

HOW WE ALL CAN WORK
TOGETHER BETTER

BRIAN GOLDMAN, M.D.

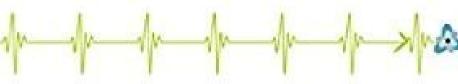
BESTSELVING AUTHOR OF THE NIGHT SHIFT AND THE POWER OF MINDNESS

Dr. Brian Goldman



ANNANANA.

THE POWER



of KINDNESS



Why Empathy Is Essential in Everyday Life

BRIAN GOLDMAN, MD

HOST OF CBC RADIO'S WHITE COAT, BLACK ART

Objectives

1

Why I chose
teamwork as the
topic of my book

2

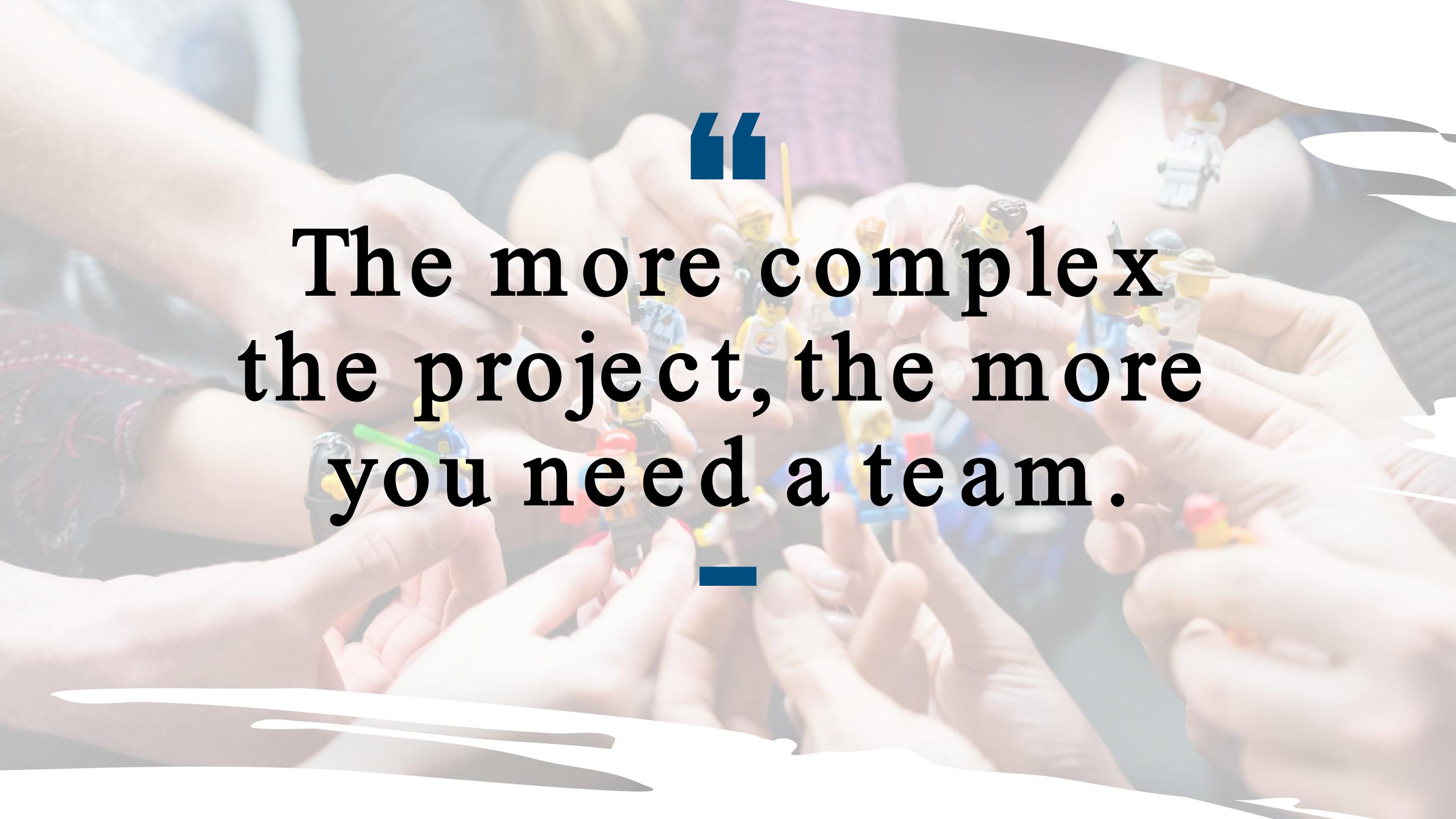
Teamwork stats
in the age of the
great resignation

3

The case for teamwork: safety efficiency and less burnout

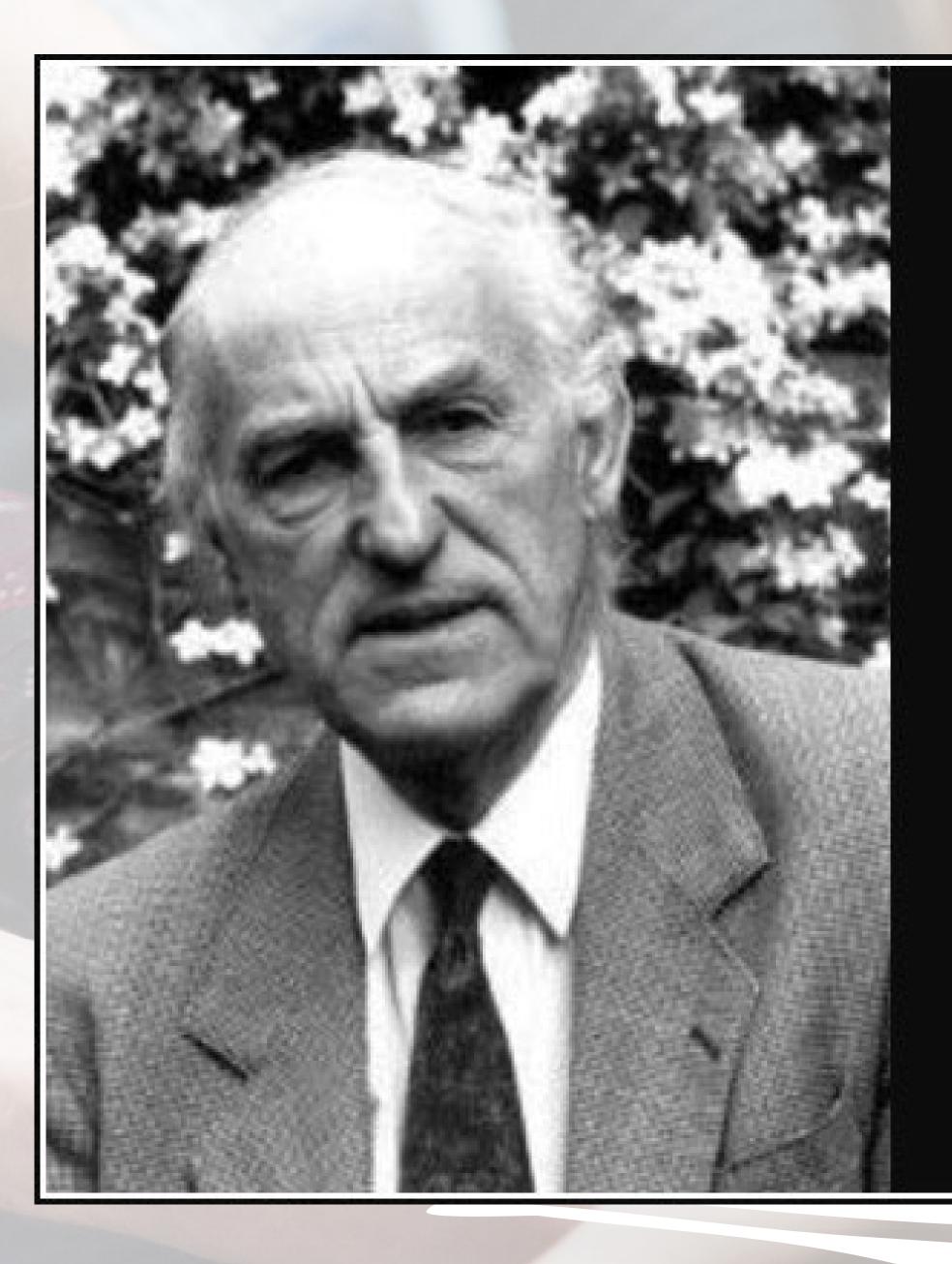
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Discover team
cohesion in
expected and
unexpected ways



a distinguishable set of two or more people who interact dynamically, interdependently, and adaptively toward a common and valued goal/object/mission, who have each been assigned specific roles or functions to perform, and who have a limited life span of membership

Salas, 1992



A team is not a bunch of people with job titles, but a congregation of individuals, each of whom has a role that is understood by other members.

— Meredith Belbin —

AZ QUOTES

Super-efficiency in the brain

13

Co-operative jugglers share neural pathways that activate the same areas of the brain.



At the same time different neural pathways compliment each juggler.

But the initial COORDINATION COST discourages many from trying. Unless you think of it as an INVESTMENT



Benefits of teamwork in healthcare

More accurate diagnosis More appropriate treatment Better outcomes Improved access to expert providers Greater productivity and e ffic ie ncy Improved safety Lower absenteeism Less cognitive stress Lower burnout



Military and medical cultures



S im ila ritie s:

- Hierarchical
- Leaders who may dislike uncertainty
- Fire and blood; violence and death
- 'Sacred' aspects
- Struggle with vulnerability
- Exposure to trauma: PTSD
- 'No one understands us except us.'
- The default is a silo

Both find teamwork challenging

What makes us strong as individuals may sometimes get in the way of teamwork.

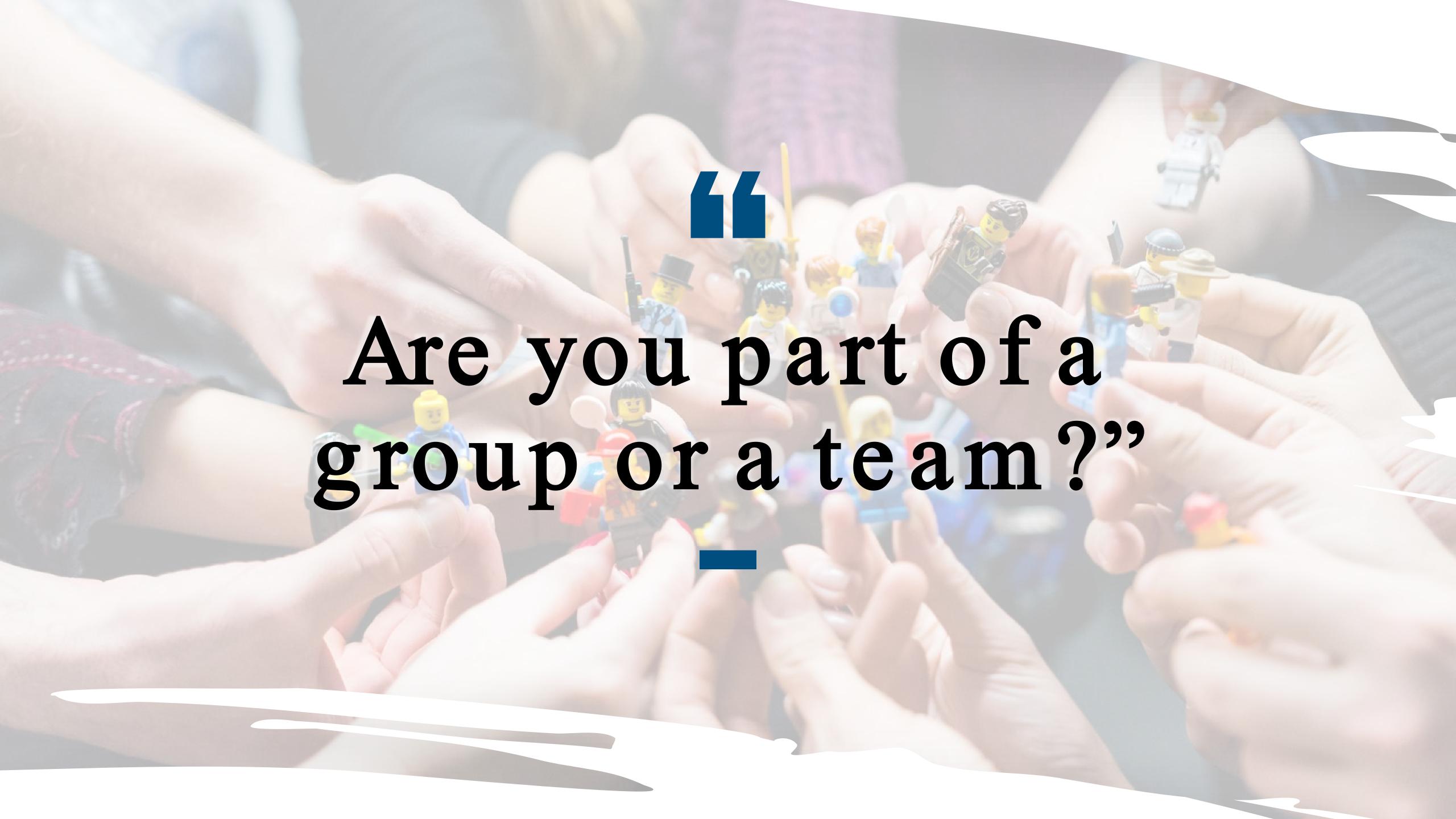
Public service culture

- Smart, capable people
- Evolving to be more inclusive
- Doesn't always feel part of 'the mission'
- "I work for DND." Strong identification
- Sometimes have trouble speaking truth to power
- 'Nobody understands us like us."
- The default is a silo



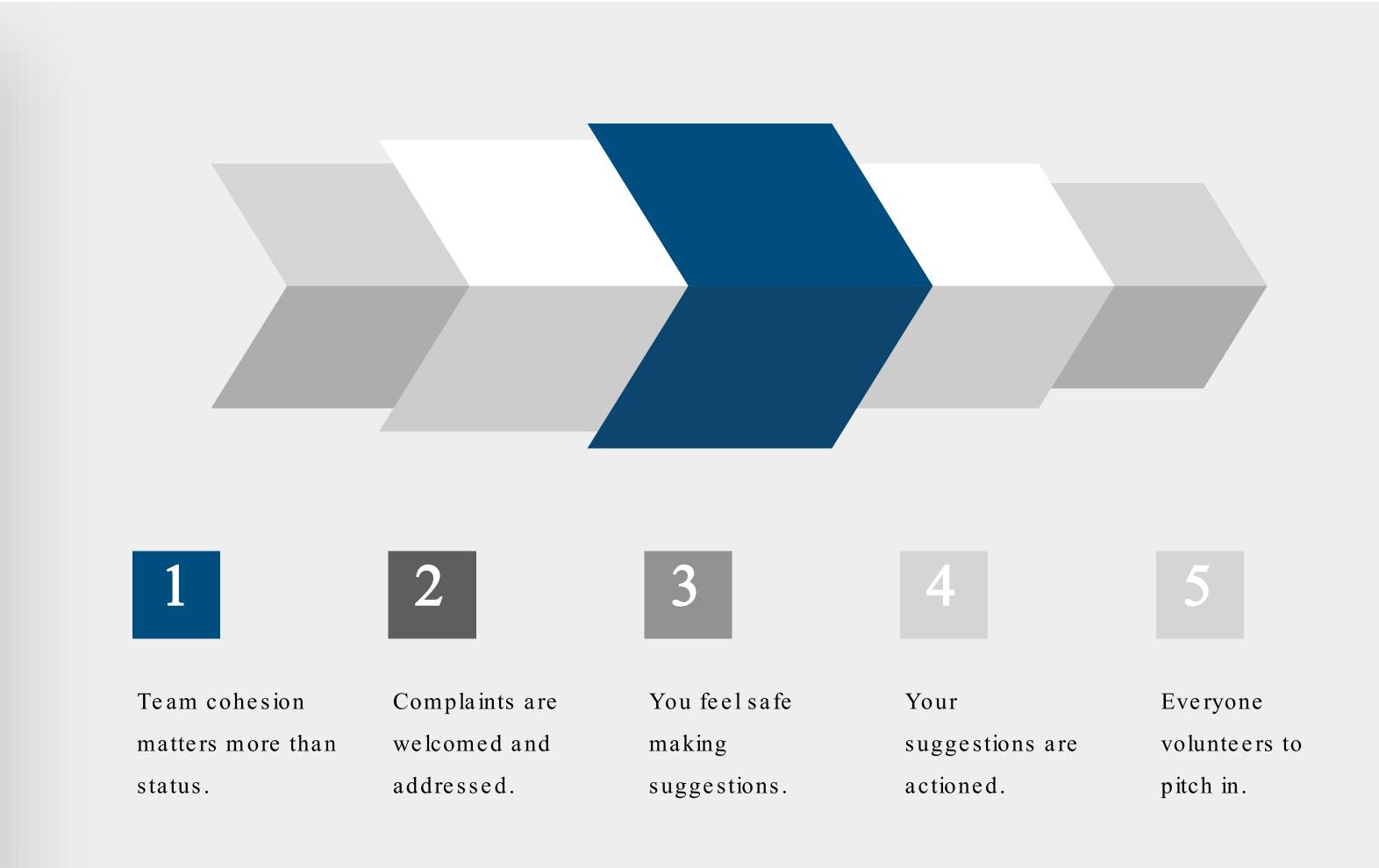






Group Vs Team

You're part of a team if:



Still think you're part of a team?



Obstacles to teamwork



System issues:

- People who mainly work on their own
- Constant turnover
- Attrition due to low wage, onerous overtime, redeployment

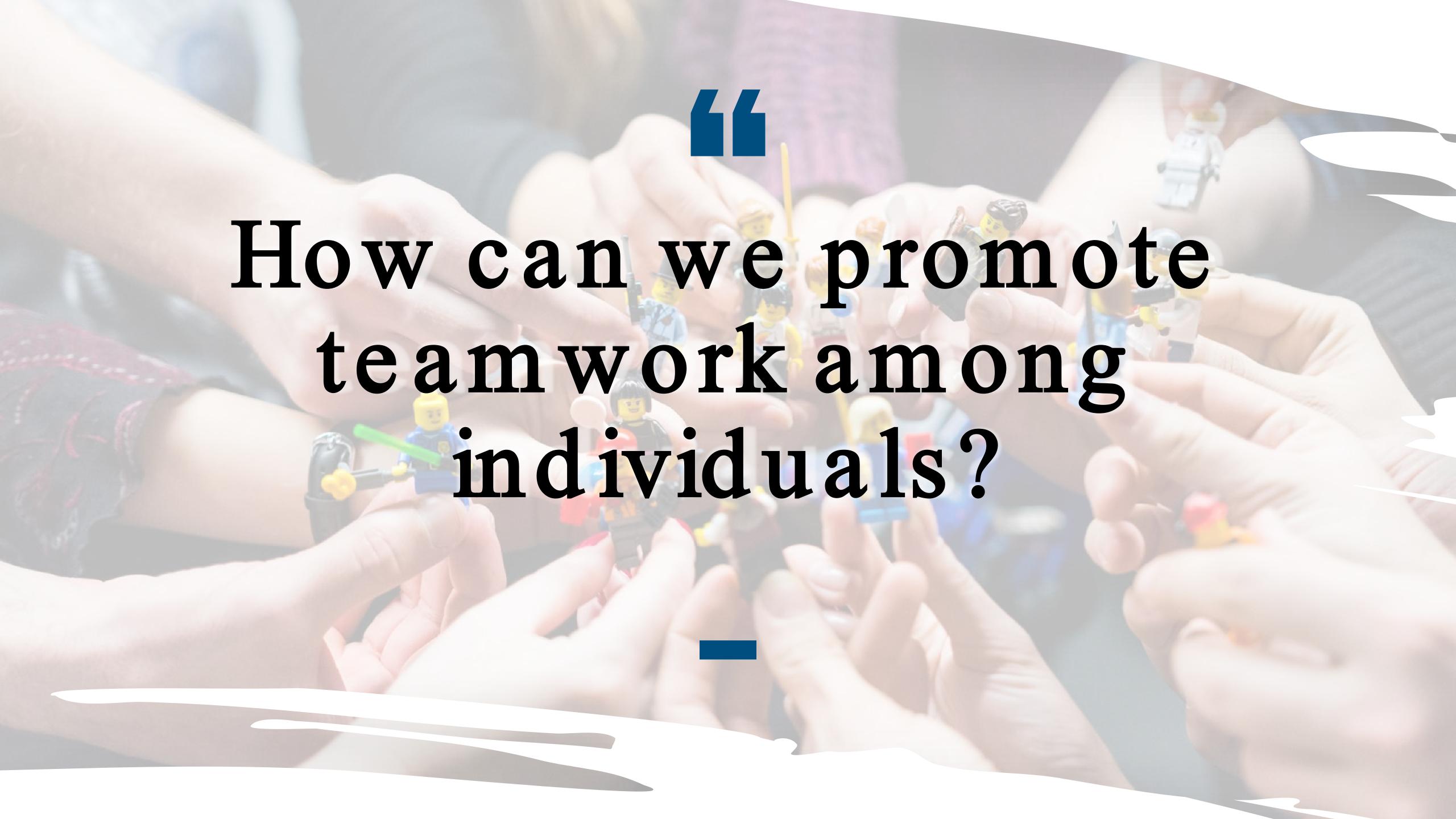
Cultural issues: system

- Hierarchical: military, healthcare law enforcement
- Siloed: healthcare

Cultural issues: individual

- "I, alone."
- Accepting help seen as a sign of weakness

Lack of knowledge & training!





Visual Thinking Strategies

Three questions

1

What's going on in this picture?

2

What do you see that makes you say that?

3

What more can we find?

Visual thinking strategies (VTS)

What's going on in this picture?

What do you see that makes you say that?

What more can we find?





- What's going on in this picture?
- What do you see that makes you say that?
- 3 What more can we find?

Team Cognition:

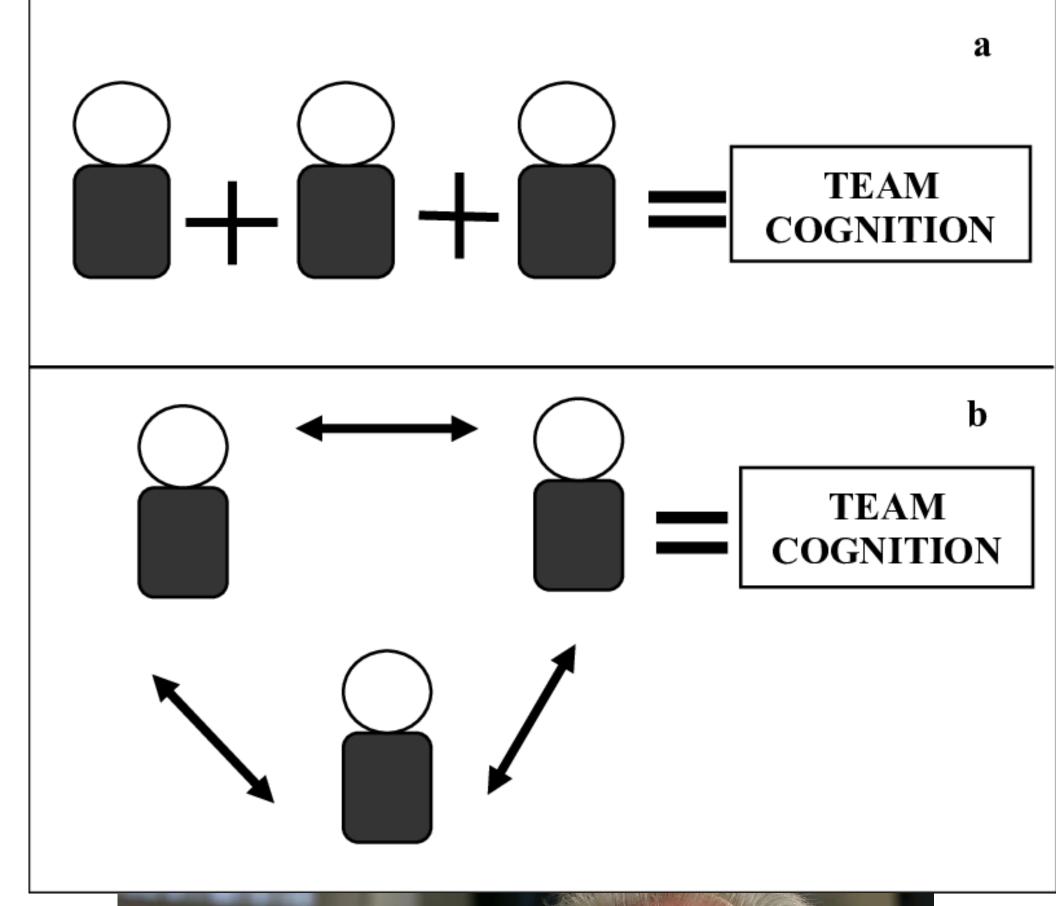
Team cognition measures interactions among teammates, it ties strongly to the task context.

- continuous behavioral interaction data
- verbal communication: unobtrusive analysis of volume, frequency, pitch, content and who is talking to whom

We need to develop ways to decode and analyze team cognition.

'There is an imperative to view the diagnostic process as a team endeavor."

Dr. Pat Croskerry
The Cognitive Autopsy: A Root Cause Analysis of Medical Decision making





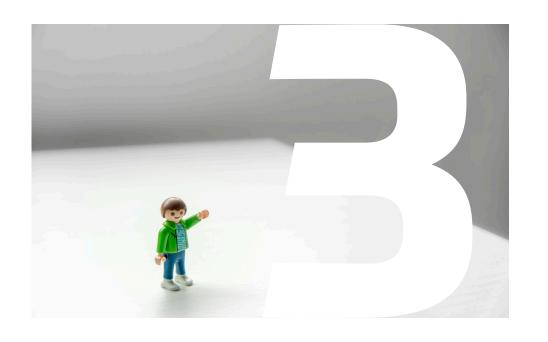
VTS: The Payoff



Critical thinking is encouraged with these questions



Reduces premature closure & other cognitive errors



Group cognition is more accurate than solo



Creates a safe space for EVERYONE to say what they see

Leans into uncertainty

Medicine uses VTS

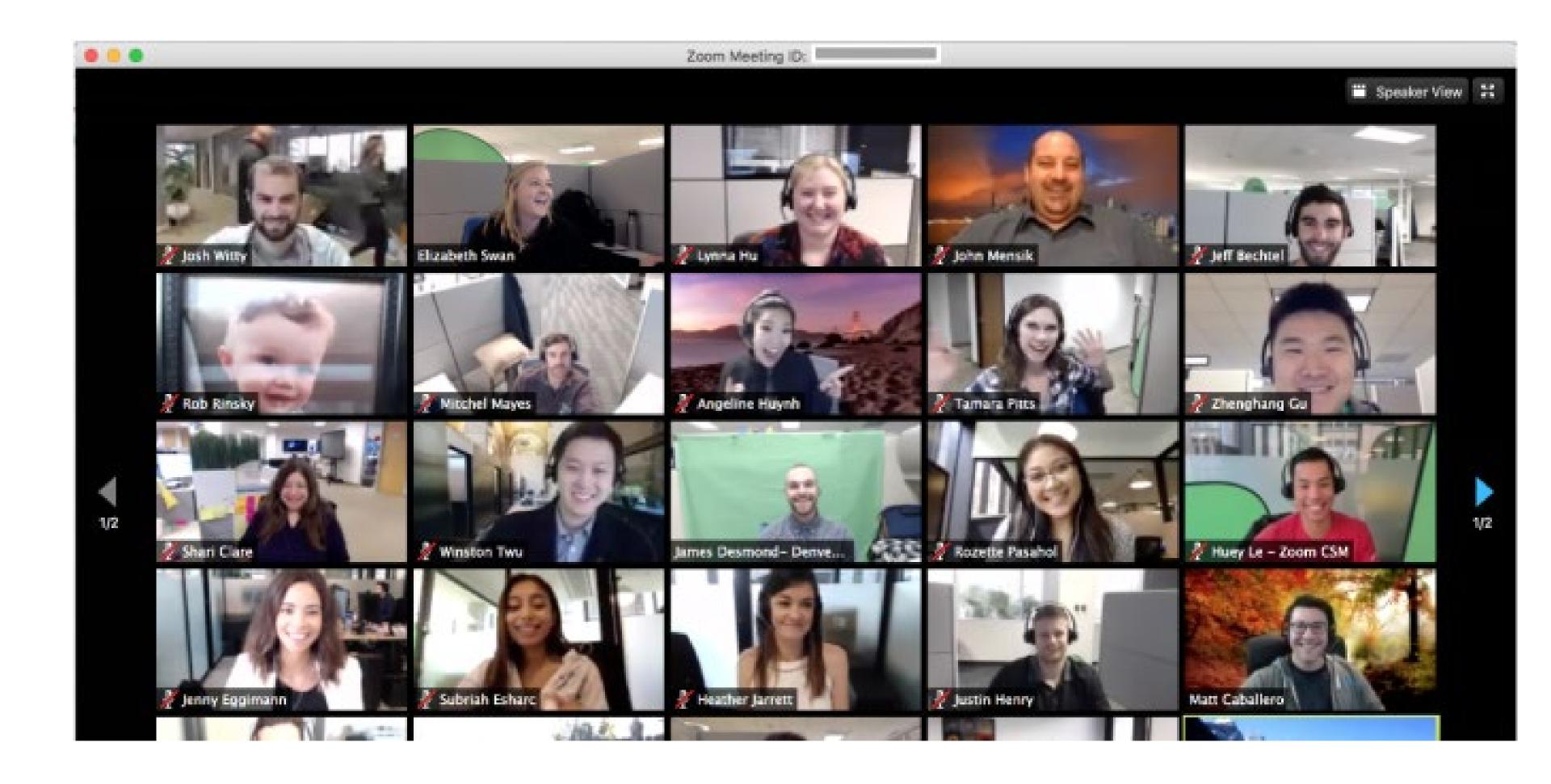
At the clinical bedside

And at a 'Protected Code Blue' (PCB) or a trauma resuscitation

At meetings



At virtual meetings



Crew Resource Management

Training procedures for environments where human error can be deadly



CRM: The Payoff



Fosters a culture where authority may be questioned



Team includes
EVERYONE with skin in
the game



Can be used in the OR to manage unexpected emergencies

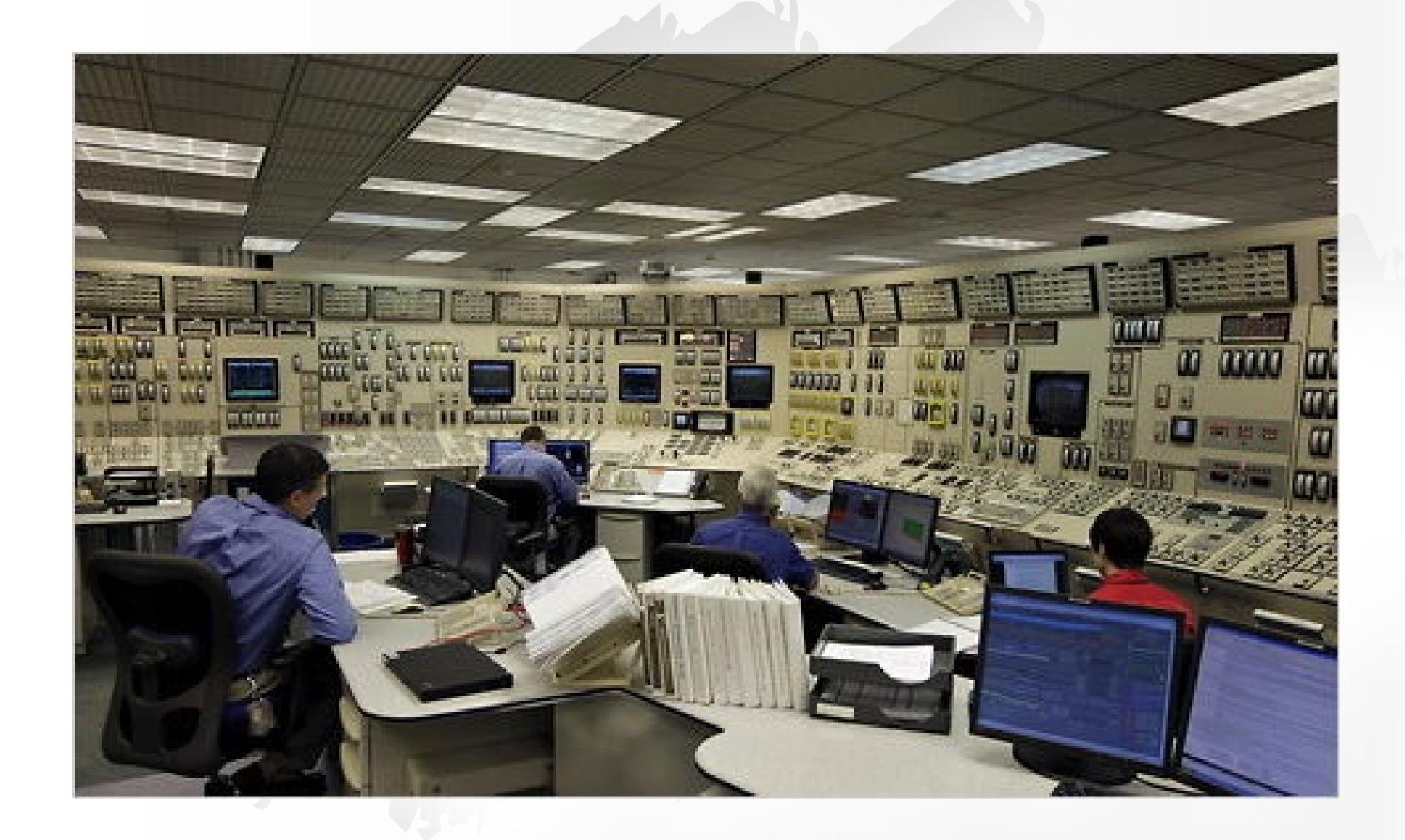


Pilots teach OR staff.
Culture change
requires more effort

Crew Resource Management

"Teams make up US nuclear power plants
(NPPs) Main Control Rooms (MCR), and it has
been this way from the beginning of
commercial NPPs. A group of people randomly
in place, however, does not guarantee they act
together as a team. Teams without teamwork
defeat the purpose of teams."

Frank Wurster, P.E., Lead Instructor -Licensed Operator Continuing Training at Nawah Energy Company





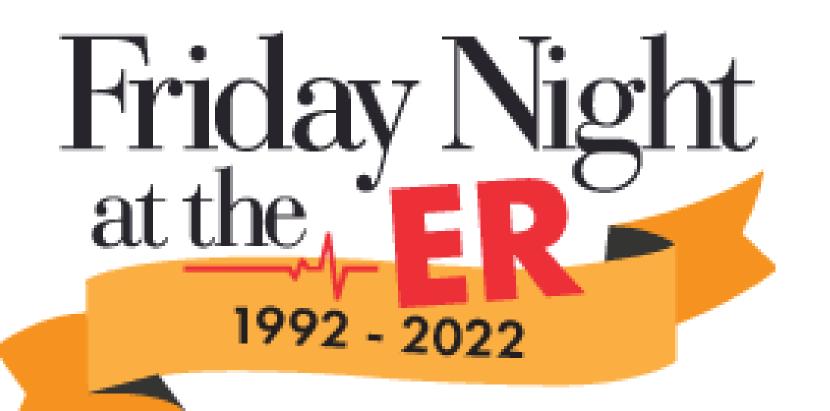
Are your regular meetings the place where great ideas go to die?

YES+AND=IMPROV

- 1. You receive a scenario.
- 2. First person makes a statement about the scenario by beginning with the words, 'Yes, and...'
- 3. The second person replies to what the first person said with the words, "Yes, and."
- 4. The first person replies to the second person beginning with the words, "Yes, and" and so on.
- 5. The word "Yes" implies acceptance of what the other person said; the word "and" builds on what the other person said.
- 6. The key is for each person to listen carefully to what the other person has said.

Games and Simulations are a silo buster

- A board game that shows managers how a hospital runs better on cooperation instead of competition
- A win' for my silo is a 'loss' for the team and vice versa
- Used by Fortune 500 companies, the CIA and EPA







Trevor Jain



Overseeing the largest makeshift morgue in recent history

- Trauma and emergency physician in P.E.I.
- Awarded the Meritorious Service Medal
- Leader who gets teamwork



Swissair 111

- 229 passengers and crew remains had been identified.
- Jain did it by leveraging skills gleaned from pathology and the military.
- And by listening to everyone on the team. Especially the least advantaged.

How Dr. Jain turns silos into a team on overseas missions

- Job 1: keeping commanding officers in the loop
- Conducts field simulations and tabletop exercises
- Pre-deployment and in situ
- The 'idea' is to increase communication and empathy across silos
- A sense of humour is his other secret weapon
- Could you make use of a similar approach?



Agood team leader









Asks instead of answers questions

Delegates instead of taking on every task

Knows team members' 'superpower'

Encourages team to work to potential & doesn't throw them under the bus

Operating Room Black Box

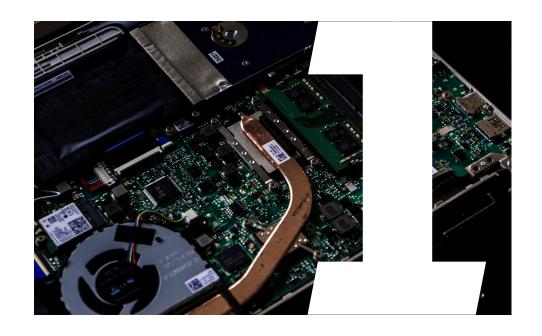
ORBB

Records everything that happens in an operating theatre, from multiple cameras and microphones.

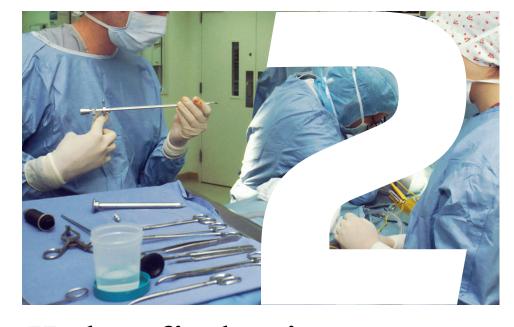
- Pixilated images and disguised voices
- Vital signs and machine parameters
- Full access to electronic record
- Sensors on all instruments



ORBB: The Payoff



Problems are identified without blame



Helps find miscounts
of surgical
instruments in
operations



May detect errors
during the operation
before they cause harm



Shows how surgeons, scrub nurses, and anesthesiologists interact as a TEAM

Three silos: one team



- The ORBB revealed that 3 silos with 3 different goals and 3 different critical moments
- Each distracted by the other 2
- What might their team objectives be as a direct result of these insights?

ORBB development: an exercise in teamwork



Team members

- Surgeons
- Nurses
- Anesthesiologists
- Coders
- Data analysts
- Clinical analysts
- Air Canada engineers
- Deep learning engineers

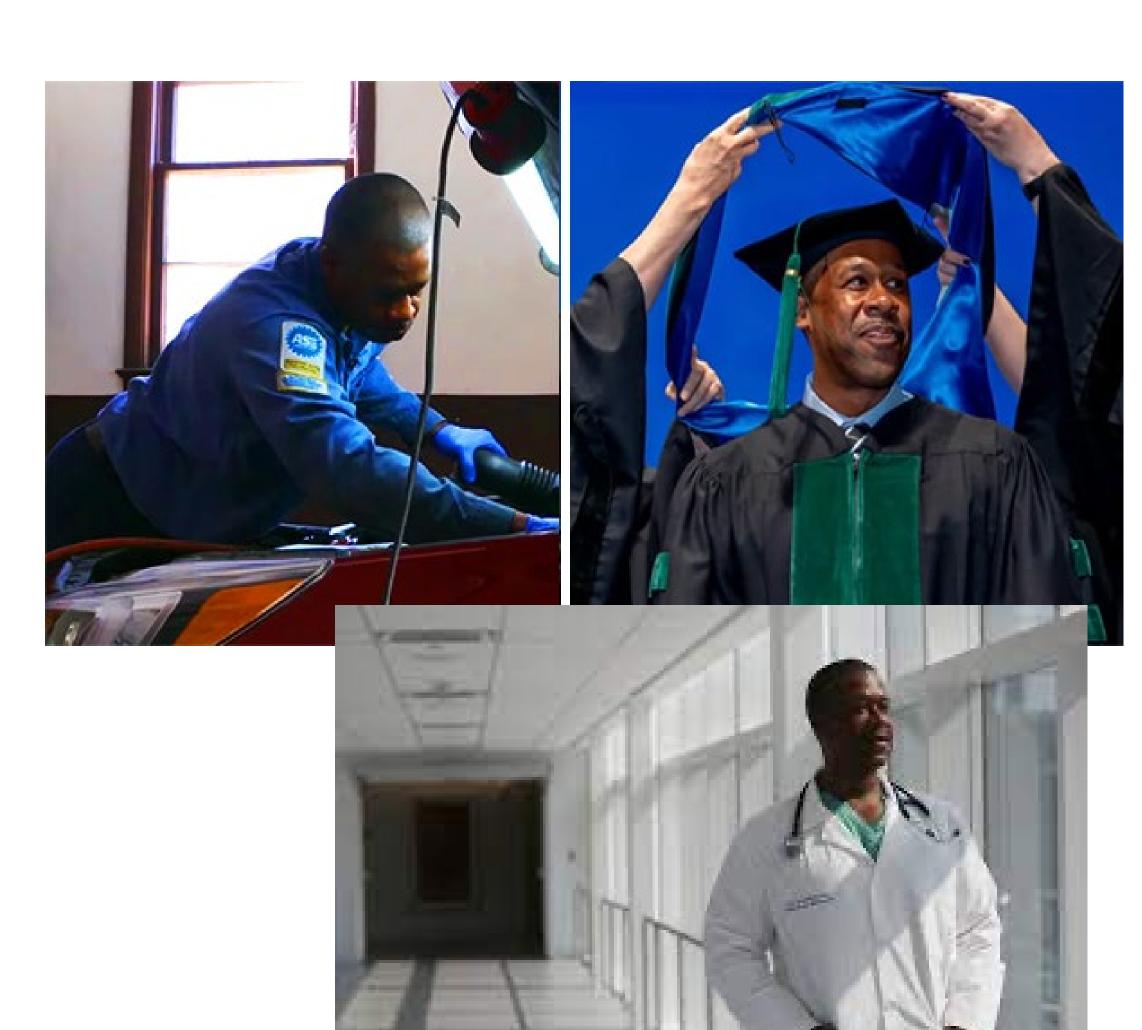
Organizational culture Four divisions:

- Administration
- Clinical analysts: evaluate errors on video
- Front-end engineering team: create apps
- AI engineering team: deep learning
- Flat hierarchy
- Clinicians and computer experts works closely with one another

Help from outside of the silo

Carl Allamby ran a successful repair shop in East Cleveland Got his MD and did ED residency He says ED patients are like customers who need emergency car repairs

The Allamby example works because he's from outside yet embedded inside.



Teamwork at BCNET



HOW WE DO WHAT WE DO

- We foster a cooperative community by forging successful collaborations among members, industry and government by:
- Fostering member involvement through our governance and committees
- Leading IT-related initiatives, procurements and service development in partnership with our entire membership
- Negotiating service agreements on behalf of our membership
- Measuring and reporting our service adoption
- Building strategic alliances with industry partners
- Brokering connections through city and community partnerships

FOSTERING COMMUNITY at BCNET



Our collaborative culture translates into tangible and measurable results.

"We cultivate a strong community, where members can actively engage with peers to share, explore and develop innovative solutions for mutual challenges.

Our unique collaboration model is carefully designed to support member engagement every step of the way. We facilitate forums and events across domains for discussion, learning and the development of shared service delivery. Our members are a part of an important exchange where they tackle a spectrum of topics—from networking and cybersecurity to procurement and shared systems and technology services."

Team basics: how to get started







Support Awareness Research

- Do you have team's goals?
- What's our mission?
- Has everyone had a say in establishing team goals?
- Fundraising and membership targets
- Service goals
- Research priorities
- Media recognition
- Public and/ or government advocacy
- It's NOT Win-Lose! An individual's 'loss' and a team's 'win' IS A WIN!

Share the joy!

Congratulations TO OUR 2021 RESEARCH GRANT RECIPIENTS!

This year, we have granted \$175,000 towards improving prostate cancer therapeutics, outcomes, and diagnostics



Jane Foo, Graduate Student

\$25,000 for
'Structure-based
Development of MYC
Inhibitors for Neuroendocrine
Prostate Cancer'



Dr. Felipe Eltit, Post-Doctoral Fellow

\$50,000 for 'Effects of Prostate Cancer Metastasis in Vertebrae'



Dr. Stephen Yiu Chuen Choi, Post-Doctoral Fellow

\$50,000 for
'Optimization and
Validation of MCT4targeting Small Molecule
Inhibitors for Treatment of
Advanced Prostate
Cancers'



Karan Khanna, Graduate Student

\$25,000 for 'Biomarker analysis of extracellular vesicles to improve prostate cancer detection'



Ugur Meric Dikbas, Graduate Student

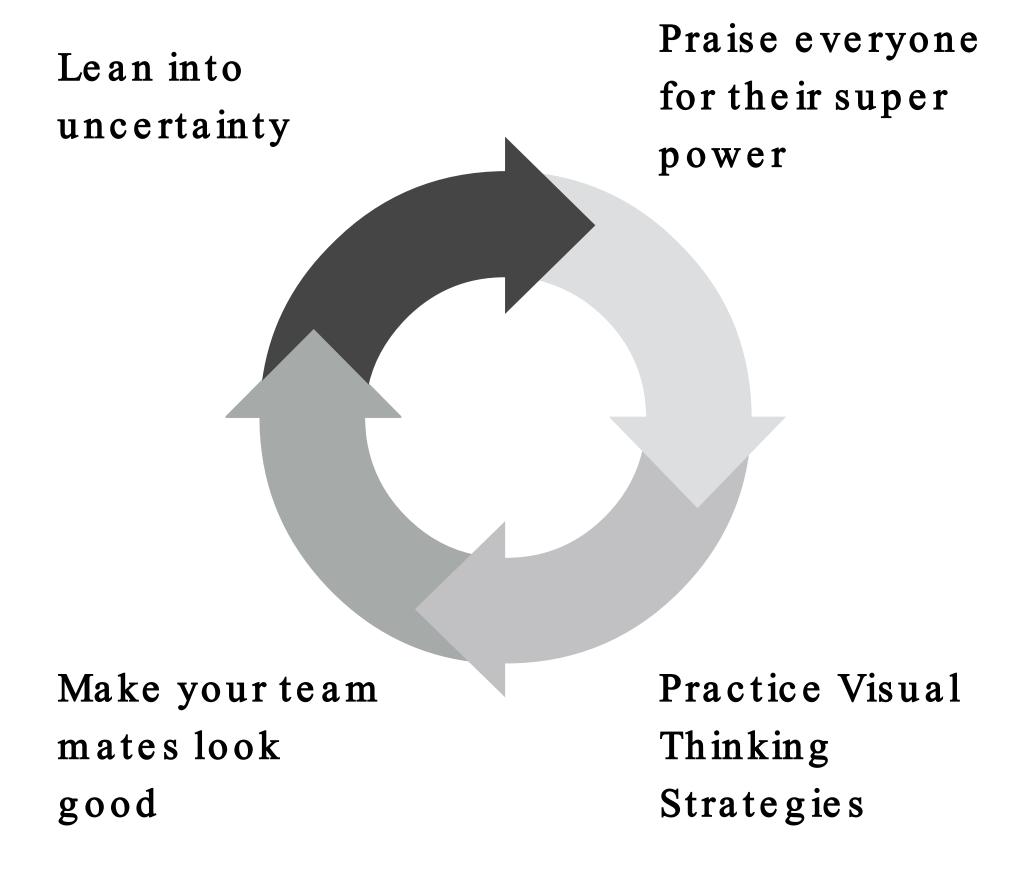
\$25,000 for

'Structural Characterization of
HOXB13 as a novel
pharmacological target to treat
castration resistant prostate
cancer'



- Shared team goals means shared joy
- When was the last time you fist-bumped and said, "We did it!"





What can we do today?

How we all can work together better



Spread the joy!