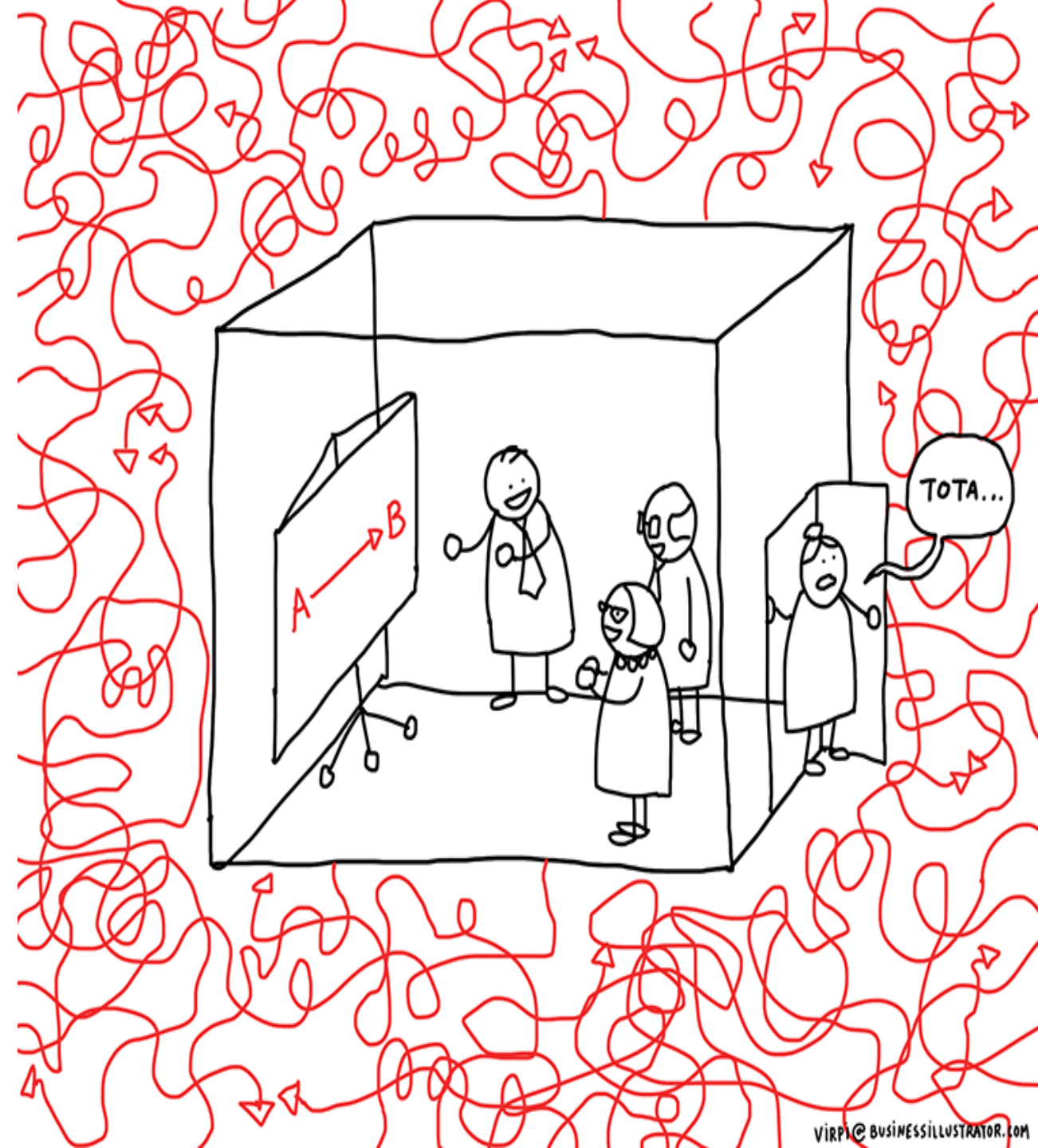
OUTCOME:

Partners are rapidly testing, learning, sharing & demonstrating improvements.

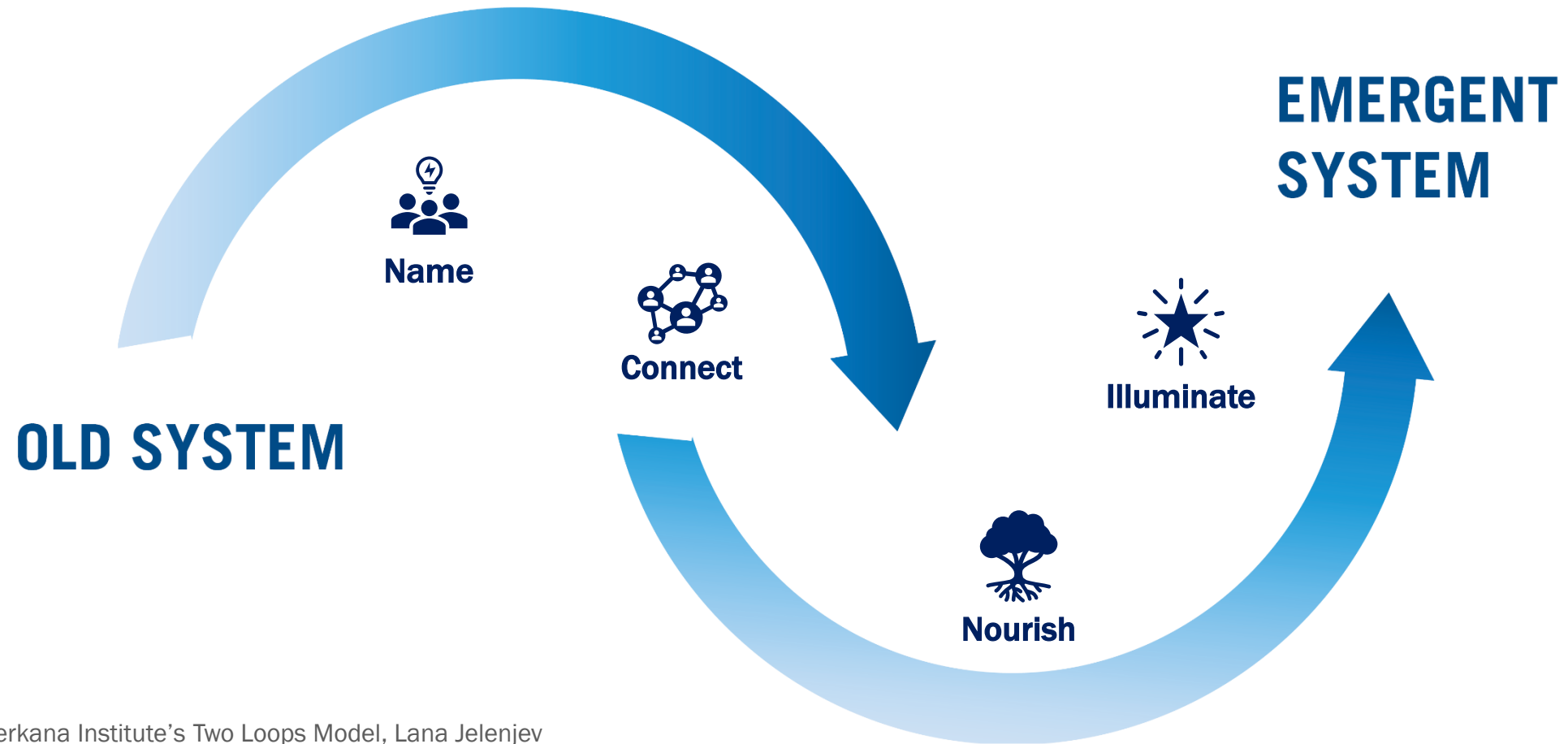
TACTICS

- SUPPORT TESTING & ADAPTATION
- FACILITATE COLLABORATION
- MEASURE & EVALUATE
- COMMUNICATE

**Complexity
isn't linear**



Networks create conditions for emergence



Adapted from: Berkana Institute's Two Loops Model, Lana Jelenjev



Networks create conditions for emergence to thrive

“The world doesn't change one person at a time. It changes as **networks** of relationships form among people who discover they **share a common cause** and visions of what's possible.”

- Margaret Wheatley

| What we're doing next

Moving from concept to reality



System Convening

Accelerated Design Event (ADE):

- Build shared purpose
- Inspire creative solutions to test and explore

Innovation Network:

- Convene new partners, building on momentum generated at the ADE



Evaluation

- Use Developmental Evaluation to inform 'just in time' decisions
- Cultivate ways to evaluate the value of relationships and networks (e.g., Social Network Analysis)

Embrace emergence

Foster relationships

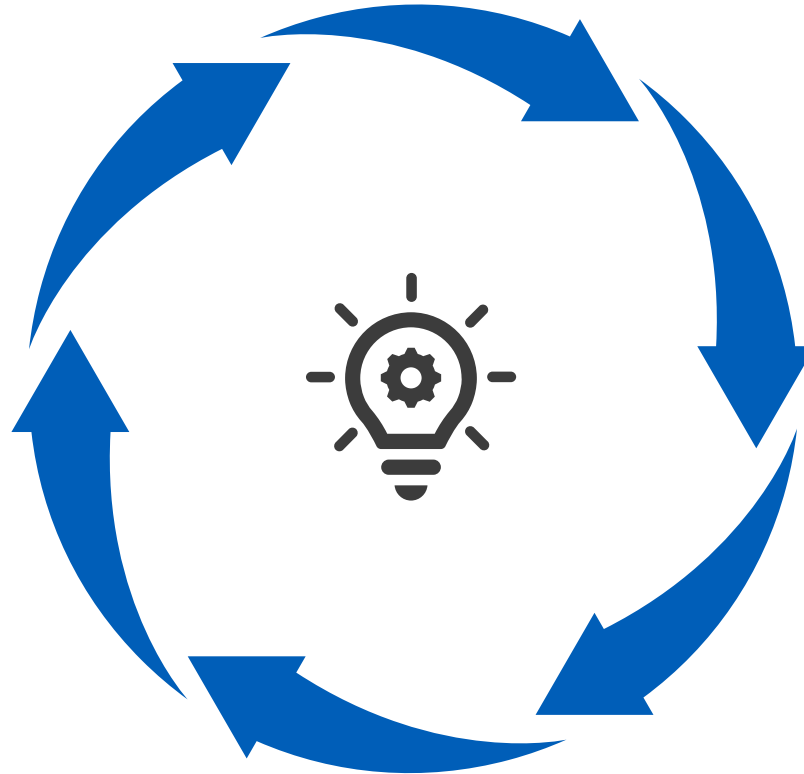
Focus on building relationships with influential groups.

Nurture connection

Create space to share ideas and build connections.

Co-create new methods

Together, think the unthinkable.



Ignite curiosity

Inspire others to get involved and demonstrate value.

Allow solutions to emerge

Let creative solutions emerge naturally.

Be agile

Be open and responsive to the activities emerging from networks.

Let's keep in touch

If you're interested in our work
and want to share ideas, we'd
love to hear from you!



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Adapting improvement education to context: small-scale projects or diverse and reflective portfolios?

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CREATE DIVERSE QI ACTIVITIES



Lorraine Armstrong
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@LarmstrongQ

Local Is Global: Advancing Healthcare Delivery and Quality on the International Stage

Jonathan Wetzel

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**Mount
Sinai**

Mount Sinai Health System at a Glance



43,000+
Employees

1

Leading Medical School
Icahn School of Medicine at Mount Sinai

1

Renowned Nursing School
Mount Sinai Phillips School of Nursing



8 Hospitals

3,919 Beds



7,400+
Physicians



2,600+
Residents and Fellows



5,000+
Alumni



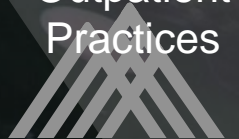
4.2M+
Patient Visits Annually



\$11.3B
Revenue Annually

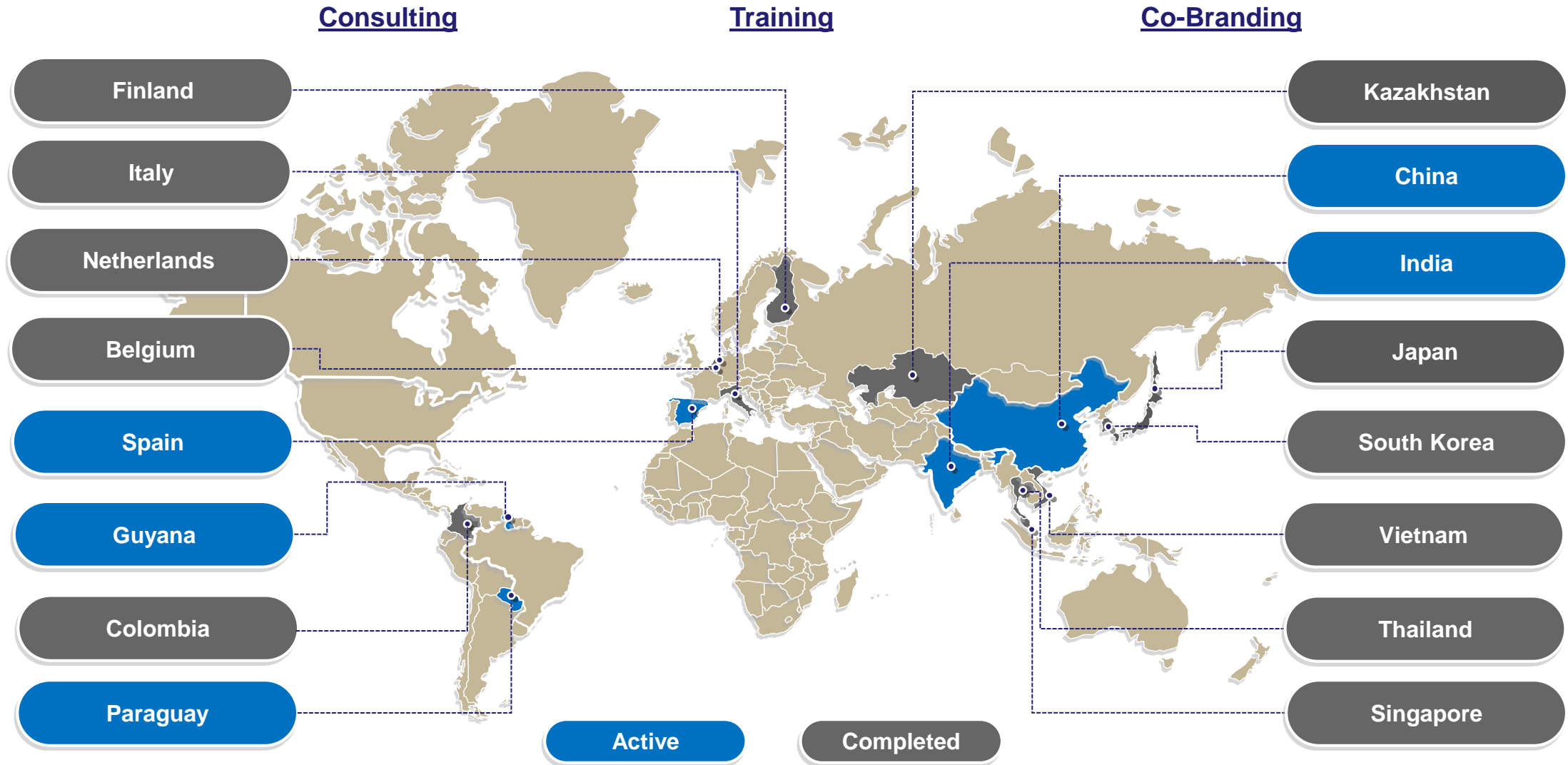


410+
Network Outpatient Practices



Mount Sinai

Mount Sinai International: Global Collaborations



Brief Background on International Healthcare Systems and Collaborations

High-income countries	
Catheter-related UTI	402 (214–620)
Adverse drug events	779 (350–1332)
Falls in the hospital	27 (6–51)
CR blood stream infections	1126 (328–2088)
Nosocomial pneumonia	2545 (1673–3703)
Decubitus ulcers	134 (58–268)
Venous thromboembolisms	2282 (1054–3855)
Total	
	7208 (5371–9271)
Low-income and middle-income countries	
Catheter-related UTI	3420 (450–8012)
Adverse drug events	1435 (126–3453)
Falls in the hospital	76 (6–169)
CR blood stream infections	2150 (958–4065)
Nosocomial pneumonia	2674 (996–5403)
Decubitus ulcers	291 (104–652)
Venous thromboembolisms	5399 (1126–11 730)
Total	
	15 454 (9009–23 607)

Table 4 Disability-adjusted life-years (DALYs) lost and source of the DALYs, in 2009

	DALYs*	Short-term disability (%)	Long-term disability (%)	Premature death (%)
High-income countries				
Catheter-related UTI	402 (214–620)	2.2	0.1	97.7
Adverse drug events	779 (350–1332)	5.7	0.3	94.0
Falls in the hospital	27 (6–51)	27.5	6.0	66.5
CR blood stream infections	1126 (328–2088)	3.0	0.2	96.8
Nosocomial pneumonia	2545 (1673–3703)	1.4	0.0	98.5
Decubitus ulcers	134 (58–268)	5.9	4.4	89.8
Venous thromboembolisms	2282 (1054–3855)	28.2	7.4	64.4
Total	7208 (5371–9271)	15.7	5.7	78.6
Low-income and middle-income countries				
Catheter-related UTI	3420 (450–8012)	0.7	0.0	99.4
Adverse drug events	1435 (126–3453)	2.3	0.1	97.6
Falls in the hospital	76 (6–169)	26.9	5.9	67.2
CR blood stream infections	2150 (958–4065)	3.0	0.2	96.8
Nosocomial pneumonia	2674 (996–5403)	1.4	0.0	98.5
Decubitus ulcers	291 (104–652)	30.0	5.6	64.4
Venous thromboembolisms	5399 (1126–11 730)	26.8	7.0	66.1
Total	15 454 (9009–23 607)	14.1	5.2	80.7
Total (combined)				
Catheter-related UTI	3822 (844–8412)	0.8	0.0	99.4
Adverse drug events	2214 (807–4274)	3.4	0.2	96.7
Falls in the hospital	103 (29–199)	27.0	5.9	68.1
CR blood stream infections	3276 (1752–5379)	3.0	0.2	98.2
Nosocomial pneumonia	5219 (3226–8120)	1.4	0.0	99.1
Decubitus ulcers	426 (209–804)	13.8	4.8	82.7
Venous thromboembolisms	7681 (3115–14 034)	27.3	7.1	70.7
Total	22 644 (15 899–30 979)	14.4	5.3	80.2

*All DALY numbers are in thousands.
DALYs, disability-adjusted life years.

So, What Are We Talking About Here?

Glocalization

/ˌglɒʊk(ə)lɪˈzeɪʃ(ə)n/

noun

the practice of conducting business according to both local and global considerations



Case Example #1

“Tools to Understand the Local Healthcare Culture and Delivery System“



Tools to Understand the Local Healthcare Culture and Delivery System

High-level example: Embracing diversity

CHINA

- ▶ Mostly universal coverage
- ▶ Limited focus on screening and prevention vs. acute / emergent care
- ▶ Tiered hospital system
- ▶ Limited outpatient capacity (hospital centric)
- ▶ Less consumer centric

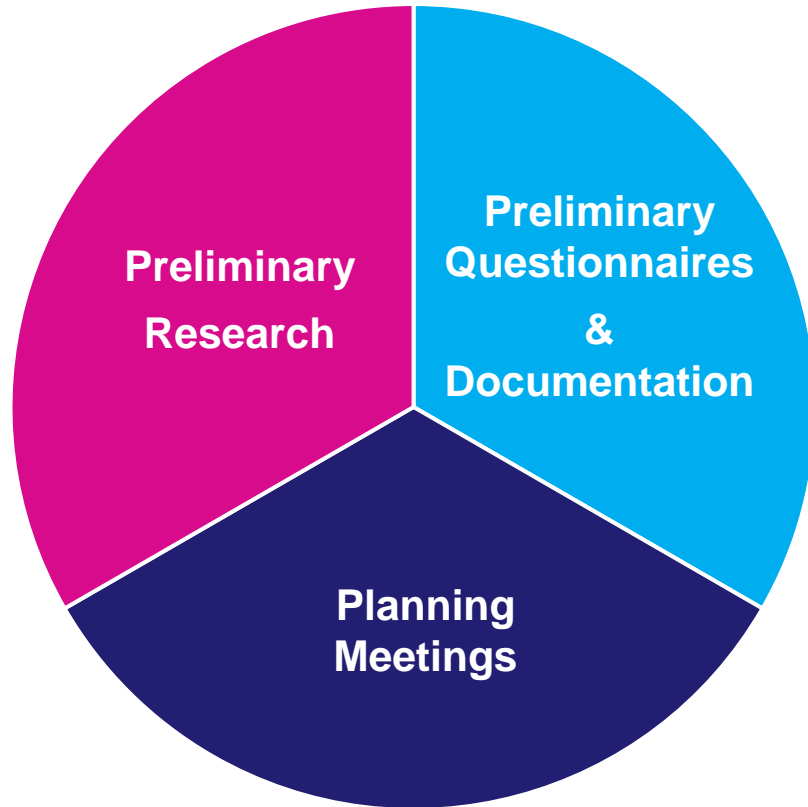
GERMANY

- ▶ First social health insurance system in the world (1883)
- ▶ Mandatory coverage
 - Gesundheitsfonds
 - Private Insurance (optional)
- ▶ Coverage and access limitations
- ▶ Multiple entry points
- ▶ Capitation and Fee-For-Service
- ▶ Quality conscious

UNITED STATES

- ▶ Multi-Payer system
- ▶ Underinsured issue
- ▶ Shift from inpatient to outpatient care
- ▶ Consumer centric
- ▶ Heightened focus on Fee-For-Value

Tools to Understand the Local Healthcare Culture and Delivery System



Preliminary Research

- Country, Culture, Demographics
- Healthcare System and Regulations
- Professional Education & Licensure
- Similarities/Differences between own system & model

Preliminary Questionnaires & Documentation

- Advanced Information Request List
- Operational Metrics, Case Mix/Acuity, Facilities Metrics
- Primary diagnostic & treatment modalities/technologies

Planning Meetings

- Dependent on topic, required frequency, travel time
- Advance Agreement on meeting items = critical
- Navigating Different Cultures
 - Universal: Setting clear expectations for goals/outcomes, respect
 - Country/Region Specific: Meeting format, approaches, coaching & collaboration style

****Full Details Available in Slides Handout****

Case Example #2

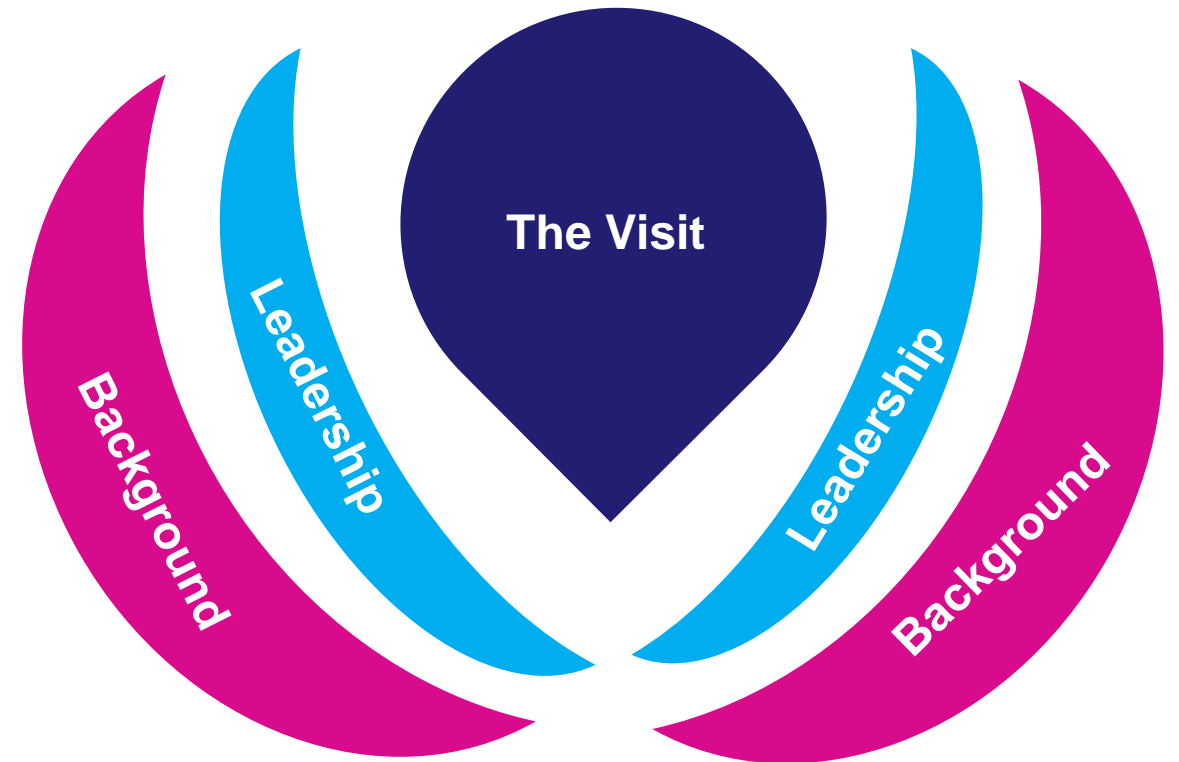
“Methods to Assess Local Quality and Safety Systems”



Methods to Assess Local Quality and Safety Systems

Peeling Back the Layers of a Successful Design

- **Layer 1: Background**
 - Mount Sinai International Checklist
 - Go over Statistics, Structure, Services
 - Quality & Safety Program Overview/Data
 - Specific policies and procedures
- **Layer 2: Leadership**
 - Targeted Interview Groups
 - Executive Team
 - Quality Leadership Team
 - Education and Research
 - Ask how they would like to be supported
- **Layer 3: The Visit**



****Full Details Available in Slides Handout****

Methods to Assess Local Quality and Safety Systems



Methods to Assess Local Quality and Safety Systems

Visit



Methods to Assess Local Quality and Safety Systems

Visit



Methods to Assess Local Quality and Safety Systems

Challenge



Case Example #3

“Engaging in Cultural Competency
with International Partners”



Methods to Exhibit Cultural Competency When Engaging With an International Healthcare Partner

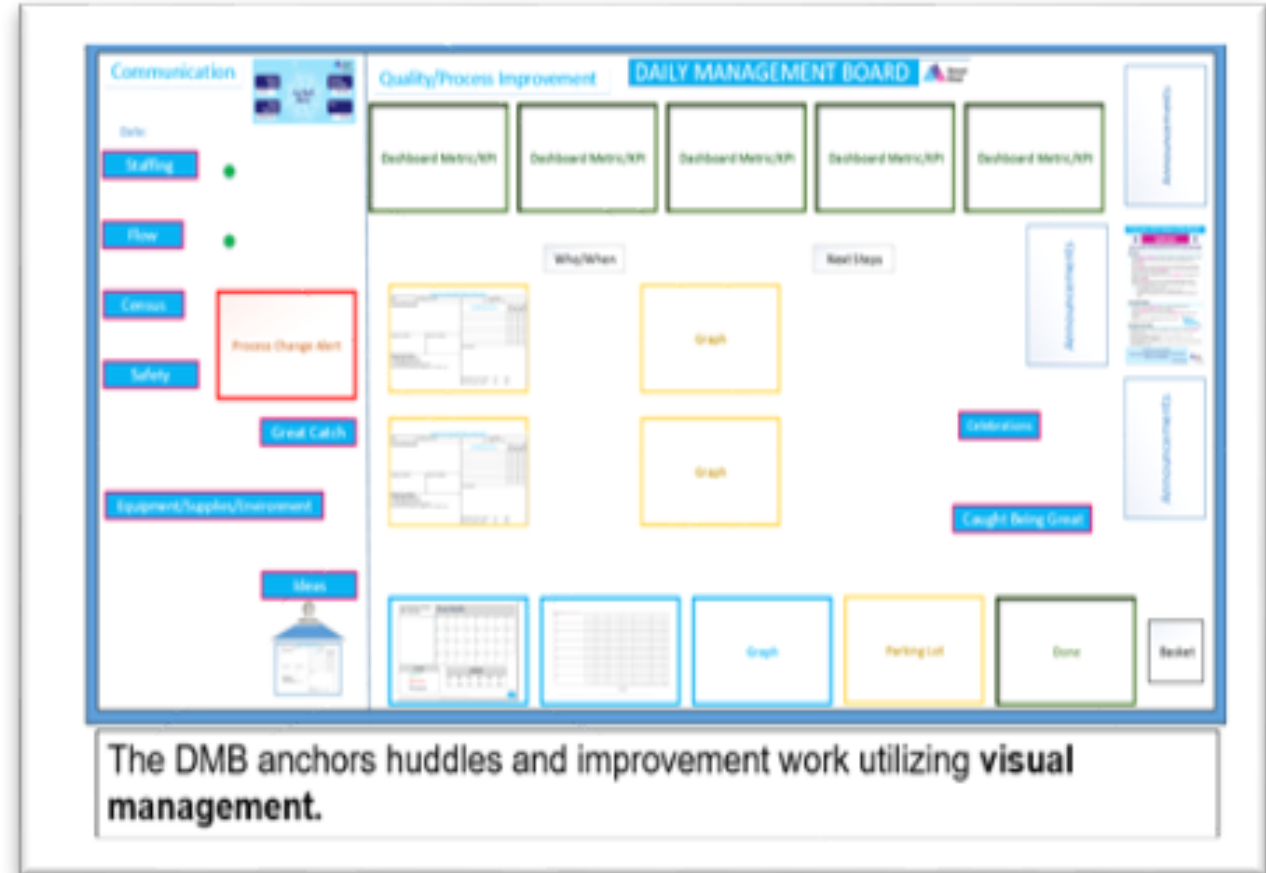
“Culture eats strategy for breakfast”

-Peter Drucker

...“and transformation for lunch”

Appreciating Local Culture Builds Trust and Enables Transformation

Daily Management Boards



Methods to Exhibit Cultural Competency When Engaging With an International Healthcare Partner

Understanding culture and driving improvement and transformation efforts in your home environment / organization can be challenging... doing so in a different organization/culture/country is also not easy

Becoming a student of the local culture and organization is absolutely necessary

Building trust is absolutely necessary

Practicing humble inquiry is absolutely necessary



Methods to Exhibit Cultural Competency When Engaging With an International Healthcare Partner

"X-FACTORS"

**Diverse Team
of Experts**

**Establishing a
Strong Human
Connection**

**Demonstrating
Professional
Empathy**

****Full Details Available in Slides Handout****

Case Example #4

“Best Practices in Conducting Process Improvement and Change Management in an International Arena”



Best Practices in Conducting Process Improvement and Change Management in an International Arena

Topics Covered by the SOPS Hospital Survey 2.0

Composite Measures: A composite measure is a grouping of two or more survey items that assess the same area of culture. The 10 composite measures and 32 survey items assessed in the SOPS Hospital Survey 2.0 are:

- Teamwork (3 items)
- Staffing and Work Pace (4 items)
- Organizational Learning – Continuous Improvement (3 items)
- Response to Error (4 items)
- Supervisor, Manager, or Clinical Leader Support for Patient Safety (3 items)
- Communication About Error (3 items)
- Communication Openness (4 items)
- Reporting Patient Safety Events (2 items)
- Hospital Management Support for Patient Safety (3 items)
- Handoffs and Information Exchange (3 items)

Additional Measures: In addition to the composite measures, single item measures included assess:

- Number of events reported (1 item)
- Patient safety rating (1 item)
- Background questions (4 items)

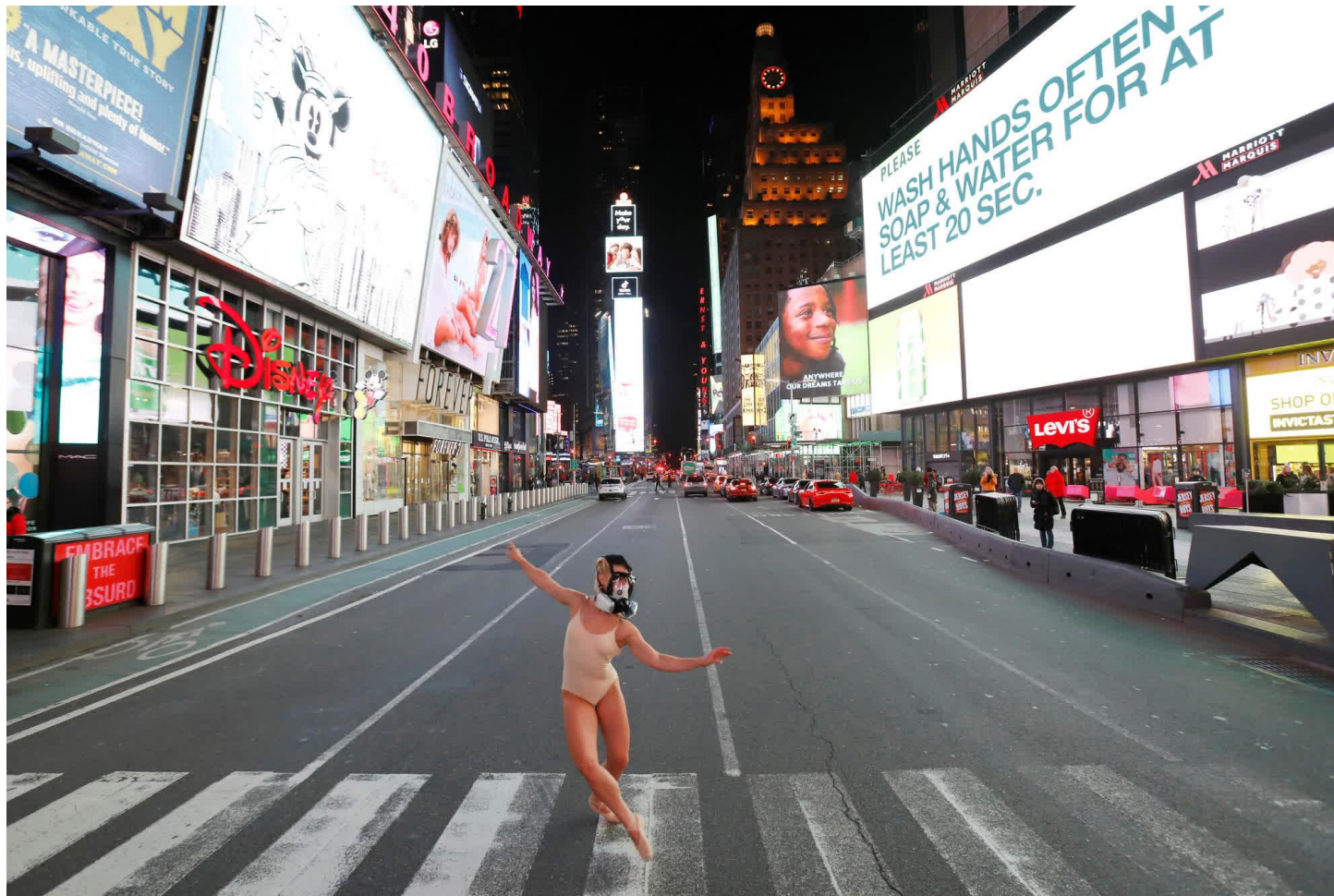
Best Practices in Conducting Process Improvement and Change Management in an International Arena

Table 1. Domains of AHRQ Survey, with results from US sample and CPH in 2019 and 2020

Domain	US 2018 (%)	CPH 2019 (%) (n=526)	CPH 2020 (%) (n = 516)
Teamwork	82	79	84*
Supervisor/manager expectations and actions promoting patient safety	80	81	83
Organizational learning- continuous improvement	72	79	80
Feedback and communication about error	69	73	73
Overall perception of patient safety	66	63	69*
Management support for patient safety	72	50	59*
Communication openness	66	55	56.7
Handoffs and transitions	48	51	52
Frequency of events reported	67	52	49†
Teamwork across units	62	41	46*
Staffing	53	29	33
Nonpunitive response to error	47	32	35*

* Improved after multifaceted intervention. †Decreased after multifaceted intervention

Conclusion + Takeaways



Reflections



Do you have the tools and resources in your own organization to advance quality and safety today? If not, what would be important tools for you to have when engaging with external partners to advance a quality and safety system?



How can we make quality and safety advancement in healthcare truly global and equitable?



Pop Quiz Answers

Guess the country where each food item is offered:



**McCrepes -
France**



**Bulgogi Burger –
South Korea**



**Grilled Halloumi
Cheese Muffin -
Greece**



**McFalafel Wrap -
Israel**



**Chicken McDo
– Philippines**



**McAllo Tikki -
India**



Access our slides here:



MSI 2024 Forum PPT

Thank you!



Mount
Sinai

Recurring (& interconnected) themes in approaches to making large scale change happen

Moving together towards a shared direction

Co-producing change: "with" & "by", not "to" or "for"

Setting up systems for experimental learning & unlearning: "doing the right next thing"

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