

GLOBAL HR FORUM 2020

- AI 시대, 다시 교육을 말하다 -

이 용덕

*CEO, Dream N Future Labs
Professor, Ewha Women Univ.*



CORONAVIRUS

GREATEST DANGER

[COVID-19]



- SEARCH
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- ABOUT
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LAST 10 MONTHS...

THE ACCELERATION OF ACCELERATION

THE FUTURE IS *FASTER* THAN YOU THINK

How Converging Technologies
Are Transforming Business,
Industries, and Our Lives

PETER H. DIAMANDIS and **STEVEN KOTLER**

New York Times Bestselling Authors of

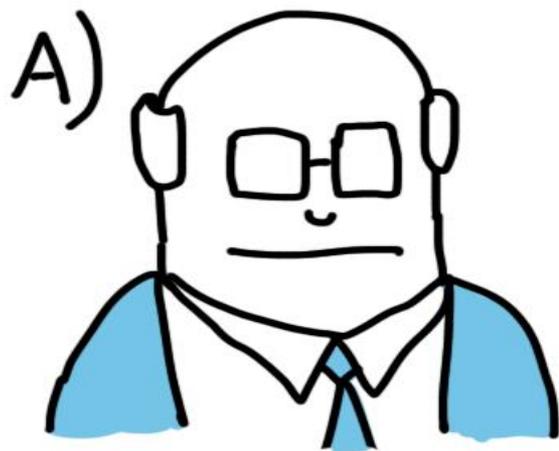
ABUNDANCE and **BOLD**



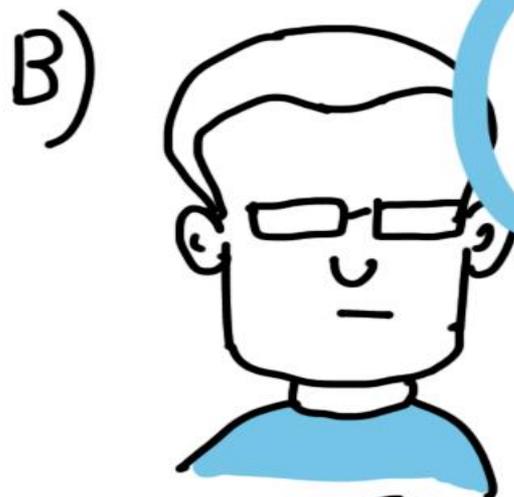
Peter H. Diamandis

X Prize Foundation의 창립자 겸 회장,
Singularity University의 공동 창립자 겸 회장,
New York Times 베스트셀러 *Abundance*로 유명한
그리스 계 미국인 엔지니어, 의사 및 기업가.

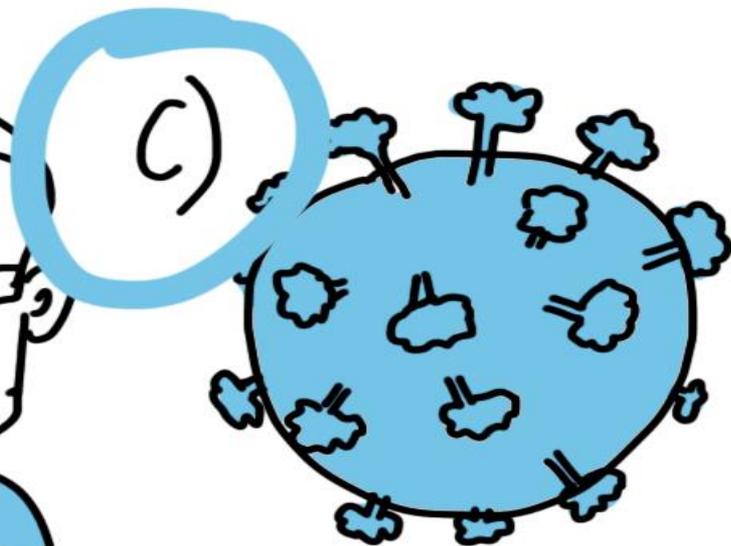
WHO LED THE DIGITAL TRANSFORMATION
OF YOUR COMPANY ?



THE CEO



THE CTO

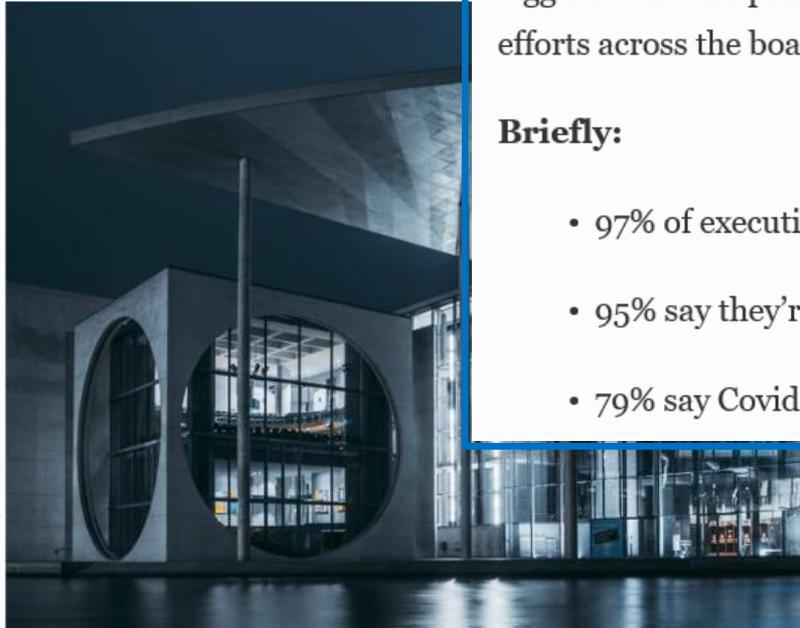


COVID-19

97% Of Executives Say Covid Up Digital Transformation



John Koetsier Senior Contributor @
Consumer Tech
John Koetsier is a journalist, analyst, and



Twilio recently surveyed executives on digital transformation, and cloud laggards take the plunge. Efforts across the board.

Briefly:

- 97% of executives say digital transformation is more possible during COVID-19 because the usual bureaucratic barriers that hinder innovation have been removed as a result of working from home—either through formal removal or by just being able to work around them more easily ...
- 95% say they're more likely to invest in digital transformation efforts across the board.
- 79% say COVID-19 will accelerate digital transformation.

검색결과 약 334,000,000개 (0.52초)

www2.deloitte.com > insights > topics > digital-transfor...

[Digital transformation through the lens of COVID-19 | Deloitte ...](#)

2020. 8. 6. — The digital innovation team at a large medical devices company says digital innovation is more possible during COVID-19 because the usual bureaucratic barriers that hinder innovation have been removed as a result of working from home—either through formal removal or by just being able to work around them more easily ...

[Introduction – What doesn't change with ... – What is different when it ...](#)

home.kpmg > home > insights > 2020/04 > digital-adop...

[Digital adoption and transformation - COVID-19 - KPMG Global](#)

Technology offers opportunities to rebuild your business around the customer to create a truly connected and highly profitable enterprise.

hbr.org > 2020/09 > how-to-harness-the-digital-transfor...

[How to Harness the Digital Transformation of the Covid Era](#)

2020. 9. 24. — How will these changes play out in the post-Covid-19 world? It is likely that the pandemic will reinforce these pre-existing trends and increase the ...

www.iot-now.com > IoT News

[COVID-19 has sped up digital transformation by 5.3 years ...](#)

2020. 7. 23. — COVID-19 has sped up digital transformation by 5.3 years, says study. Michele Sawyer of Twilio. A global survey measuring the impact and ...

futurumresearch.com > Digital Transformation

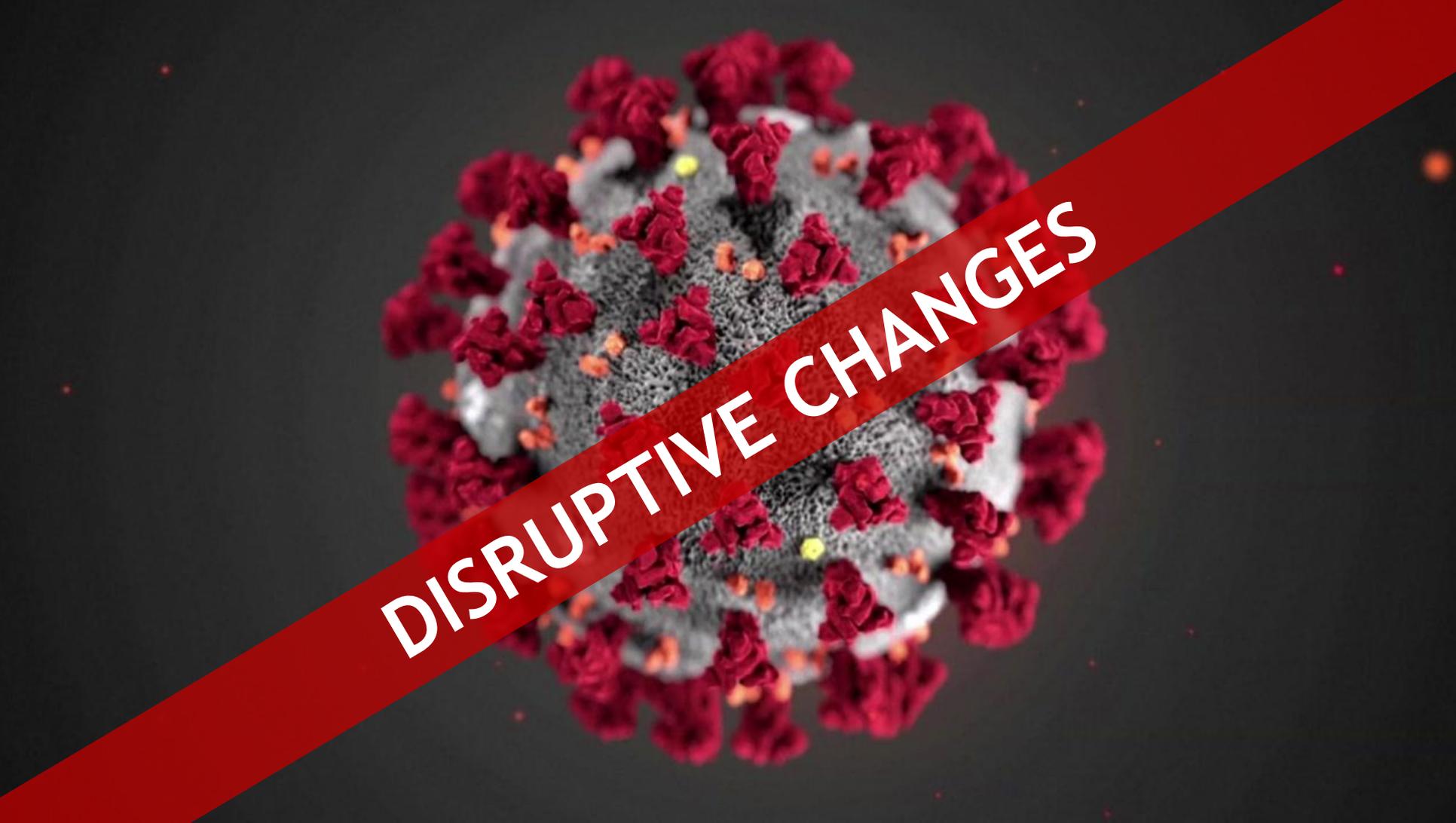
[Digital Transformation Trends and the Impact of COVID-19](#)

2020. 8. 19. — Every year, I make my predictions for 10 of the biggest digital transformation trends.. Here is how COVID impacted 2020 predictions.

www.kingsfund.org.uk > Events

[Digital transformation and Covid-19 | The King's Fund](#)

In this free online event, our panel explored the impact of Covid-19 on the speed of digital transformation in care delivery and the considerations that need to be ...



DISRUPTIVE CHANGES



WFH

#WORKINGFROMHOME

Harvard Business Review

The Risks You
Can't Foresee 40
How to Develop Your
Leadership Style 68
Getting Serious
About Diversity 114



The Work from Anywhere Future

Lessons from organizations that have made
the transition and flourished

58





사무실이 없는 우리의 미래

원격근무 조직의
모범 사례들



MANAGING
PEOPLE

▶ A&P 1000

프리스위라즈 추두리
하버드경영대학원 부교수

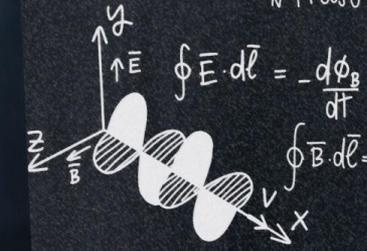
Harvard Business Review
November–December 2020

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$$1 = \sin^2 \theta + \cos^2 \theta$$
$$1 = \sec^2 \theta - \tan^2 \theta$$
$$1 = \csc^2 \theta - \cot^2 \theta$$

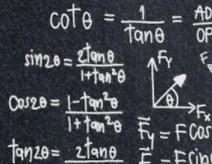
$$\sin \frac{\theta}{2} = \pm \sqrt{\frac{1 - \cos \theta}{2}}$$
$$\cos \frac{\theta}{2} = \pm \sqrt{\frac{1 + \cos \theta}{2}}$$
$$\tan \frac{\theta}{2} = \pm \sqrt{\frac{1 - \cos \theta}{1 + \cos \theta}}$$



Opp

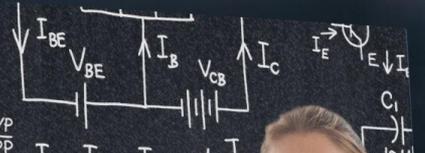
$$\cos \theta = \frac{\text{ADJ}}{\text{HYP}}$$
$$\tan \theta = \frac{\text{OPP}}{\text{ADJ}}$$

$$\csc \theta = \frac{1}{\sin \theta} = \frac{\text{HYP}}{\text{OPP}}$$
$$\sec \theta = \frac{1}{\cos \theta} = \frac{\text{HYP}}{\text{ADJ}}$$
$$\cot \theta = \frac{1}{\tan \theta} = \frac{\text{ADJ}}{\text{OPP}}$$



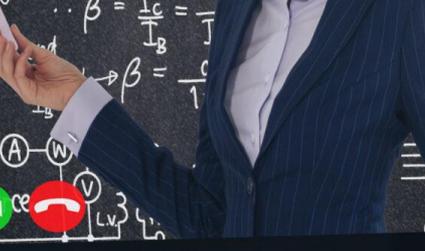
$$M_0 = 4\pi \times 10^{-7} \text{ Tm/A}$$
$$\epsilon_0 = 8.85 \times 10^{-12} \text{ C}^2/\text{N}\cdot\text{m}^2$$

$$\oint \vec{B} \cdot d\vec{l} = \mu_0 I + \mu_0 \epsilon_0 \frac{d\phi_E}{dt}$$



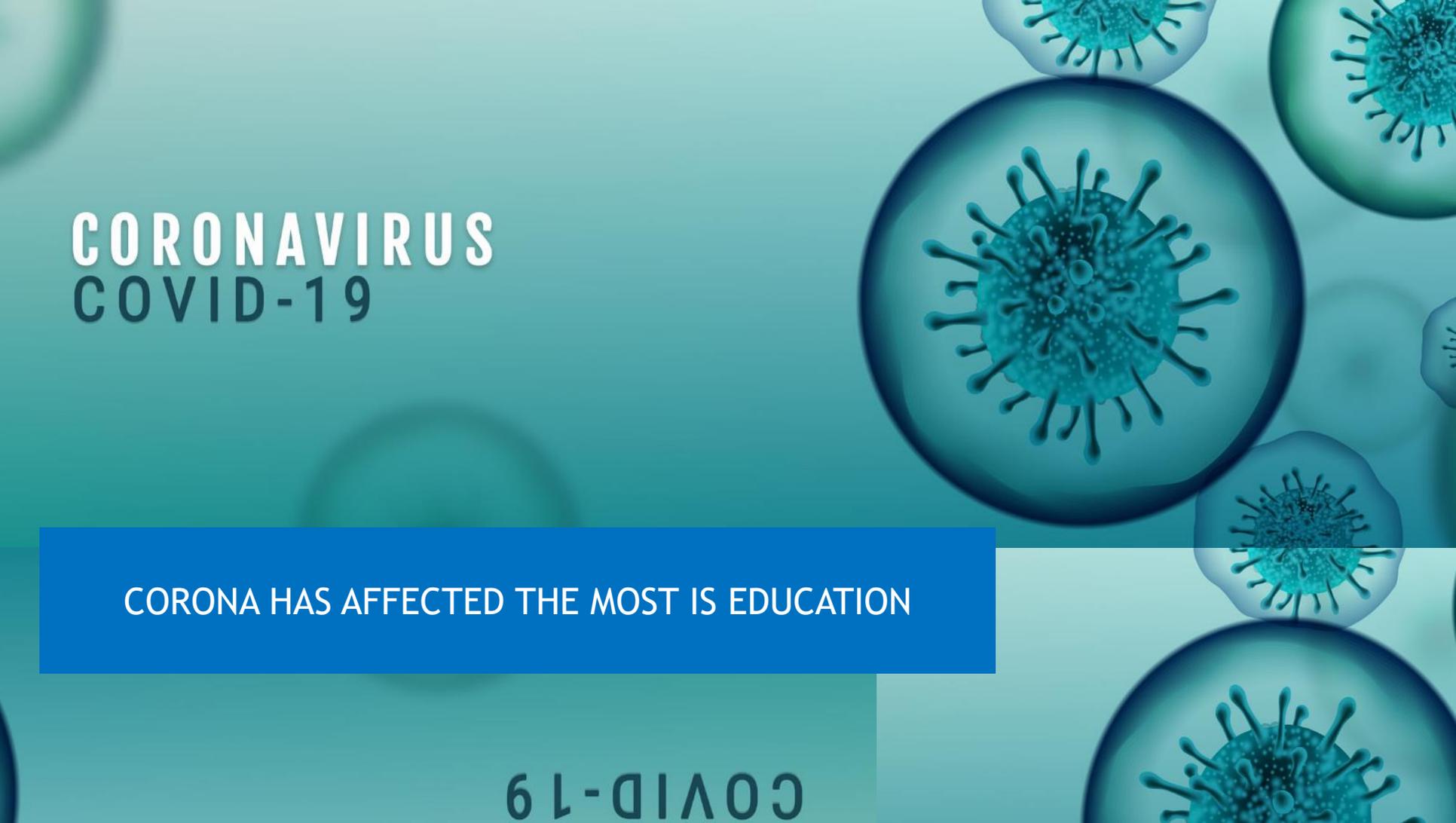
$$I_E = I_B + I_C \text{ and } \frac{I_C}{I_E}$$
$$I_B = I_E - I_C$$
$$I_B = I_E (1 - \alpha)$$

$$\beta = \frac{I_C}{I_B} = \frac{I_E}{I_B} - 1$$



ON-LINE CLASS

CORONAVIRUS COVID-19



CORONA HAS AFFECTED THE MOST IS EDUCATION

COVID-19

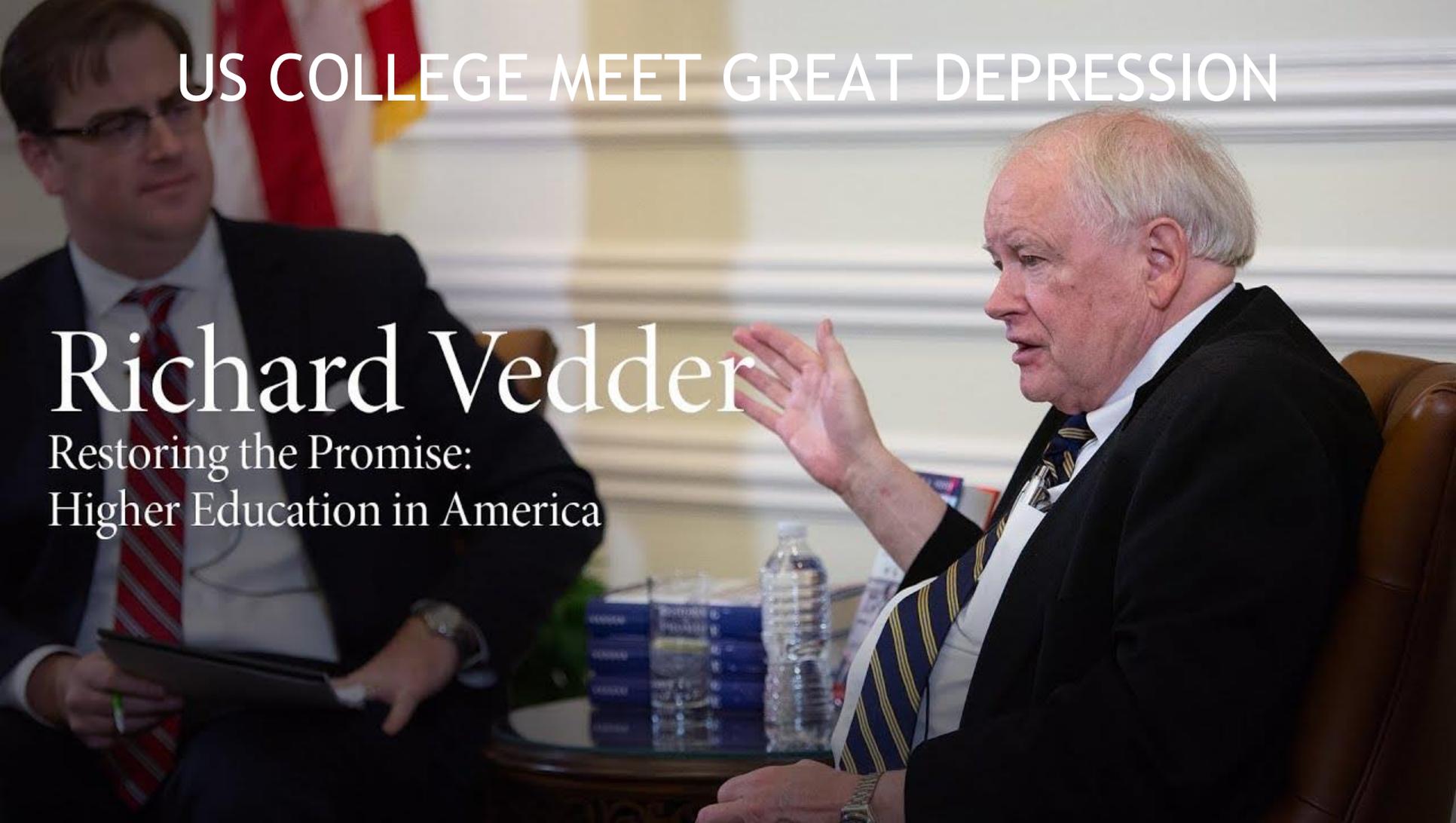
**50% OF UNIVERSITIES WILL BE BANKRUPT IN
10-15 YEARS**

Clayton Christensen

Harvard Business School

“Corporate universities” is the big competition for HBS. A Harvard MBA is too expensive to hire so they “build their own”



A photograph of two men in suits sitting at a table. The man on the right, Richard Vedder, is speaking and gesturing with his right hand. The man on the left is listening. On the table are several blue books, a glass of water, and a plastic water bottle. An American flag is visible in the background.

US COLLEGE MEET GREAT DEPRESSION

Richard Vedder

Restoring the Promise:
Higher Education in America

CORONAVIRUS | Mar 24, 2020, 09:00am EDT

A New Great Depression For Higher Education?



Richard Vedder Contributor

Education

I am Distinguished Professor of Economics Emeritus at Ohio University.

f

t

in



EAST LANSING, MI - NOVEMBER 18: An exterior view of Spartan Stadium on the campus of Michigan State ... [+] GETTY

대학이 맞은 재정적 위기

- 등록학생수 감소
- 현금보유감소
- 주정부 지원 감소
- 기부금, 지원금 감소
- 해외유학생 감소



대학 인수합병, 파산

coursera

UDACITY

ive

edX[®]

open

MINERVA

online

K-MOOC
Korean Massive Open Online Course

HYCU
HANYANG CYBER UNIVERSITY

Google

IBM



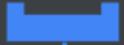
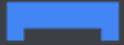
Apple

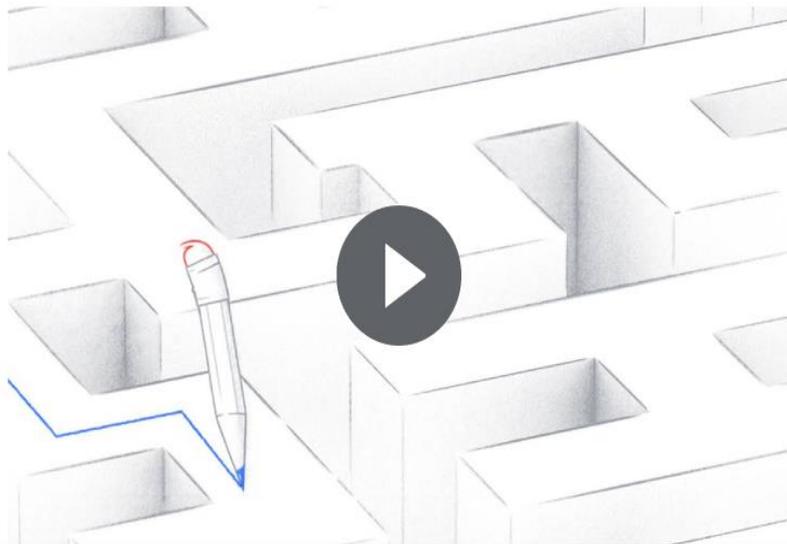
Dont Require a College Degree

Grow with Google

Announcing Google Career Certificates

Prepare for jobs in
fast-growing industries

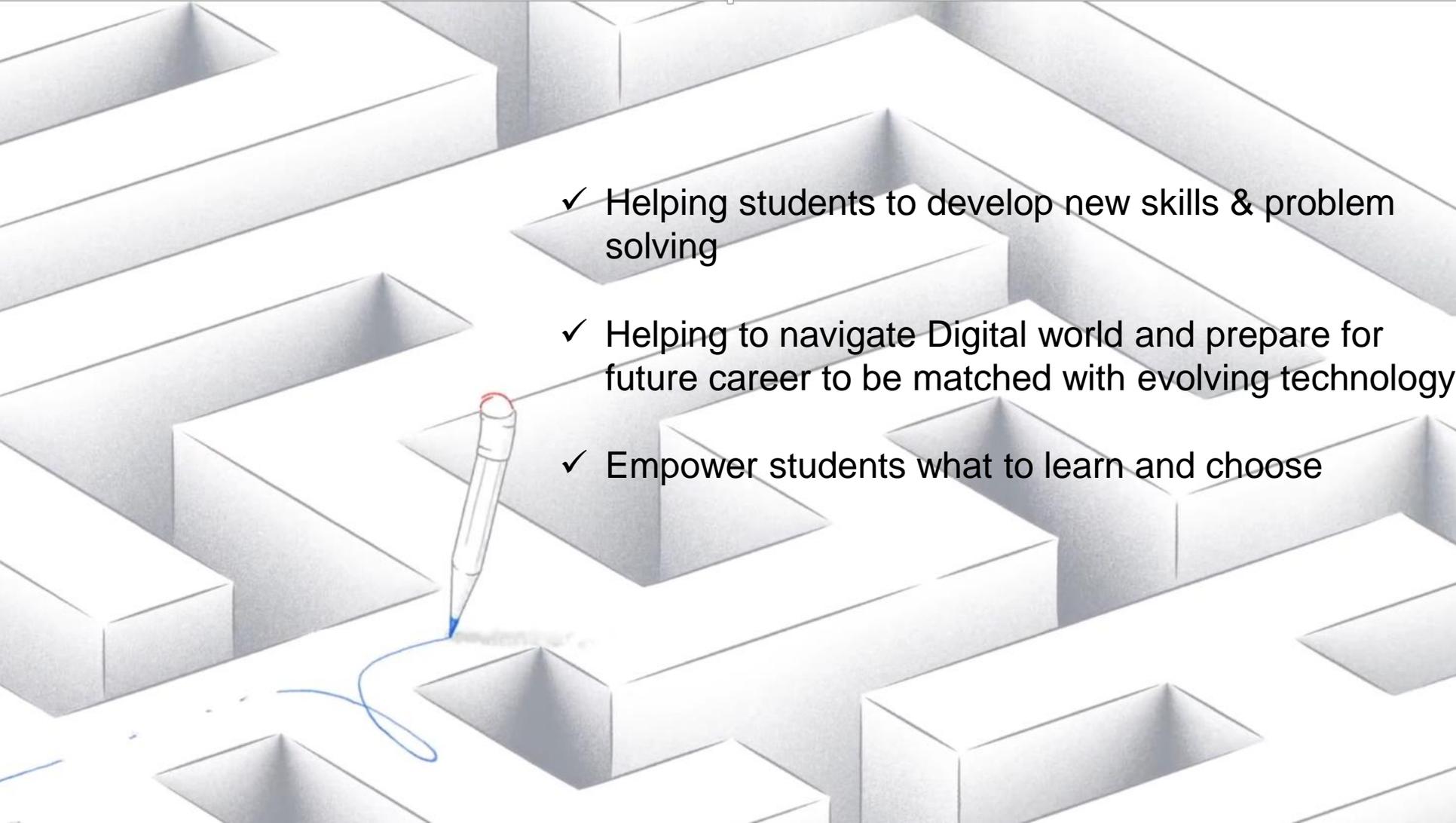


[View Global Report](#)

Classroom education is evolving

Education is evolving at a faster pace than any other period in recent history. There's a growing awareness among educators and families that today's curriculum needs to evolve to meet tomorrow's reality. Beyond tools and technology, students need to develop new skills to solve tough problems, collaborate effectively, and express ideas in new ways.

To better understand these changes, Google for Education partnered with a global team of researchers and analysts to examine evidence-based shifts in classroom education.

- 
- A 3D maze made of white rectangular blocks. A blue pen with a red eraser is shown drawing a blue line through the maze, starting from the bottom left and moving towards the center. The maze is composed of various sized rectangular paths and dead ends, creating a complex navigation challenge.
- ✓ Helping students to develop new skills & problem solving
 - ✓ Helping to navigate Digital world and prepare for future career to be matched with evolving technology
 - ✓ Empower students what to learn and choose



Penguin
Random
House



NO LONGER REQUIRE A COLLEGE DEGREE



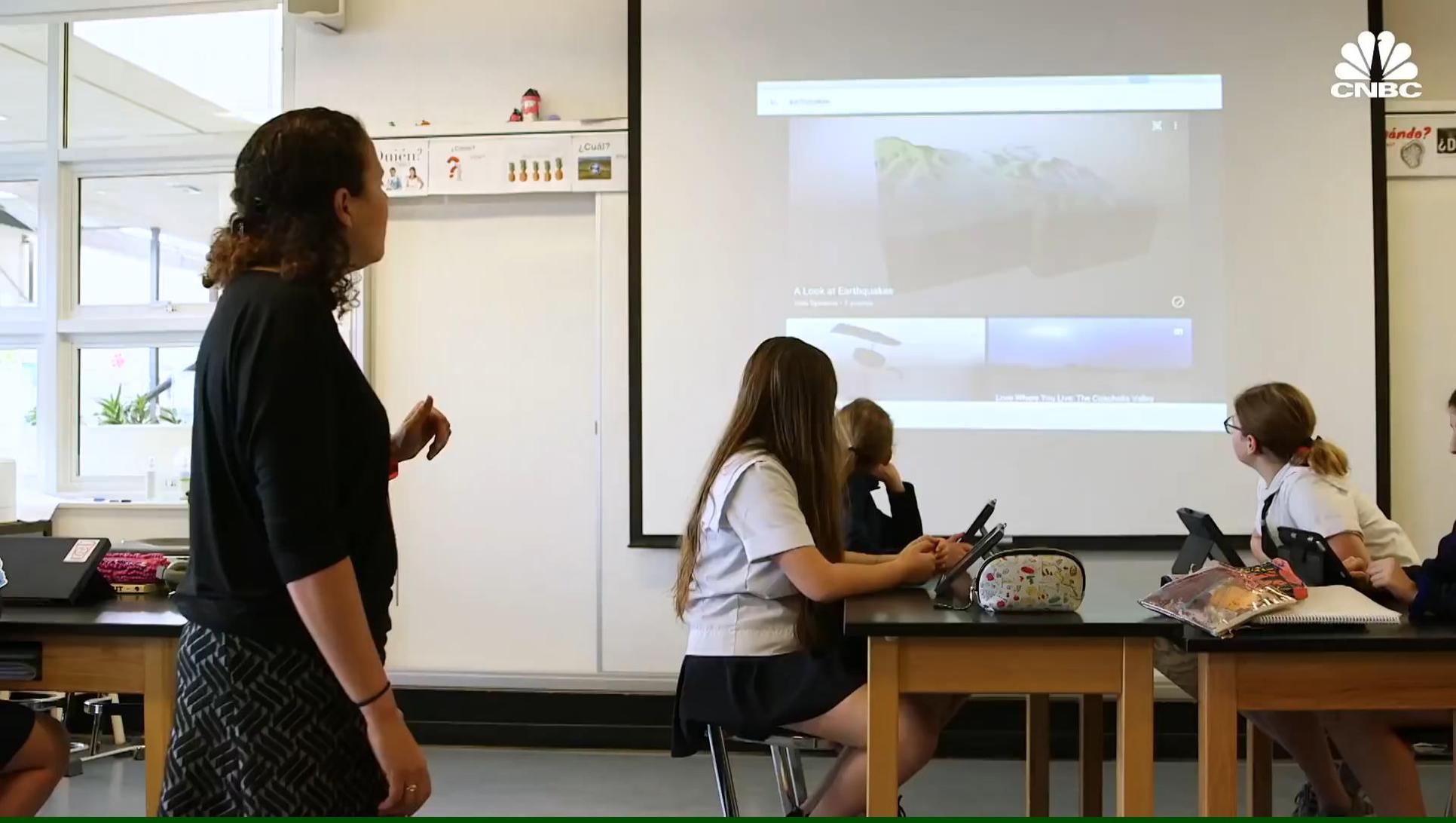
NORDSTROM

Look at Candidate's qualities & Skills than Education



A close-up photograph of a computer keyboard. The central focus is a bright blue key with the word "Education" printed on it in a bold, black, sans-serif font. The key is slightly raised and has rounded corners. Surrounding it are several white keys with various symbols and text: a left arrow key above, a right arrow key to the right, a key with a double quote and apostrophe to the left, a key with a question mark below, and a "Shift" key with an upward-pointing arrow to the right. The lighting is soft, creating subtle shadows and highlights on the keys' surfaces.

Education



Google

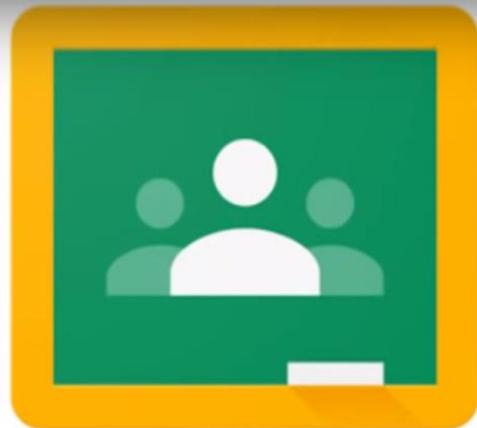


Google, Microsoft and Apple are battling for dominance in classrooms like

Google Classroom

Teacher Training

Teachings in Education



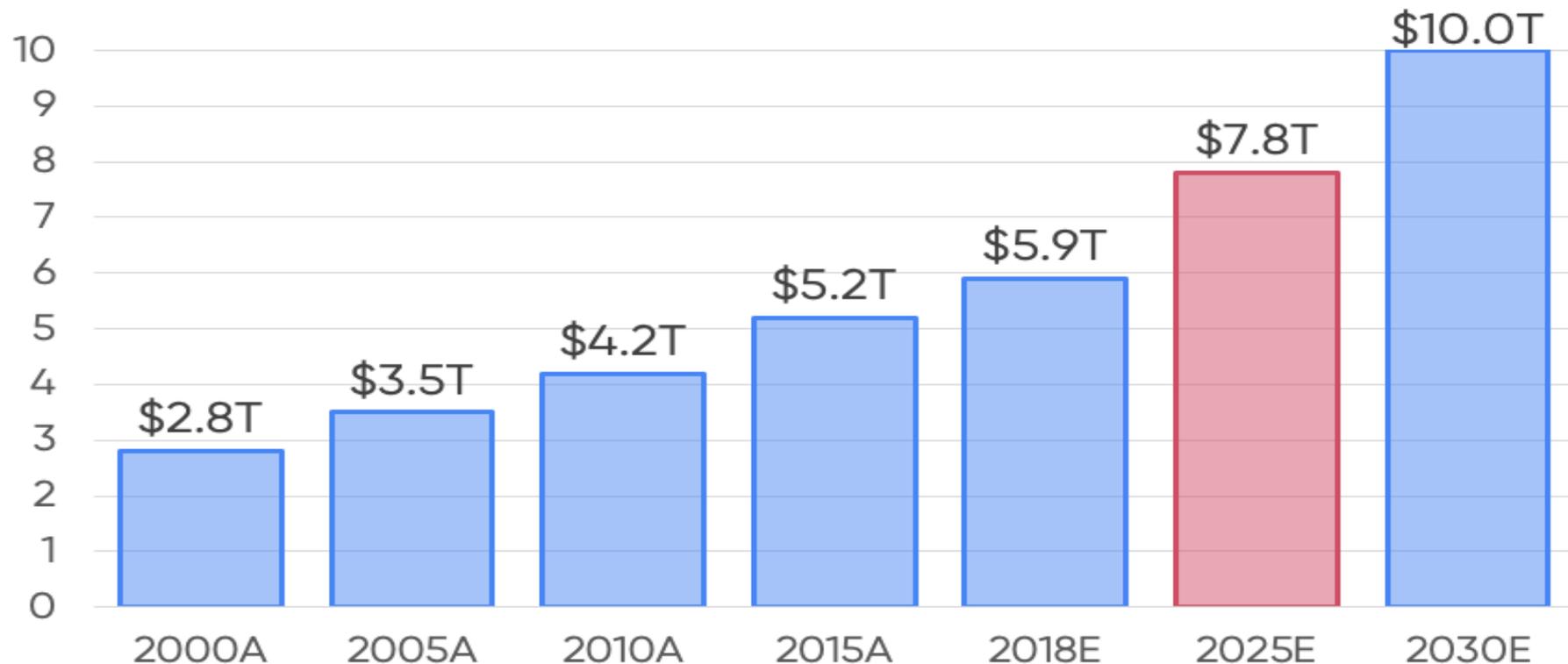
The Google logo is displayed in its characteristic multi-colored font, with each letter in a different color: 'G' is blue, 'o' is red, 'o' is yellow, 'g' is green, and 'l' is red.

CONTENTS

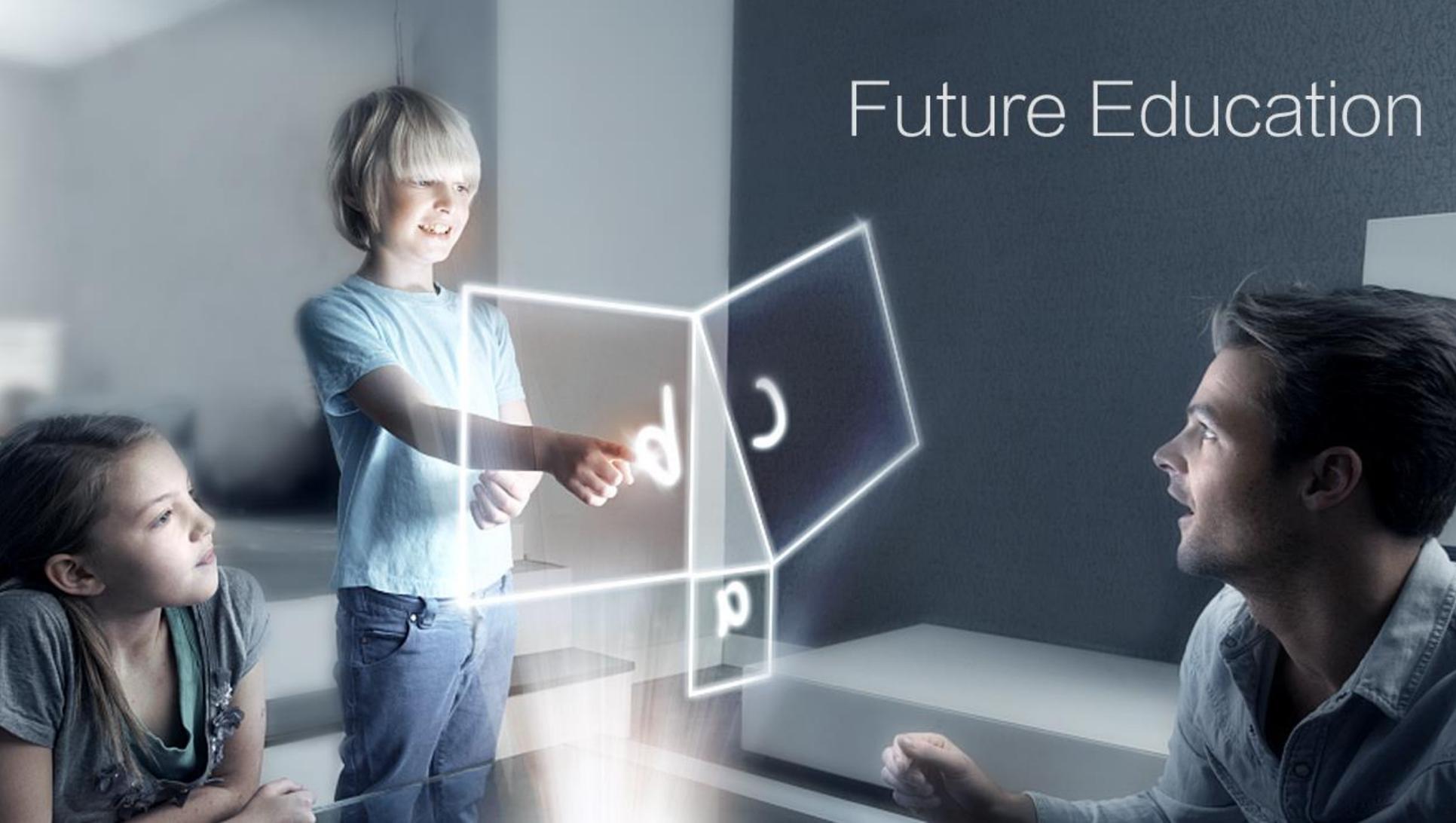
SW + HW DEVICES

SW SERVICE(SaaS)

Total Global Education Expenditure in USD trillions



Future Education



9:15 AM

SciApp

SCIENCE ROOM 04

BRIDGE THE GAP

Golden Gate Bridge



Mr. Rubio Monday, May 14
9:15 am

8th Grade Science

Question of the Day
Strongest type of bridge?

Assessment
Tests

Calendar

Class Resources

Announcements

Class Duties



AI TECHNOLOGY FOR STUDENTS & CLASS MANAGEMENT

HOW "CLASS CARE SYSTEM" WORKS



CAPTURING

Hanwang's camera takes a photo of the entire class once per second and sends the footage to a server housed elsewhere in the school.



SCANNING

The server analyzes the footage and identifies each student's face



STORING

The facial data is encrypted and stored in Hanwang's server



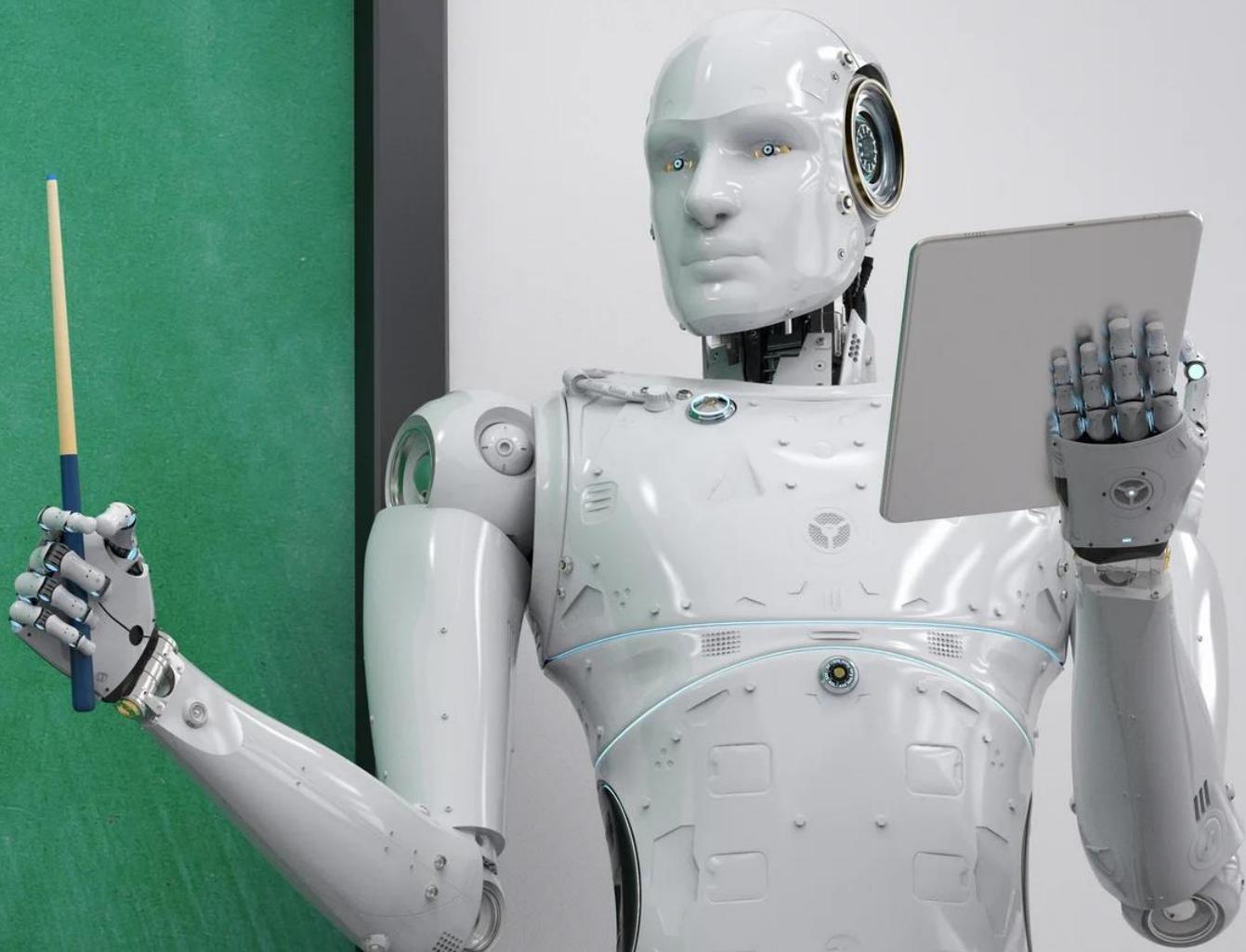
CLASSIFICATION

Students' in-class behaviors are placed into five categories, powered by deep-learning neural networks

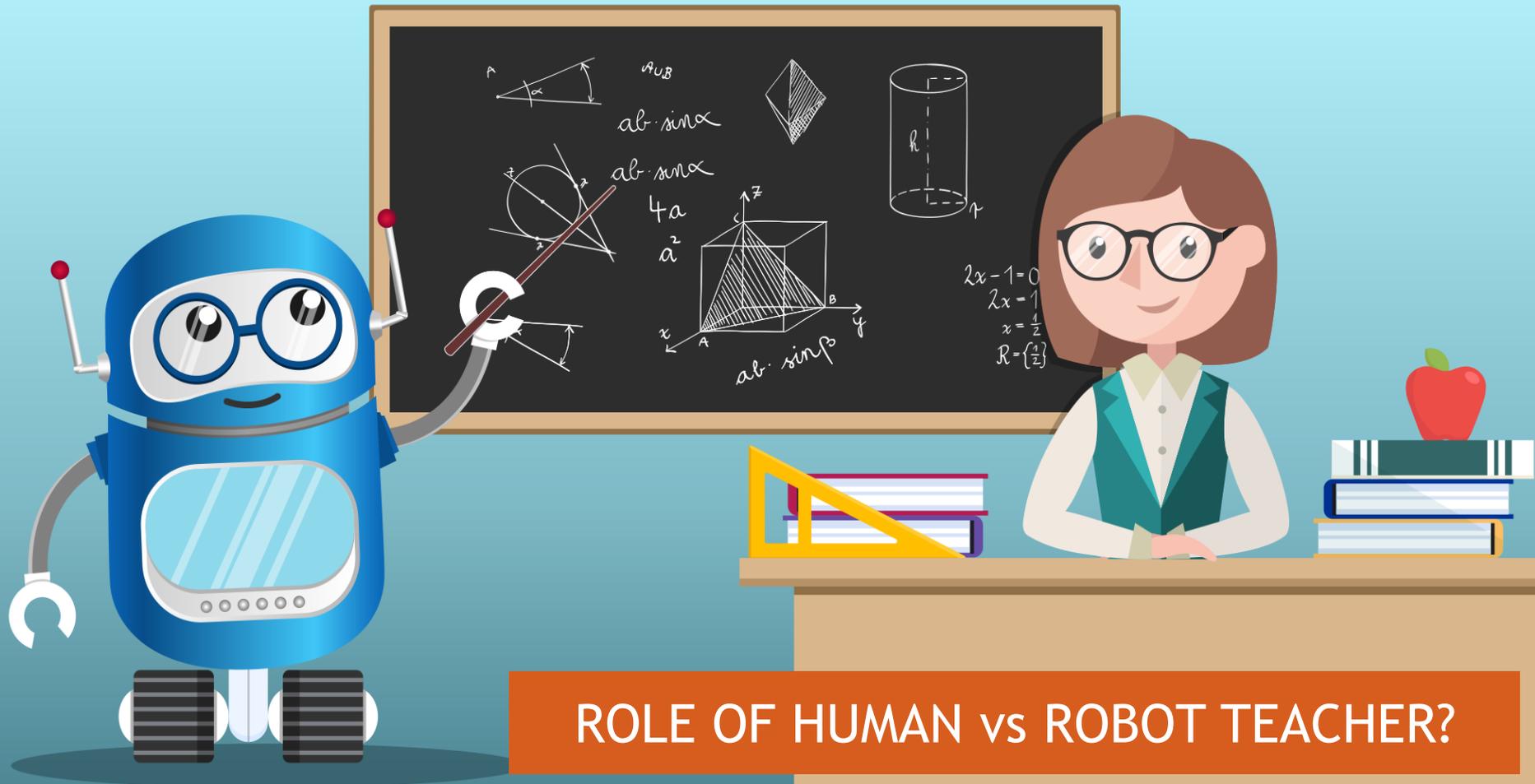




AI + MR







ROLE OF HUMAN vs ROBOT TEACHER?

FUTURE OF EDUCATION

after

COVID PANDEMIC



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