



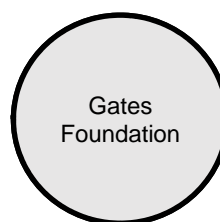
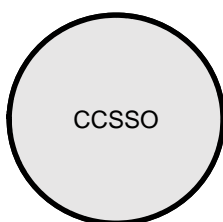
International Center for
Leadership in Education

Preparing Students for Future Success

Bill Daggett
Founder and Chairman
January 29, 2018



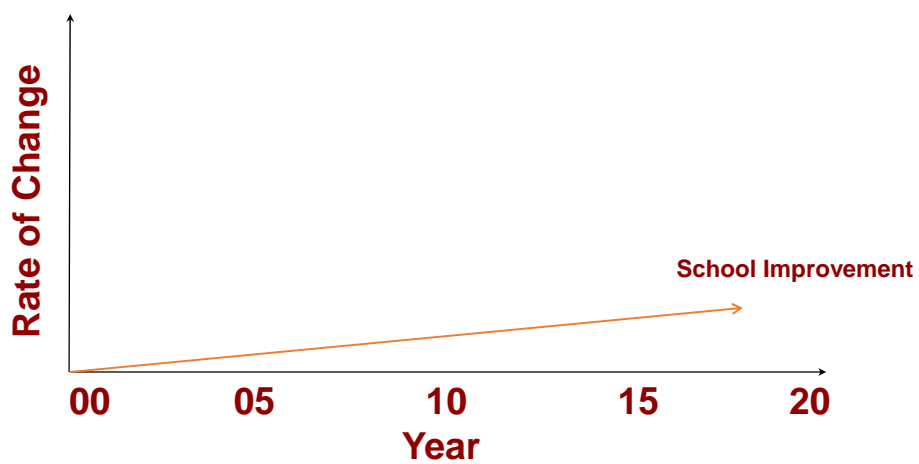
National Most Rapidly Improving Schools Study

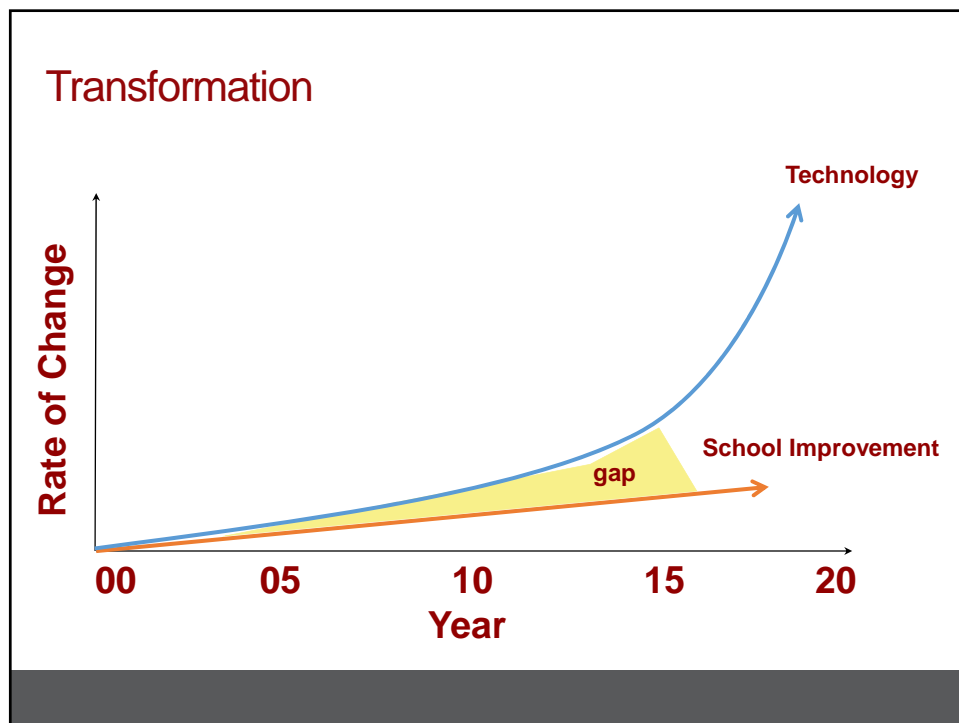
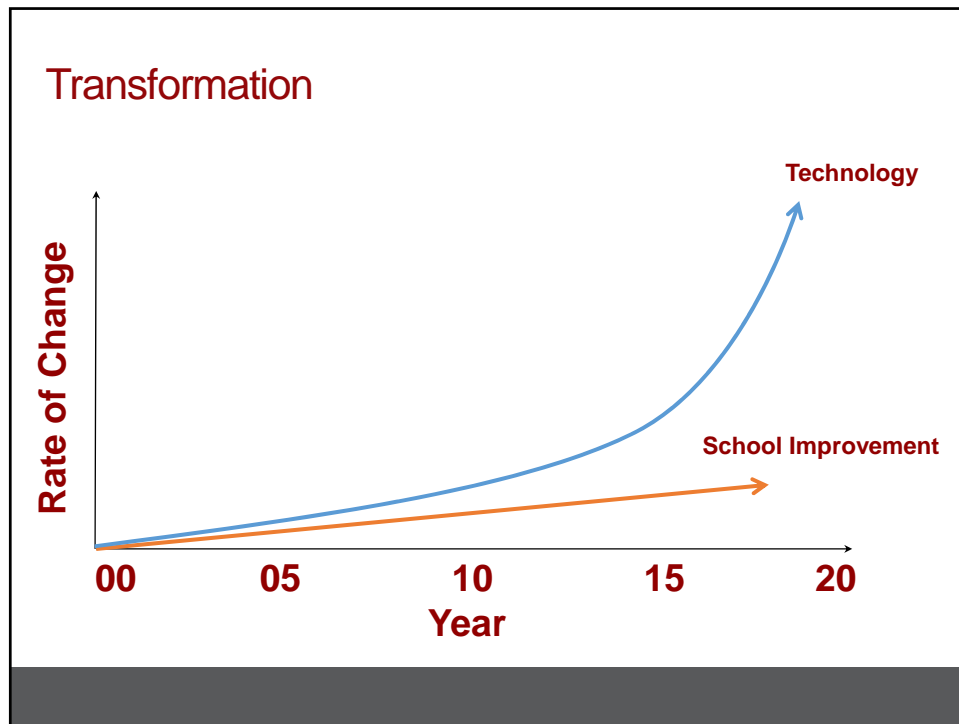


National Innovation Study



Transformation





Culture Trumps Strategy

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WHY

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WHY – WHAT

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WHY – WHAT - HOW

WHY

The Winds of Change



Accelerating
Impact of
Technology



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1st Industrial Revolution

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1st Industrial Revolution

2nd Industrial Revolution

**Industrial Revolution
transformed both the
expectations and model of
public education**

1st Industrial Revolution

2nd Industrial Revolution

3rd Industrial Revolution

iPhone

5 Largest Companies

2007

1. Exxon Mobil
2. General Electric
3. Microsoft
4. Citigroup
5. Bank of America

2017

1. Apple
2. Google
3. Microsoft
4. Amazon
5. Facebook

Source: S & P Dow Jones Indices

1st Industrial Revolution
2nd Industrial Revolution
3rd Industrial Revolution
4th Industrial Revolution

Four Categories

- Routine Manual
- Non-Routine Manual
- Routine Cognitive
- Non-Routine Cognitive

4th Industrial Revolution

3rd Revolution



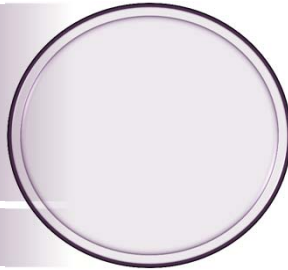
4th Industrial Revolution

PHYSICAL

Nanotech

- 1/100th
- 10 times
- Jell-O

3rd Revolution



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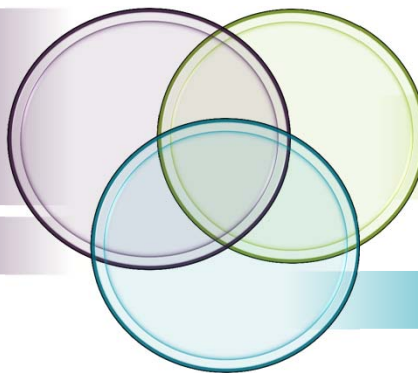
4th Industrial Revolution

PHYSICAL

Nanotech

- 1/100th
- 10 times
- Jell-O

3rd Revolution



BIOLOGICAL
Biotech

DIGITAL

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Health Care

**If you can write an
algorithm for a task,
the job is gone.**

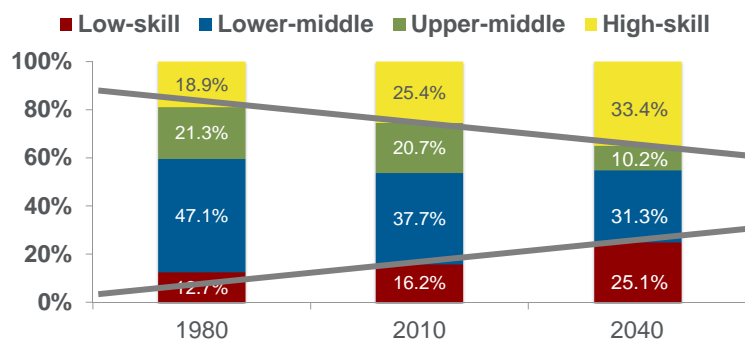
Employment

People use to be paid for what they knew:

- Accountants
- Lawyers
- Economist

Not so in the future....

Job Shares by Skill Group 1980 - 2040



Source: NY Fed Calculations, U.S. Census Bureau

5 Largest Companies

<u>2007</u>	<u>2017</u>	<u>2027</u>
1. Exxon Mobil	1. Apple	Bio/Nano/Info Technology
2. General Electric	2. Google	
3. Microsoft	3. Microsoft	
4. Citigroup	4. Amazon	
5. Bank of America	5. Facebook	

Source: S & P Dow Jones Indices

The rate of change caused by technology is faster than larger organizations can adapt to.






Entrepreneurs are more effective in this changing environment than large/bureaucratic organizations

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Work to Worker

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**Six billion of the 7 billion people
on Earth have a mobile phone.
More than those who have
access to toilets.**

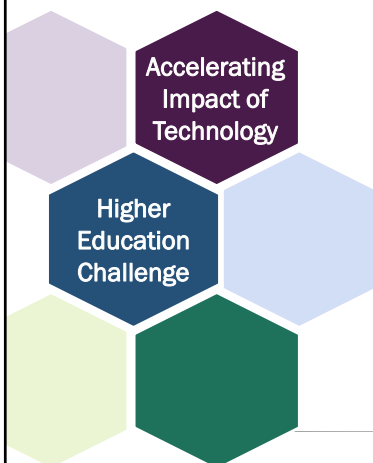
Source: * Industries of the Future

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**Developing nations do not
need to be freed from the
structures of the past.**

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The Winds of Change



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College Dropout Rate 2016

First to Second Year

34.8%

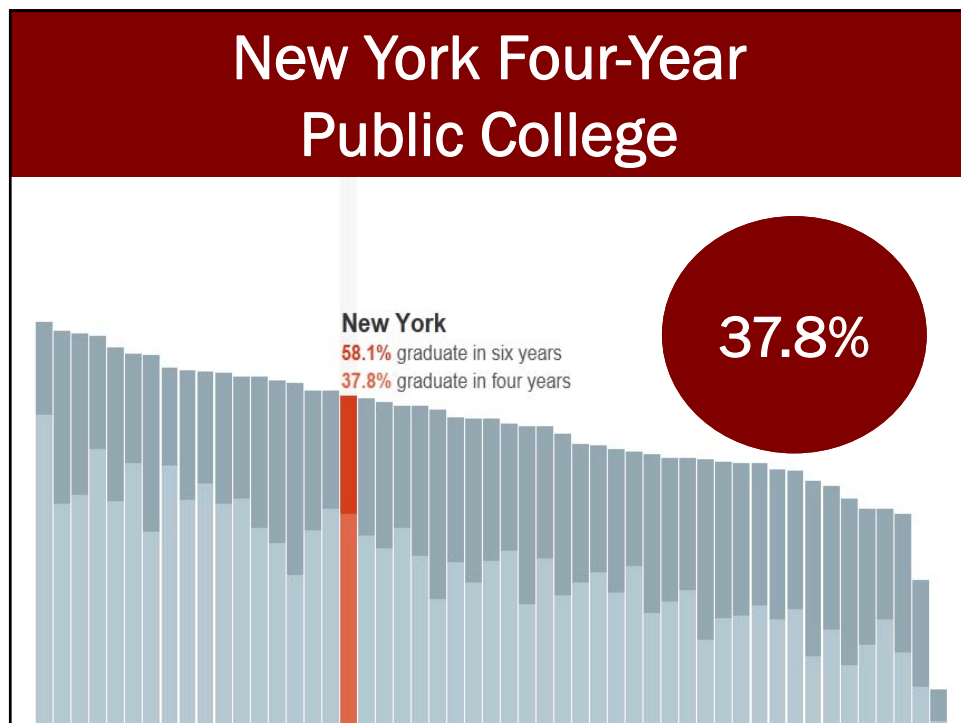
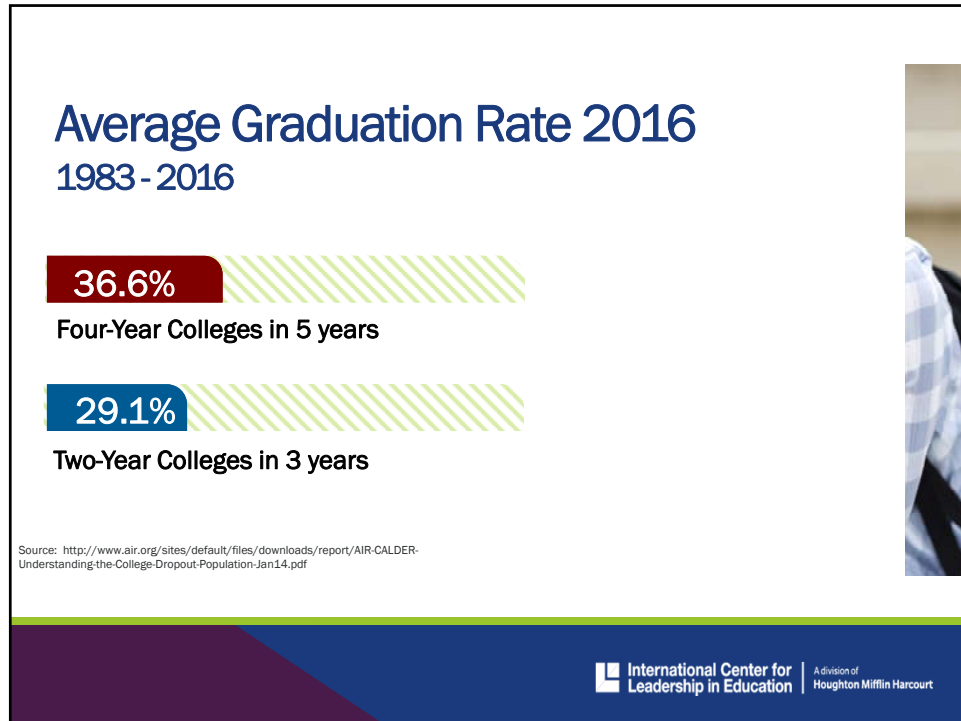
Four-Year Colleges

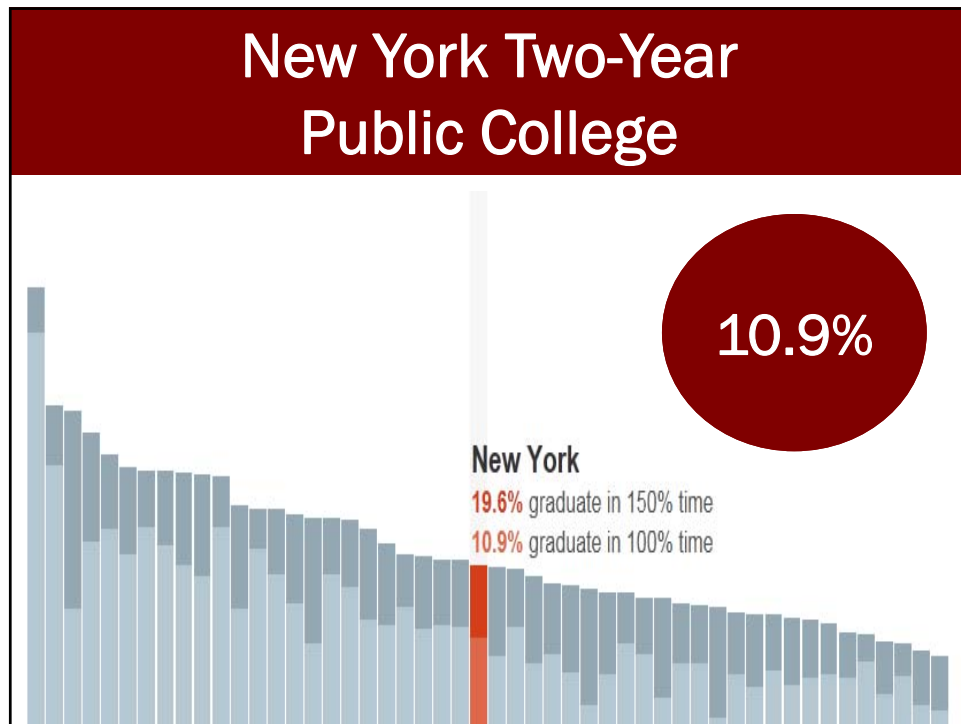
44.5%

Two-Year Colleges

Source: <http://www.air.org/sites/default/files/downloads/report/AIR-CALDER-Understanding-the-College-Dropout-Population-Jan14.pdf>

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Your Major Matters A LOT


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2-Year College Graduates

OCCUPATION	STARTING	AVERAGE
Management Info Systems	\$45,100	\$72,100
Electrical and Chemical Engineers	\$45,100	\$69,800
Occ. Health and Safety	\$50,300	\$68,200
Diagnostic Medical Specialist	\$50,200	\$66,800
Computer Programmer	\$42,300	\$65,300

Payscale.com

4-Year College Graduates

OCCUPATION	STARTING	AVERAGE
Human Development	\$35,900	\$48,000
Athletic Trainer	\$34,800	\$46,900
Social Worker	\$33,000	\$46,600
Recreation and Leisure	\$32,200	\$45,300
Child and Family Studies	\$30,300	\$37,200

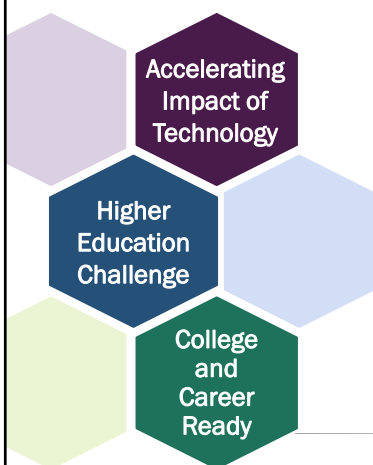
Payscale.com

4-Year College Graduates

OCCUPATION	STARTING	AVERAGE
Petroleum Engineer	\$103,000	\$160,000
Actuarial Math	\$58,700	\$120,000
Nuclear Engineer	\$67,600	\$117,000
Chemical Engineer	\$68,200	\$117,000
Aerospace Engineer	\$62,800	\$109,000










Payscale.com

The Winds of Change




1. Complex Problem Solving

Top 10 Skills












Source: Future of Jobs Report, World Economic Forum

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1. Complex Problem Solving

2. Critical Thinking

Top 10 Skills




Source: Future of Jobs Report, World Economic Forum


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1. Complex Problem Solving
2. Critical Thinking
3. Creativity

Top 10 Skills



Source: Future of Jobs Report, World Economic Forum




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1. Complex Problem Solving
2. Critical Thinking
3. Creativity
4. People Management

Top 10 Skills



Source: Future of Jobs Report, World Economic Forum



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1. Complex Problem Solving
2. Critical Thinking
3. Creativity
4. People Management
5. Coordinating with Others

Top 10 Skills



Source: Future of Jobs Report, World Economic Forum



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1. Complex Problem Solving
2. Critical Thinking
3. Creativity
4. People Management
5. Coordinating with Others
6. Emotional Intelligence

Top 10 Skills



Source: Future of Jobs Report, World Economic Forum



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1. Complex Problem Solving
2. Critical Thinking
3. Creativity
4. People Management
5. Coordinating with Others
6. Emotional Intelligence
7. Active Listening

Top 10 Skills



Source: Future of Jobs Report, World Economic Forum



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1. Complex Problem Solving
2. Critical Thinking
3. Creativity
4. People Management
5. Coordinating with Others
6. Emotional Intelligence
7. Active Listening
8. Service Orientation

Top 10 Skills



Source: Future of Jobs Report, World Economic Forum



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1. Complex Problem Solving

2. Critical Thinking

3. Creativity

4. People Management

5. Coordinating with Others

6. Emotional Intelligence

7. Active Listening

8. Service Orientation

9. Negotiation

Top 10 Skills



Source: Future of Jobs Report, World Economic Forum

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1. Complex Problem Solving

2. Critical Thinking

3. Creativity

4. People Management

5. Coordinating with Others

6. Emotional Intelligence

7. Active Listening

8. Service Orientation

9. Negotiation

10. Cognitive Flexibility

Top 10 Skills

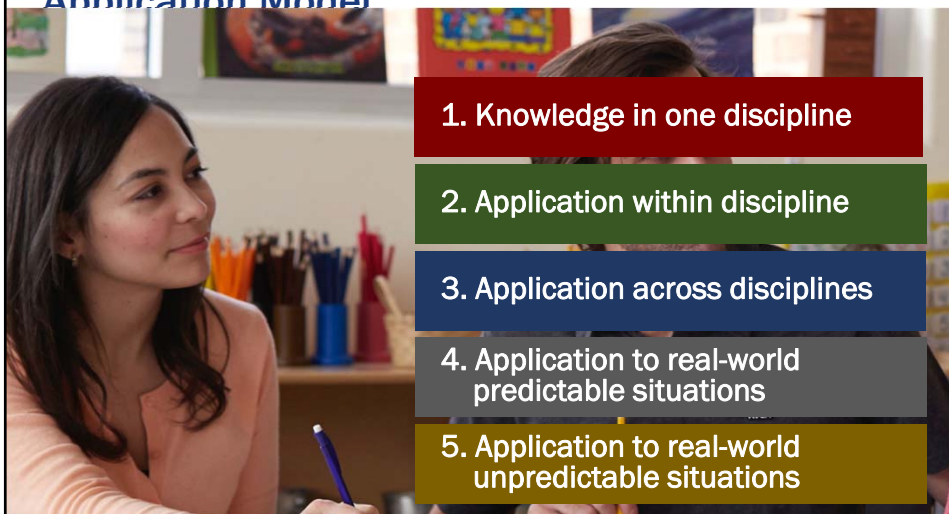


Source: Future of Jobs Report, World Economic Forum

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WHAT

Application Model



1. Knowledge in one discipline

2. Application within discipline

3. Application across disciplines

4. Application to real-world
predictable situations

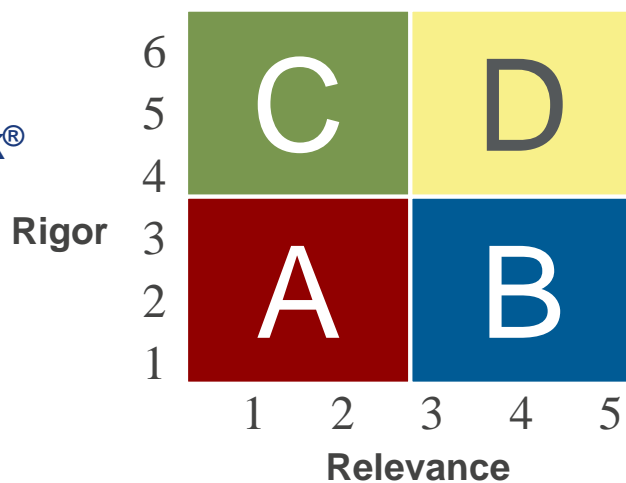
5. Application to real-world
unpredictable situations

Knowledge Taxonomy

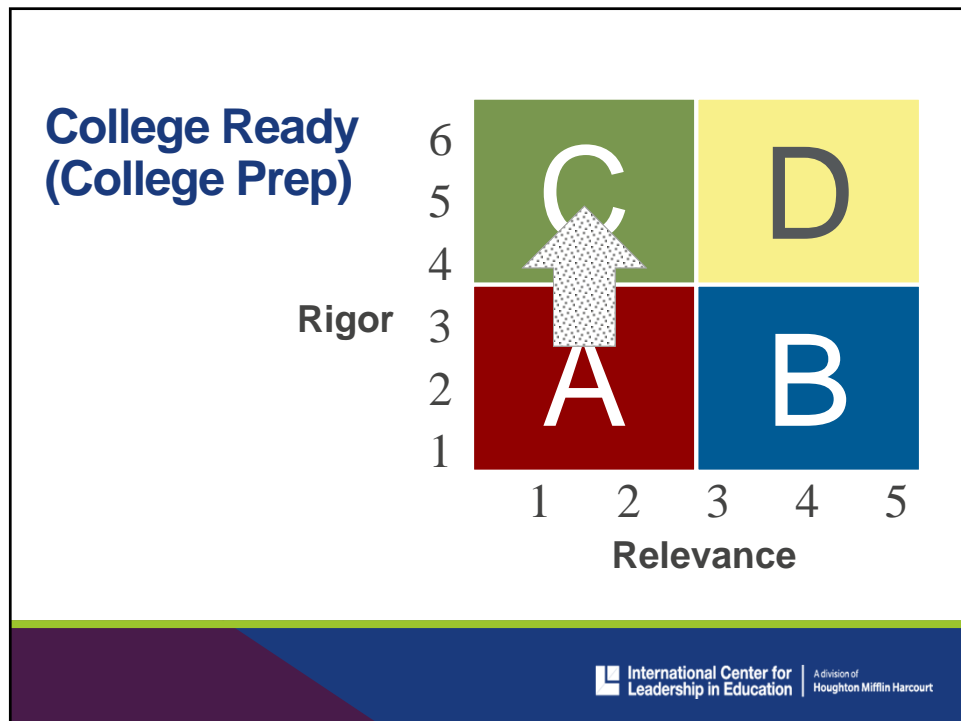
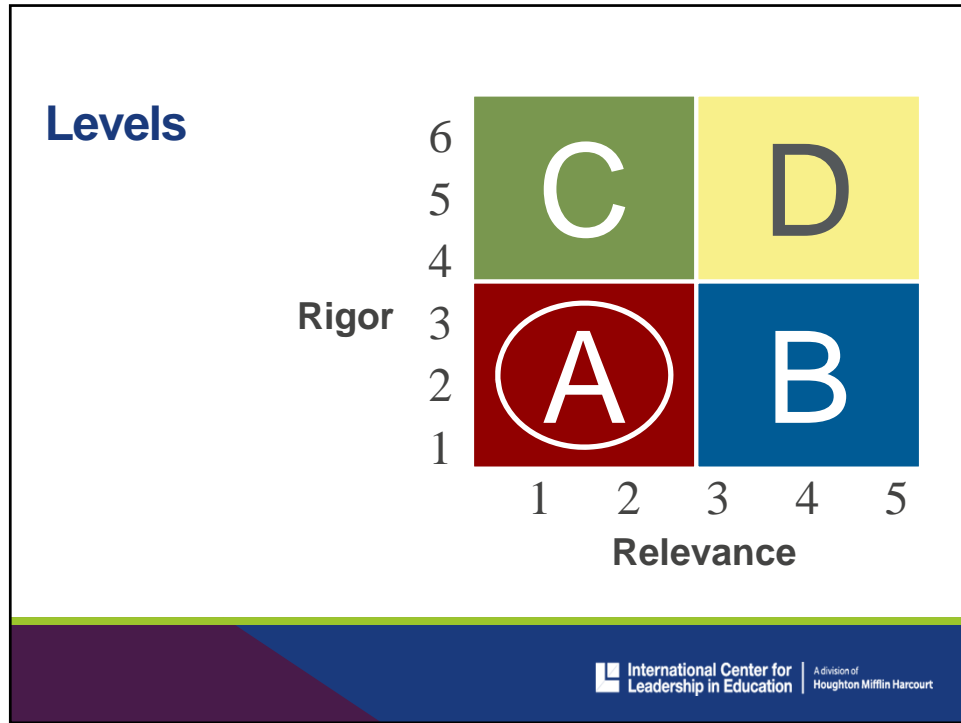


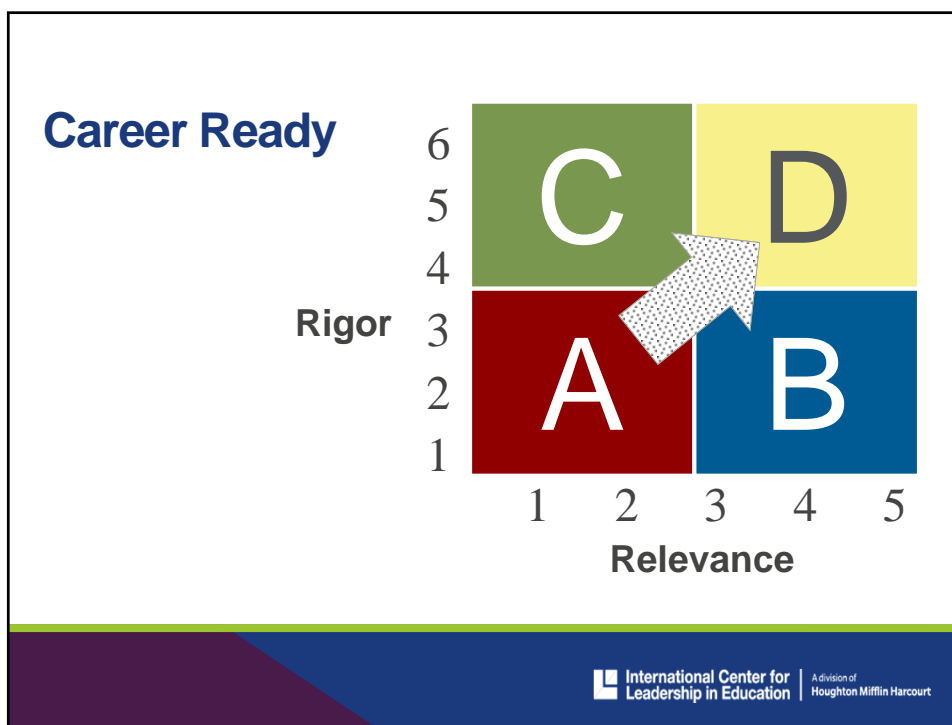
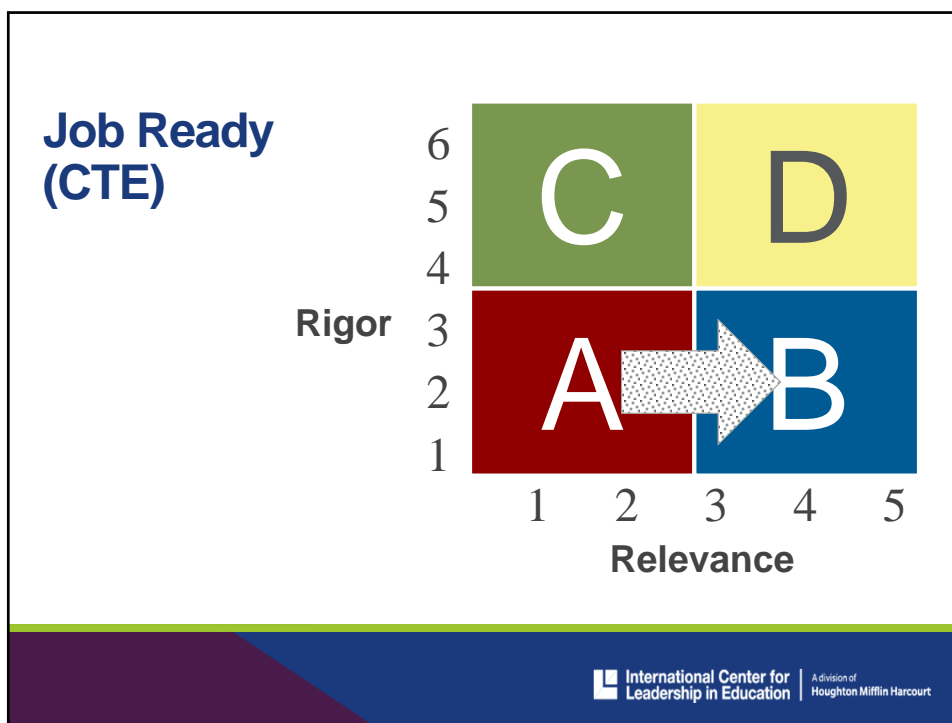
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Rigor/ Relevance Framework®



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1. Complex Problem Solving

2. Critical Thinking

3. Creativity

4. People Management

5. Coordinating with Others

6. Emotional Intelligence

7. Active Listening

8. Service Orientation

9. Negotiation

10. Cognitive Flexibility

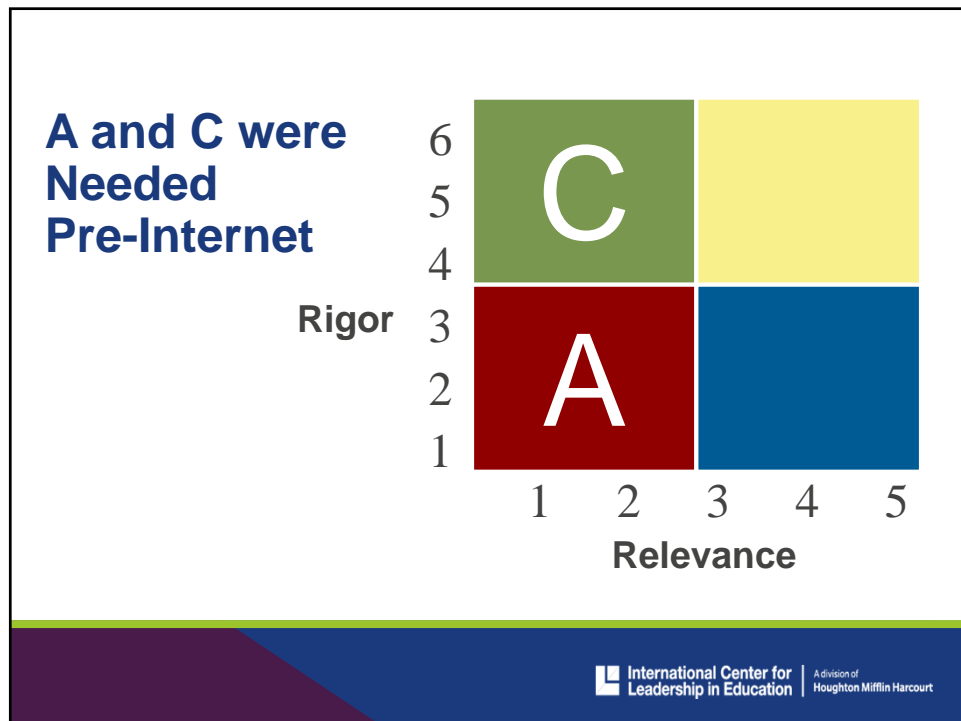
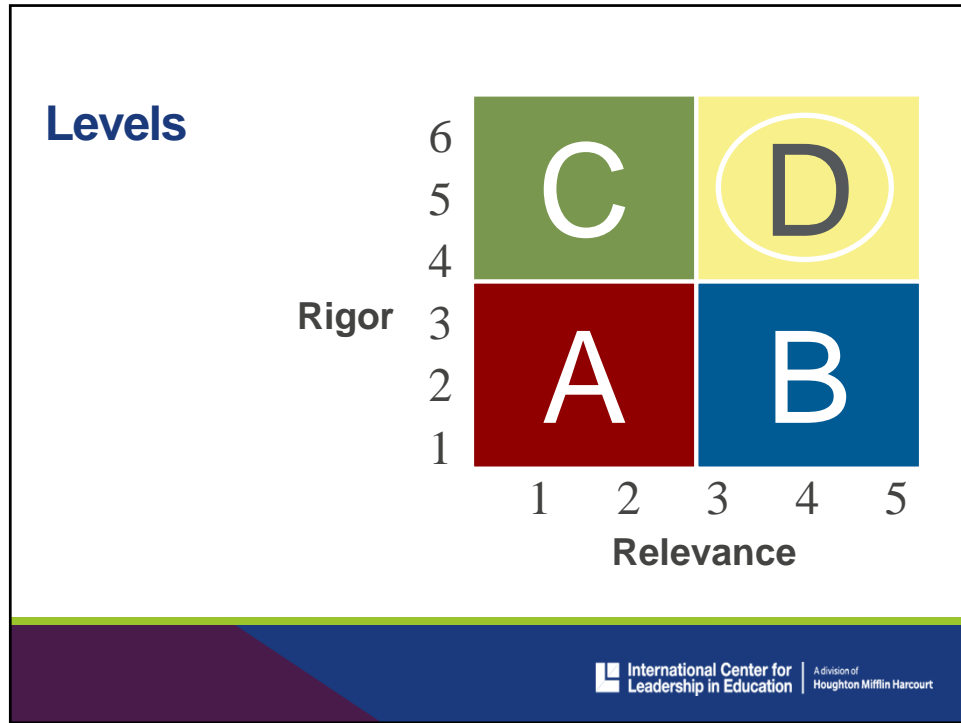
Top 10 Skills

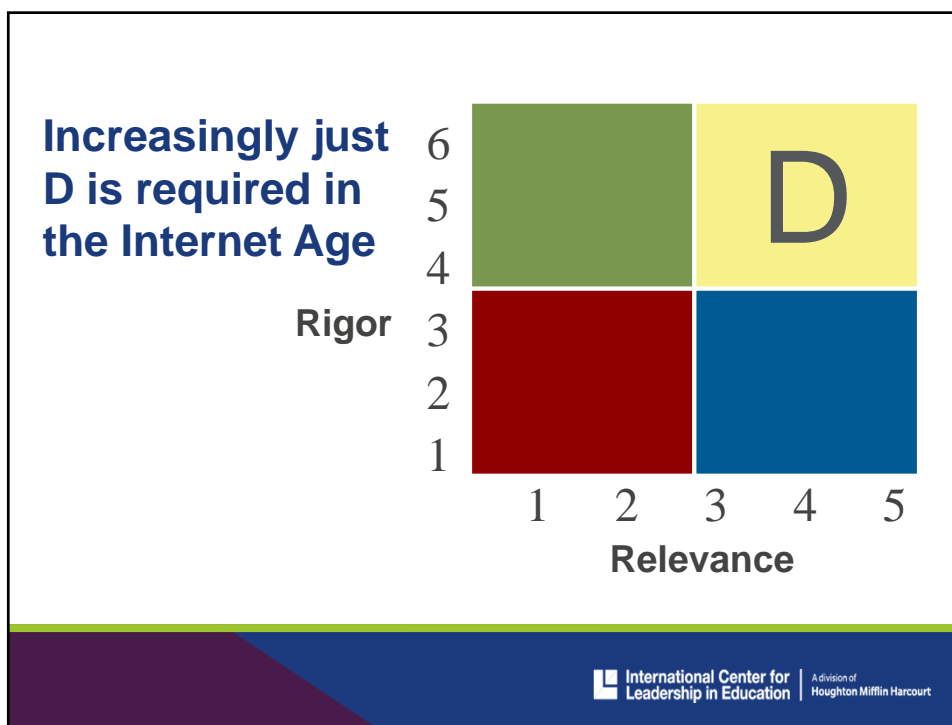
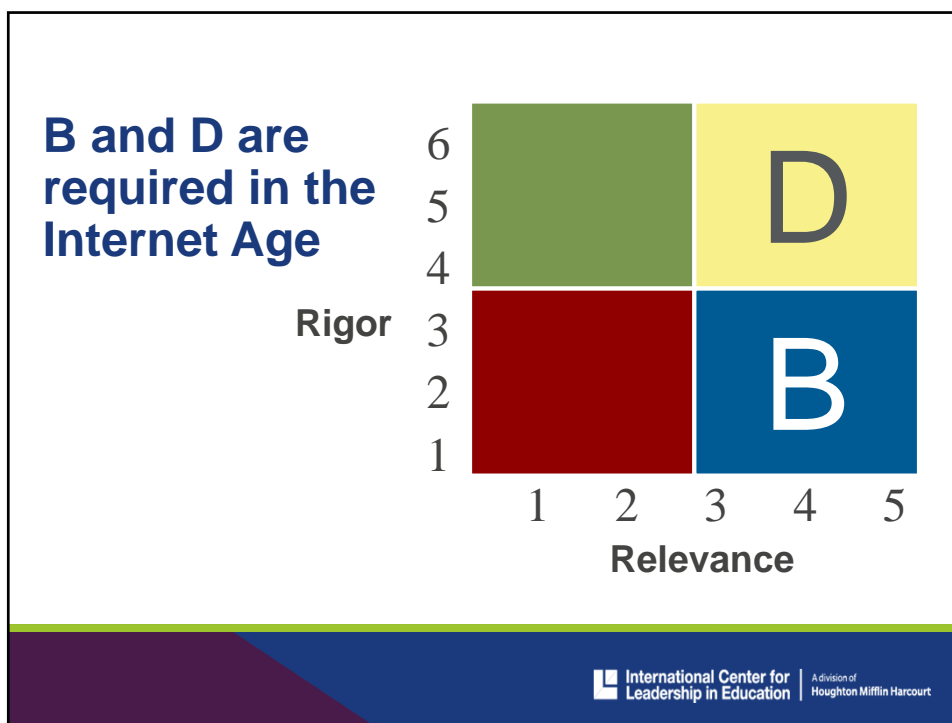


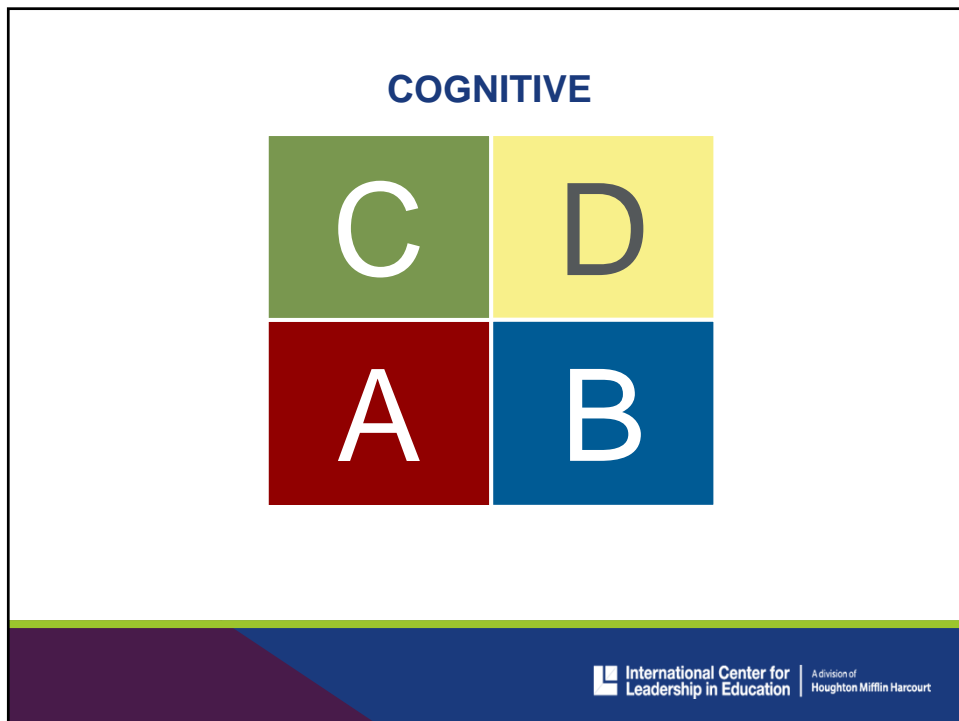
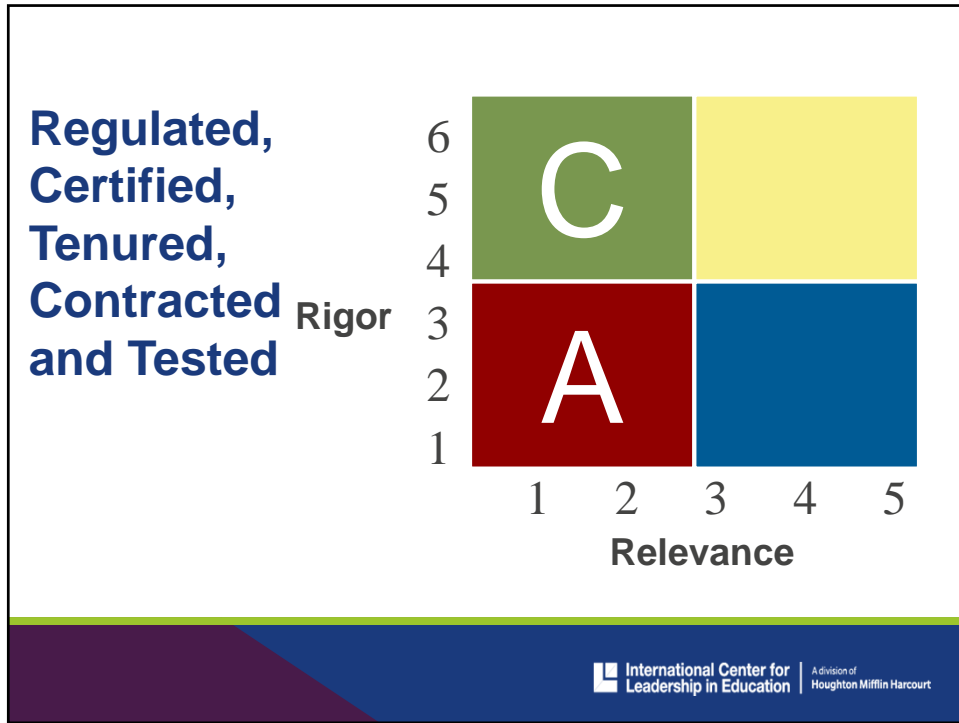
Source: Future of Jobs Report, World Economic Forum

Four Categories

- Routine Manual
- Non-Routine Manual
- Routine Cognitive
- Non-Routine Cognitive







**Make all children all they
are capable of being,
BUT
it is about more than
standards and tests.**

Non-Cognitive

Non-Cognitive

- Responsibility
- Contemplation
- Initiative
- Perseverance
- Optimism
- Courage
- Respect
- Compassion
- Adaptability
- Honesty
- Trustworthiness
- Loyalty

**It is not a course or program.
It is a culture.**

COGNITIVE



Non-Cognitive

- Responsibility
- Contemplation
- Initiative
- Perseverance
- Optimism
- Courage
- Respect
- Compassion
- Adaptability
- Honesty
- Trustworthiness
- Loyalty

NON-COGNITIVE

Social/Emotional → Mental Health

- Academic Success

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NON-COGNITIVE

Social/Emotional → Mental Health


- Academic Success
- Career Success

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NON-COGNITIVE

Social/Emotional → Mental Health

- Academic Success
- Career Success
- Well-Being Success




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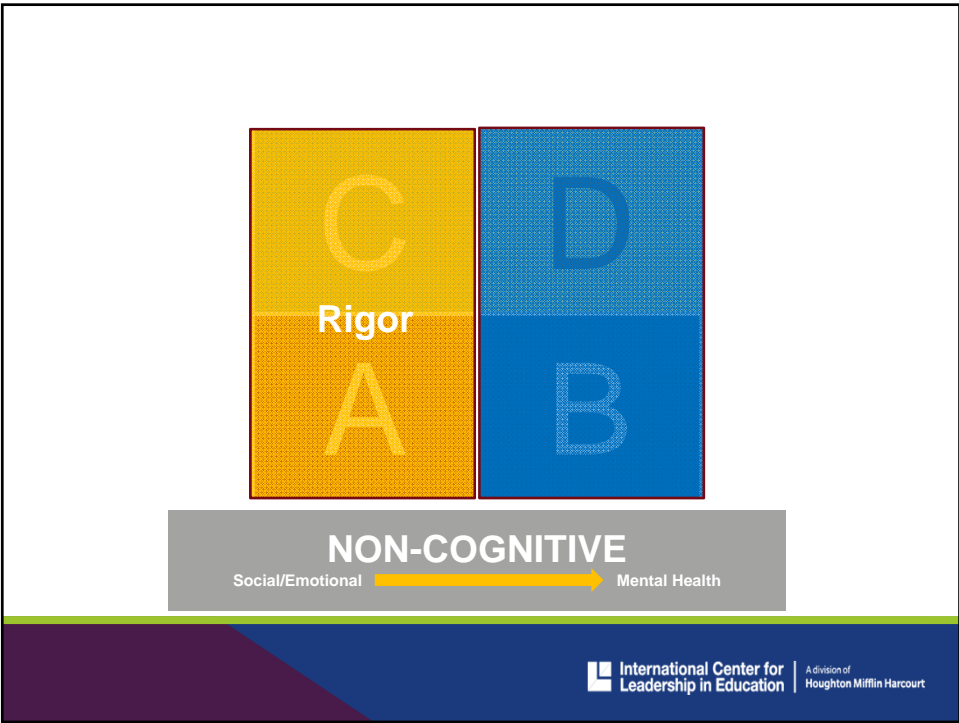
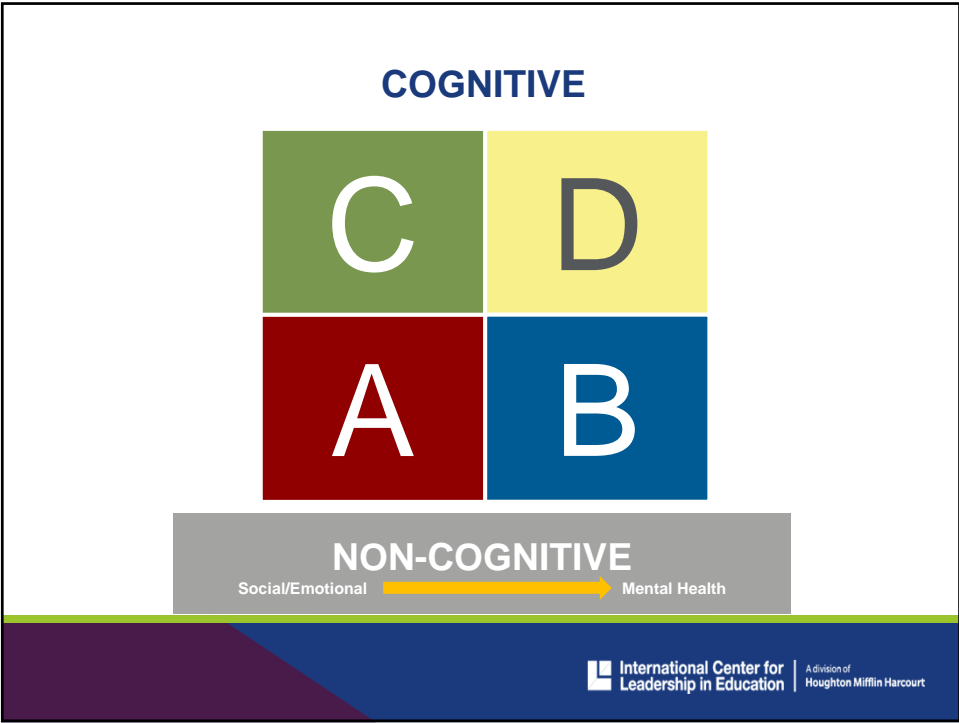
COGNITIVE

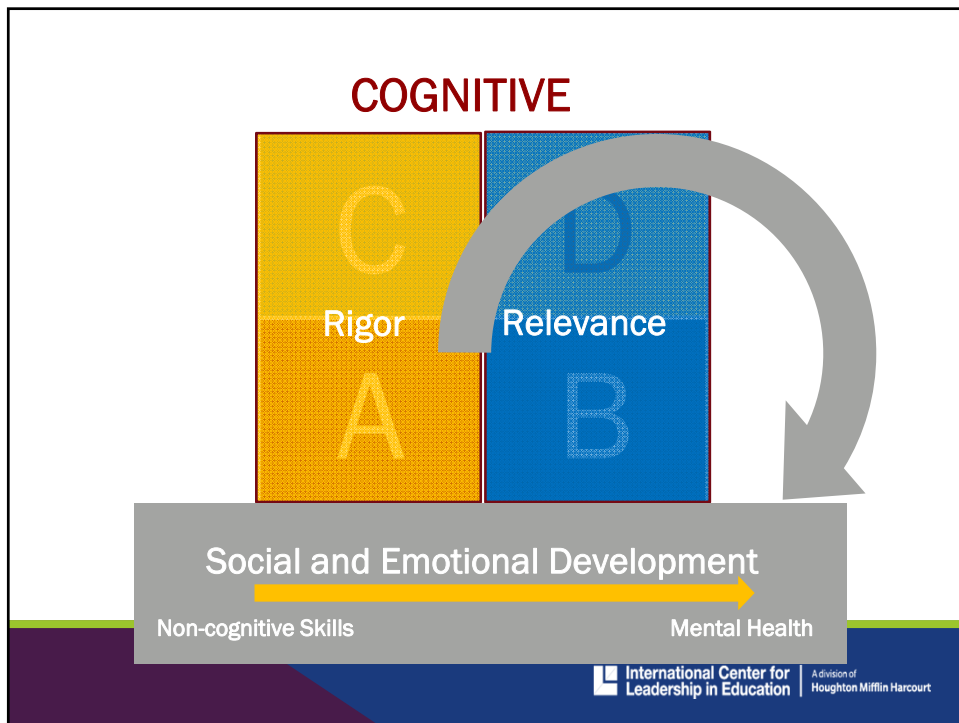
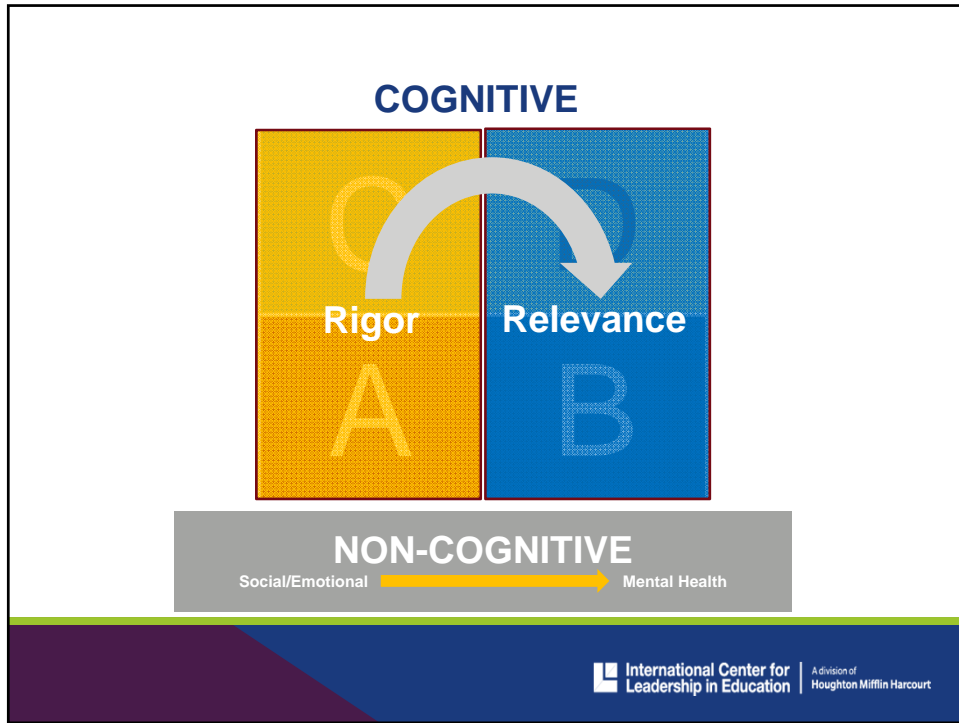
C	D
A	B

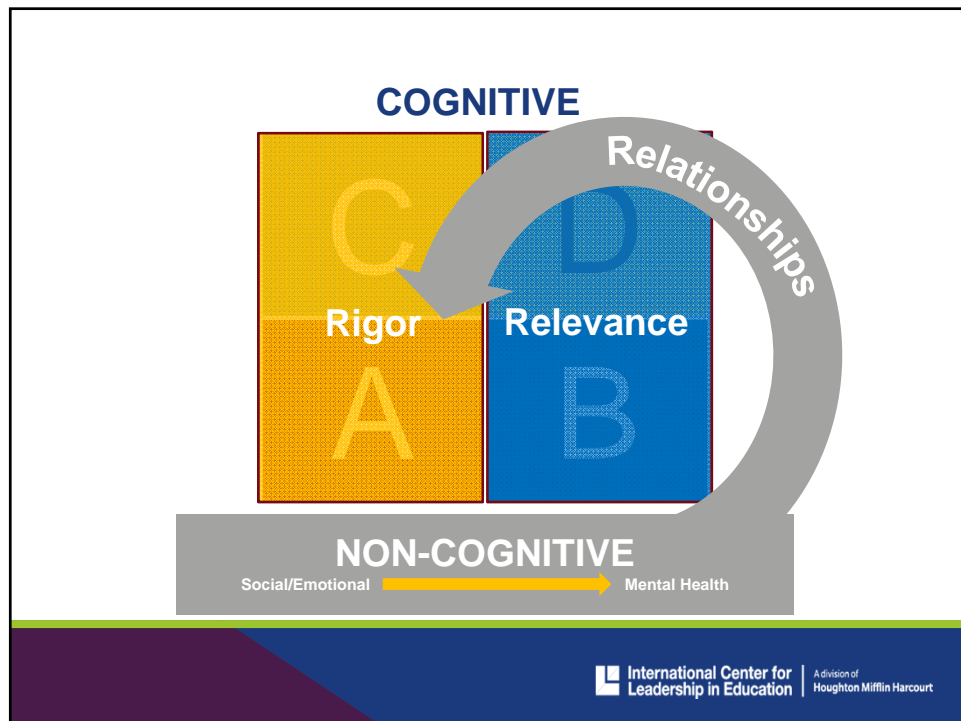
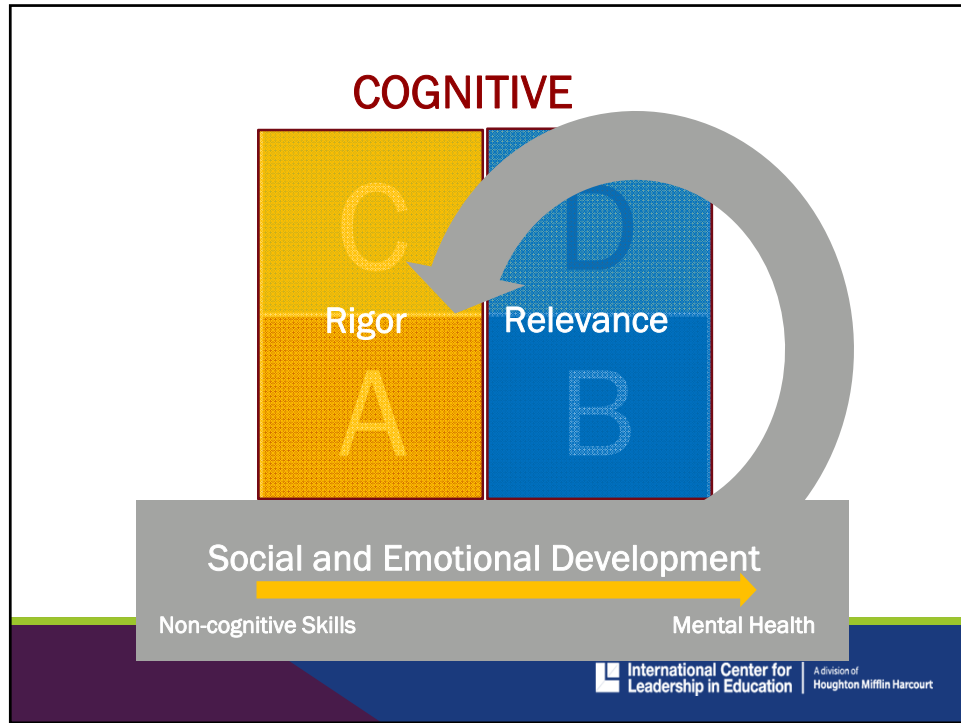


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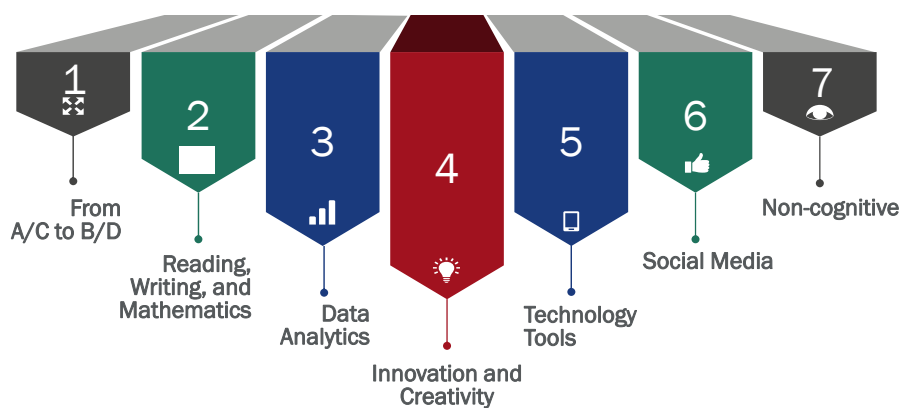




**The achievement of RIGOR
begins with RELATIONSHIPS
and is anchored in RELEVANCE.**

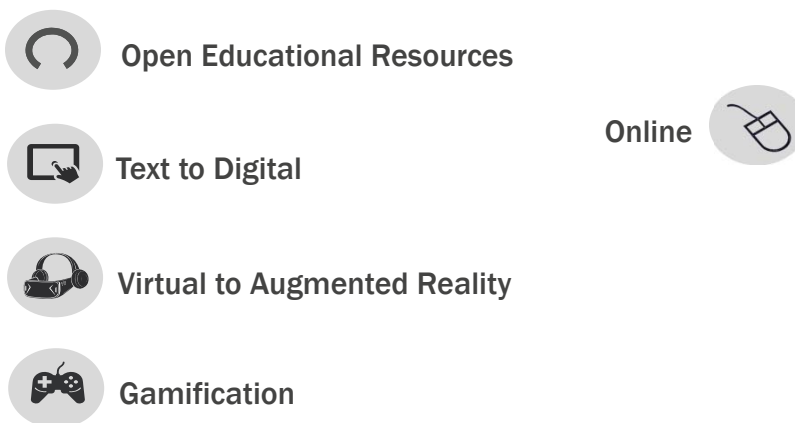
HOW

Seven Interrelated Fundamental Shifts



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Fundamental Shift in Instruction



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**The current system was designed for
a different set of outcomes,
a different set of students and in preparation for
a different future.**



Moving Forward vs. Future Focused Approach

Moving Forward	Future Focused
<ul style="list-style-type: none"> • Focuses on Quads A and C • Focuses on Social and Emotional Development from an interventional approach 	<ul style="list-style-type: none"> • Focuses on Quad D • Focuses on Social and Emotional Development from a preventative approach

It is time to focus on
non-cognitive skills alongside
academic skills.



It all begins with the teacher.



**Let's help every teacher
become successful at
making all students all
they are capable of being.**

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This is your year!

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JUNE 24-27
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by Dr. Bill Daggett

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