

**THE SCHOOL AS  
WE KNOW IT IS  
HISTORY....**

A classroom scene with a teacher at the front and students at desks with laptops. A large digital screen displays educational content. The screen is divided into several sections. The top left shows the time '9:21 AM' and the text 'SciApp'. The top right shows 'SCIENCE ROOM 04'. The main section on the left is titled 'STRUCTURES AND SUPPORT' and shows a diagram of a bridge. The right side of the screen has a sidebar with various widgets: 'Mr. Rubio', 'Question of the Day', 'Bridge Construction', 'Calendar', and 'Classroom'.

...BUT LET'S SEE IT  
AS AN  
OPPORTUNITY!

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A magnifying glass with a gold frame is centered in the image, focusing on the word "INNOVATION". The background is white with numerous black fingerprints scattered across it. The magnifying glass's lens is clear, and the word "INNOVATION" is written in a bold, black, sans-serif font within the lens's field of view.

**INNOVATION**



# CRIME SCENE FUTURE

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A person stands in the center of a vibrant red digital space. The background is filled with floating binary code (0s and 1s) and various data points, creating a sense of being immersed in a digital environment. A bright blue horizontal bar is positioned across the lower half of the image, containing the text 'Disruption and digital transformation...'.

# Disruption and digital transformation...



...determine our everyday  
life and our learning

The background of the slide is a dark, blue-toned image showing a network switch or patch panel with several fiber optic cables plugged in. The cables are bundled together and extend from the left side of the frame towards the center. The lighting is dim, with some highlights on the cables and the switch's ports, creating a technical and digital atmosphere.

**The world is becoming faster, more dynamic and more digital! This is how the education of tomorrow must be!**



# A LITTLE WARM-UP EXERCISE

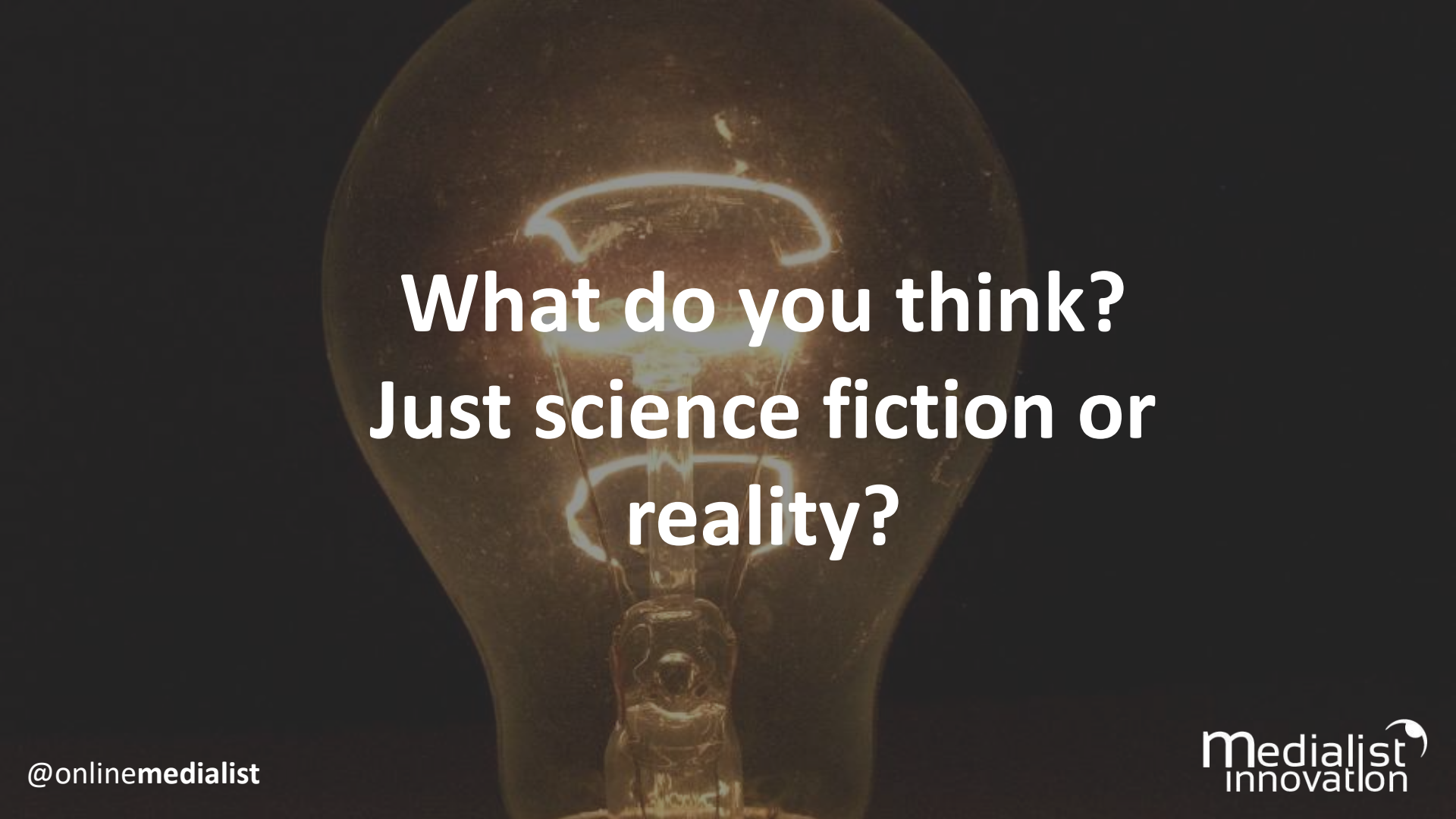




Source: The Time Machine, 2002







**What do you think?  
Just science fiction or  
reality?**

Source: The Time Machine, 2002



**VOX**  
MOVIECLIPS.COM

WIL





**BABELFISCH**

Source: Waverly Labs

Pilot

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**WE LIVE IN A VUCA  
WORLD!**

**V**olatility  
**U**ncertainty  
**C**omplexity  
**A**mbiguity

# Daily data

2.5 trillion  
bytes





**X 10 Mio. =**





## DIGITAL WORLD

**90%**

of this data was  
created in the last two  
years!

**BY 2020**

**IT WILL BE  
35 Zetabyte**

**BY 2020**

**IT WILL BE  
35 Zetabyte**

A technical drawing, likely a cross-section of a mechanical joint or a structural component, serves as the background. It features various hatching patterns, dimension lines, and labels such as 'A1', '2', '3', '4', '5', '6', '7', '8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20', '21', '22', '23', '24', '25', '26', '27', '28', '29', '30', '31', '32', '33', '34', '35', '36', '37', '38', '39', '40', '41', '42', '43', '44', '45', '46', '47', '48', '49', '50', '51', '52', '53', '54', '55', '56', '57', '58', '59', '60', '61', '62', '63', '64', '65', '66', '67', '68', '69', '70', '71', '72', '73', '74', '75', '76', '77', '78', '79', '80', '81', '82', '83', '84', '85', '86', '87', '88', '89', '90', '91', '92', '93', '94', '95', '96', '97', '98', '99', '100'.


**Knowledge increasingly flows  
into the network or cloud**



**In a world full of data, the  
competent handling of such data  
is crucial!**

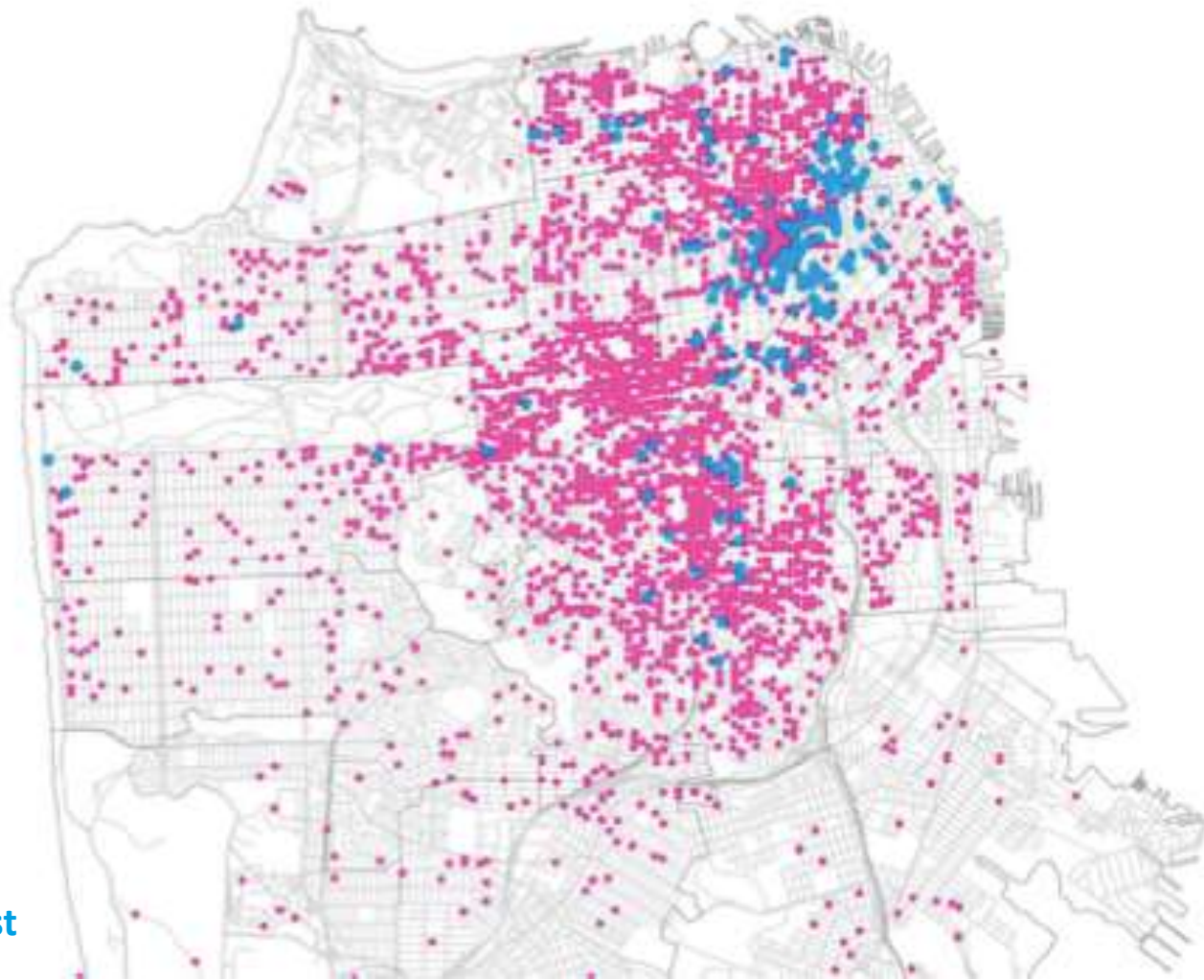
Source: equalman






**This digital transformation is  
claiming its victims...**







Why didn't I see it  
coming?



A hand with red nail polish is shown writing on a dark chalkboard. The text is written in white chalk.

**Digital transformation offers a  
great deal of potential for  
education!**





**In tomorrow's lectures, you have  
to adapt to the uniqueness of the  
students.**



# IMPOSSIBLE?

**NO!**  
**But you need technological  
support!**

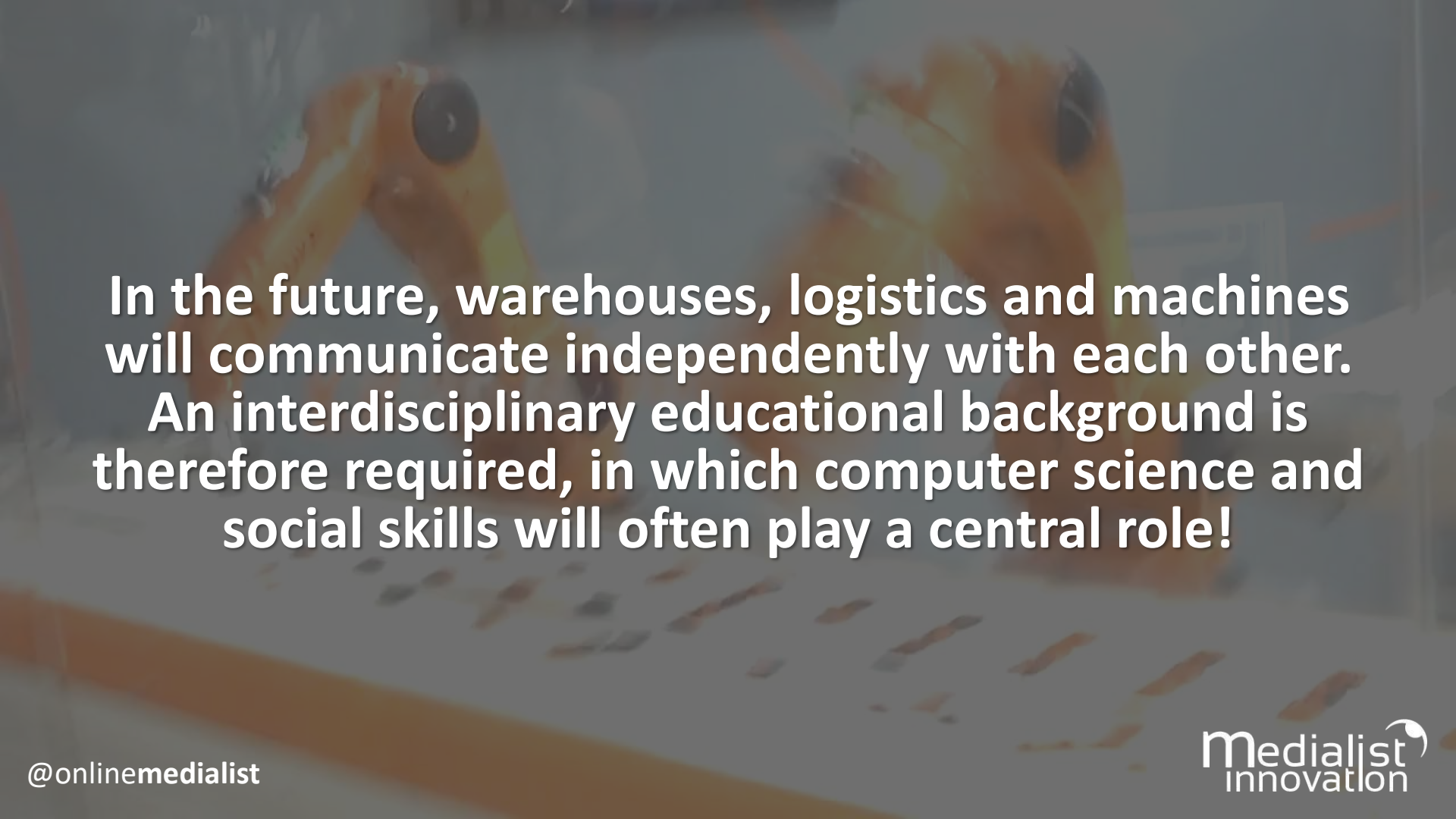






A man is shown from the waist up, wearing a white long-sleeved shirt and a black robotic suit (ExoHand) over his arms and torso. He is holding a small object in his mouth. The background is a large, modern building atrium with a high, arched glass and steel ceiling and multiple levels of balconies. The image has a dark, semi-transparent overlay.

**It is up to you to prepare your  
students for the jobs of the future!**



**In the future, warehouses, logistics and machines will communicate independently with each other. An interdisciplinary educational background is therefore required, in which computer science and social skills will often play a central role!**

Source: NZZ

# Data Detective

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Source: NZZ

# Cyber City Planner

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Source: NZZ

# Edge-Computing-Master

@onlinemedialist

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# Augmented-Reality Journey-BUILDER

Source: NZZ

# Fitness-Commitment-Counselor

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A glowing purple wireframe brain, rendered in a translucent, mesh-like style, centered against a black background. The brain's structure is highlighted by the glowing lines, showing the cerebral cortex and internal connections.

# Personal memory curator

# Stroller / Conversation partner



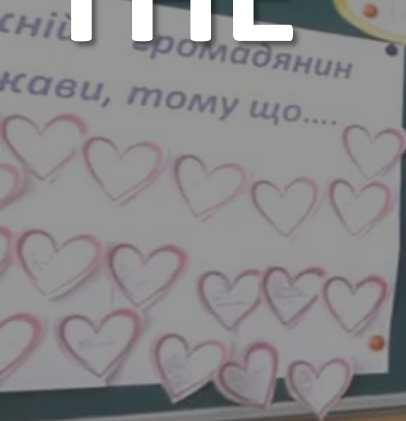
**IDENTIFY  
THE**



**TRACES OF  
CHANGE**

# IDENTIFY THE

сній громадянин  
кави, тому що....



Friday, the 1st September  
Class-

$$\begin{array}{r} 625 \overline{) 725} \\ \underline{-125} \\ 100 \\ \underline{-100} \\ 0 \end{array}$$
$$\begin{array}{r} 34 \overline{) 115} \\ \underline{-102} \\ 13 \\ \underline{-12} \\ 1 \end{array}$$
$$\begin{array}{r} 2 \overline{) 12} \\ \underline{-10} \\ 2 \end{array}$$

# CHANGE IN EDUCATION

A cardboard robot with a sad face is surrounded by several white paper ghosts with surprised expressions. The robot is in the center, and the ghosts are in the foreground and background. The text is overlaid on the robot.

**Don't give the GERMAN ANGST  
a chance!**





**What are you thinking? How does  
Estonia approach innovation and  
change?**



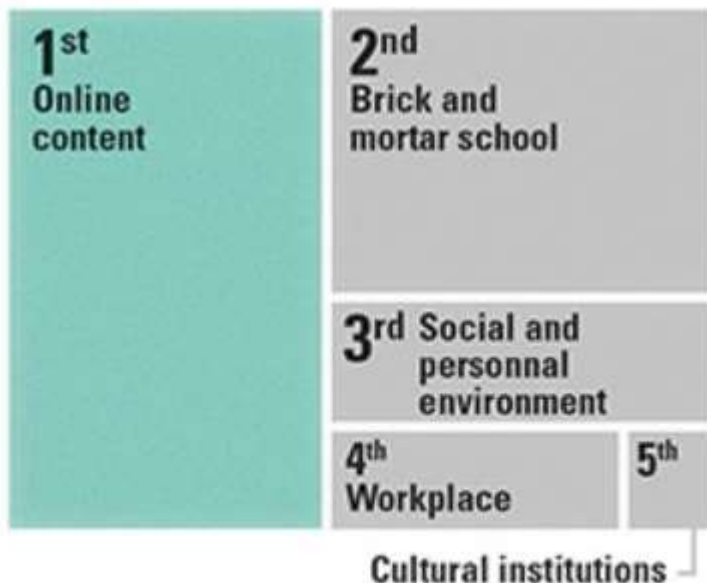
**From analog to digital:  
These are the new challenges for  
your classes!**

A vintage television set with a wooden frame and a dark screen is the central focus. It is surrounded by numerous stacks of VHS tapes, some of which are labeled 'VHS', 'VOL. 1', 'VOL. 2', 'VOL. 3', 'VOL. 4', 'VOL. 5', 'VOL. 6', 'VOL. 7', 'VOL. 8', 'VOL. 9', 'VOL. 10', 'VOL. 11', 'VOL. 12', 'VOL. 13', 'VOL. 14', 'VOL. 15', 'VOL. 16', 'VOL. 17', 'VOL. 18', 'VOL. 19', 'VOL. 20', 'VOL. 21', 'VOL. 22', 'VOL. 23', 'VOL. 24', 'VOL. 25', 'VOL. 26', 'VOL. 27', 'VOL. 28', 'VOL. 29', 'VOL. 30', 'VOL. 31', 'VOL. 32', 'VOL. 33', 'VOL. 34', 'VOL. 35', 'VOL. 36', 'VOL. 37', 'VOL. 38', 'VOL. 39', 'VOL. 40', 'VOL. 41', 'VOL. 42', 'VOL. 43', 'VOL. 44', 'VOL. 45', 'VOL. 46', 'VOL. 47', 'VOL. 48', 'VOL. 49', 'VOL. 50'. The background is a dark, textured surface.

**It is down to the general attitude  
towards new media and  
technologies...**

## WHO WILL PROVIDE KNOWLEDGE?

Almost half of the respondents think that online content will be the most important source of knowledge.





**...but it is also a question of  
infrastructure!**









**We all have a central tool for  
digitization with us at all times!**



**I KNOW IT IS HARD...**



IT WAS ALWAYS  
HARD...

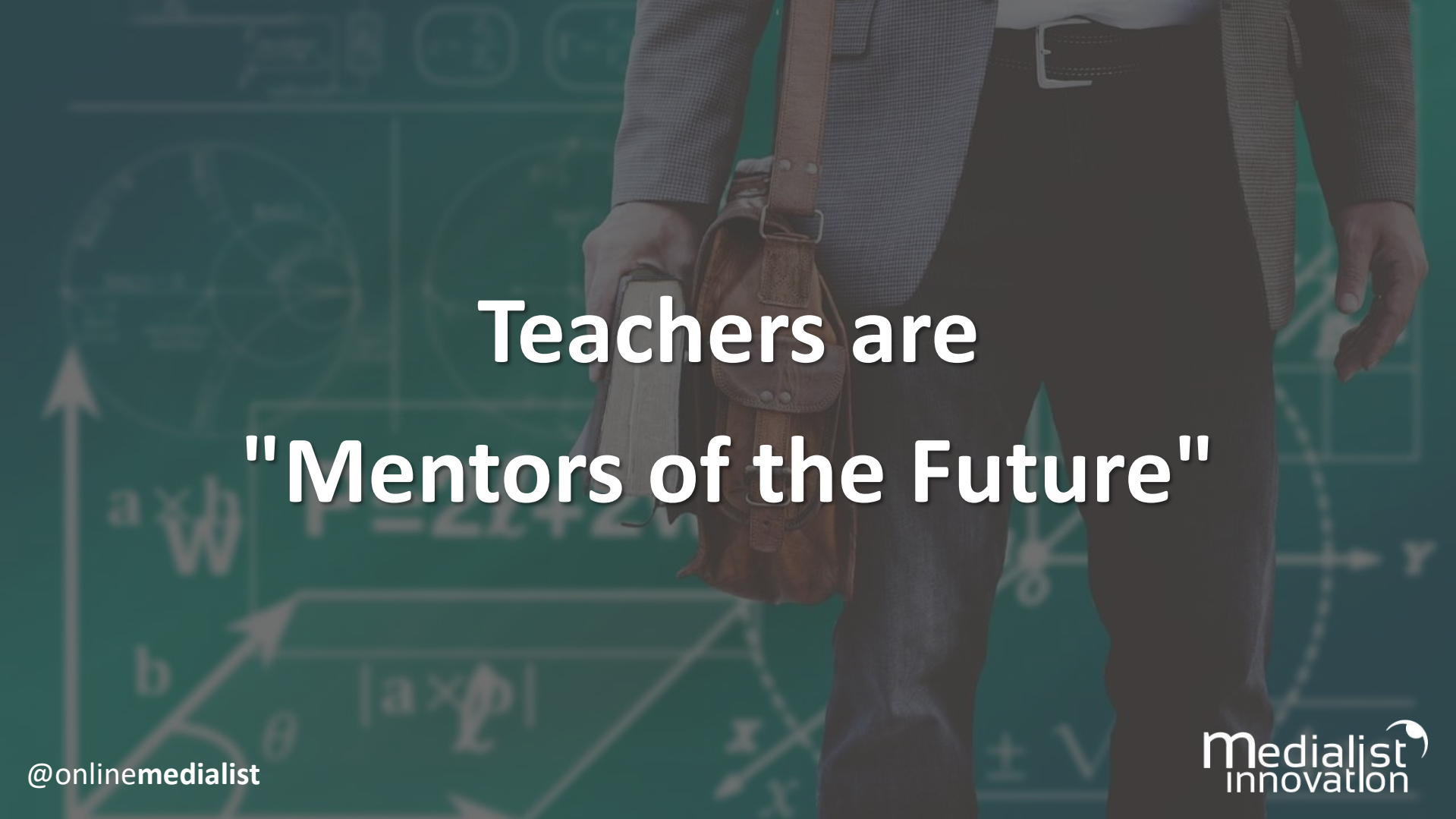








**Students must be prepared for the  
world of tomorrow!  
Not yesterday's!**

A person in a grey suit and dark trousers is shown from the waist down, holding a brown leather bag and a book. The background is a green wall covered in faint, white mathematical formulas and diagrams, including  $E=mc^2$ ,  $a \times b$ ,  $|a \times b|$ ,  $\theta$ ,  $x$ ,  $y$ ,  $\pm$ , and  $\sqrt$ .

# Teachers are "Mentors of the Future"

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A man in a light blue shirt and dark pants stands on the left, pointing at a large alphabet chart on an easel. A young boy in a blue shirt sits on a tree stump on the right, looking at the chart. The chart displays the Thai alphabet (A-Z) with corresponding illustrations. The background is a misty forest with a large tree trunk on the left.

There will always be a need for  
teachers...

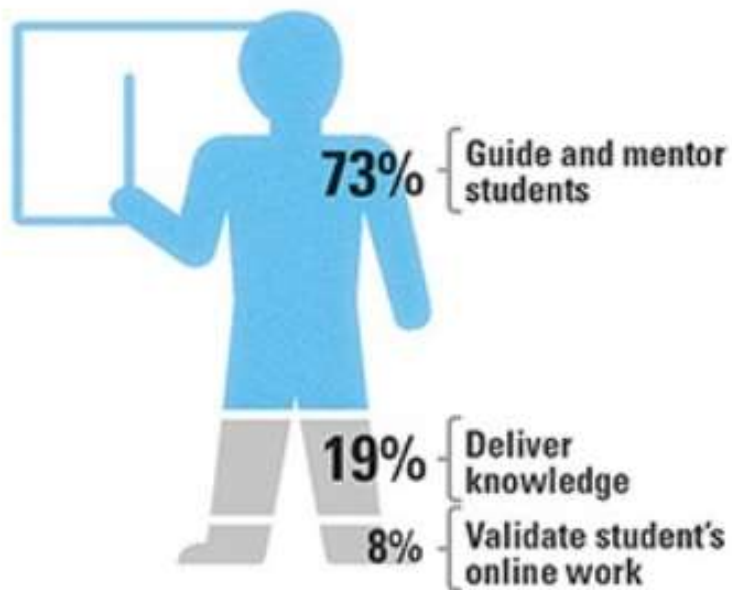
Acetic Acid

**...but your role  
will change!**



## THE ROLE OF TEACHERS?

The role of teachers will shift toward guiding students along their autonomous learning paths.



A close-up, artistic rendering of a human eye. The iris is replaced by a circular reflection of a city skyline at dusk or dawn, with warm lights from buildings and a bridge visible against a dark sky. The surrounding skin and eyelashes are rendered in a dark, textured style.

# Develop a Future Mindset

A young woman with blonde hair, wearing a white school shirt and a plaid tie, is shown in profile, looking down with a distressed expression. Her hand is pressed against her forehead. She is surrounded by a chaotic pile of papers and a large 'Compact Oxford ENGLISH Dictionary'. The entire scene is overlaid with a semi-transparent dark filter.

# Your students deserve it!

# SUSPECTS

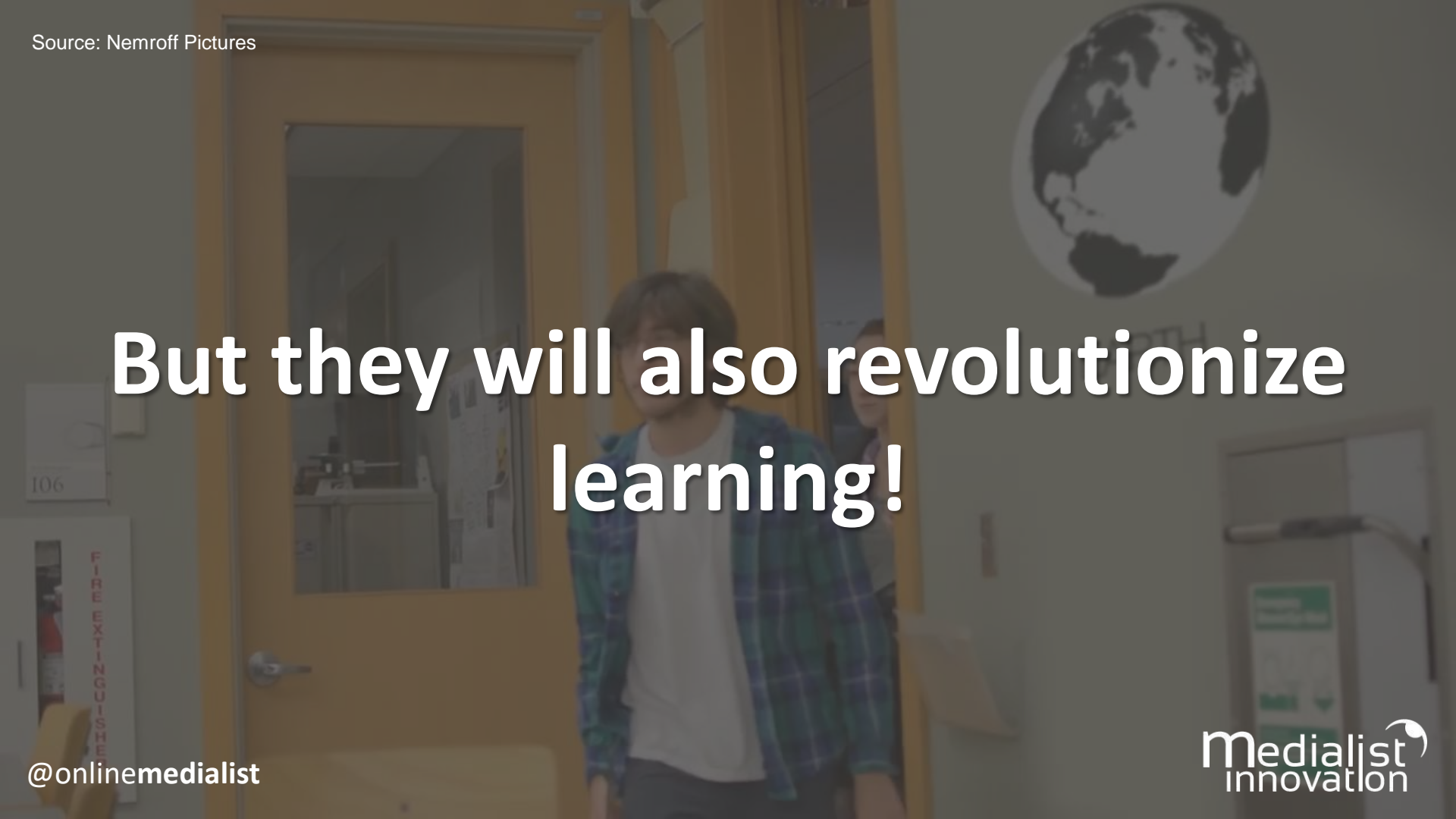
A woman with blonde hair tied back is seen from the side, reaching out with both hands towards a glowing, circular, translucent interface element floating in the air. The background is a dimly lit room with a large window. In the foreground, a row of five small video screens displays different people, suggesting a virtual meeting or investigation environment.



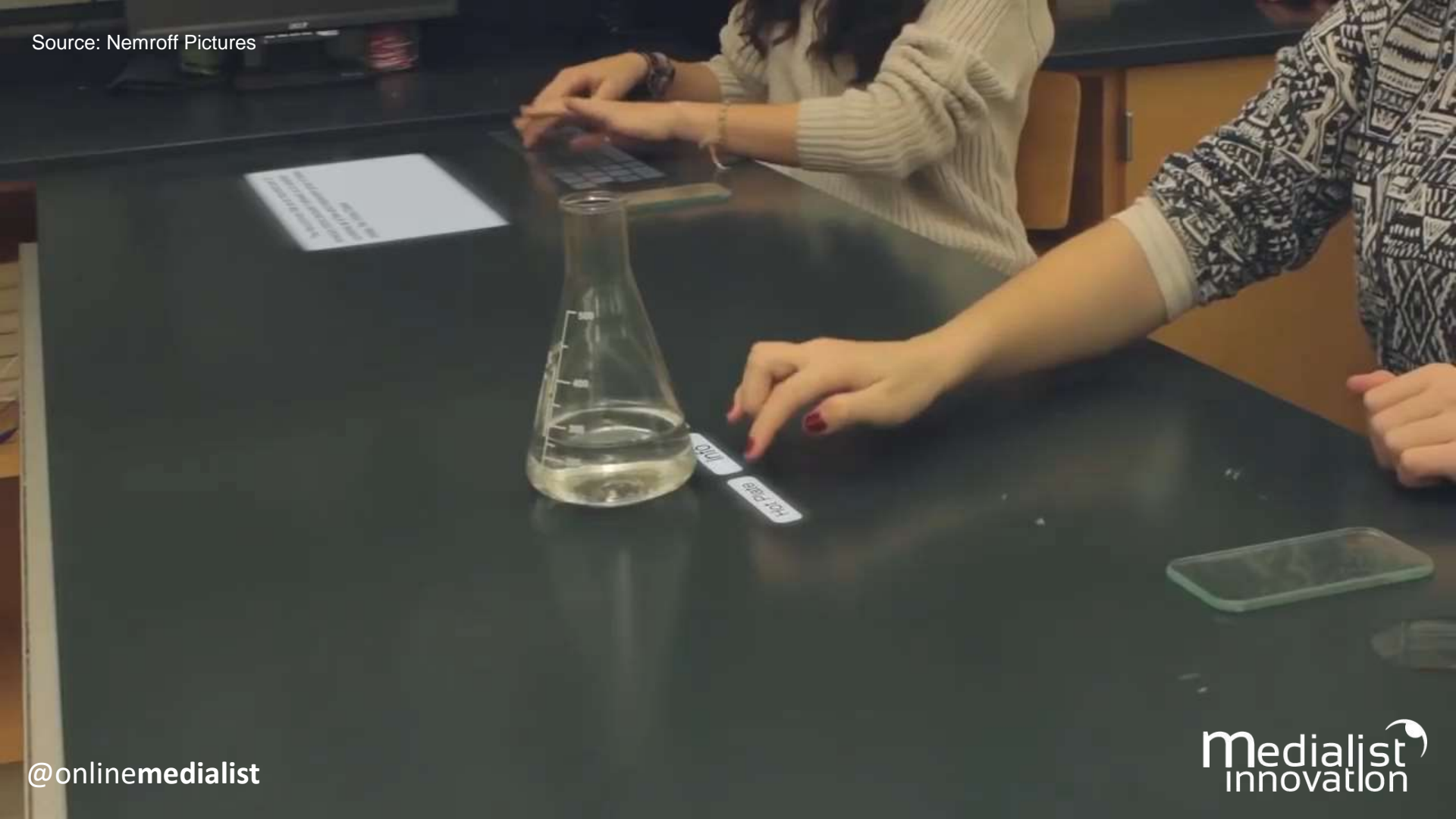
Sourcer: Microsoft - Future Vision 2020

A futuristic tablet interface is shown, displaying a calendar, social studies content, and a class schedule. The interface is divided into several sections: 'SHANNON'S STUFF' on the left, 'ART' at the top, 'SOCIAL STUDIES' in the center, and 'SHANNON'S CLASS SCHEDULE' on the right. A hand is interacting with the screen, pointing at the 'SOCIAL STUDIES' section. The background is a blurred image of a person's face.

# Technologies increasingly determine our everyday life!

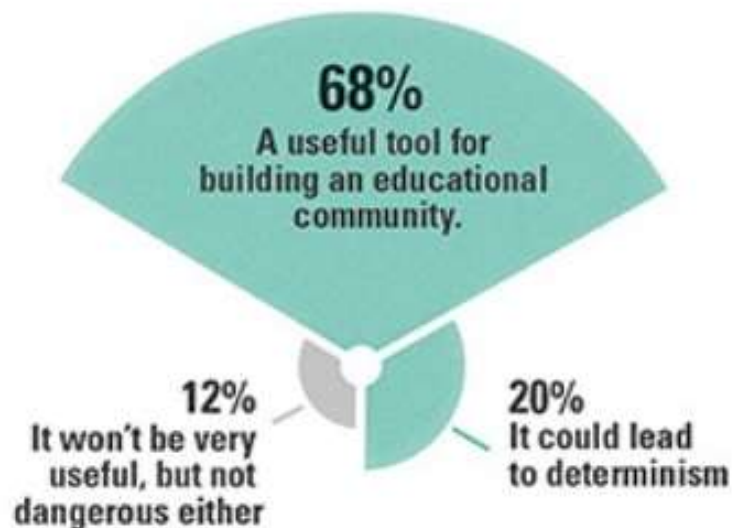
A young man with brown hair, wearing a white t-shirt and a green and blue plaid shirt, stands in a doorway. The background is a dimly lit room with a large globe on the wall. The text "But they will also revolutionize learning!" is overlaid in white, bold, sans-serif font.

**But they will also revolutionize  
learning!**



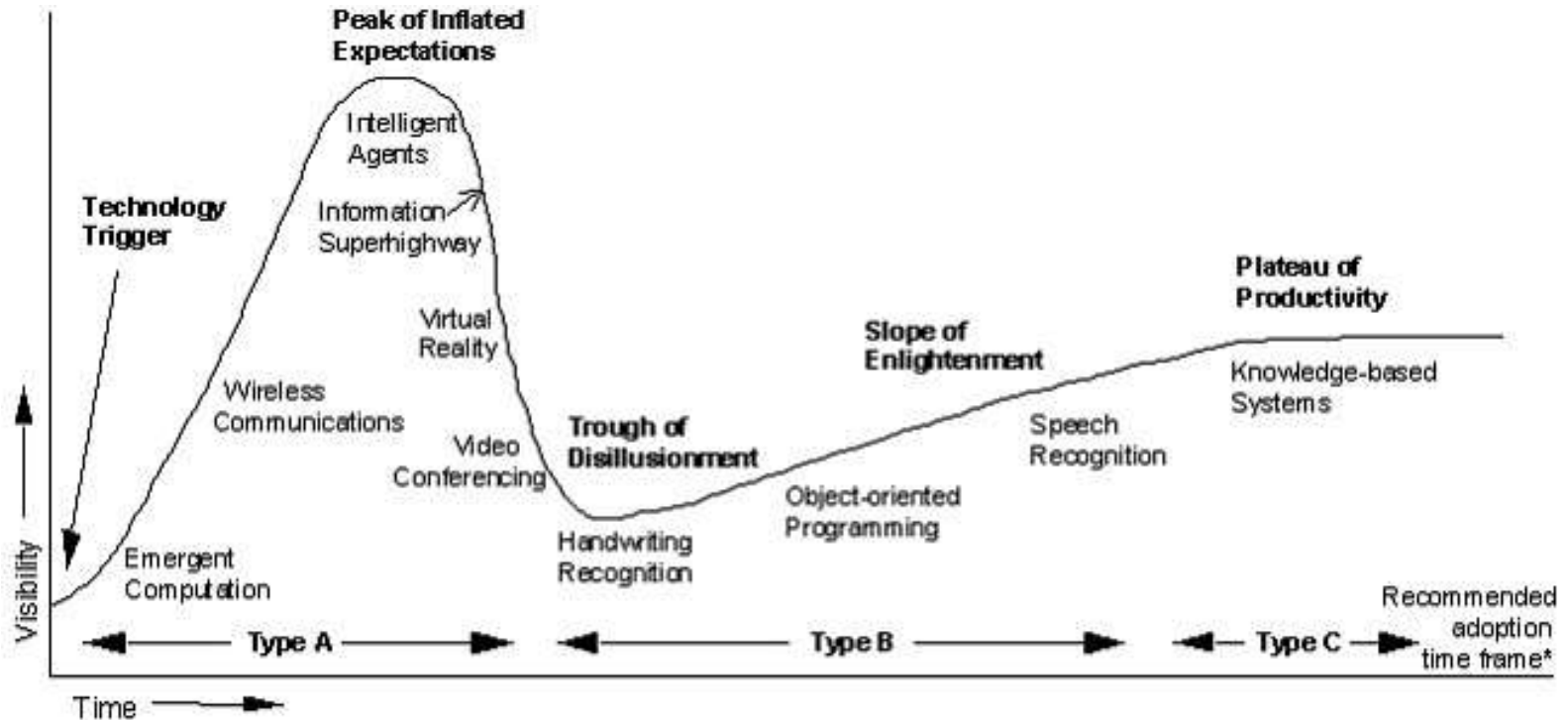
## WHAT ROLE FOR BIG DATA?

88% of experts agree that Big Data will play a role in education.

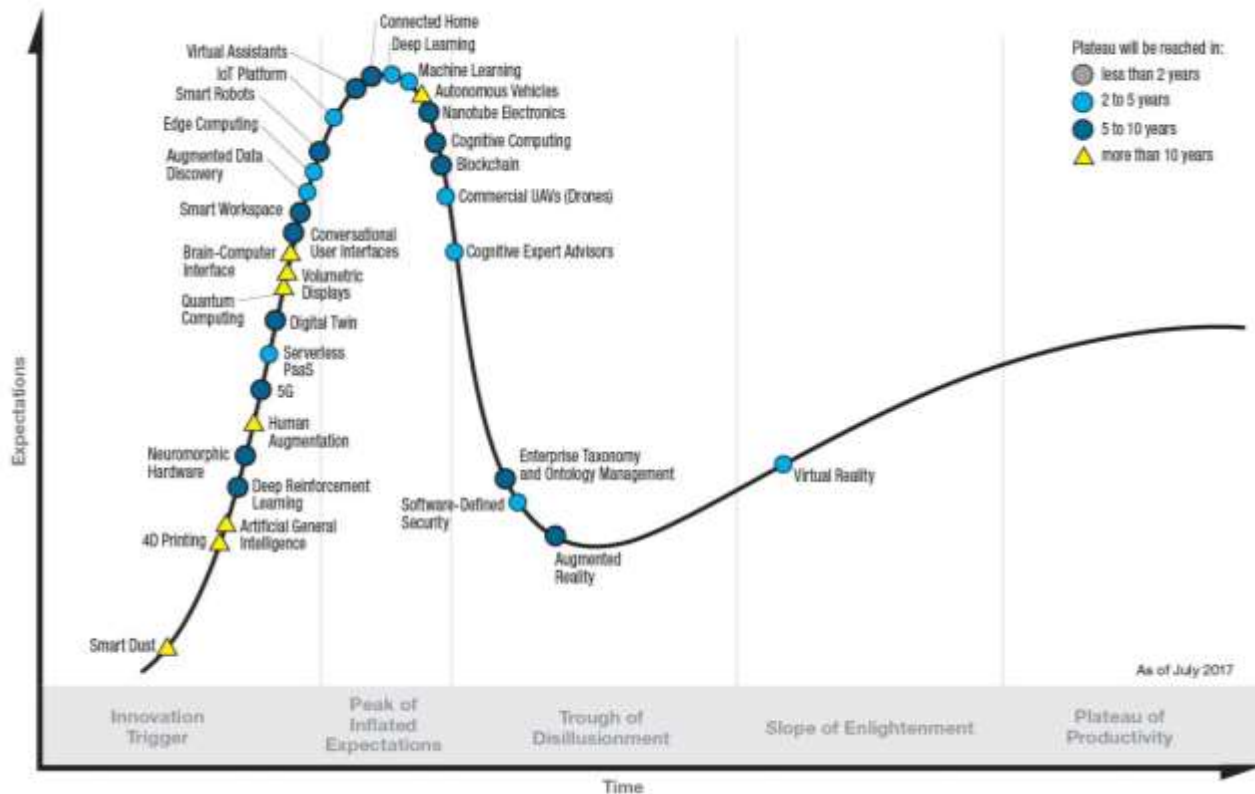




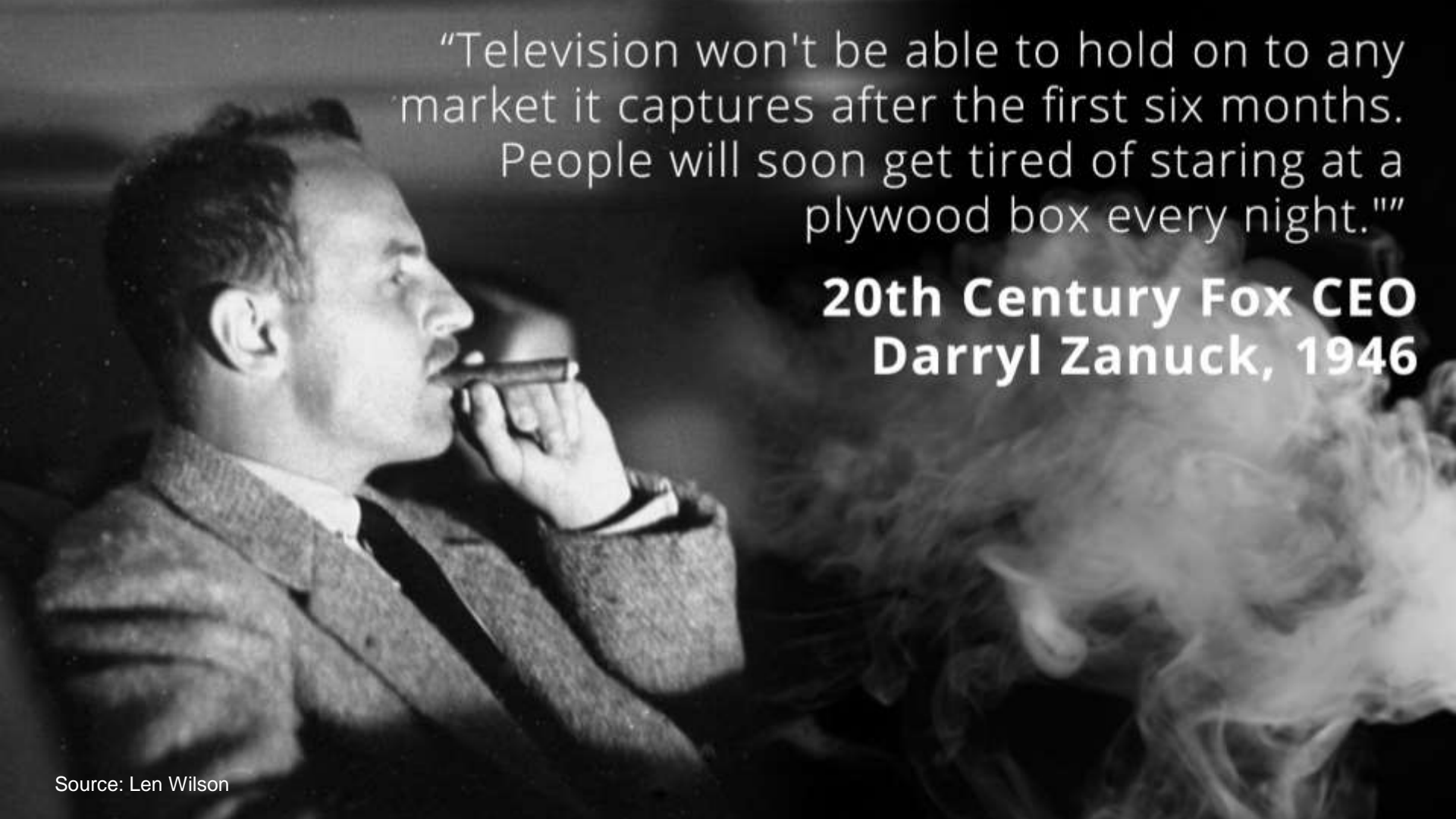
# Gartner Hype Cycle



# Gartner Hype Cycle



**Learn from history - be open for  
innovations and novelties!**

A black and white photograph of Darryl Zanuck, the CEO of 20th Century Fox, in profile. He is wearing a dark suit and tie, and is smoking a cigar. A large plume of smoke is visible on the right side of the image. The background is dark and out of focus.

"Television won't be able to hold on to any market it captures after the first six months. People will soon get tired of staring at a plywood box every night."

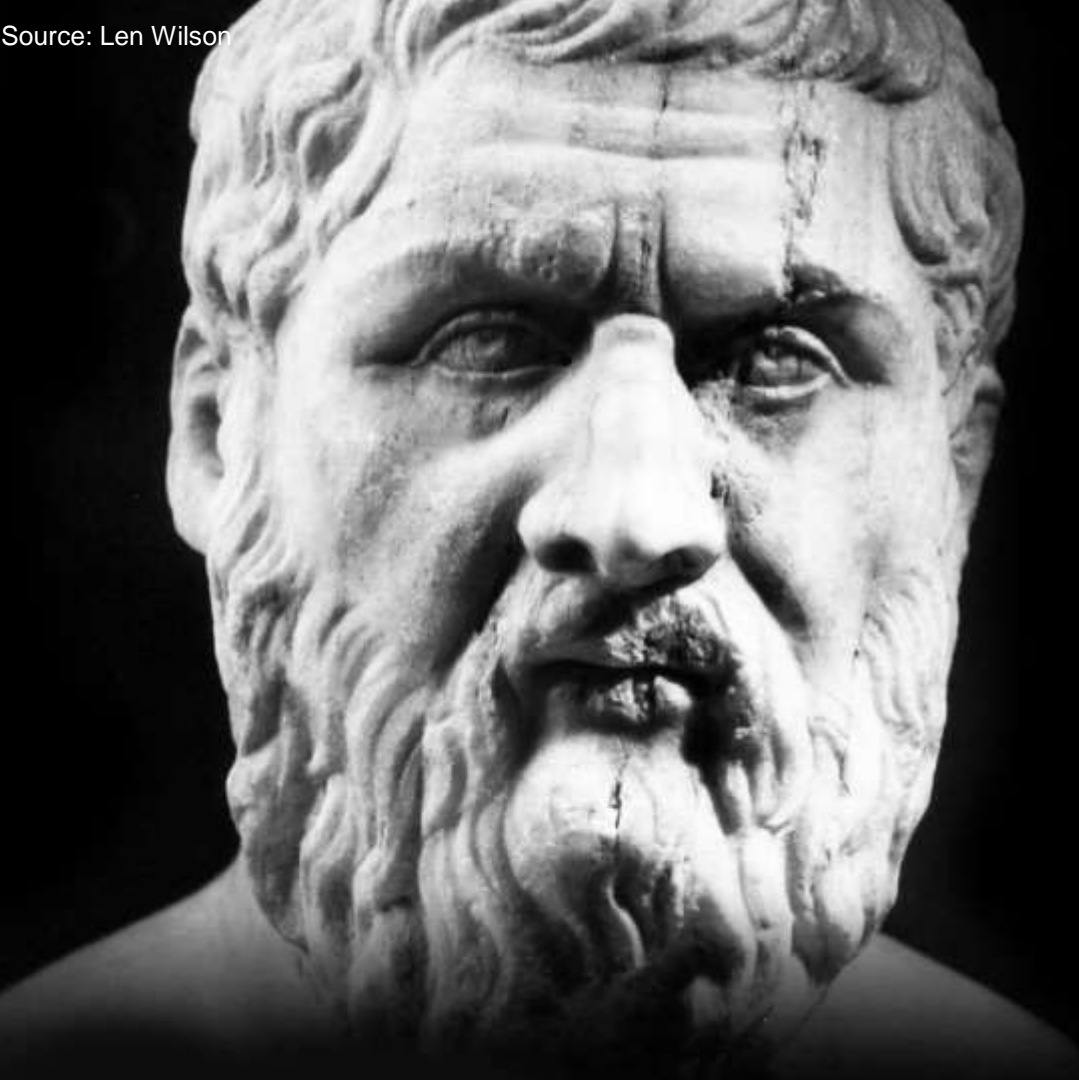
**20th Century Fox CEO  
Darryl Zanuck, 1946**





"The horrible  
mass of books  
that keeps growing  
might lead to a fall  
back into barbarism."

**Gottfried Wilhelm, 1680**



"Writing is a step  
backward for truth."

**Plato, c. 370 BC**



The future belongs to the  
mavericks!





**It belongs to the creative!**



**Have the courage to try  
something new!**

# RELEVANTE TREND BEWEGUNGEN



**Augmented  
Reality**



**Textbook  
4.0**



**Virtual  
Reality**



**Gamification**



**Robots  
& AI**

# AUGMENTED REALITY





Source: AP Photo/ Marcio Jose Sanchez



Source: Microsoft



**OUR WORLD BECOMES  
MORE IMMERSIVE**



Source: Lemon&Orange



**OUR MARKETING BECOMES  
MORE FASCINATING**

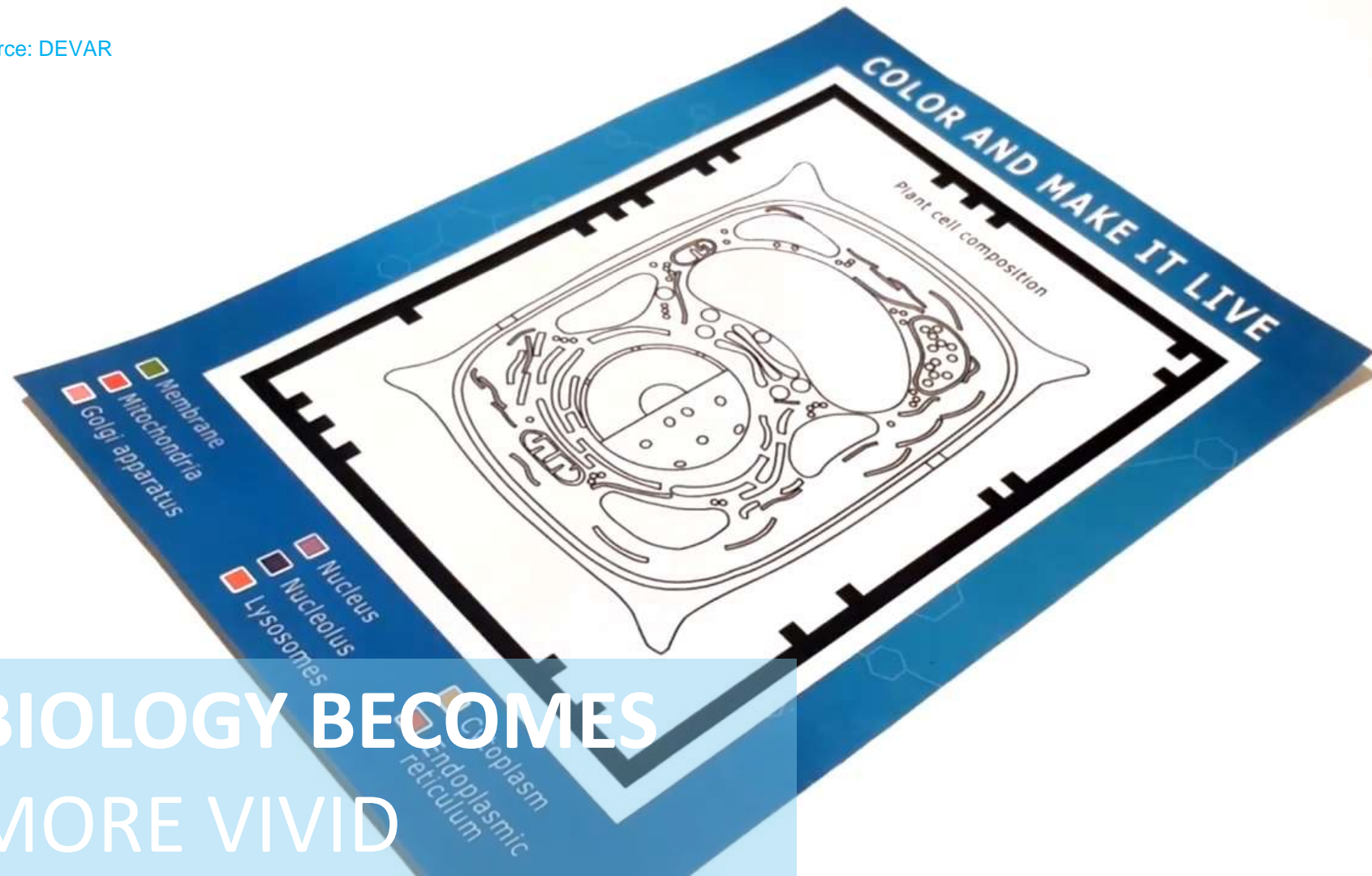


Source: Google

**LANGUAGE BARRIERS  
WILL BE DISSOLVED**

Google





Source: MagicLeap

**AND WE'RE JUST  
AT THE BEGINNING**



A person's hands are shown holding an open textbook. The desk is covered with a patterned cloth featuring autumn leaves. In the background, there is a metal pen holder filled with pens and a small bowl. The text "TEXTBOOK OF THE FUTURE" is overlaid in large, white, bold letters.

# TEXTBOOK OF THE FUTURE

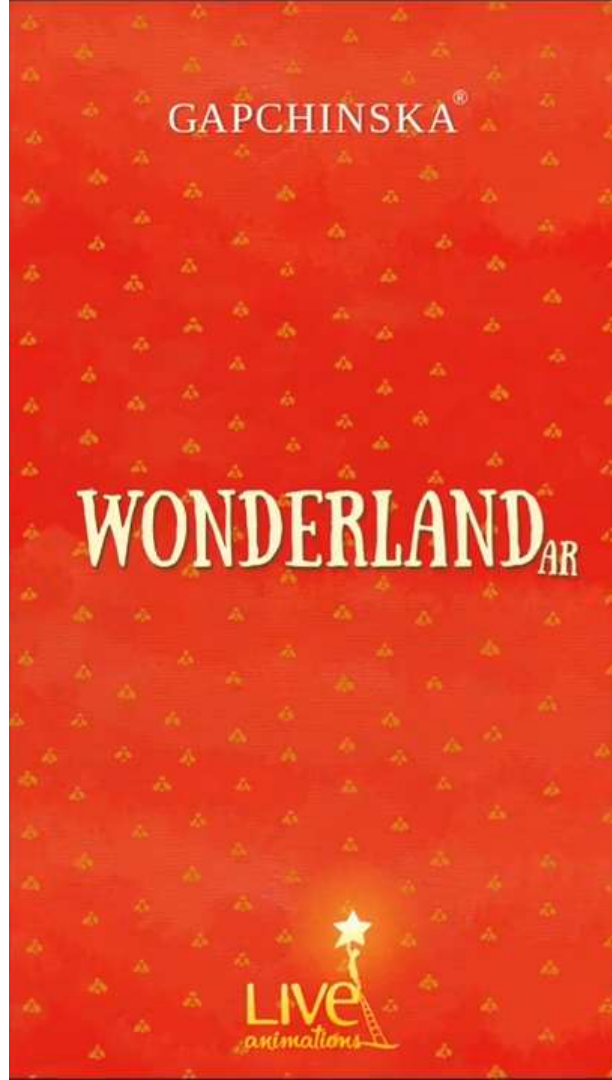




TEXTBOOKS  
TO GRASP



Source: Wonderland AR

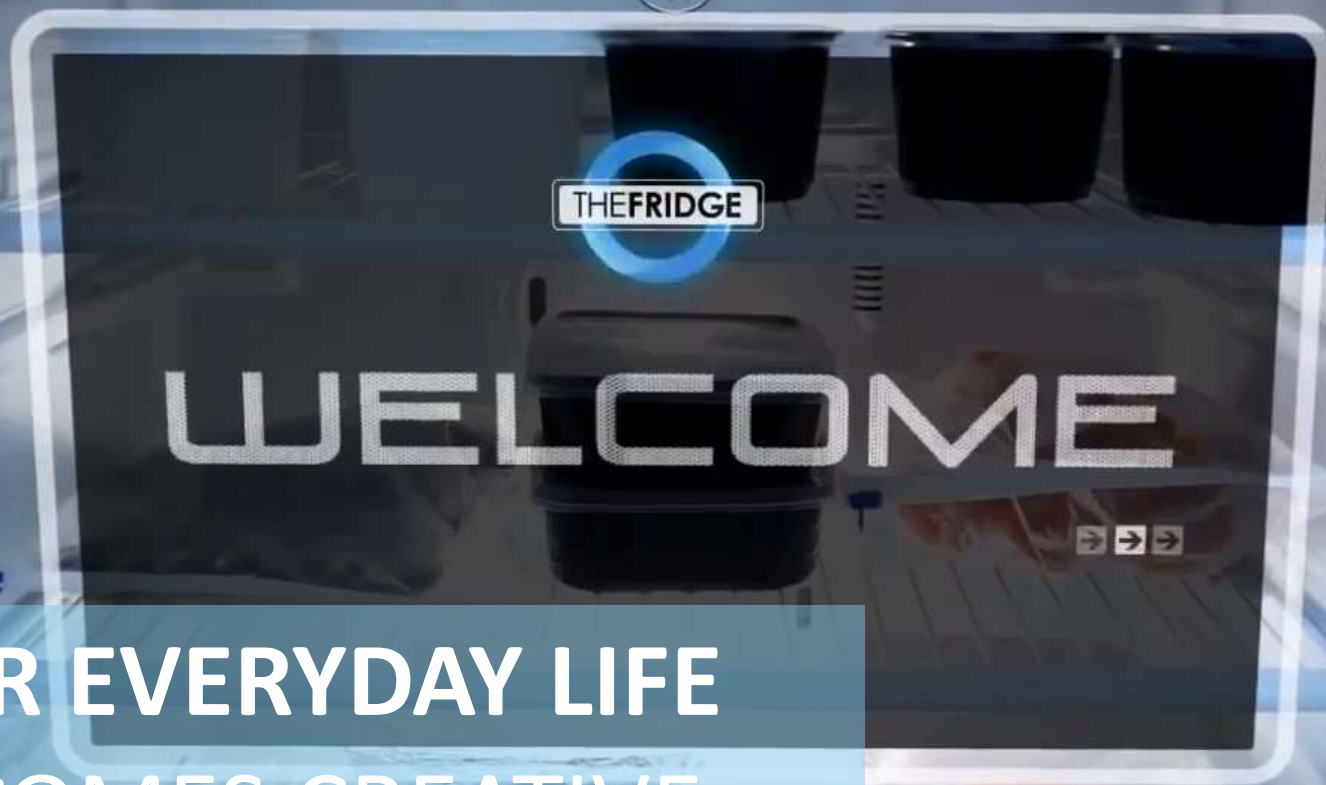


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**Action tip:**  
Use Augmented Reality to  
give your students a deeper  
insight into the subject!

Source: Robot Genius Films "Sight"



**OUR EVERYDAY LIFE  
BECOMES CREATIVE**



Source: Keiichi Matsuda „Hyper Reality”



OUR EVERYDAY LIFE BECOMES  
MORE CONFUSING





# VIRTUAL REALITY

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Source: David Rousset

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Source: Valve's „The Lab“



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A large crowd of people is gathered at what appears to be a tech conference or VR event. In the foreground, Mark Zuckerberg is walking towards the camera, wearing a grey t-shirt and blue jeans. Behind him, many people are wearing VR headsets, some sitting and some standing. The scene is dimly lit, with some ambient light from the event space. The text "VR WILL BE" is overlaid in large white letters on the left side of the image.

**VR  
WILL BE**

**A \$22.4  
BILLION MARKET  
BY 2020**



# VR - INDUSTRIEN



**Travel**



**Gaming**



**Film**



**Construction**

Source: Launch Event AUDI Q7 in Moskau



**MOSCOW  
2015**

**PRESENTATION OF  
PRODUCTS**

Source: A101



# BIOLOGY FROM ANOTHER PERSPECTIVE

Source: Curiscope



# EXPLORATION OF ANOTHER WORLD



Source: Google

A young boy with dark hair, wearing a green t-shirt with thin white horizontal stripes, is seen from the side. He is standing in a doorway, looking out into a brightly lit hallway. He is holding a book flat against his forehead with his right hand. The doorway is framed by white trim. In the background, a blue poster is visible on the wall of the hallway.

# SCHOOL TRIPS FROM THE CLASSROOM

**Action tip:**  
Use Virtual Reality to  
make your teaching  
tangible!



**BUT PREPARE  
YOUR STUDENTS!**

vid.me/gTul

Edit by RedEdgeFrost  
Non-commercial compilation. Don't support monetized re-uploads.



**BEWARE OF THE  
UNKNOWN**



Source: Remco VRRoom – Ronnie O'Sullivan




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# GAMIFICATION

Source: Bottle Bank Arcade



BOTTLE

PLAYFUL LEARNING  
FOR EVERYONE

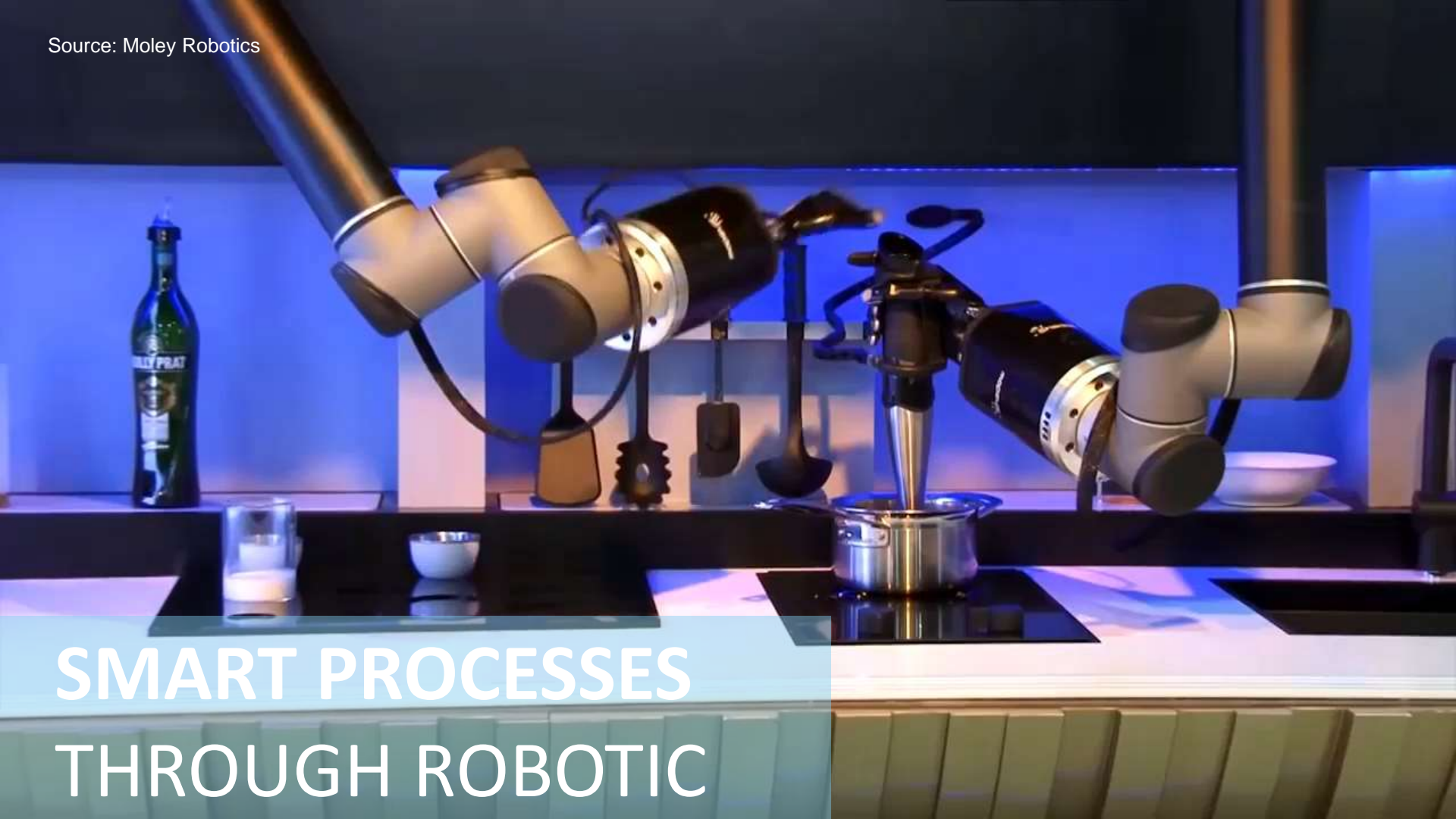
# ROBOTS & AI

A humanoid robot, Pepper, is shown in the background, holding a tablet. The robot is white with a friendly face and is standing against a dark blue background.





Source: Moley Robotics



SMART PROCESSES  
THROUGH ROBOTIC

Source: Amazon



# ASSISTANTS IN THE LIVING ROOM



BUSINESS DAY

## Amazon Knows Why Alexa Was Laughing at Its Customers

By NIRAJ CHOKSHI MARCH 5, 2018



**taylor wade**  
@taylorkatelynne



so my mom & I are just sitting in the living room, neither of us said a word & our Alexa lit up and laughed for no reason. she didn't even say anything, just laughed.

we unplugged her.

8:11 PM - Mar 5, 2018



6,364



1,260 people are talking about this



**CaptHandlebar**  
@CaptHandlebar



So Alexa decided to laugh randomly while I was in the kitchen. Freaked @SnootyJuicer and I out. I thought a kid was laughing behind me.

1:53 AM - Feb 23, 2018



15.8K



6,659 people are talking about this





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# Chatbots

## Definition

The chatbot is essentially nothing more than a classic chat. But not from person to person, as one already uses chat systems in service today, but from machine to person. A revolution in service and customer approach. With the further development of machine learning and artificial intelligence in the coming months and years, chatbots will become more and more real and the offer will become more extensive and attractive for companies.

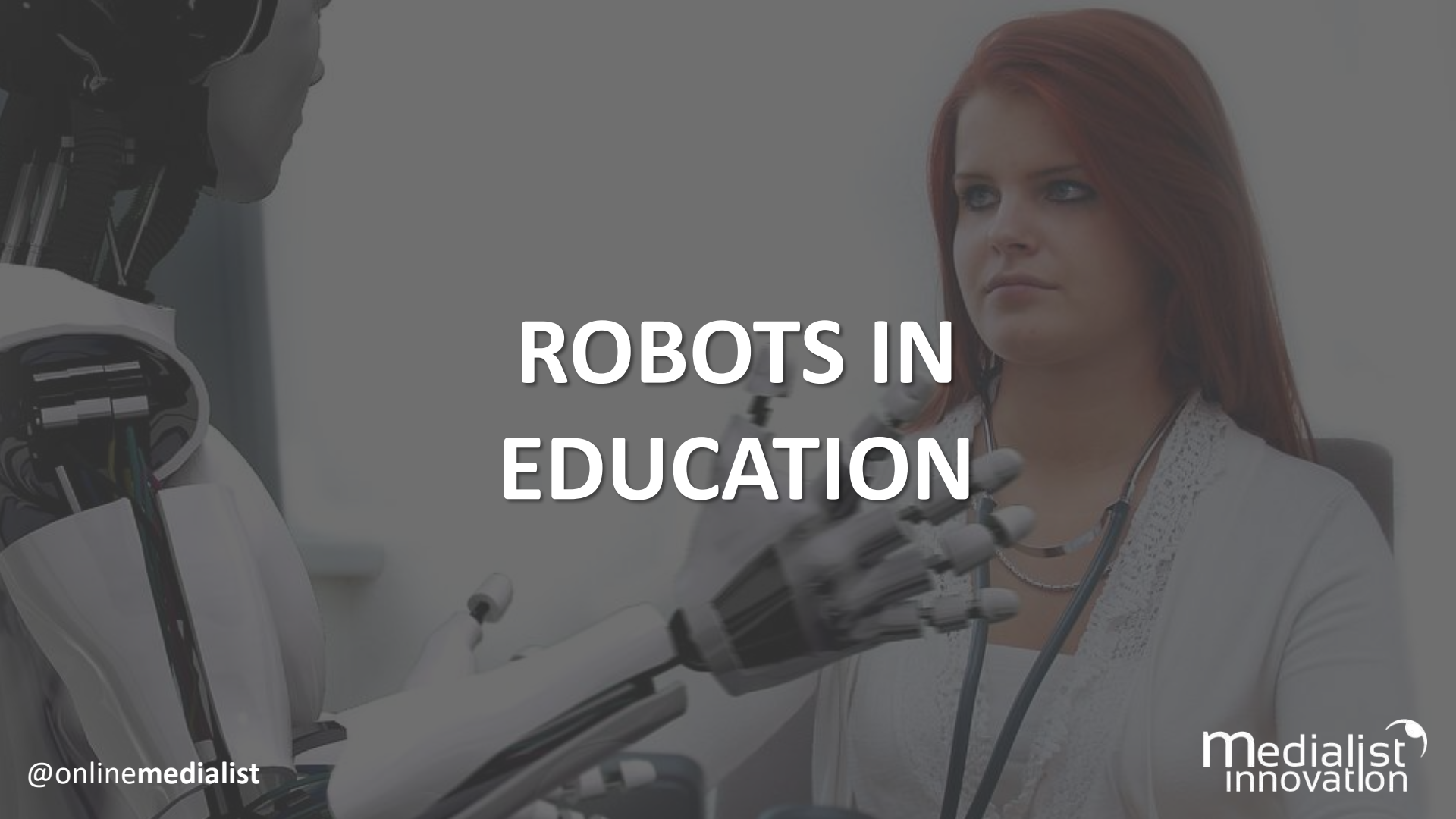
## Features

The chatbot is essentially nothing more than a classic chat. But not from person to person, as one already uses chat systems in service today, but from machine to person.

**Welcome & congratulate  
each student personally.**

**CHATBOTS  
FOR YOUR STUDENTS**





# ROBOTS IN EDUCATION

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Source: IMDA Singapore

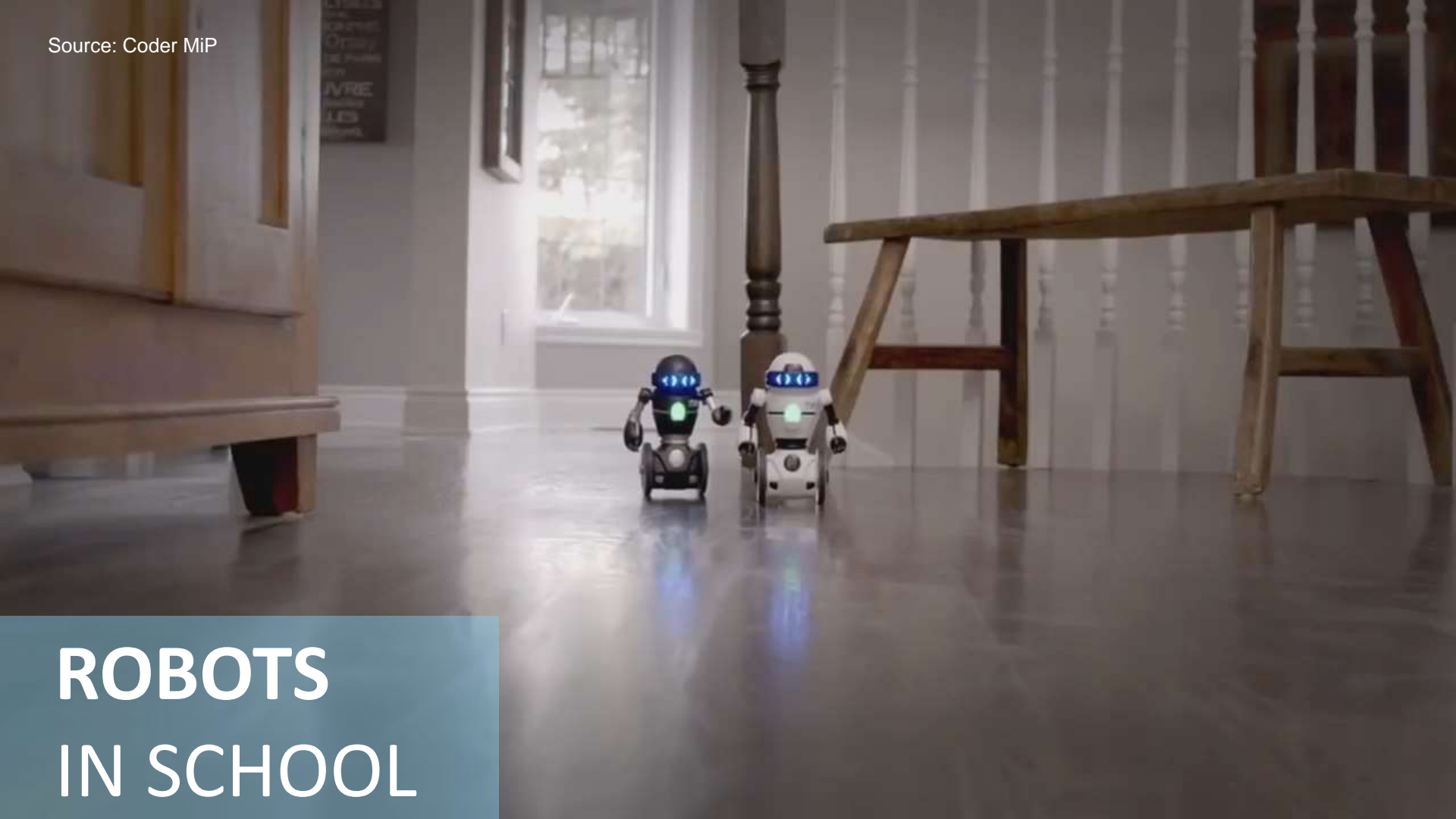


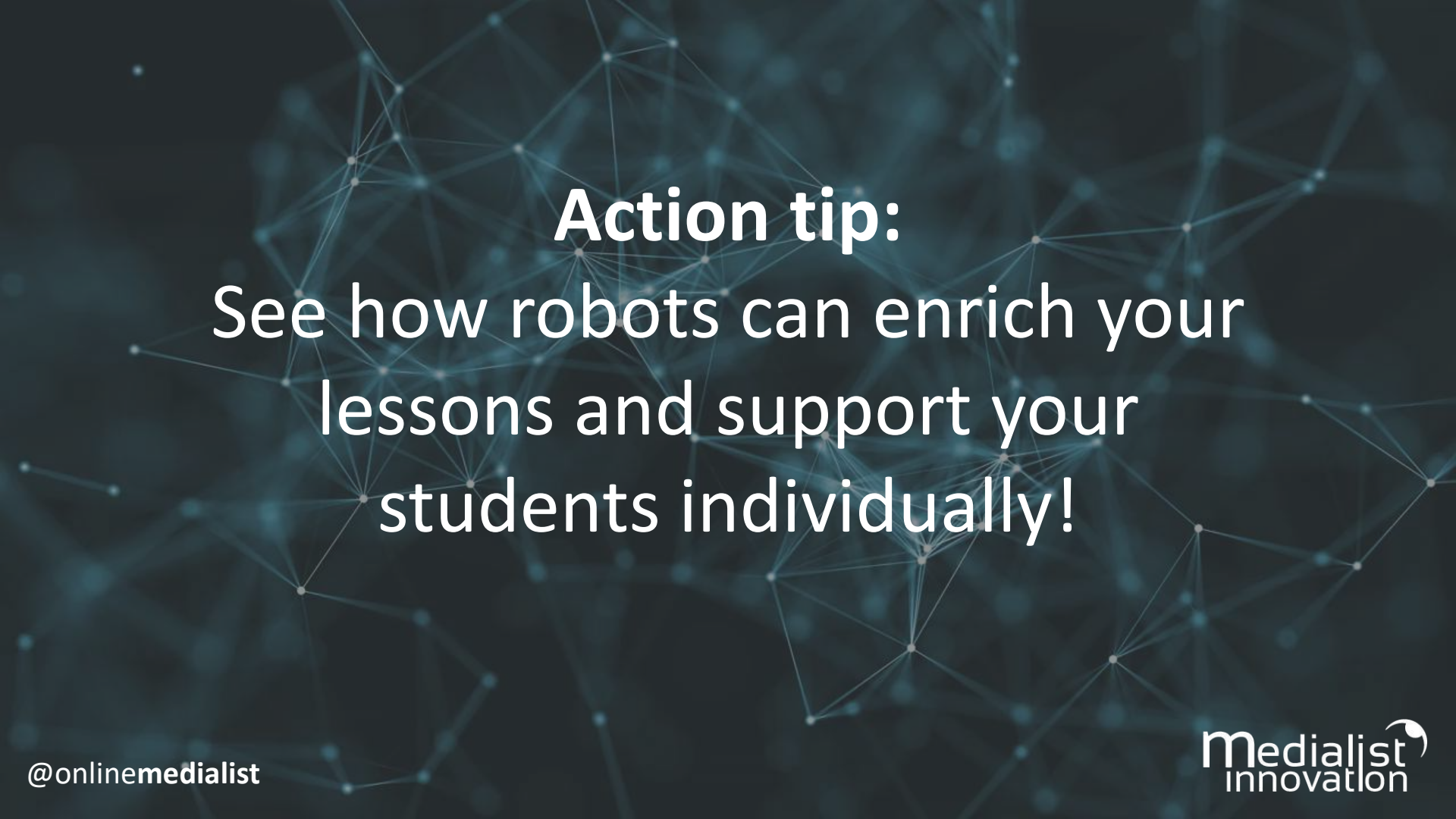
# ROBOTS IN SCHOOL

and also social skills so generally speaking,

Source: Coder MiP

# ROBOTS IN SCHOOL





**Action tip:**  
See how robots can enrich your  
lessons and support your  
students individually!



Source: Boston Dynamics



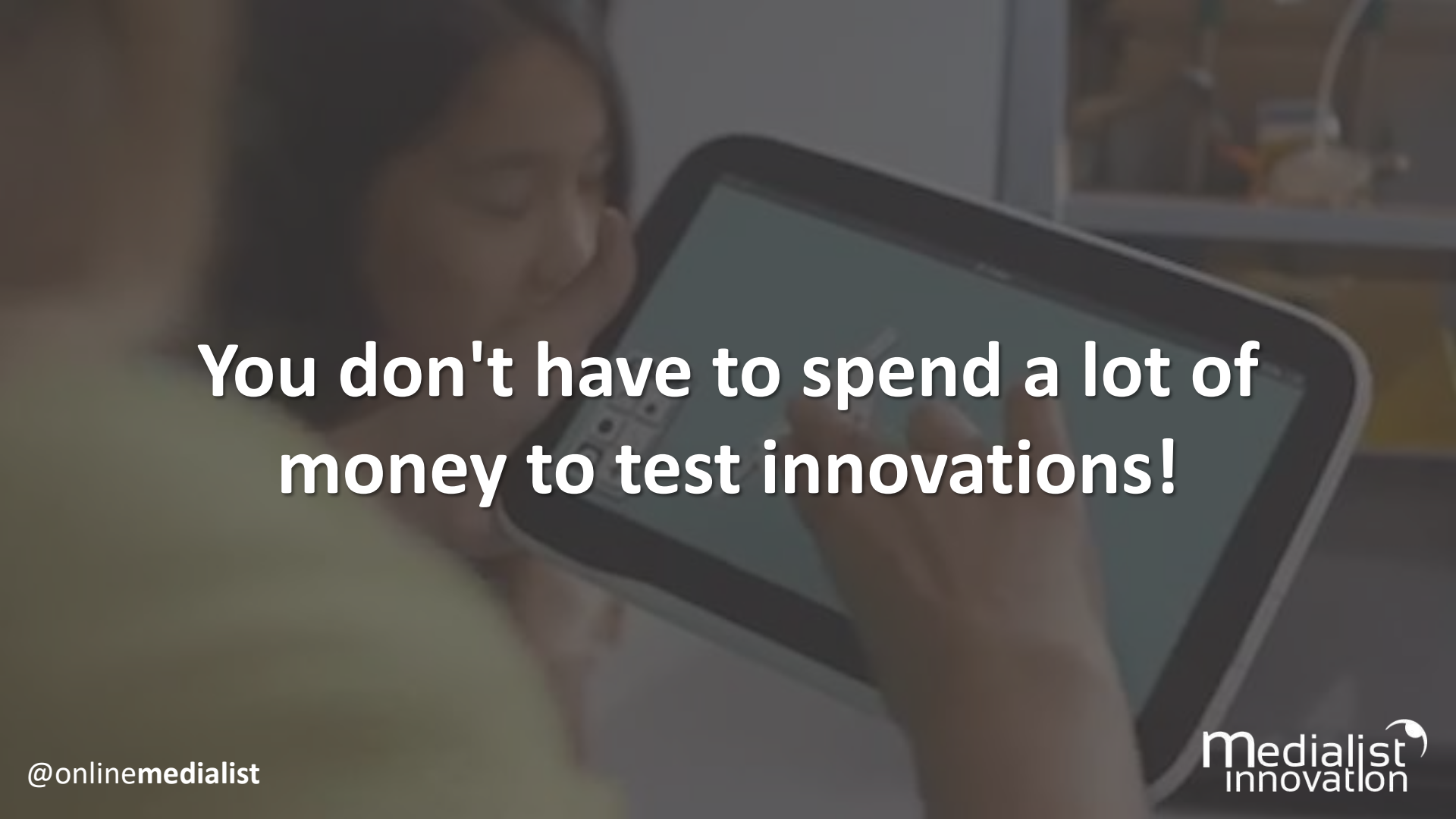
IT STILL TAKES A WHILE UNTIL  
JOBS ARE IN DANGER...

Boston Dynamics

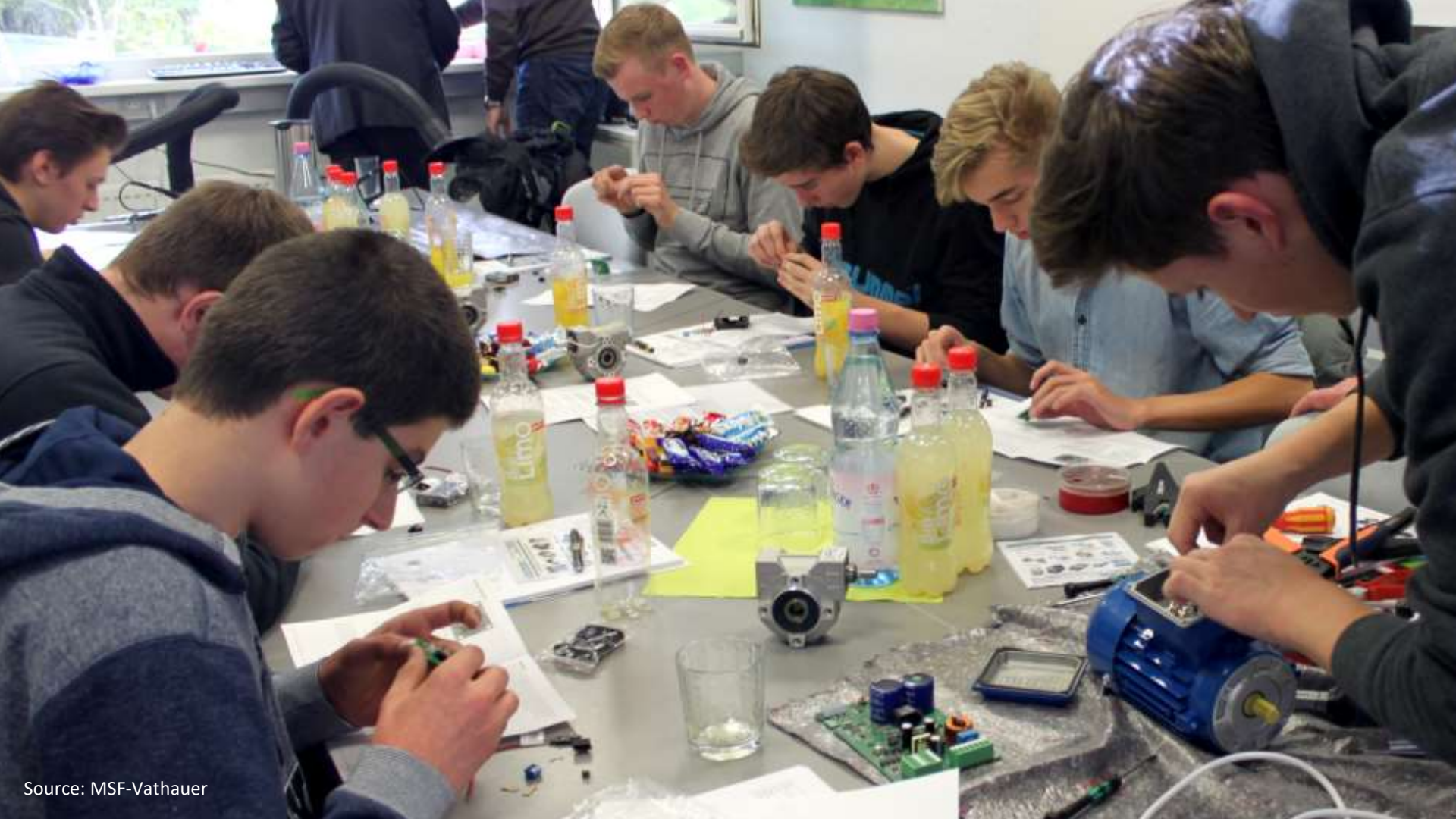


# DIFFERENTIATE BETWEEN

# TREND & TRENDY

A person is holding a tablet, looking at the screen. The background is blurred, showing what appears to be a laboratory or office setting with equipment. The text is overlaid in the center of the image.


**You don't have to spend a lot of  
money to test innovations!**












**And above all, never forget the  
human touch!**

# SEARCH FOR CLUES



**Find the right use of technology in  
the classroom to help your  
students progress!**

## WHAT TYPE OF SKILLS?

Personal skills will be highly-valued  
in 2030.







**The demands on teaching have  
changed!**

A grayscale background image showing two hands, one from the left and one from the right, each holding a puzzle piece. The puzzle pieces are interlocking, symbolizing collaboration. The text is overlaid on this image.

# Cross-Institution & Cross-Sector Collaboration



# Open Educational Resources


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**Today, individual and self-organized learning dominates our everyday life!**





The background image shows a person's hands holding a smartphone horizontally. The phone's screen displays a modern city skyline with several tall skyscrapers. The person is standing in a lush green field with a small stream in the foreground. In the background, there is a rustic wooden building with a large wheel, possibly a watermill, and a dense forest of tall trees. The overall scene suggests a contrast between nature and urban development.

**Look at your subjects from a  
completely new perspective, put  
yourself in people's shoes and then  
become creative!**



**Address the individual needs of your  
students!**





**Search for  
useful  
additions!**



**Question  
possible  
methods**



**See where you  
can add new  
ideas**



**Create  
Added Value &  
Longevity**



Think of tomorrow's  
Become disruptive!  
world of work!



**Be ready for the digital  
future!**

Source: Marvel

A man with a beard and mustache, wearing a grey button-down shirt, is looking upwards with a focused expression. He is in a dark room with a futuristic, high-tech background. The background features glowing blue molecular or atomic structures, resembling DNA helices or complex networks, with bright blue light sources at their centers. The overall atmosphere is one of scientific exploration and digital innovation.

# Be a pioneer of the digital revolution!

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# The future of education?





# Technical understanding!

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A blurred background image of a library with bookshelves. In the center, a man with a beard and a woman are smiling and looking at each other. The man is wearing a checkered shirt, and the woman is wearing a red top. The text "Human touch!" is overlaid in white.

# Human touch!





**Alexander Pinker**

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