NEW LEARNING: WHAT IS DEEP LEARNING?

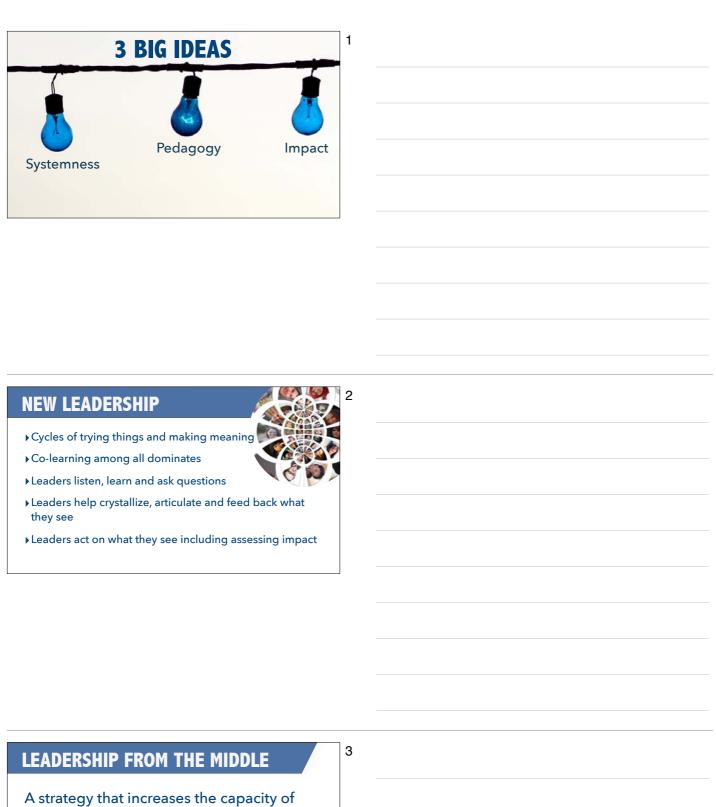
MICHAEL FULLAN PROFESSOR EMERITUS, OISE/ UNIVERSITY OF TORONTO

BILDUNG/INNOVATION/TRANSFER CONGRESS WITTENBERG, GERMANY SEPTEMBER 18-19, 2018









A strategy that increases the capacity of the middle as it becomes a better partner laterally, upward and downward.

GENERAL PRINCIPLES: EXPLOIT UPWARD; LIBERATE DOWNWARD; LATERALIZE EVERYWHERE	4
Shapes, Messaging, Invests, Interacts, Intervenes MIDDLE STRENGTHENS BOTTOM LIBERATES Liberates as it interacts laterally and vertically	

BENEFITS OF LEADERSHIP FROM THE MIDDLE

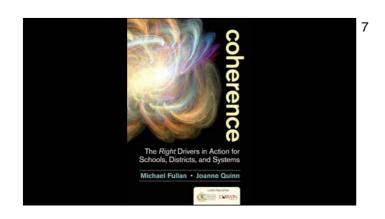


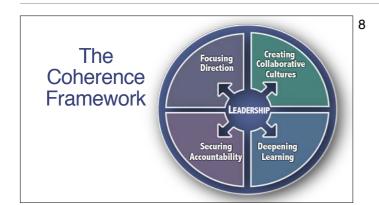
Unleashes badly needed innovation on a large scale while at the same time helping to assess and sort out what should be retained and spread.

CHANGE CHALLENGE

Turn to the person beside you and discuss one major change challenge that you are currently facing.

Commit to Identifying at least one good idea to address the challenge.







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PURPOSE DRIVEN: QUICK WRITE

- Clarify your own moral purpose by reflecting and recording your thoughts about these four questions using the quick write protocol.
- ▶ Share your thoughts with other members of your team and discuss themes that emerge.

What is my moral purpose?

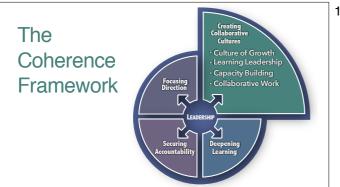
What actions do I take to realize this moral purpose?

How do I help others clarify their moral purpose?

Am I making progress in realizing my moral purpose?

CLARITY OF STRATEGY

Successful change processes are a function of shaping and reshaping good ideas as they build capacity and ownership. 12





THE PRINCIPAL'S NEW ROLE

To lead the school's teachers in a process of learning to improve their teaching, while learning alongside them about what works and what doesn't.

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INTRINSIC MOTIVATORS

- Sense of purpose
- Mastery
- Degree of autonomy
- Connectedness

ANDY HARGREAVES MICHAEL FULLAN	
PROFESSIONAL CAPITAL	ı
Transforming Teaching in Every School	
450	
PC=f(HC, SC, DC)	ŀ

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PC IS A FUNCTION OF:

- **→**Human Capital
- **→**Social Capital
- Decisional Capital

WITHIN SCHOOL VARIABILITY

Variability of performance between schools is 36%, while variability within schools is 64%.



THE STRUGGLE BETWEEN AUTONOMY AND COLLABORATION

- ▶Autonomy is not isolation
- ▶Connected autonomy is essential
- ▶Collaborative professionalism



The Coherence Framework

Securing Accountability
Internal Accountability
External Accountability

Internal Accountability

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The Coherence Framework



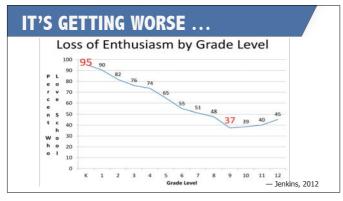
STICKY PHRASES

- 1. Go Slow to Go Fast
- 2. Talk the Walk
- 3. Use the Group to Change the Group
- 4. Precison not Prescription
- 5. Trust and Interact/Candour and Autonomy
- 6. Go Outside to Learn Inside



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EXCITING NEW LEARNING NEEDS TO BE:

- Irresistibly engaging
- ▶ Elegantly efficient
- Technologically ubiquitous
- Steeped in real life problem solving
- Involve deep learning



QUOTE WALKABOUT

Read the quotes below and select the one that most connects for you and why.

1. Resolving the equity- excellence miasma is at the heart of societal survival... p.xvii

2. Some students arrive on the doorsteps of schools every day without the readiness to learn... The stance and mindset of without the readiness to learn... The stance and mindset of the position that learning is the foundational driver and technology can be a great accelerator, p.xiii

5. The change lesson here is that we need to change the culture of learning not just the trappings or structures, p.26

the position that learning is the foundational driver and technology can be a great accelerator, p.xiii

7. Deep learning occurs when we use the competencies to engage learning occurs when we use the competencies to engage in issues and tasks of value to students and the world, p. to learning, p.69

9. Making the walls of the school transparent is not just about redesigning space but requires taking stock of the ways we can connect inside and outside the classroom, p.80

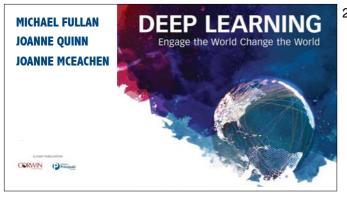
11. If the teachers and leaders are not thinking deeply, its unlikely they will create those conditions for their students, p.98

Deep Learning Tengep the World Change the World Fallen, Canna & McEachen, Conne, 2017

Deep Learning Tengep the World Change the World Fallen, Canna & McEachen, Conne, 2017

Deep Learning Tengep the World Change the World Fallen, Canna & McEachen, Conne, 2017

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WHAT IS DEEP LEARNING?



- Quality learning that sticks with you the rest of your life
- Learning that Engages the World Changes the World

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New Pedagogies for Deep Lear A Global Innovation Partnership	rning	
	New Pedagogies for Deep Learning AGLOBAL MATINEEINP	•

OUR PURPOSE

To foster deep learning so that all learners contribute to the common good, address global challenges and flourish in a complex world.

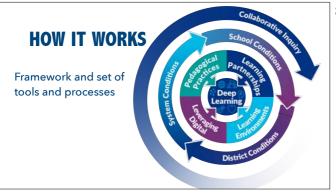


Global Competencies for Deep Learning — 6 C's Six Global competencies define what it means to be a deep learner. Deep Learning experiences are engaging, relevant, authentic and build the 6 C's. Finland Canada USA Uruguay Australia New Zealand

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GLOBAL COMPETENCIES FOR DEEP LEARNING — 6 C'S
SIX GLOBAL COMPETENCIES DEFINE WHAT IT MEANS TO BE A DEEP LEARNER.DEEP
LEARNING EXPERIENCES ARE ENGAGING, RELEVANT, AUTHENTIC AND BUILD THE 6 C'S.

CREATIVITY





CRITICAL THINKING
Critically evaluating information and arguments, seel patterns and connections, constructing meaningful knowledge, and applying it in the real world.



CITIZENSHIP





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YOUNG MINDS OF THE FUTURE





Make a note of any 6Cs you see in the Young Minds video

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Wooranna Park PS

WHAT IS DEEP LEARNING

- Learning that sticks with you the rest of your life
- ▶ Learning that connects with passion
- ▶ Learning that is team related
- Learning that has significance (Engage Change the World)
- ▶ Learning that involves higher order skills

|--|

EMERGENT DISCOVERIES



- ▶ Helping humanity
- ▶ Life and learning merge
- ▶ Students as change agents
- Working with others is an intrinsic motivator
- Character, citizenship and creativity are catalytic
- ▶ Attack inequity with excellence

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ATTACK INEQUITY

- ▶ Attack inequity with excellence and the rest will be covered.
- Don't dumb-down; Smarten-up.



https://www.thestar.com/news/gta/2016/09/05/welcoming-new-class-of-international-students-starts-at-the-airport.htm

CANARY CHILDREN

- ▶ Signs of imminent danger
- ▶ Miners trained to react; teachers not
- ▶ Attack inequity with Deep Learning
- ▶ Turned on Canary Children benefit themselves and society

(Thanks to Rebecca Wells for the idea)

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- ▶ Transformation of Learning
- ▶ Character and Citizenship (the 6Cs)
- Attack Inequity with Deep Learning
- ▶ Change Culture not just Programs and Standards
- ▶ World is Awry: Stress, Anxiety, Unpredictability

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The state of the s
Q.
What School
Could Be
Ted Dintersmith

INTEGRATION VS ADAPTING

"Most young girls are enthusiastic about science in elementary school but seldom pursue STEM careers...

Young women are far more interested in pursuing STEM to solve big challenging problems " (p. 133).

QUOTES



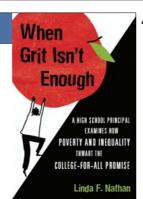
"Because STEM fields are stereotypically associated with men and masculinity, women perceive them as antithetical to themselves as female and that they do not belong in those contexts" (p. 84).

- Meredith Broussard, Artificial Unintelligence

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QUOTES

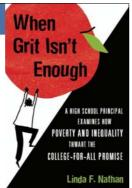
"It's frustrating to know that the kind of learning involved to pass standardized tests does not bolster students' sense of agency or belonging, and there is little room for the kind of learning that would – the kind where students deeply feel they can make change" (p. 158).



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QUOTES

"When the emphasis on grit ends up as a stand-alone pedagogy, the context of students' family life and family circumstances is ignored" (p.76).



Influence	Effect Size
Collective Teacher Efficacy	1.57
Prior achievement	0.65
Socioeconomic status	0.52
Home environment	0.52
Parental involvement	0.49
Motivation	0.48
Concentration/persistence/engagement	0.48
Homework	0.29

The Power of Collective Efficacy, Jenni Donohoo, John Hattie, & Rachel Eells, Educational Leadership, March 2018

COLLECTIVE EFFICACY

- Shared belief in conjoint capacity to produce results
- Primary input is 'evidence of impact'
- Culture of collaboration to implement high-yield strategies
- → Leader participates in frequent, specific collaboration

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IT'S TIME TO TRANSFORM LEARNING