



Institute *for*
Healthcare
Improvement

BMJ/IHI International Forum

E7: Radical change and safety

Friday 23rd May 1245-1345 Mission 1&2



On January 5, 2024, a door plug on a Boeing 737 MAX 9 aircraft, operated by Alaska Airlines Flight 1282, blew out mid-flight, causing an uncontrolled decompression and a near-catastrophic incident. The incident revealed critical manufacturing errors and raised serious safety concerns about Boeing's quality control.





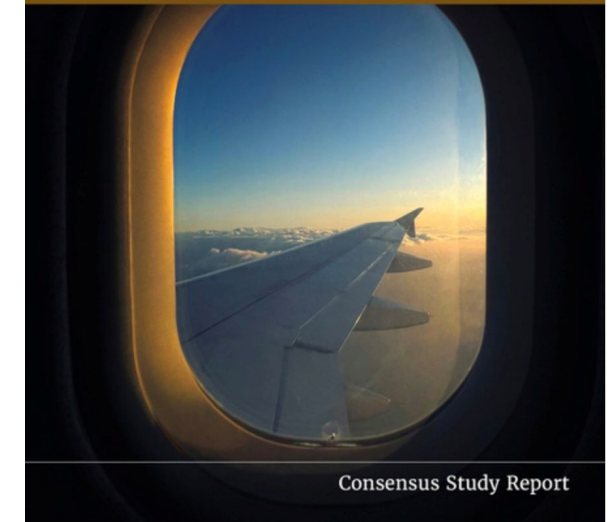


YEARS TO MONTHS	DAYS TO HOURS	HOURS TO MINUTES	MINUTES TO SECONDS
Planning <ul style="list-style-type: none"> > Preparing fleet, facilities, and personnel > Procure fleet > Establish schedule > Plan network 	Traffic Flow Management <ul style="list-style-type: none"> > Balance demand and capacity <ul style="list-style-type: none"> • Ground delays • Ground stops • Metering > Recover schedule <ul style="list-style-type: none"> • Delays and cancellations • Aircraft and crew swaps 	Air Traffic Control and Flight Routing <ul style="list-style-type: none"> > Assure spacing > Merging and spacing > Detect and resolve conflicts > Communicate with pilots > Avoid restricted airspace > Avoid hazards 	Aircraft Flight <ul style="list-style-type: none"> > Attitude control > Velocity control > Path following and guidance > Propulsion and vehicle performance > Navigation (estimating position and velocity) > Managing payload > Monitoring, configuring, and managing onboard systems > Flight planning and re-planning

NATIONAL ACADEMIES
Sciences
Engineering
Medicine

Emerging Hazards in Commercial Aviation—Report 2

Ensuring Safety During Transformative Changes



Consensus Study Report

Recognising that we need to change, how do we create the conditions for transformation to be as safe as possible?



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Viral change in a nation: The Time to Connect Safety II program

Anne Marie Weggelaar, Tilburg University (Netherlands)

Results from the Swedish nationwide change initiative on knowledge-based healthcare

Karl Landergren, Medical Director, Region Östergötland (Sweden)

Evelina Linnros, Analyst, SALAR (Sweden)





tijdvoor
verbinding

Time to Connect

Dutch national Safety-II program



Hospital association University hospitals Medical specialists

Nurses &
nursing assistants

Patient organisation Private care centers

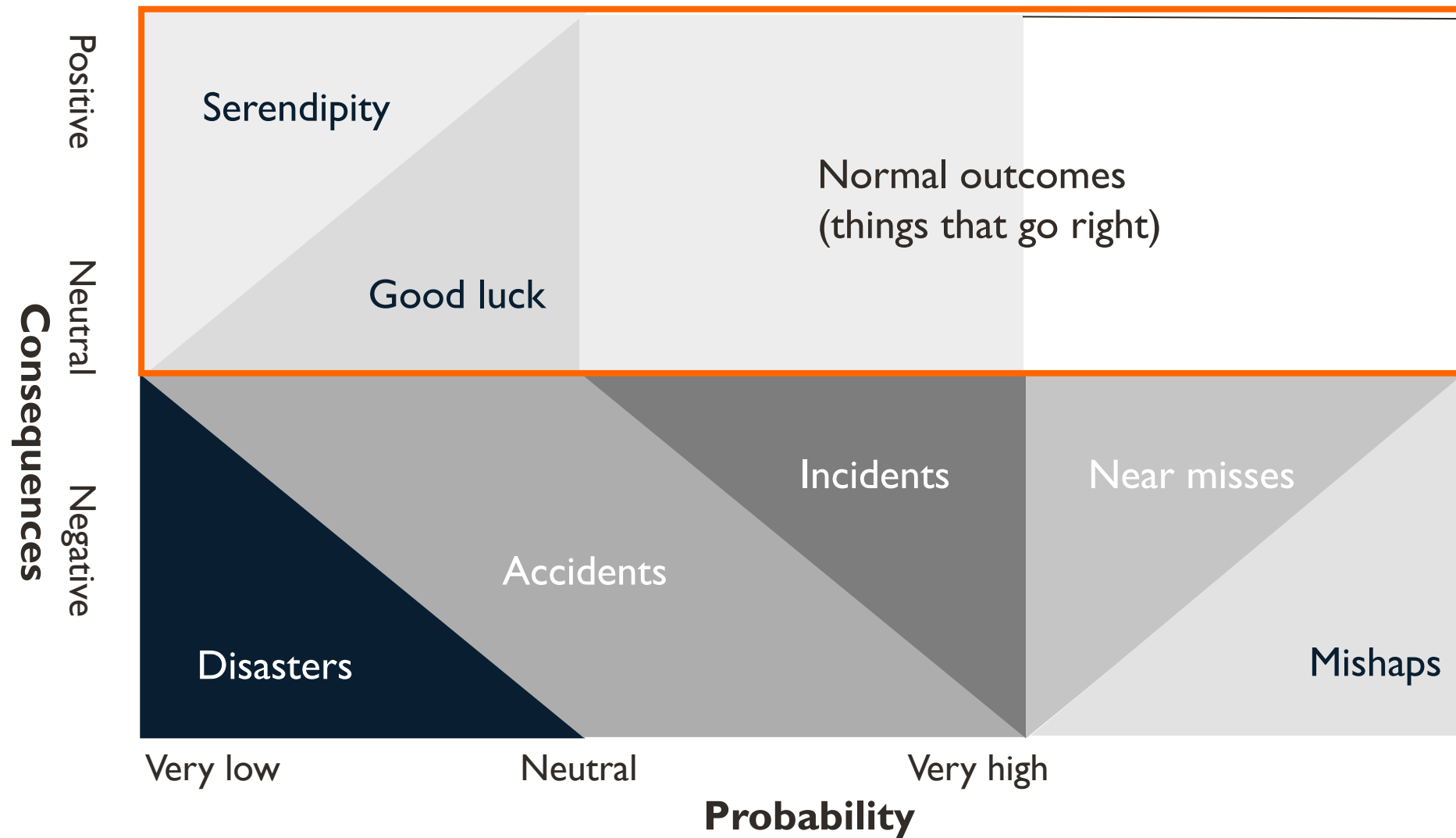
Disclosure statement

Anne Marie Weggelaar

I declare I have a conflict of interest as I receive research funding from Time to Connect. The presented information stems from my research.

Safety-II paradigm and principles

Time to Connect



Safety-I

Cue for enhancing patient safety: unexpected and unwanted events (e.g., failure, adverse events, accidents).

Reducing (impact and occurrence) of what goes wrong due to erratic acts.

Reactive learning: analysis of adverse events.

Human factor(s) are the main risk.

Harm can be prevented by standardization, rules and forced functions.

Safety-II

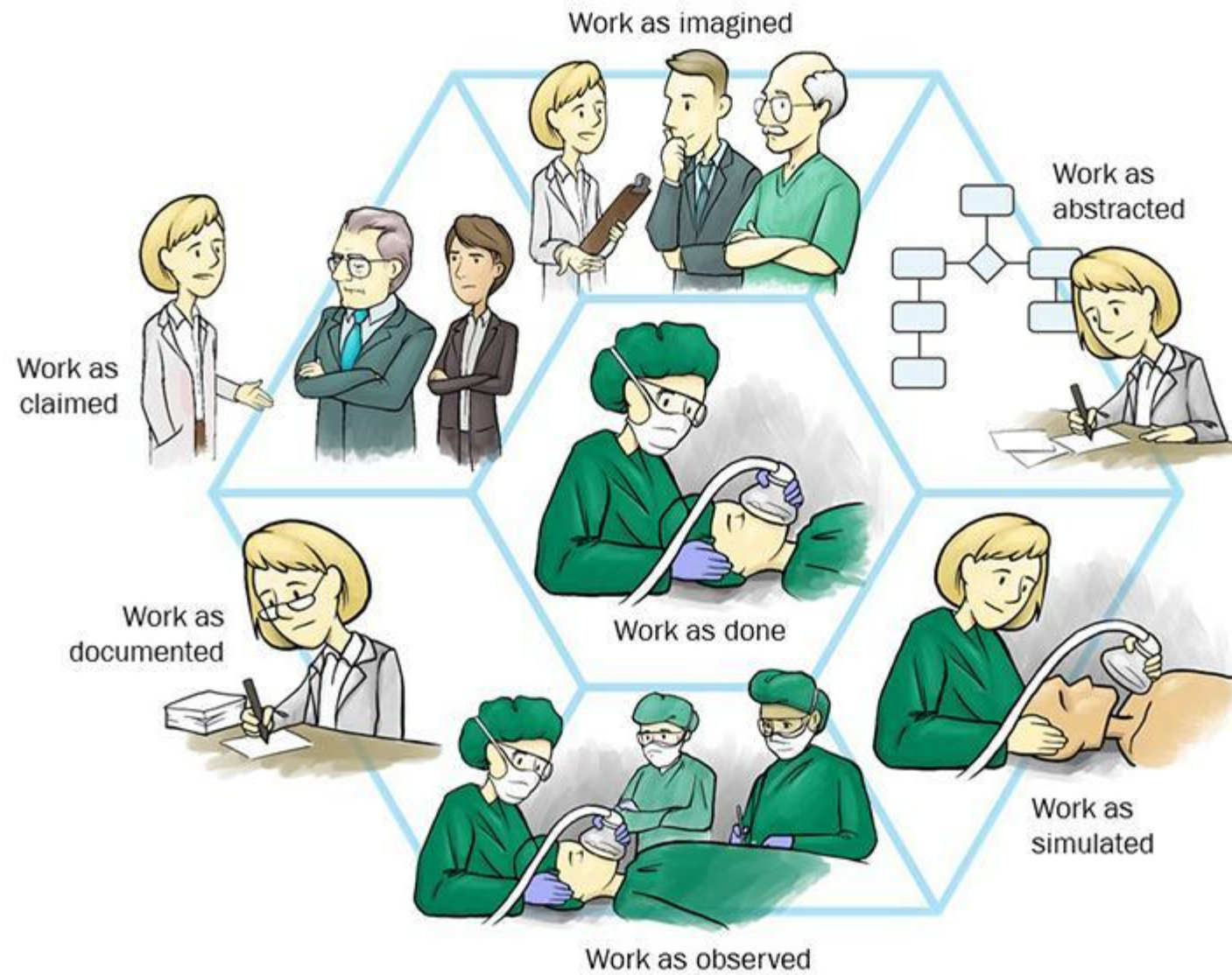
Cue for enhancing patient safety: understanding success of daily practice and management of variability.

Enhancing that things go right and focus on adaptation to conditions.

Proactive learning: from mundane practices.

Human behaviour creates safety.

Harm can be prevented by reflexivity and resilience.



Our daily practice
and systems are
poorly understood.

Therefore, our
systems are unsafe.



Safety II Assumptions

As variation is inherent,
safety requires work.

When we want more reliability,
we need responsiveness and
resilience of systems and people.

3 THEMES



**ANTICOAGULATION
CARE**



**MULTIDISCIPLINARY
DIALOGUE**



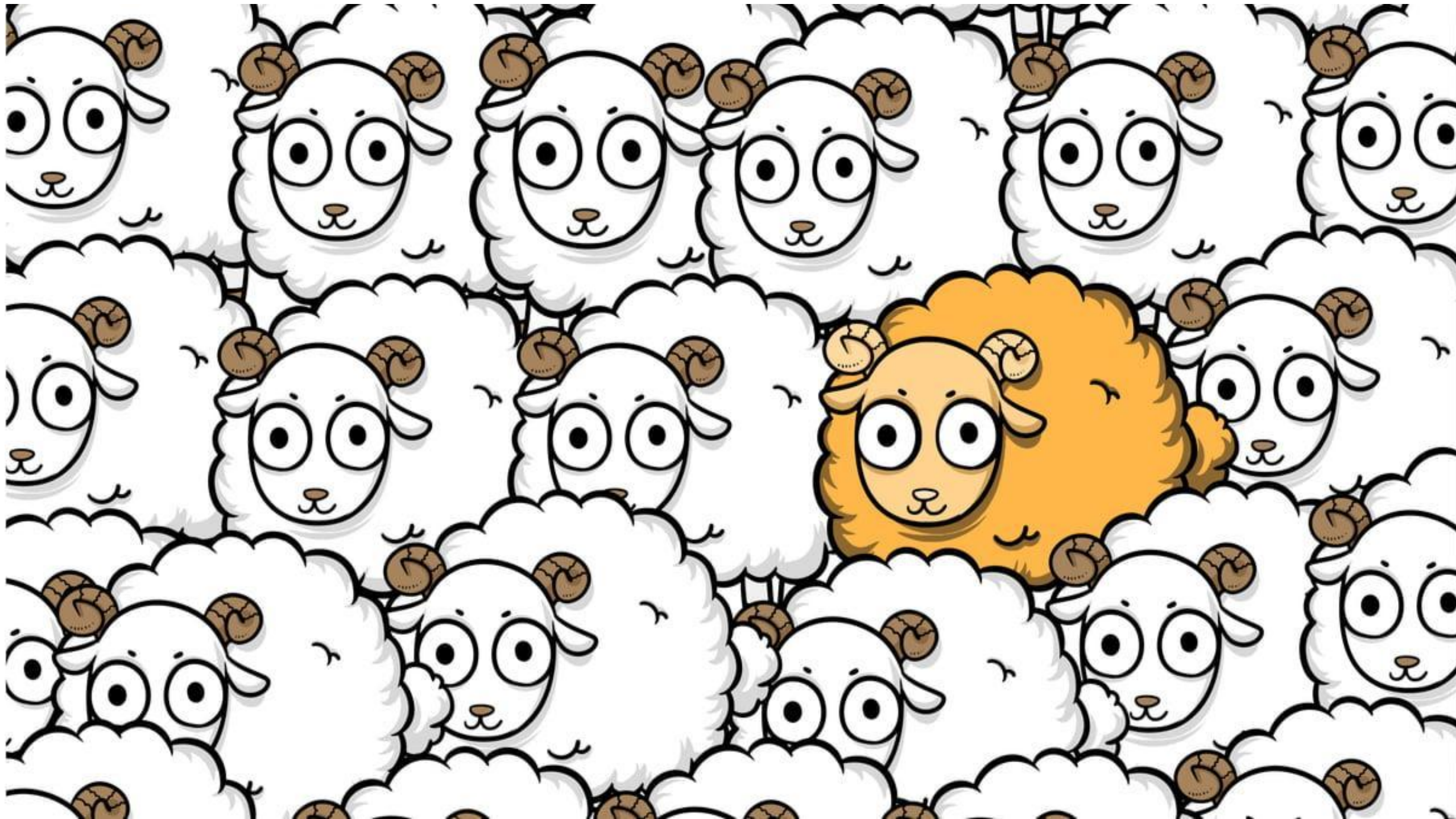
FRAIL OLDER PEOPLE

OUR APPROACH

Safety-II

Bottom-up





From Not invented by Me to Proudly adopted from

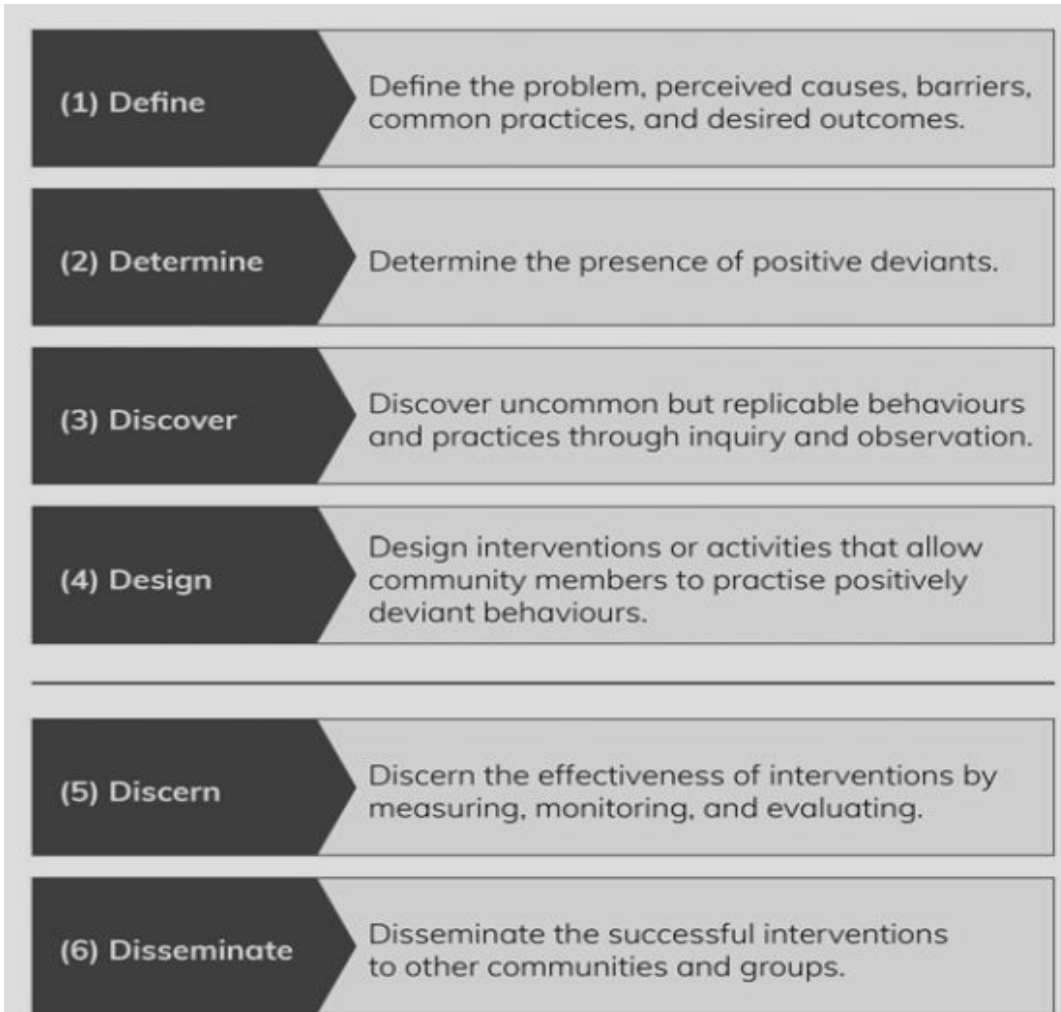


Figure 1 The 4Ds/6Ds framework for implementing the positive deviance approach

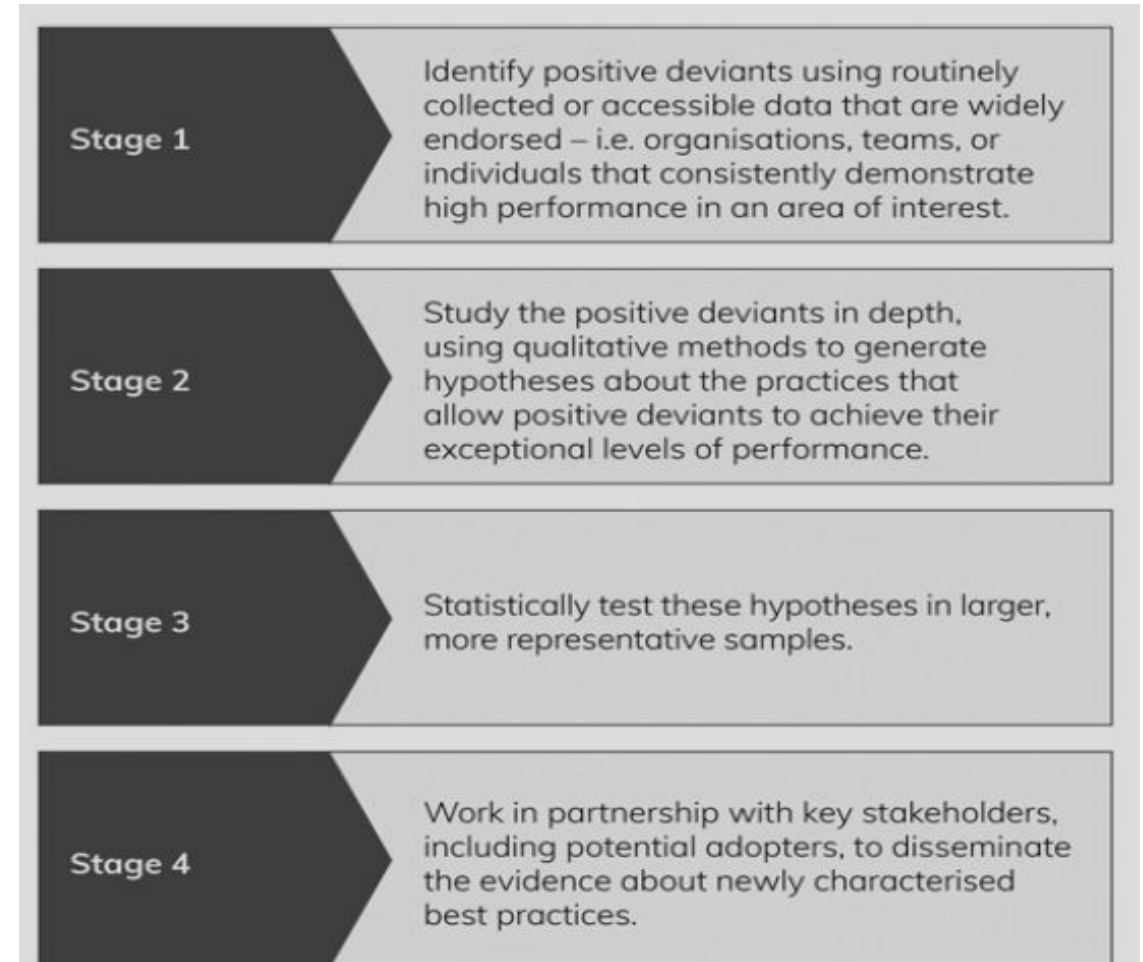
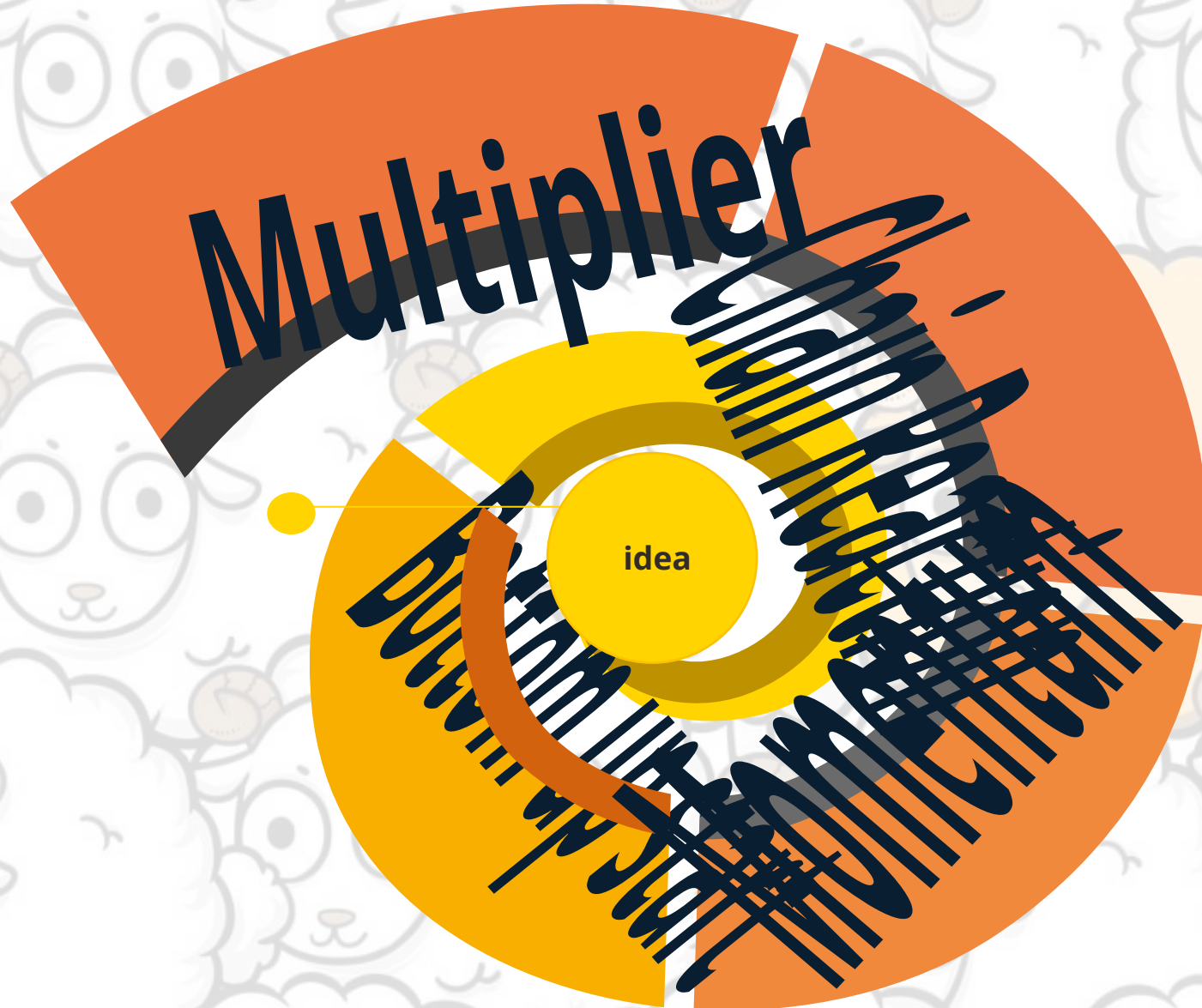
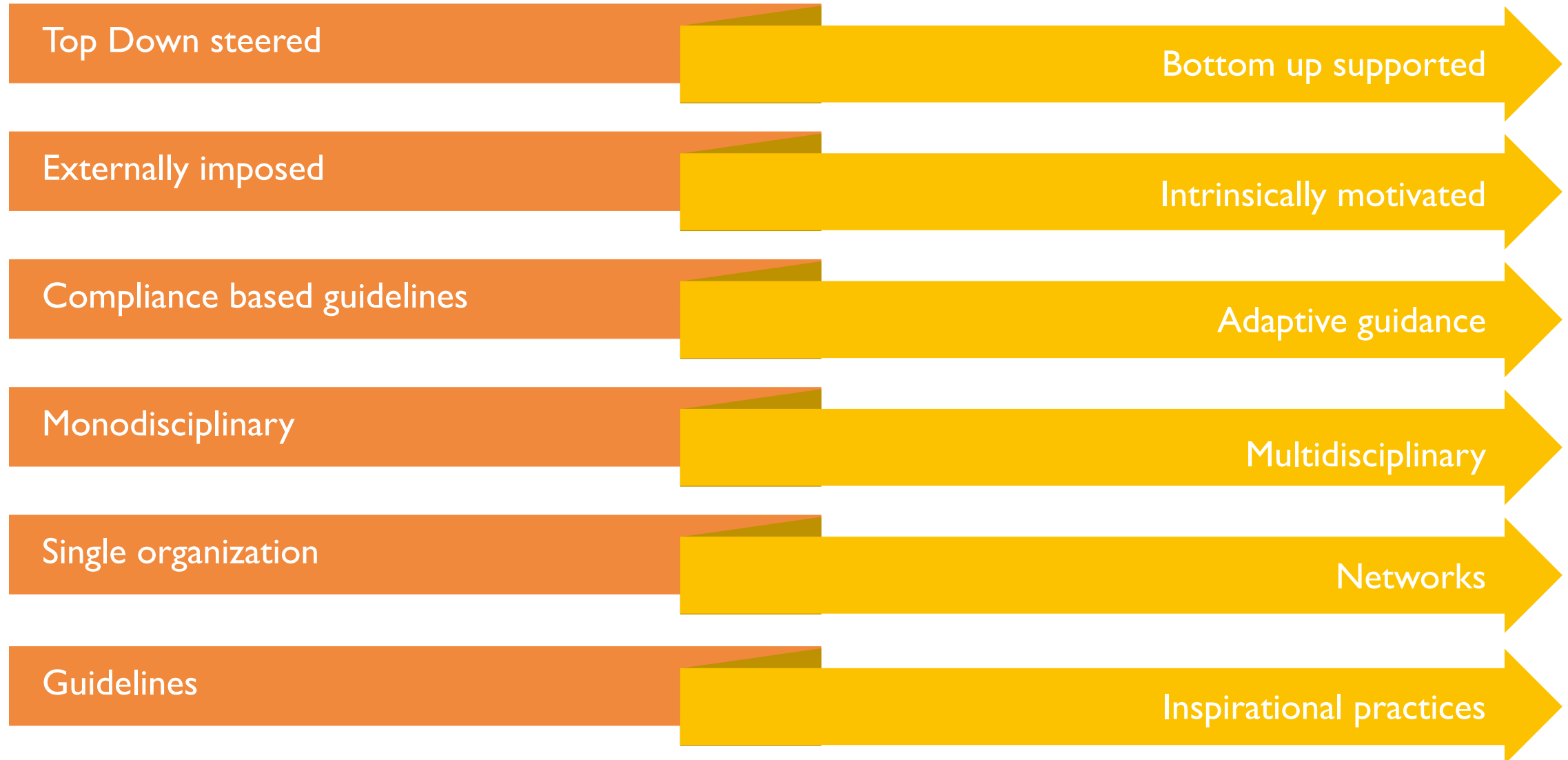


Figure 2 Bradley et al.'s four stages to implementing the positive deviance approach in healthcare organisations



In sum: We aimed for a shift



In sum: We aimed for a shift





tijd^{voor}
verbinding

Time to Connect

More information?

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Results from the Swedish nationwide change initiative on knowledge-based healthcare

IHI May 23 2025

Karl Landergren - Medical director of the Östergötland region in Sweden

Evelina Linnros – Analyst, SALAR

Declaration of interest

Evelina Linnros, none to declare

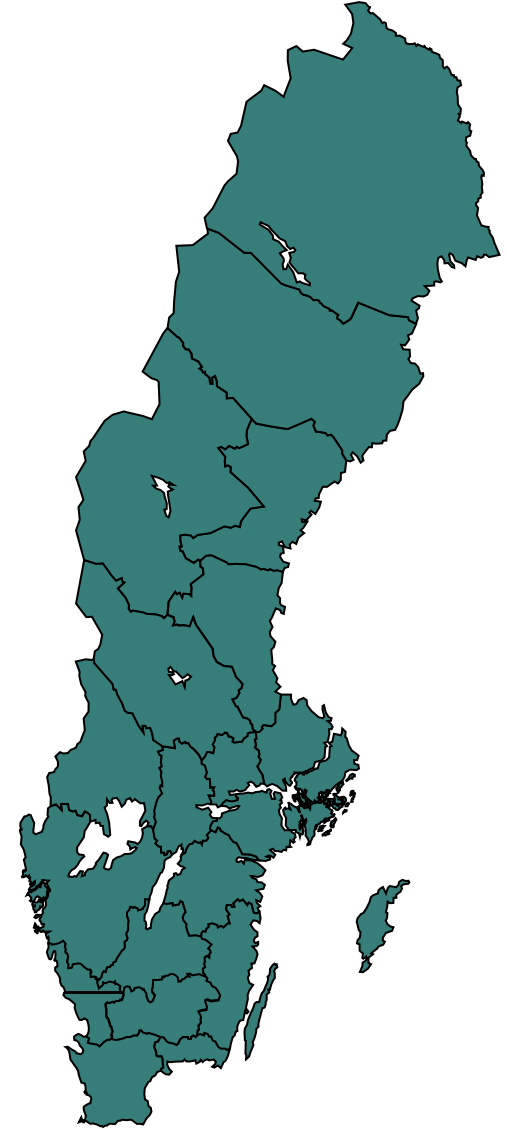
Karl Landergren, none to declare

Roadmap

1. Background: The Swedish nationwide system for knowledge-based management
2. How national program groups use data to track change
3. The first joint report from the 26 program groups
4. Discussion and summary

The Swedish healthcare system: decentralised and publically funded

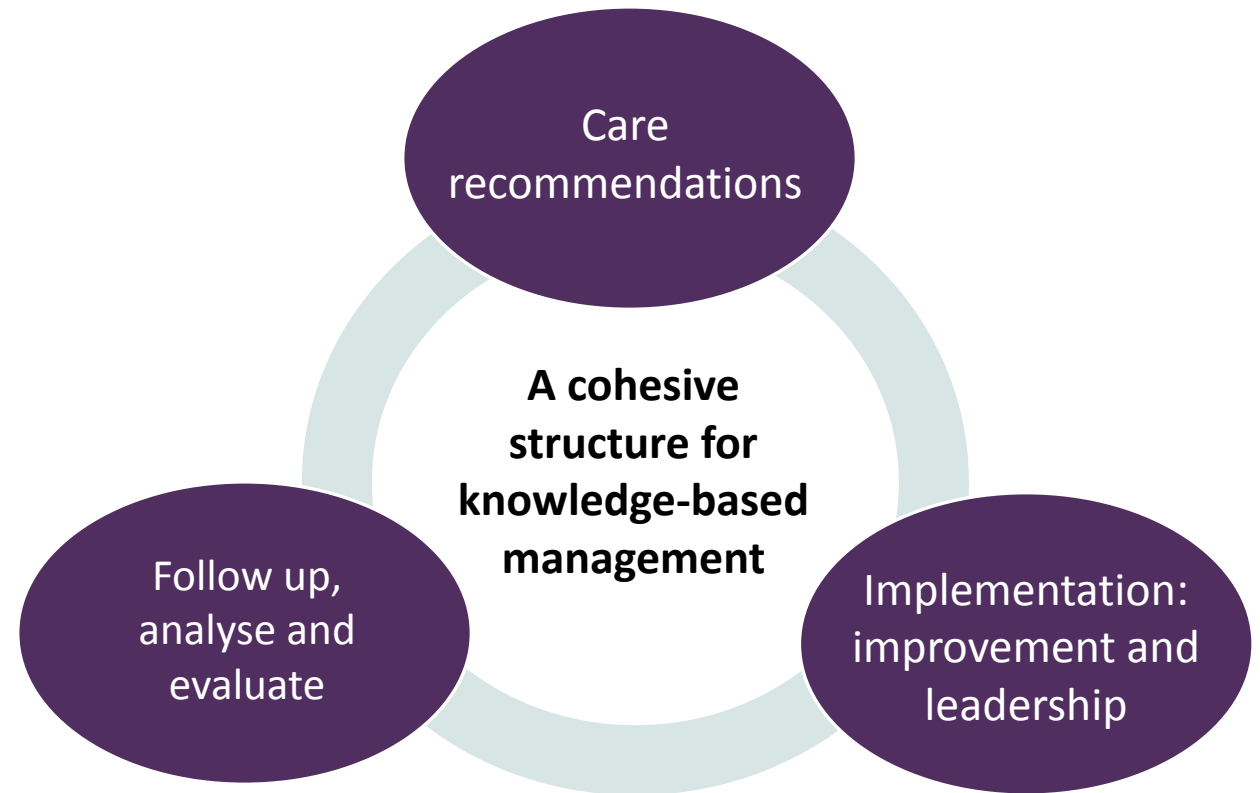
- National level: Legislation, monitoring and education/training
- Regions (21): Healthcare
- Municipalities (290) Social services; care of elderly and disabled people etc.
- Larger healthcare regions (6): Geographic partnership – consolidates specialised care + other forms of collaboration



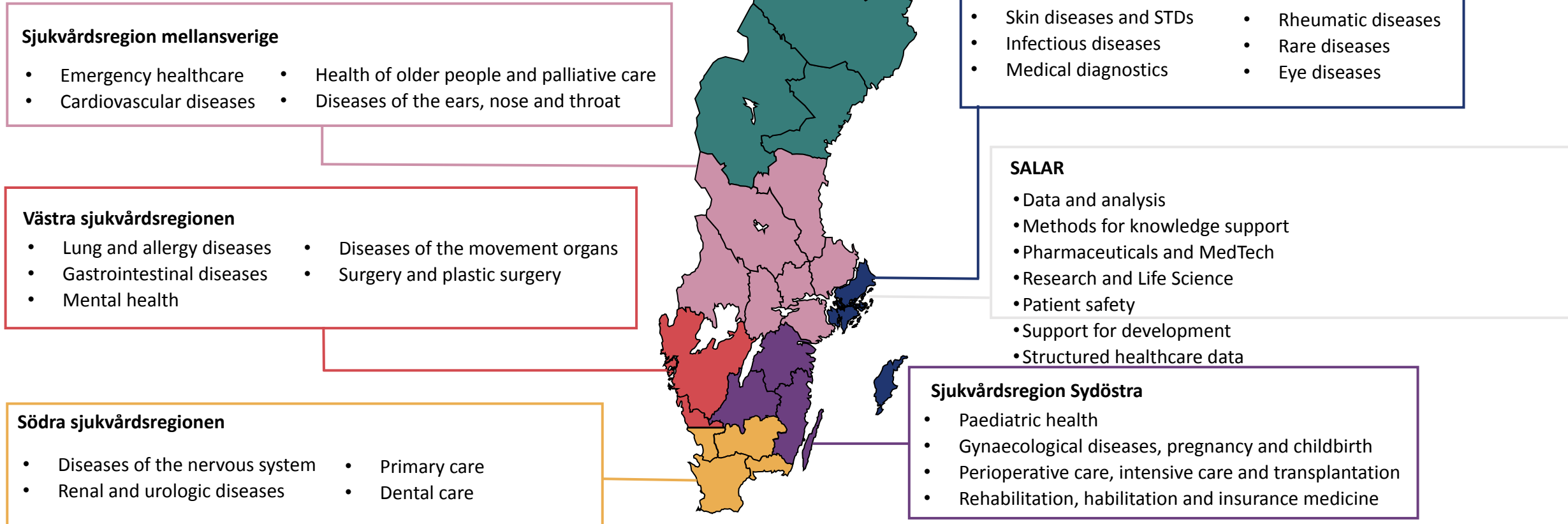
A nationwide system for knowledge-based management

- The nationwide system for knowledge-based management promotes quality improvement and health equity
- Three components: care recommendation, implementation and evaluation

Our vision: *We count our success in lives and equal health! We make each other successful!*



26 national program groups & 7 national collaboration groups – hosted by the 6 healthcare regions and SALAR





Program groups use data to follow up and analyse their areas



Suggest indicators



Suggest targets when appropriate



Balance process measures and outcome measures




Limit the number of indicators, prioritize



Avoid increasing administrative burden – information should only be documented once

Indicators and reports are published at Vården i siffror, www.vardenisiffror.se

VÅRDEN I SIFFROR

Meny 


 Sök efter indikatorer...

 Inställningar 

 Andra indikatorer för: Målnivå kvalitetsregister

Screening för riskbruk av a... 

Kön: Totalt 

Ålder: Totalt 

Period: År 

Från: 2014

Till: 2025 

Diagramtyp

Färg

Screening för riskbruk av alkohol före graviditet






Önskat värde:

 Högt

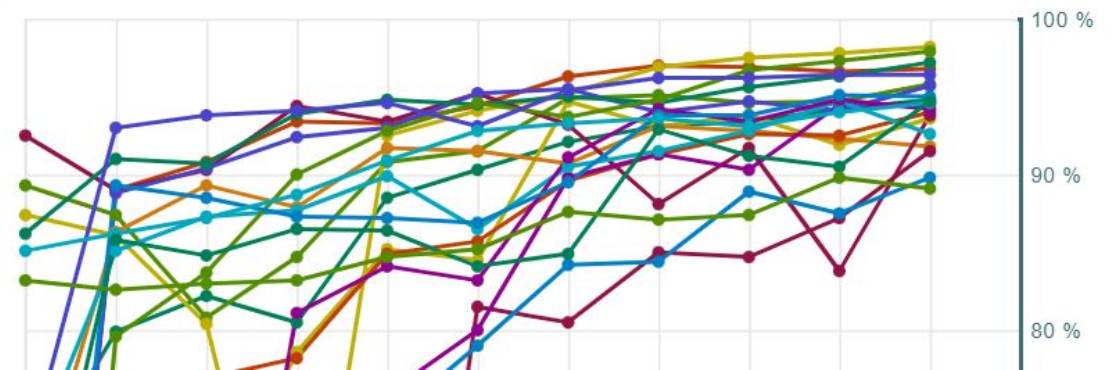
Andel kvinnor som vid inskrivning till mödrahälsovård screenats för riskbruk av alkohol före graviditet.



Graviditetsregistret

Ta bort	Enheter	↑↓	2025	⌵
	Riket	>	-	
	Uppsala		-	
	Blekinge		-	
	Västernorrland		-	
	Kalmar		-	

Måttenheter: Procent



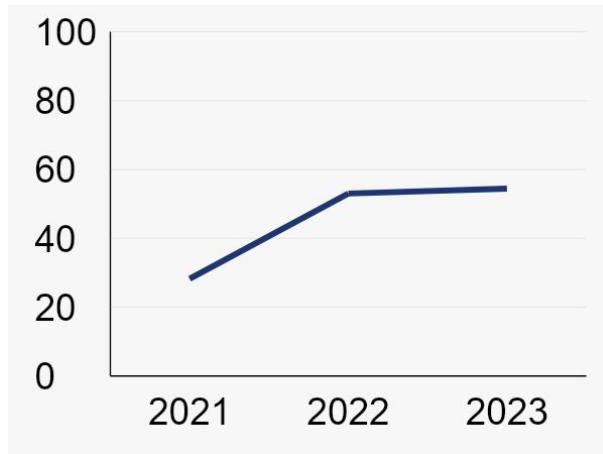
First joint report from the 26 program groups in the nationwide system for knowledge-based management

- The report has involved over 100 medical experts and analysts tied to the system for knowledge-based management
- The program groups have selected areas to highlight in the report – often linked to areas where they have or will publish a care recommendation
- Covers over 50 themes and will be published online at www.kunskapsstyrningvard.se on June 13, 2025

Snippets from the report: progress

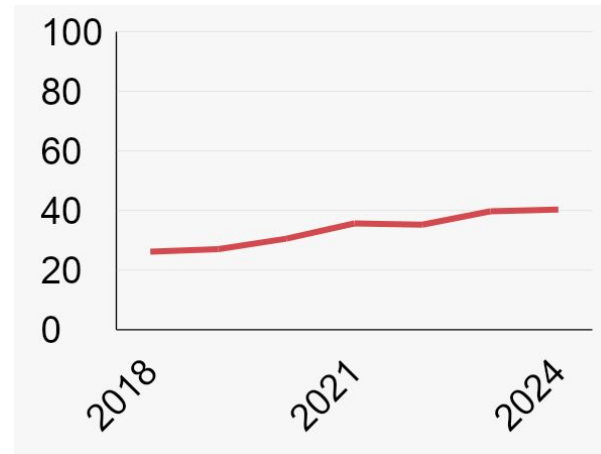
Heart failure

Larger share of patients receive recommended medicines



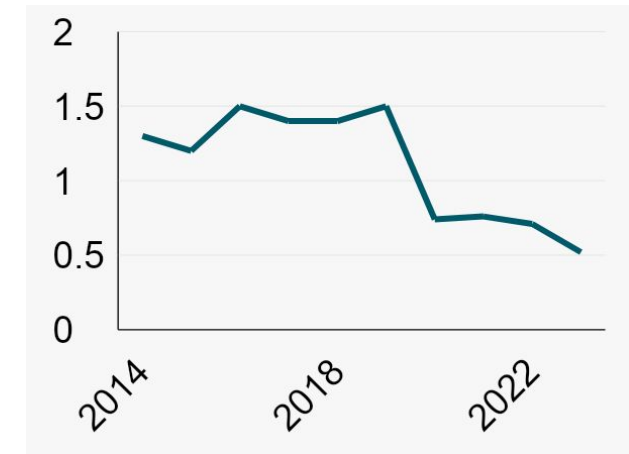
Tonsillectomy

Larger share of surgeries performed using the recommended technique



Postterm pregnancy

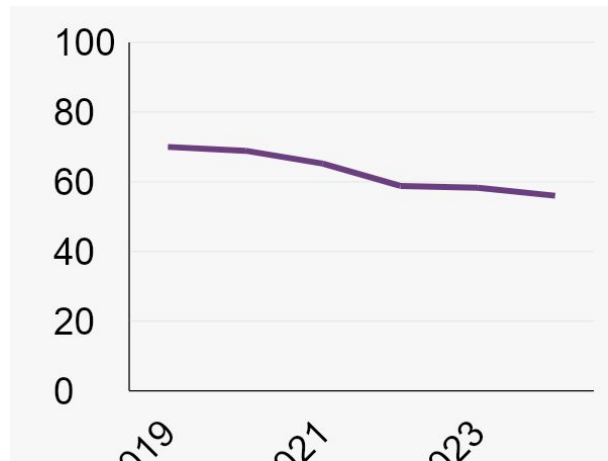
Number of stillborns per 1000 births in week 41+0 or later has decreased



Snippets from the report: remaining challenges

Hip fracture

Share of patients receiving surgery within 24h has decreased



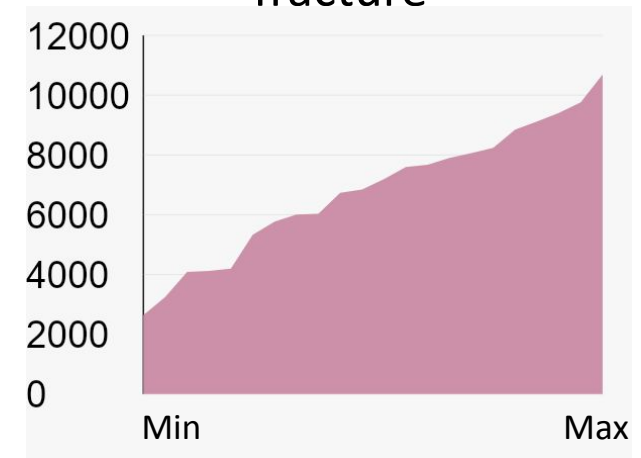
Hip replacement

Share of patients who wait less than 90 days for their surgery has decreased



Osteoporosis

Substantial variation across regions in the number of subsequent fractures after an initial osteoporotic fracture



Discussion

- Access to surgery as a key challenge
- Regional differences in surgery frequency rates
- Bringing in more perspectives on unwarranted inequality
- Health data to monitor quality improvement – challenges and new data sources
- Using data to monitor progress is a key component of quality improvement, but does not always tell the whole story

Summary

- The nationwide system for knowledge-based management in Sweden aims to promote quality improvement and health equity
- First joint report from the 26 program areas will be published on June 13th
- The report contains many examples of progress but there are still challenges ahead, especially related to access to healthcare

Thank you for your attention!

**Visit www.kunskapsstyrningvard.se for more
information**