

# 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]

LAST 10 MONTHS...

# 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**

## THE ACCELERATION OF ACCELERATION

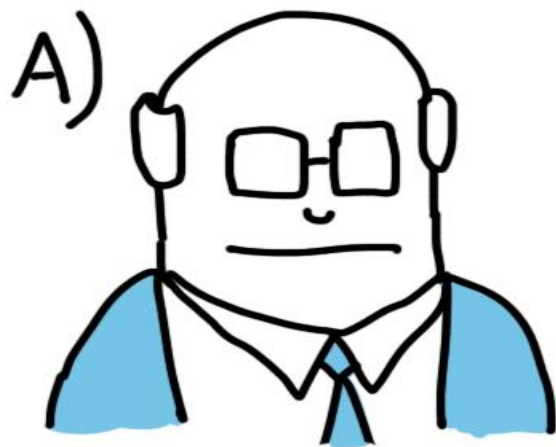


Peter H. Diamandis

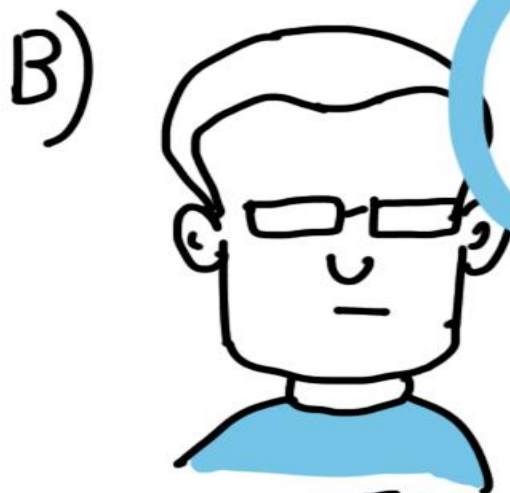
X Prize Foundation의 창립자 겸 회장,  
Singularity University의 공동 창립자 겸 회장,  
New York Times 베스트셀러 *Abundance*로 유명한  
그리스 계 미국인 엔지니어, 의사 및 기업가.



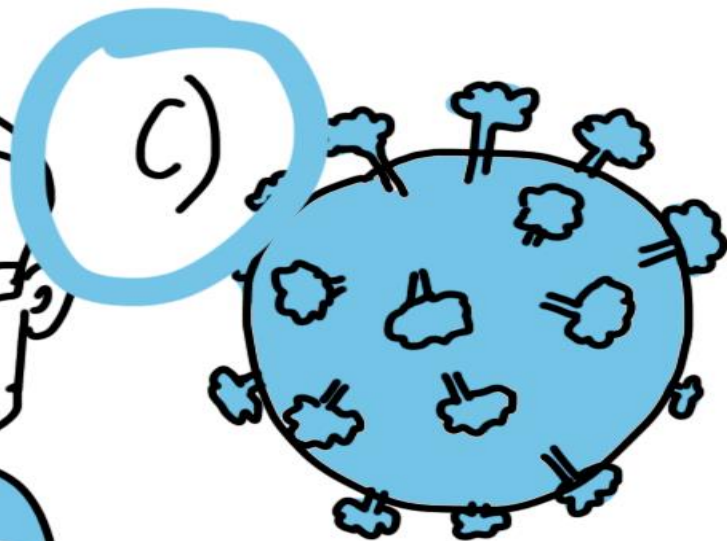
# WHO LED THE DIGITAL TRANSFORMATION OF YOUR COMPANY ?



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 Covid-19 has accelerated digital transformation
- 95% say they're planning to increase digital investment
- 79% say Covid-19 has increased the importance of digital transformation

[전체](#) [이미지](#) [뉴스](#) [동영상](#) [쇼핑](#) [더보기](#)

[설정](#) [도구](#)

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.iiot-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 ...

A 3D rendering of a coronavirus particle, showing its characteristic spherical shape with a textured grey surface and numerous red, crown-like spikes. A thick red diagonal banner runs across the center of the image, containing the text "DISRUPTIVE CHANGES" in white, bold, sans-serif capital letters. The background is dark grey with some faint orange and yellow particles.

**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

Aug 7 2020

프리스위라즈 추두리

하버드 경영대학원 부교수

Harvard Business Review  
November–December 2020

181

PHOTOGRAPHER SEIKO



**Trigonometry:**

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

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

**Calculus:**

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

**Electromagnetism:**

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

**Optics:**

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

**Circuit Diagrams:**

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

**Other Equations:**

$\phi = \frac{2\pi}{\lambda} r$   
 $\phi = \frac{2\pi}{\lambda} r$   
 $\phi = \frac{2\pi}{\lambda} r$

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 older with white hair and is gesturing with his right hand while speaking. The man on the left is younger, wearing glasses and a red striped tie, and is holding a tablet. On the table between them are several blue boxes, 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**

sive



open



**MINERVA**

online



**K-MOOC**

Korean Massive Open Online Course



Google

IBM



Apple

**Dont Require a College Degree**

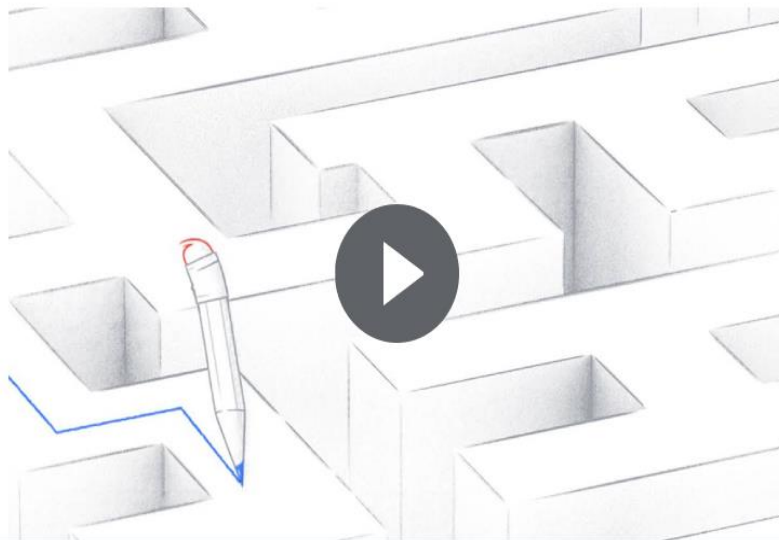
Grow with Google

# 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 pen with a red eraser and blue tip is drawing a blue line path through the maze. The path starts from the bottom left and moves towards the center of the maze.
- ✓ 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

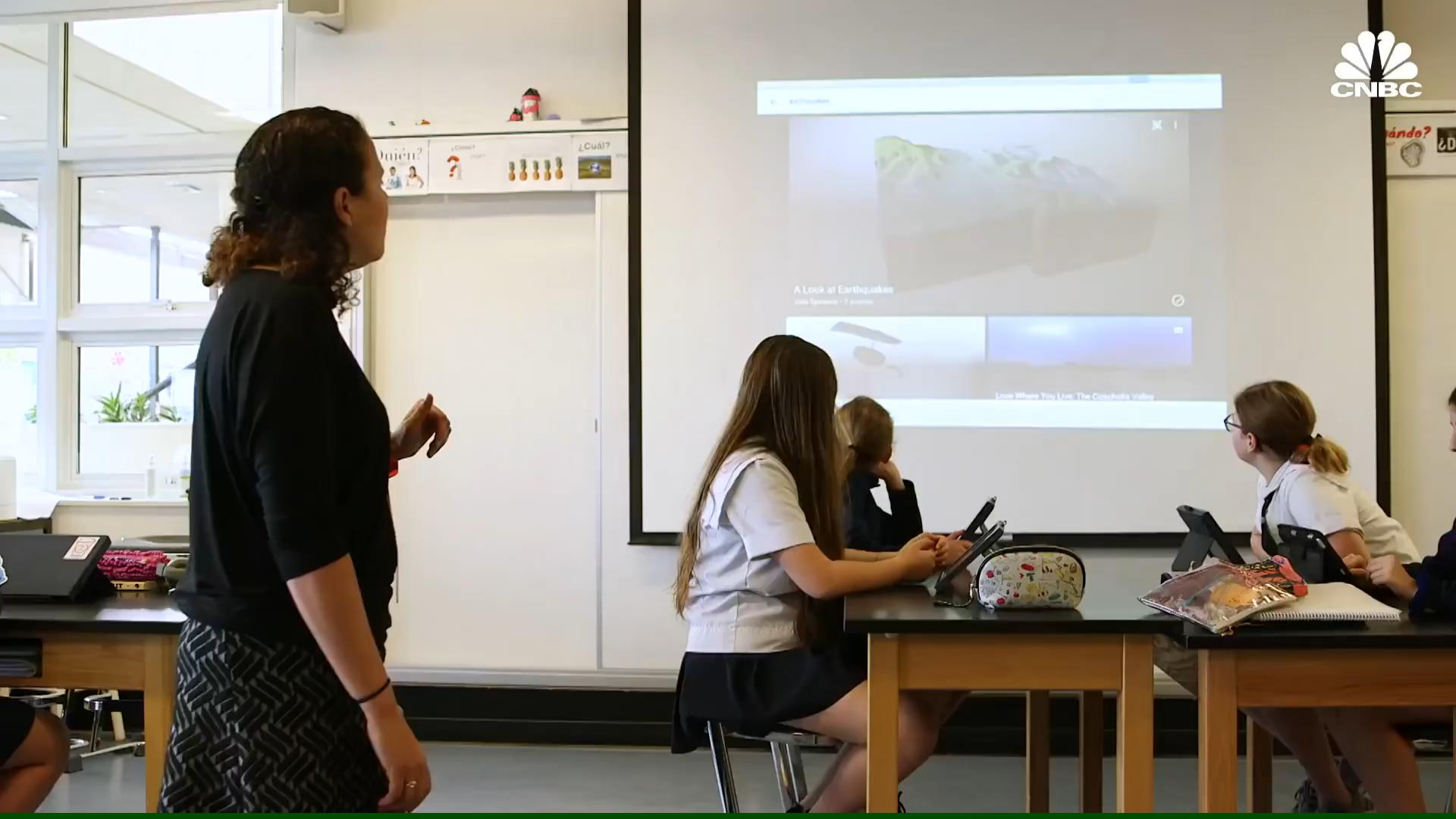






**Education**

A close-up photograph of a computer keyboard. The central focus is a light blue key with the word "Education" printed in bold black text. Surrounding this key are several white keys: to the left is a key with a closing square bracket and a closing curly brace; above is a key with a left-pointing arrow; to the right is a key with a right-pointing arrow and the letters "Pr"; below is a key with a double quote and a comma; and to the bottom right is a "Shift" key with an upward-pointing arrow icon. The lighting is soft, creating subtle shadows between the keys.



# Google



# Microsoft



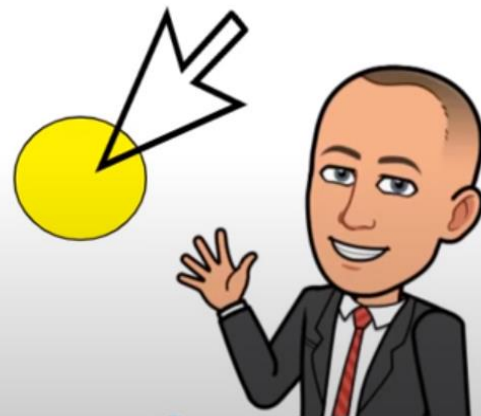
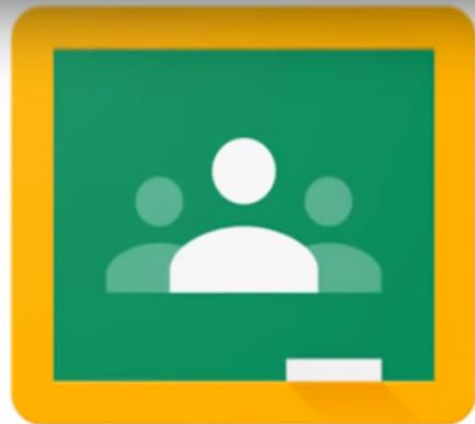
Google, Microsoft and Apple are battling  
for dominance in classrooms like



# Google Classroom

## Teacher Training

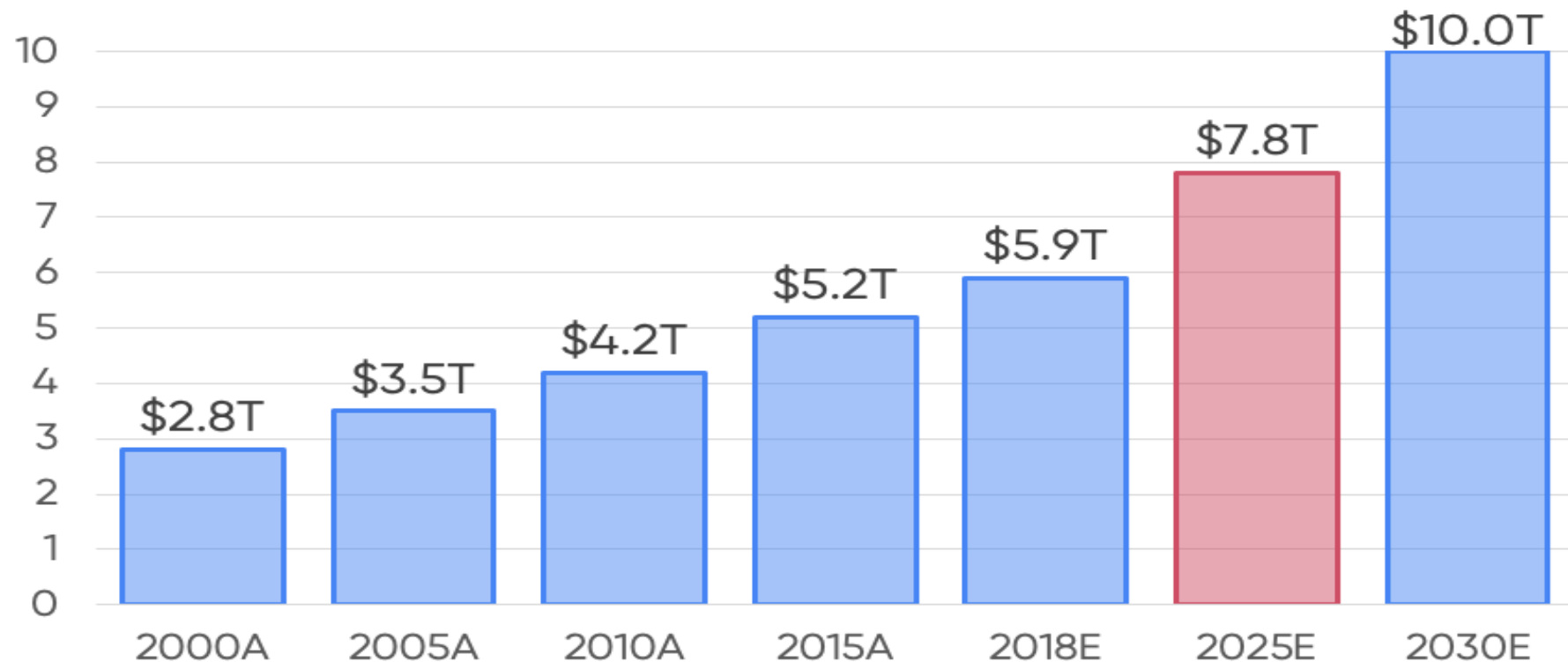
Teachings in Education





CONTENTS  
SW + HW DEVICES  
SW SERVICE(SaaS)

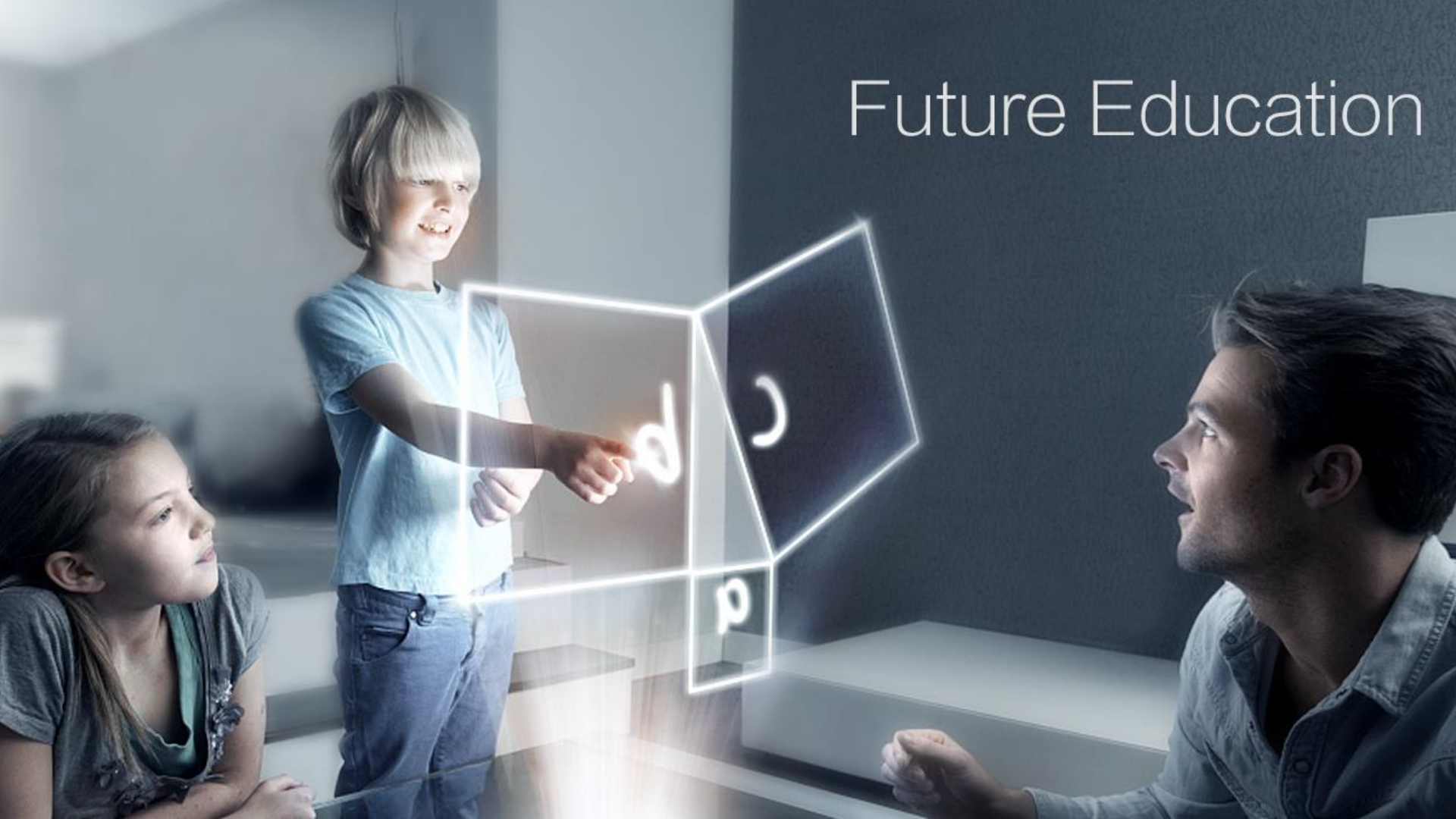
Total Global Education Expenditure in USD trillions



Source: HolonIQ, Smart Estimates™ January 2019



# Future Education



9:15 AM

SciApp

SCIENCE ROOM 04

# BRIDGE THE GAP

Kindergarten Bridges

Kindergarten Bridges



Mr. Rubio  
5th Grade Science

Monday, May 14  
9:15 am

Question of the Day  
Strongest type of bridge?

Answer  
Truss



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

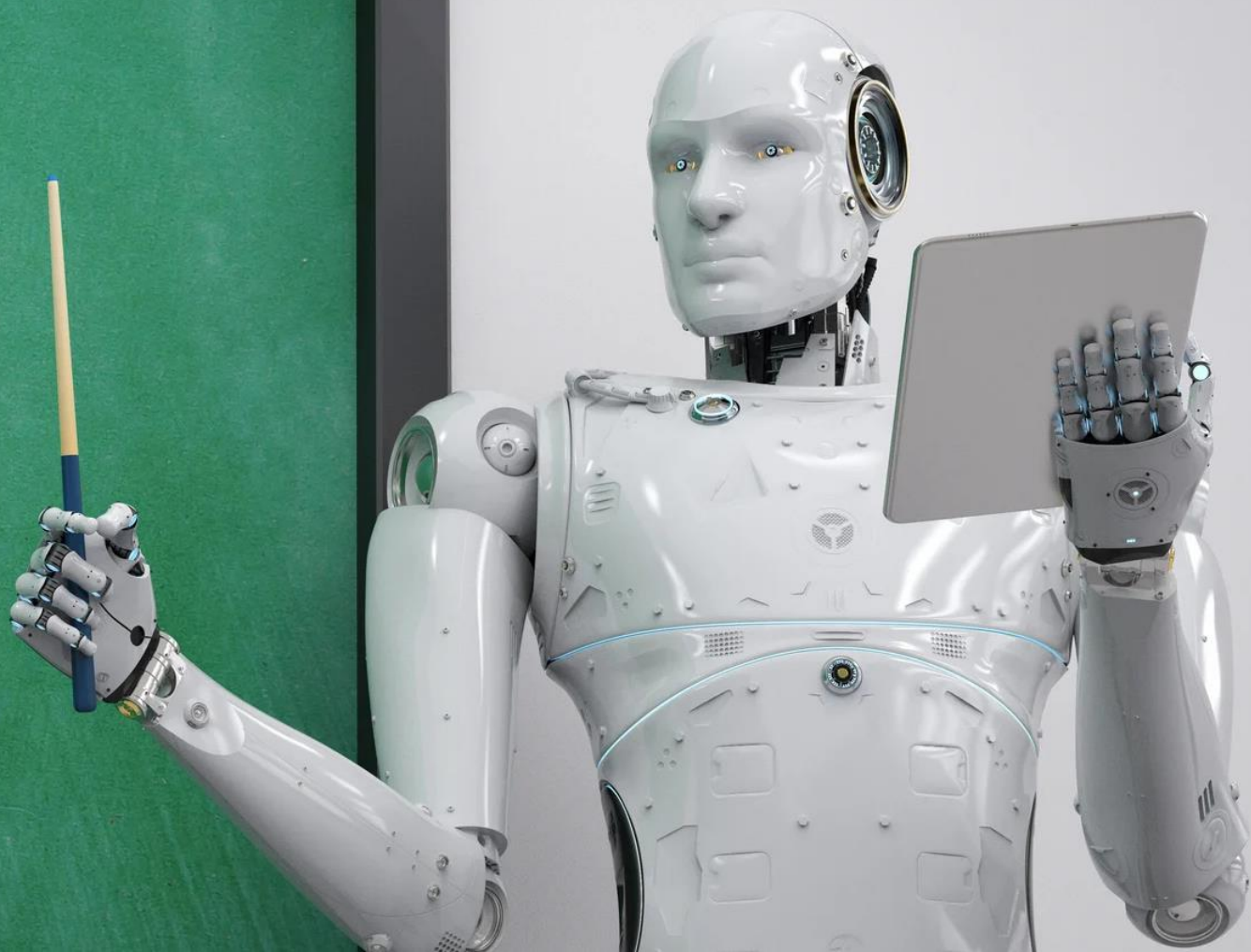
Students' in-class behaviors are placed into five categories, powered by deep-learning neural networks





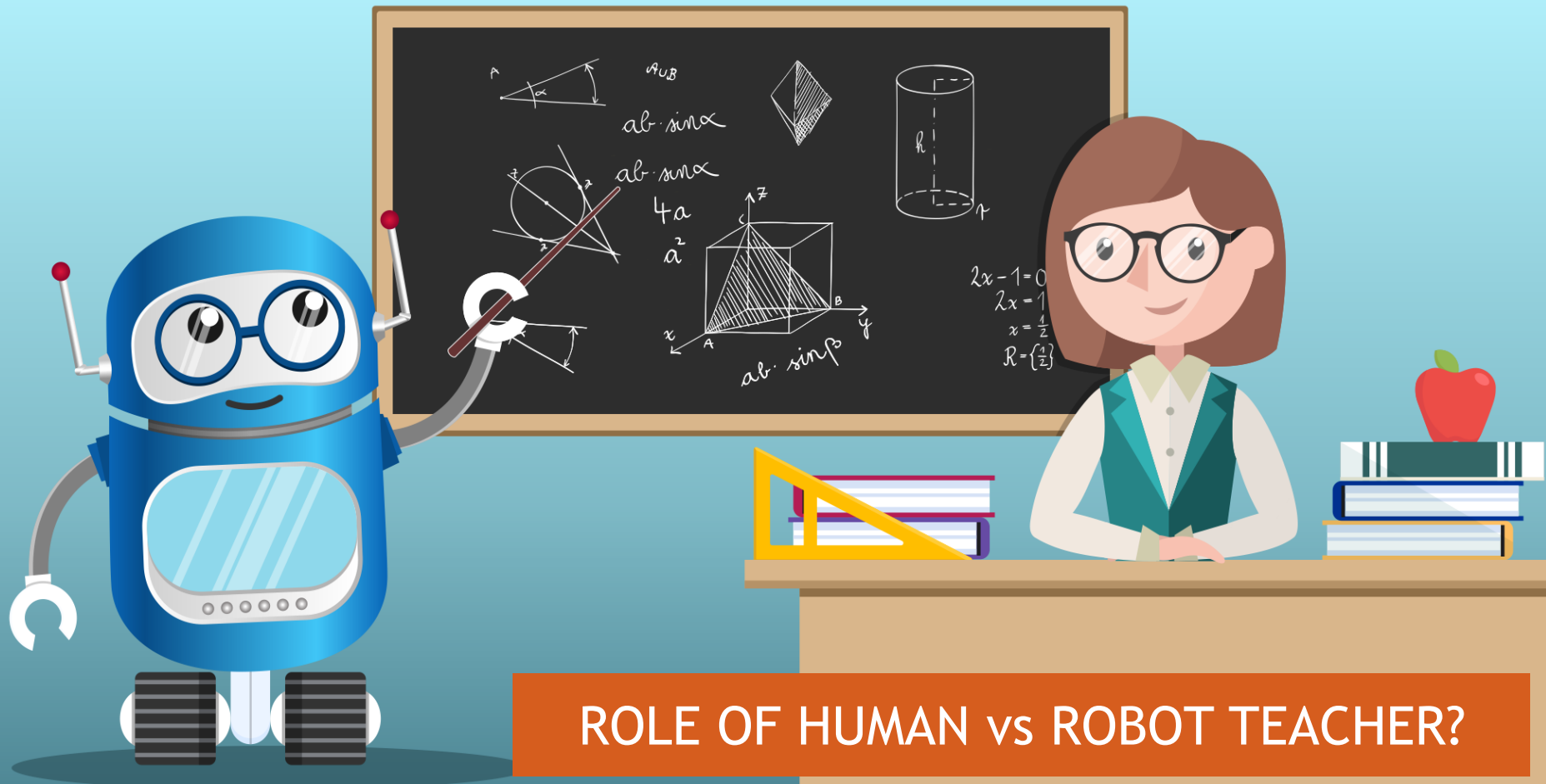


AI + MR









ROLE OF HUMAN vs ROBOT TEACHER?

**FUTURE OF EDUCATION**

**after**

**COVID PANDEMIC**



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