

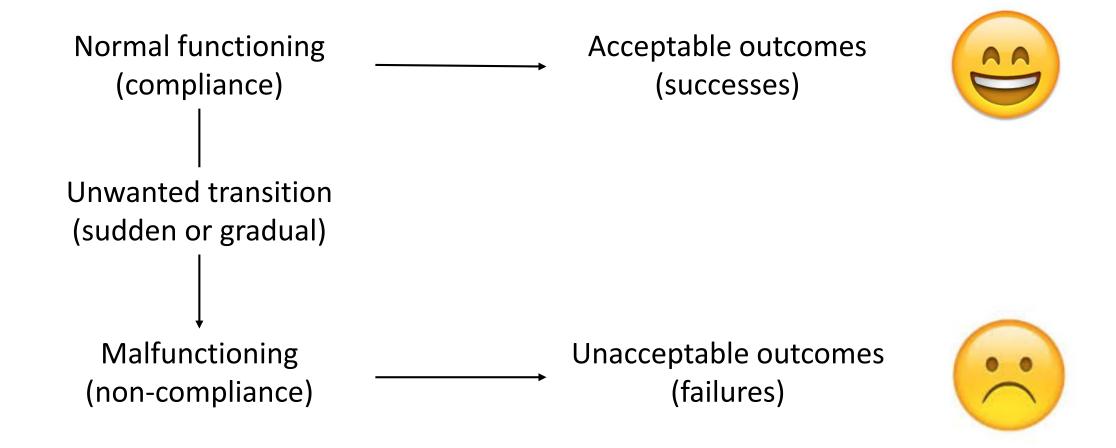
Work-As-Imagined (WAI)



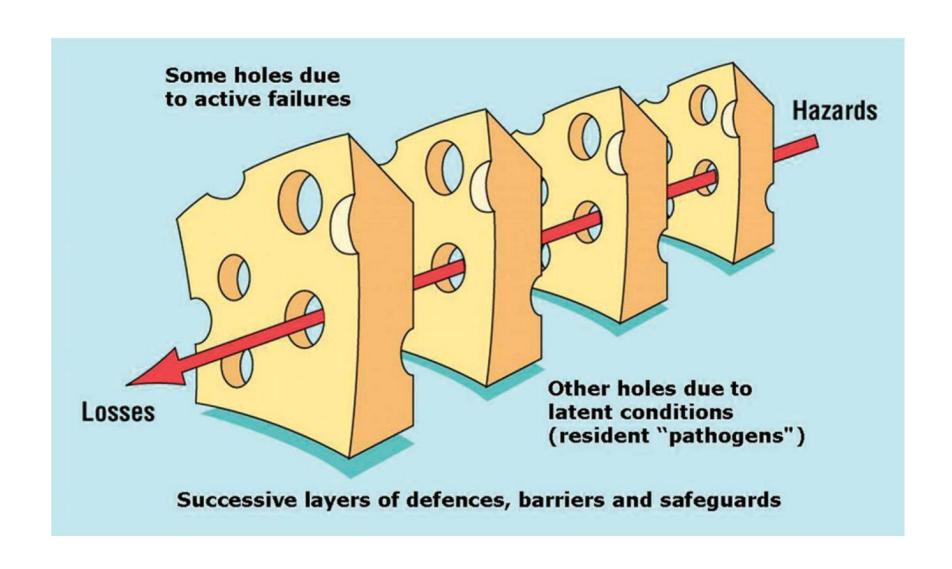
The Aim of Safety

That as few things as possible go wrong

The Current View of Safety – Safety I



The Swiss Cheese Model











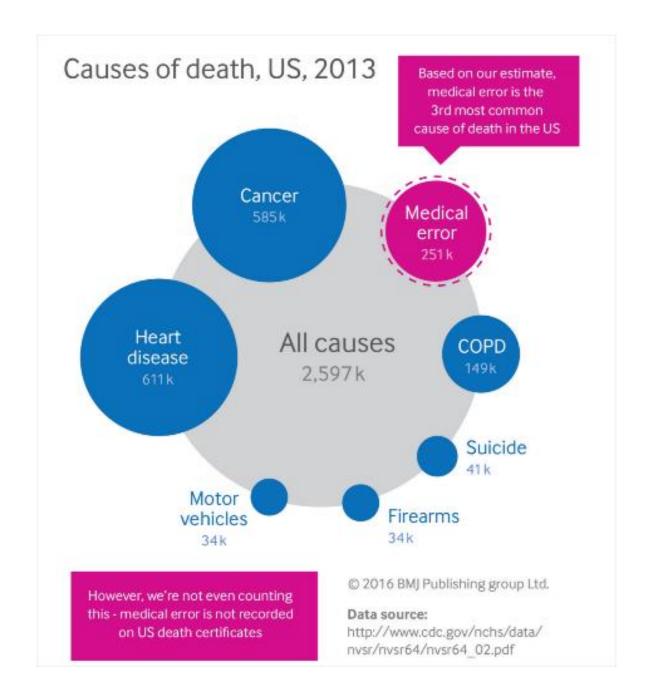


People are a liability

Safety - I

Definition of safety	That as few things as possible go wrong
Safety management principle	Reactive; responds when something happens or something is deemed an unacceptable risk
View of the human factor in safety	Humans are predominantly seen as a liability or hazard
Accident investigations	Accidents are caused by failures and malfunctions. The purpose of investigations is to identify the causes.
Risk Assessment	Accidents are caused by failures and malfunctions. The purpose of investigations is to identify the causes and contributory factors

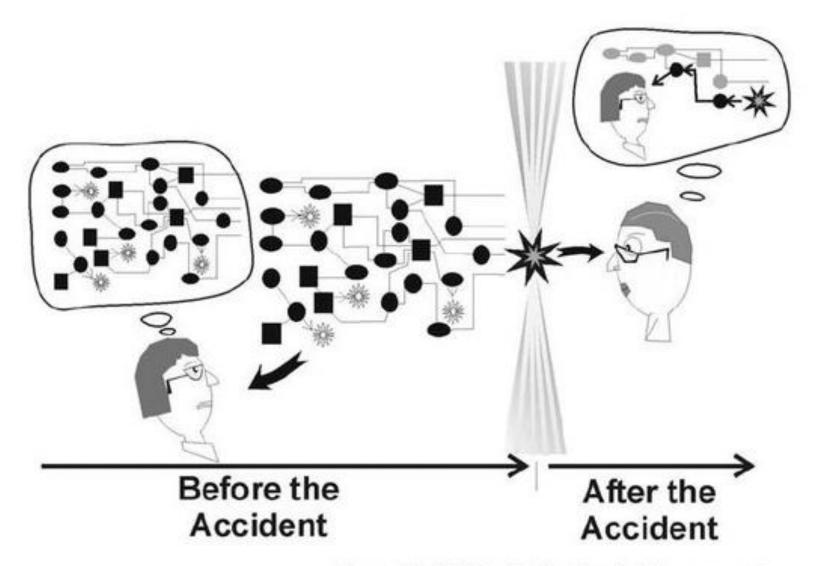
Progress?



Why isn't it working as hoped?



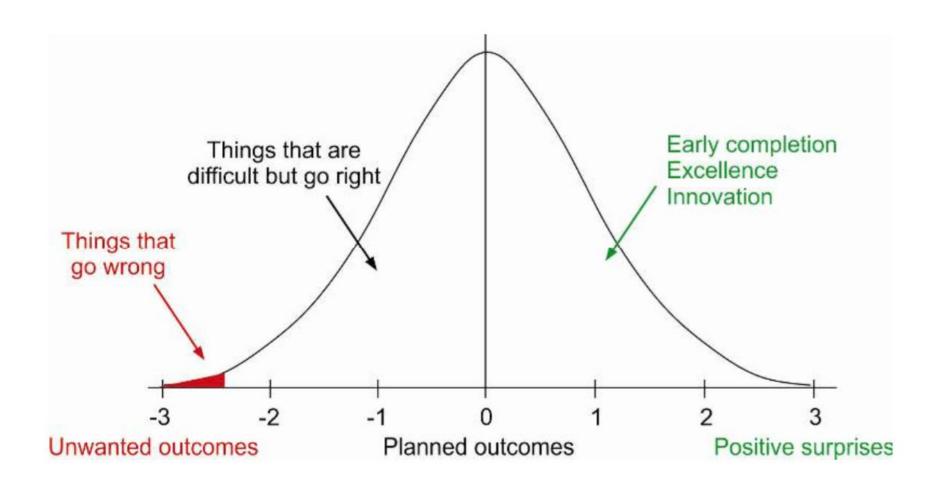




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Limits Learning About Our Systems



Trying to understand safety by only looking at incidents...

...is like trying to understand successful marriage by only looking at divorces.



Creates Brittleness

Hides the sources of Adaptability and Innovation



We Design Our Systems Looking Back



"Things that never happened before happen all the time"

Can Make Normal Work Harder

10⁻⁴: = 1 failure in 10.000 events

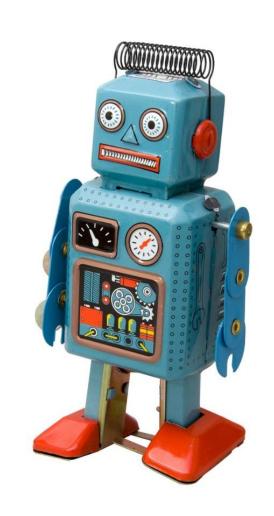
1 - 10⁻⁴: = 9.999 non-failure in 10.000 events

and More Complex

Changes the way we see ourselves



Healthcare Worker



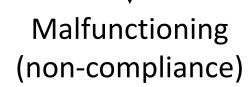
Patient and family

Zero or -1 ?

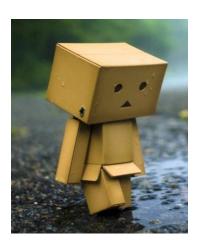
Normal functioning (compliance) "Nothing to see here"



Unwanted transition (sudden or gradual)



"I can't believe you did that"



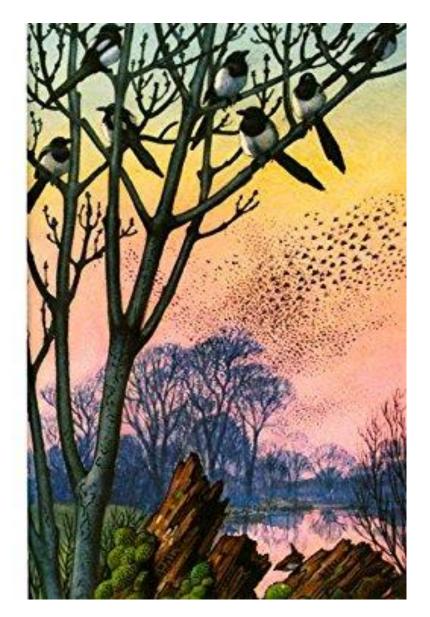
Upgrade the Components

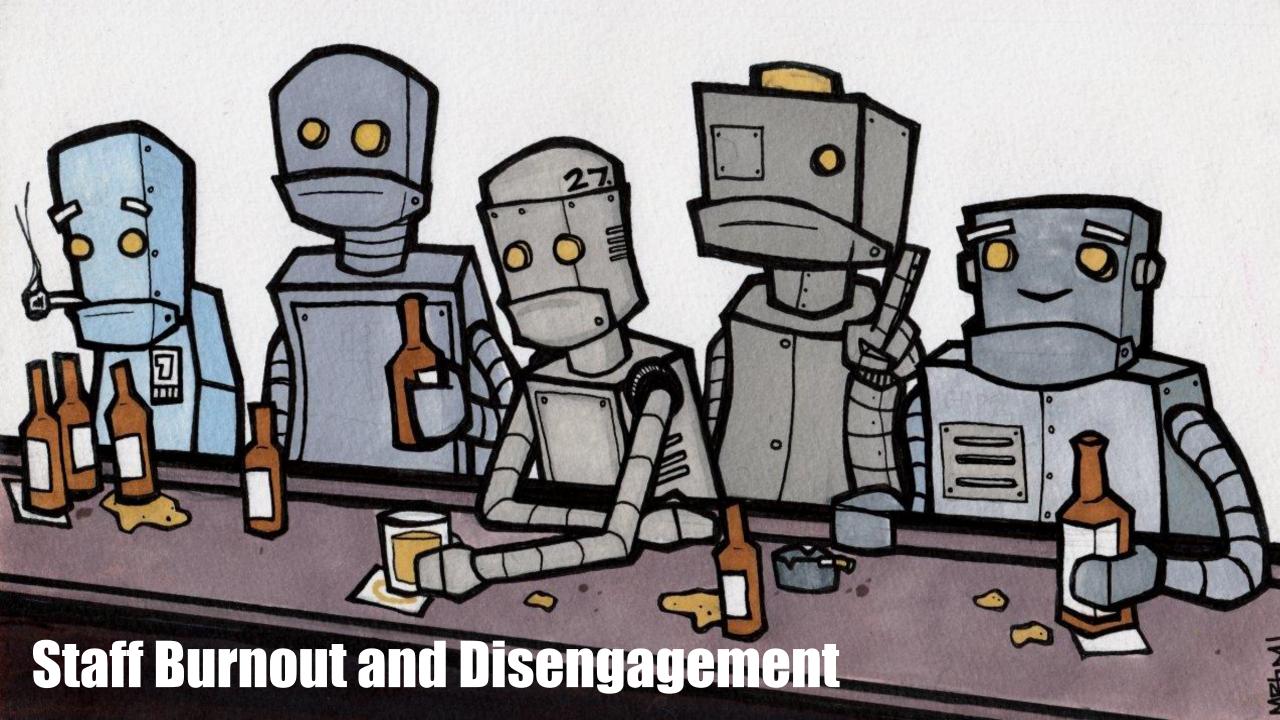
- Re-education
- Mindfulness
- Empathy training

Leanne has been staring at this beautiful tree for five hours.

She was meant to be in the office. Tomorrow she will be fired.

In this way, mindfulness has solved her work-related stress.





Better Health for the Population



Improved Provider Satisfaction

Quadruple Aim

Better Care for Individuals

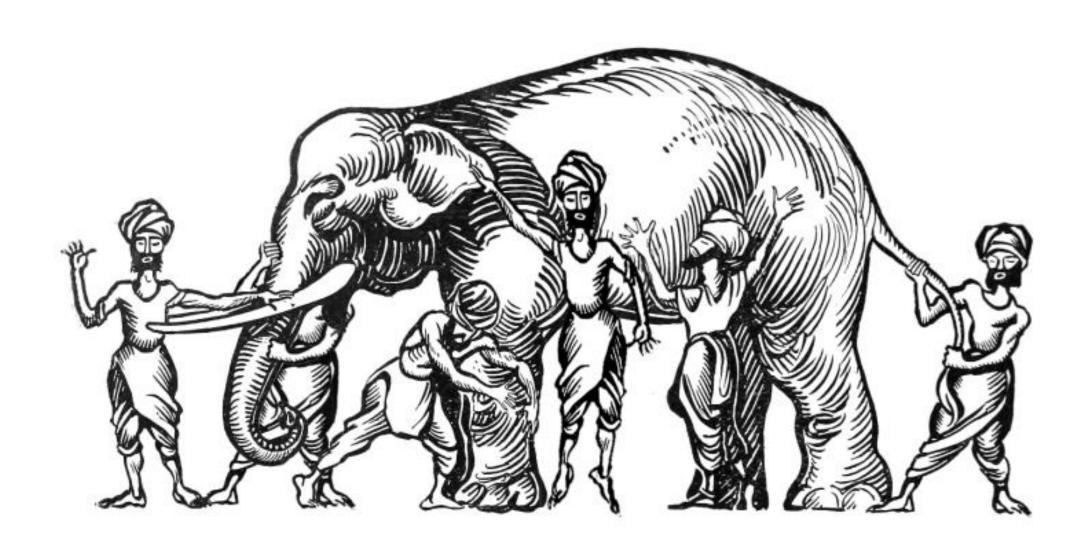






"When we fix the wrong thing for the wrong reason, the problems continue to happen.

It's costly and demoralizing"





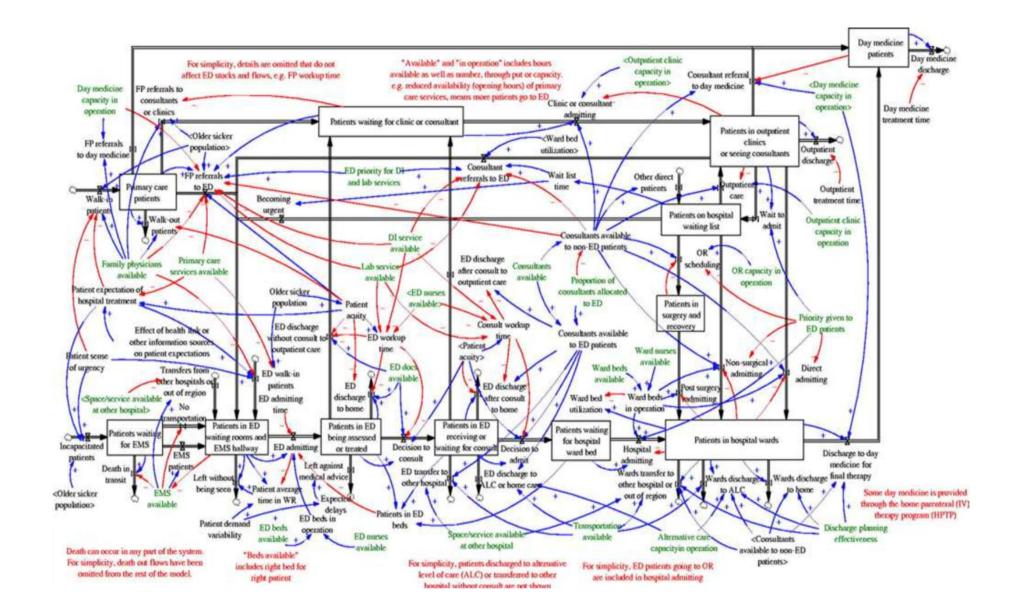


The Cheese Is ALIVE!



Starlings by Elbow 2008

Work-As-Done (WAD)

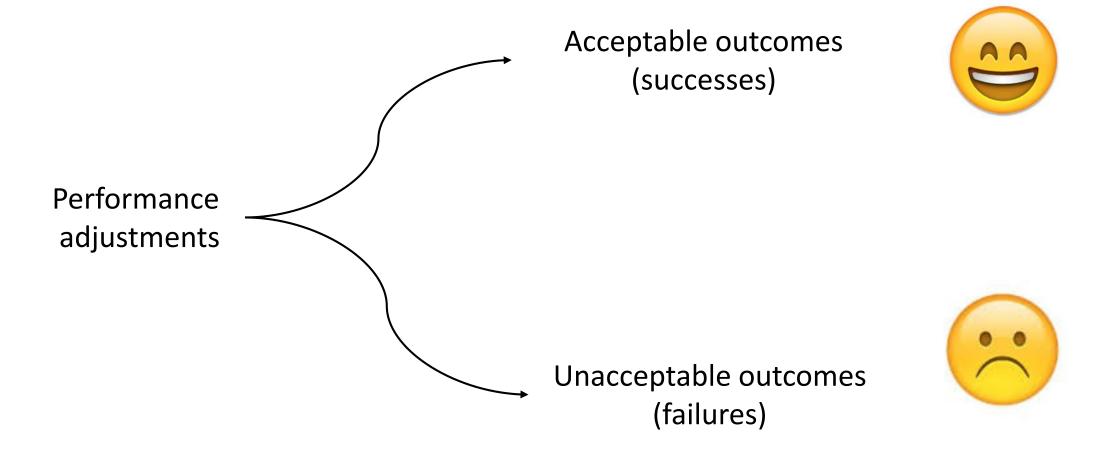








The New View — Safety II



The system only succeeds

because people/teams

are able to adjust to meet the

conditions of work

Complexity is the problem...



People are the solution

The New Aim of Safety

That as many things as possible go right

Safety - II

Definition of safety	That as many things as possible go right
Safety management principle	Proactive, continuously trying to anticipate developments and events
View of the human factor in safety	Humans are seen as a resource necessary for system flexibility and resilience
Accident investigations	The purpose of an investigation is to understand how things usually go right as a basis for explaining how things occasionally go wrong
Risk Assessment	To understand the conditions where performance variability can become difficult or impossible to monitor and control







It's About Which Model Matches Reality





and everything will look different



There is nothing so practical as a good theory.

— Kurt Lewin —

Safety II – a Clinicians Perspective

- 1. Make usual success more likely
- 2. Learn from all events
- 3. Build resilient teams and systems

1. Make Usual Success More Likely

Are you making failure less likely?

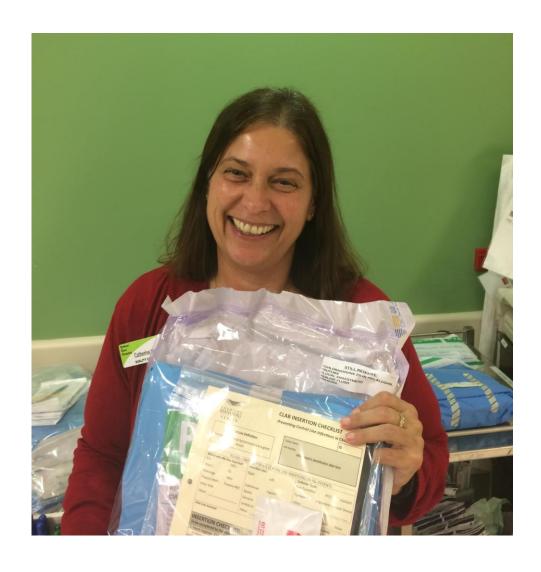


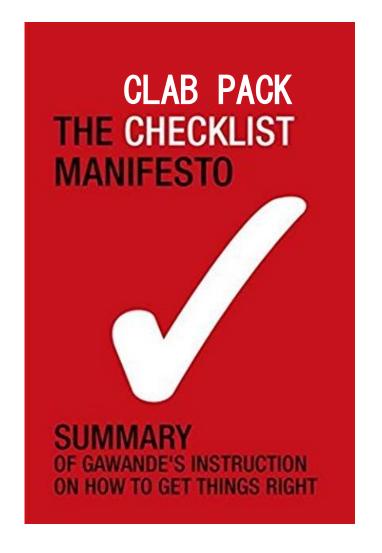
Or usual success more likely?

Human Factors

...the scientific discipline concerned with the understanding of interactions among humans and other elements of a system...

to optimize human well-being and overall system performance





See also Catchpole, K. Russ, S. The Problem with Checklists BMJ Qual Saf June, 2015

Quality Improvement

- Being curious about Work-as-Done
- Small and continuous reorganizing
- Changing upstream conditions

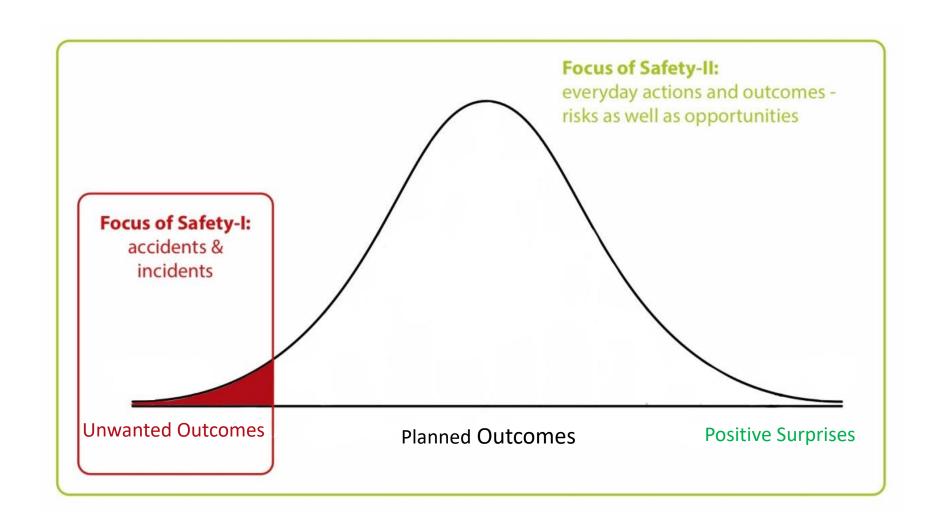
Clinicians are the only ones who have fundamental knowledge about the workflows that define their care. But they don't control the systems that set the context within which they work. The key question for a leader is, how do we make it easy for them to do it right?"

"If culture eats strategy for breakfast,

infrastructure eats culture for lunch"

Brent James, Chief Quality Officer Intermountain Healthcare NEJM Catalyst July 2017

2. Learn from all events

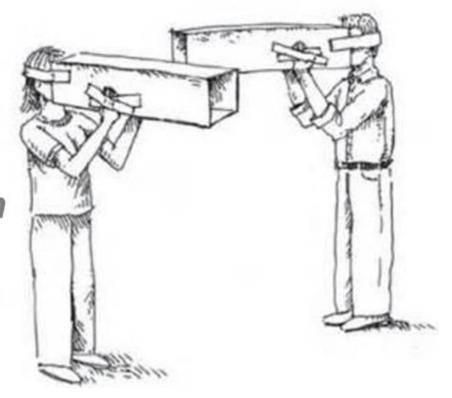


Focus on Learning

How did that seem the right thing to do at the time?

Local Rationality

People do things that make sense to them, given their goals, understanding of the situation and focus of attention at that time.

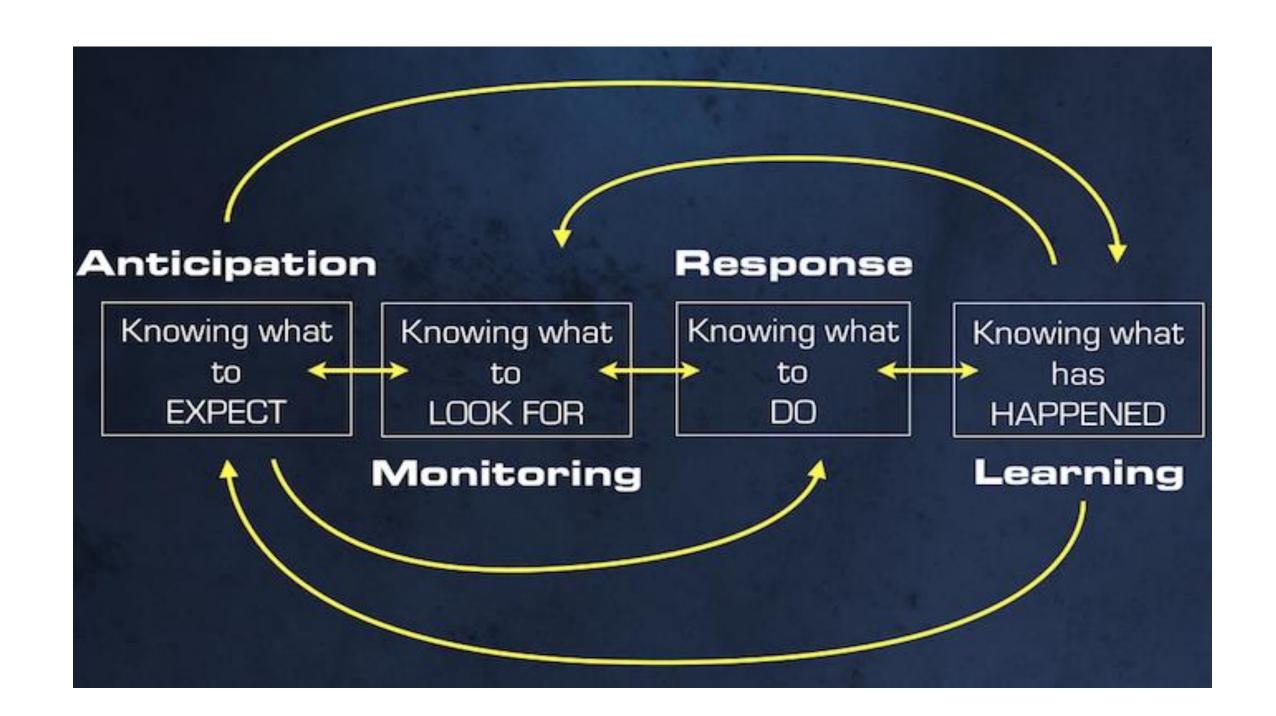


3. Build Resilience in Systems and Teams

Resilience

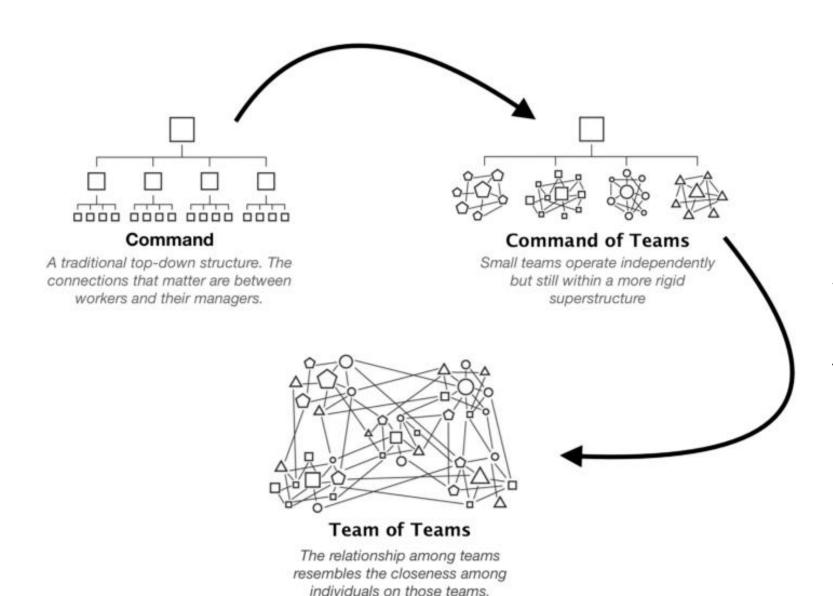
is the ability of the team/system to monitor and adjust performance to achieve its goals,

even when the unexpected happens.



"In complex environments, resilience often spells success, while even the most brilliantly engineered fixed solutions are often insufficient or counterproductive."





"In complex environments, resilience often spells success, while even the most brilliantly engineered fixed solutions are often insufficient or counterproductive."

A Change in Communication



Psychological safety

A shared belief held by the team

that the team is safe for

interpersonal risk taking

Google "Project Aristotle" (see rework.withgoogle.com)

Patients/ Whānau

- Part of the team, not passive recipients of care
- Co-design vs
 Individual needs



Leadership

- Goals, not tasks
- Creating the space for adaptive work
- Balancing creativity and constraint





A Resilient System for Deteriorating Patients

ANTICIPATE	Advanced Care Planning and Goals of Care Building a shared understanding AMBER care bundle
MONITOR	NZEWS Korero Mai
RESPOND	Rapid response teams PAR/outreach
LEARN	Understanding Work-as-Done Making usual success easier

We Are All Part of the Context



















Public

Summary

- We work in a complex adaptive system, not a factory
- People and teams create safety every day
- Design your systems to make it easier for them

