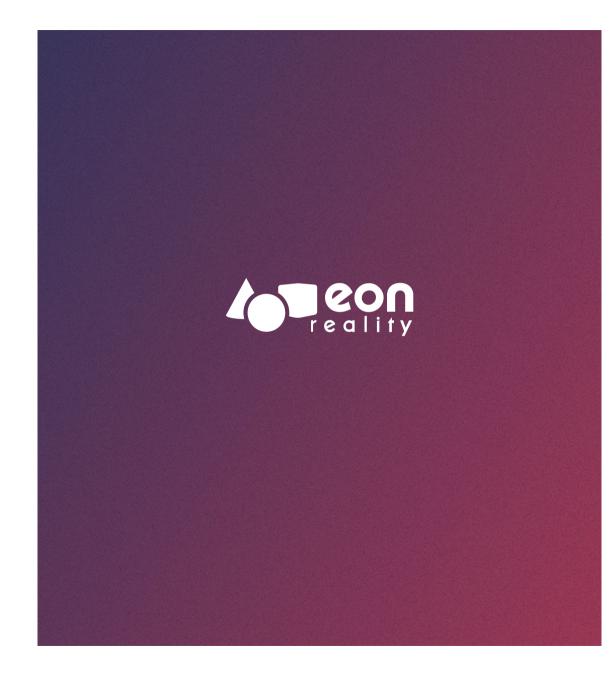
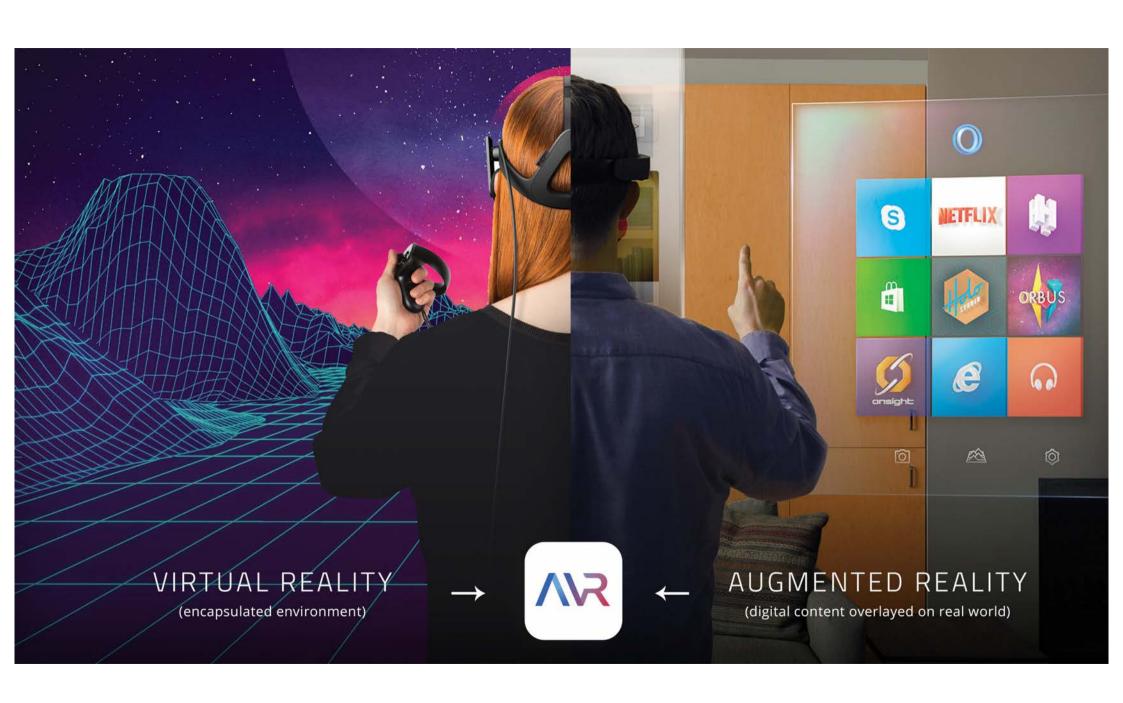


Immersive, Resilient and Relevant 21st Century Learning and Teaching

Company Highlights

- Market-leading Position: world leader in Augmented Virtual Reality (AVR) based knowledge transfer
- Proven Staged Strategy:
- **Eon Human 2.0** government solution that can uplift millions of smart student & smart workers
- Classroom 3.0 that enables academic institutions to help students Learn faster, remember longer and make better decisions and
- **Industry 4.0** that enable enterprises to upskill their workers
- Mission-driven Organization: EON Human 2.0 is bridging the gap between man and machine
- Track Record With Blue-chip Customers: including Exxon, GSK, Honeywell, GE, Mercedes, China Merchant Group, NTU, J&J, Shell and Pearson.
- Massive, Disruptive And Growing Market: AVR \$100B by 2020.
- Enterprise-class AVR SaaS Platform: Securely creates, stores, analyzes, distributes and publishes AVR agnostically fueled by AI, IoT and GIS
- Industry-leading Management Team: proven experience in Enterprise solutions, Education and ICT.
- Scalable SaaS Based Platform: compound annual growth rate of the order values is expected to grow with over 50% annually over the next 3 years





EON-XR for Education EON Reality Education Advisory Board



Education Leadership

EON Reality's solutions for Education and Training is guided by the EON Education Board, focusing on advancing the use of Augmented and Virtual Reality (AVR) education and research.

The Board and Council is chaired by Professor Bertil ANDERSSON:

- former President of Nanyang Technological University (ranked #1 in Asia in 2018)
- former Chairman of the Nobel Prize Committee for Chemistry.

Eon Reality Education Advisory Board Members



Bertil Andersson Chairman Former President of NTU



Ihron Rensburg Vice Chairman Former President of University of Johannesburg



Jenny Higham Principal of St George's University of London



Montserrat Gomendio Former Deputy Director of Former Minister of the Directorate for



Jose Ignacio Wert Education, Culture Education and Skills, OECD and Sports, Spain



Jan Carlstedt-Duke Senior Advisor -Medicine, NTU and **Emeritus Professor** Karolinska



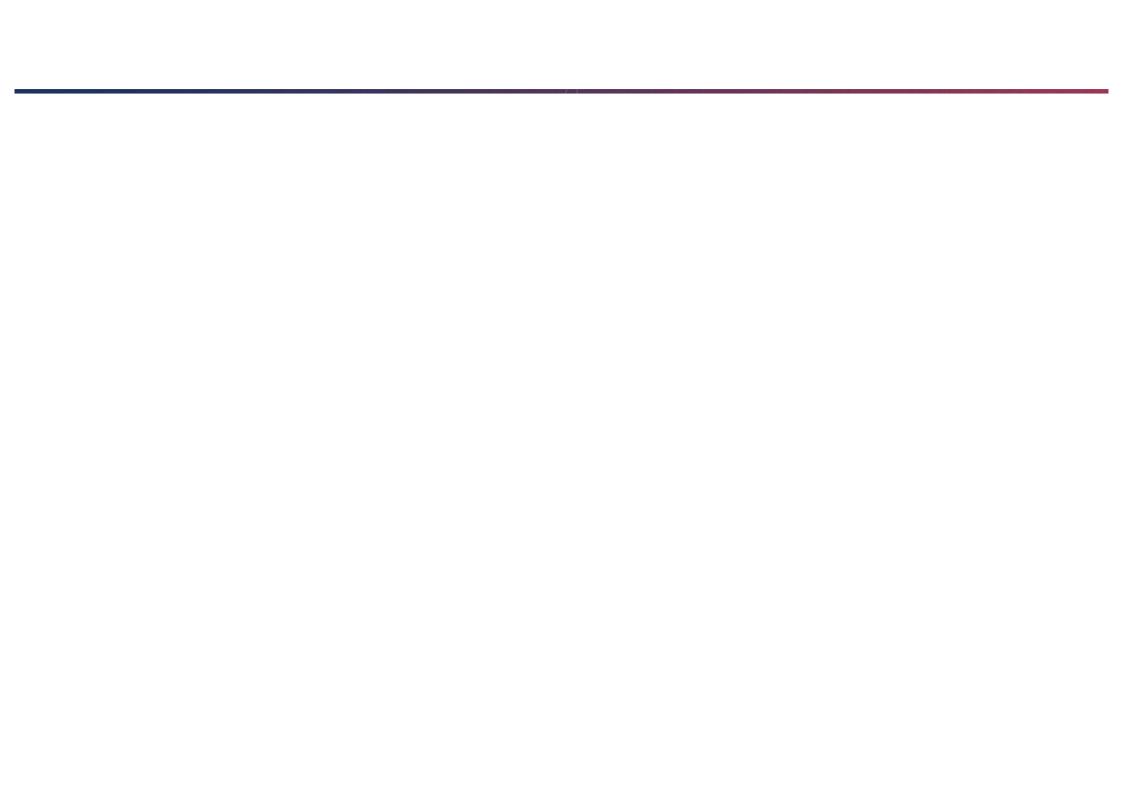
Peter Looker Former Director Teaching and Learning, NTU



José Escamilla De Los Santos Education Innovation Director, Tecnológico de Monterrey

Interactive Digital Centre Inauguration Italy, Bologna

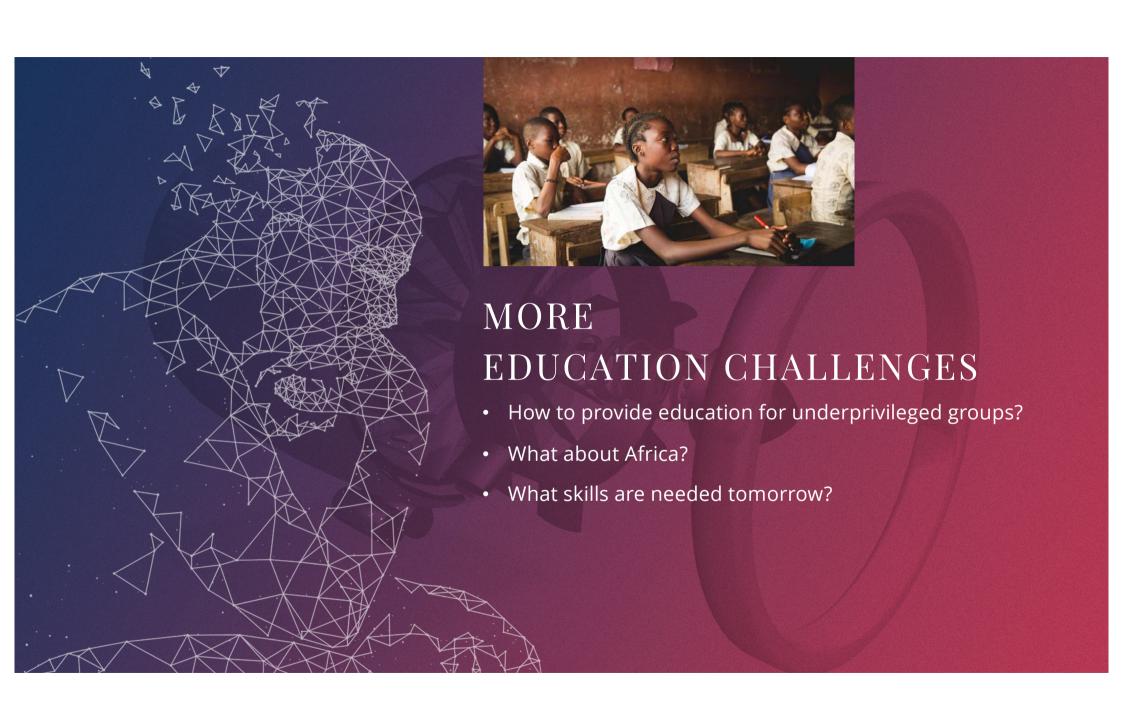
November 14, 2018



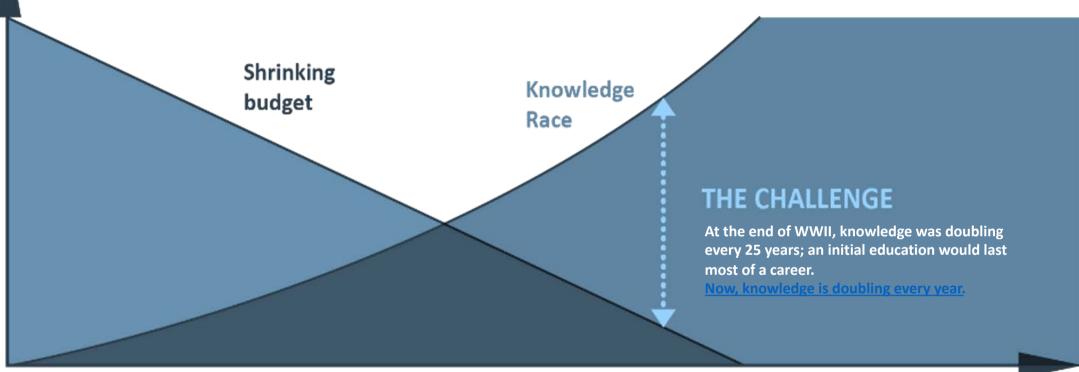








The Need for Lifelong Learning and The Quantitative Education Problem



We need to teach more with less
Less time and less money!

Global shortage of 18m teachers

India needs another 1,2m teachers

America needs 2,3m teachers

Sub-Saharan Africa needs a miracle

Need of learning solutions

Time

We have to invent new learning solutions that address the increasing gap between the accelerating knowledge raise and the shrinking education budgets <u>or we are as good as writing off this generation</u>. In short we need to teach more with less; less time and less money to address the growing educational gap..



The Pandemic showed that Universities were not prepared for tomorrow.



independent news organization focused on inequality and innovation in education. Sign up

After the Arizona State University Preparatory Academy announced on March 13 that it would shift its 11 schools to online learning because of the coronavirus crisis, teacher

for the Hechinger newsletter.

The Results Are In for Remote Learning: It

Didn't Work

The pandemic forced schools into a crash course in online education. Problems piled up quickly, 'I find it hectic



The 2020 classroom



BOOKS



E-BOOKS



BLACKBOARD INSTRUCTION



YOUTUBE VIDEOS



LECTURE MONOLOGUES



MOOCS and Zoom

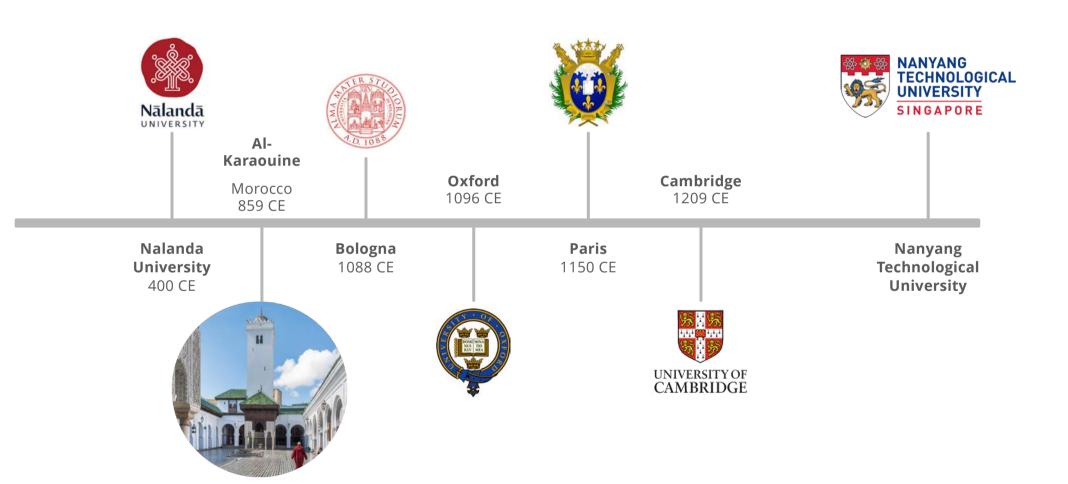
Learning Is Not A Spectator Sport

- **Teachers and trainers** have been forced to convert their **courses online**.
- Studies show that people stop paying attention to conference calls, recorded lectures, and similar videos after just 6 minutes when viewed on a screen.
- Learning is not a spectator sport. Applying concepts in practice is just as important — if not more so than learning them theoretically, and that's virtually impossible to do through basic online conferencing



With countless people (including <u>nearly 1.6 billion</u> <u>children</u>) affected by the pandemic, much of the <u>world's</u> <u>education has been disrupted</u>.

UNIVERSITIES DATE BACK AT LEAST A MILLENIUM...



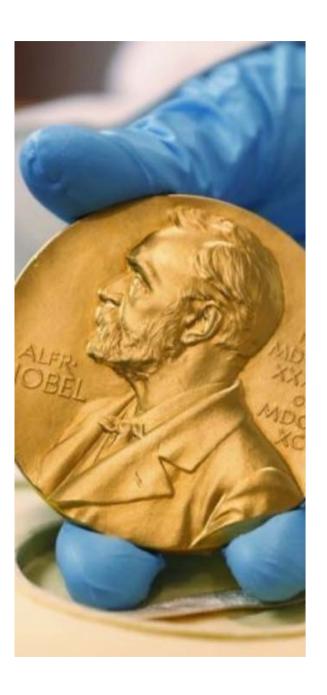


AND SO ARE THE TEACHING METHODS....

The traditional classroom method is still the norm

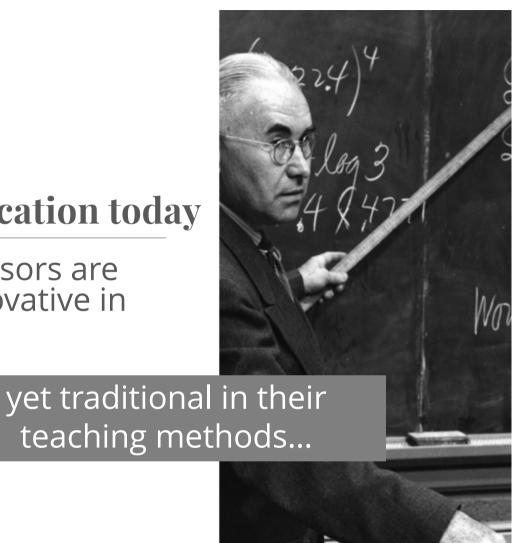
Students continue to be passive consumers of lectures with content presented in a 2D setting online or otherwise

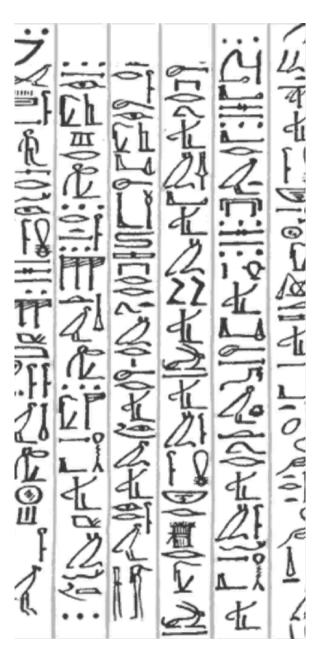




Looking at University Education today

University Professors are creative and innovative in research...





When humans invented written symbols, text and later books, it was crucial for communication and documentation of fact...

BUT

That does not mean it is perfect for education...

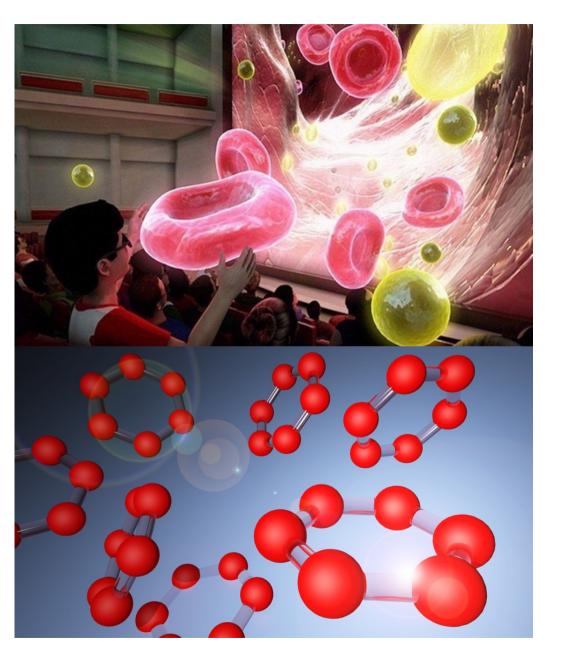
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- The real world is in 3-D
- Our eyes and brains gives us a 3-D picture of the world
- Traditional teaching is based largely on text and 2D images
- Abstract thinking required to turn that information to the real world structure/function and 3D images





3D IMAGES MAKES UNDERSTANDING EASIER

- Medicine / Human Body and its organs
- Biomolecular structures
- Chemical molecules and their interactions
- Atomic structures
- Ecological systems and the Environment
- Engineering devices and systems
- Architecture / Design
- Urban systems and dynamics

A challenge to understand these areas in 2-Dimension...

The Biggest Challenge:

The Pandemic showed that Universities were not prepared for tomorrow.

What if tomorrow doesn't end?



Experts from Harvard University's T.H. Chan School of Public Health have warned that social distancing may continue intermittently well into 2022.





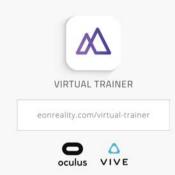
Immersive, Resilient and Relevant 21st Century Learning and Teaching

Learn

Train

Perform







CREATOR AVR

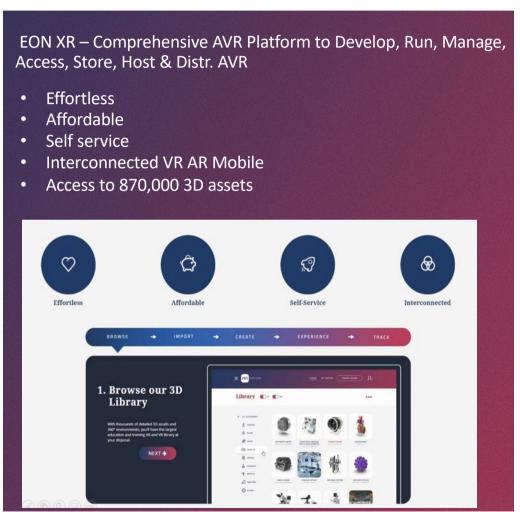
VIRTUAL TRAINER

AR ASSIST

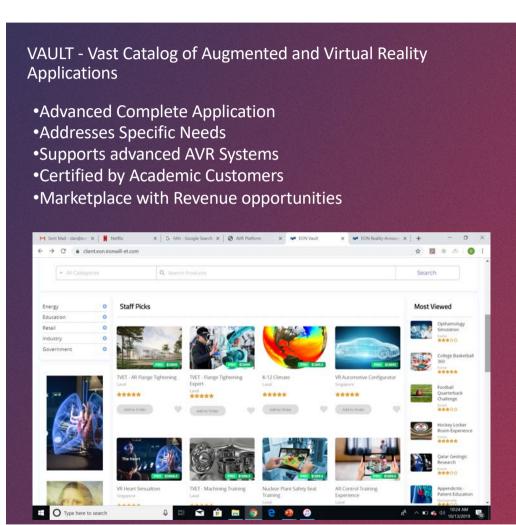
Onboarding
Familiarization
Pre-training
Sales Training

Procedure Practice Remote Training Virtual Certification AR Assisted MRO Remote Expert Assistance Real Time Data Display

End To End Solution For XR Knowledge Transfer

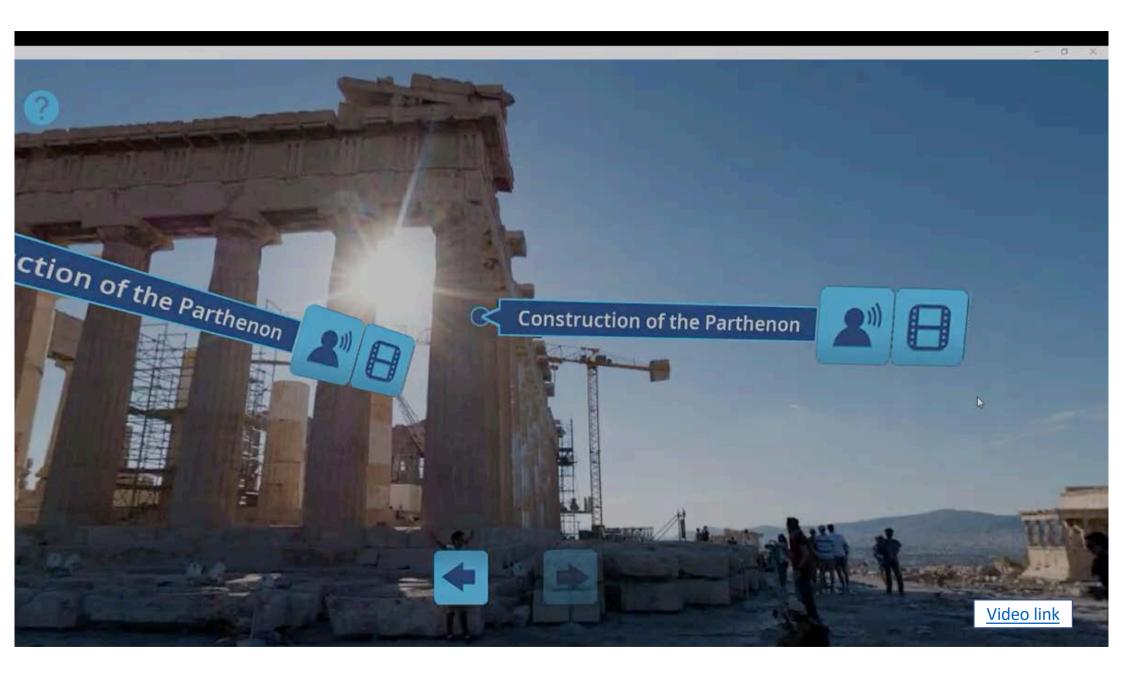


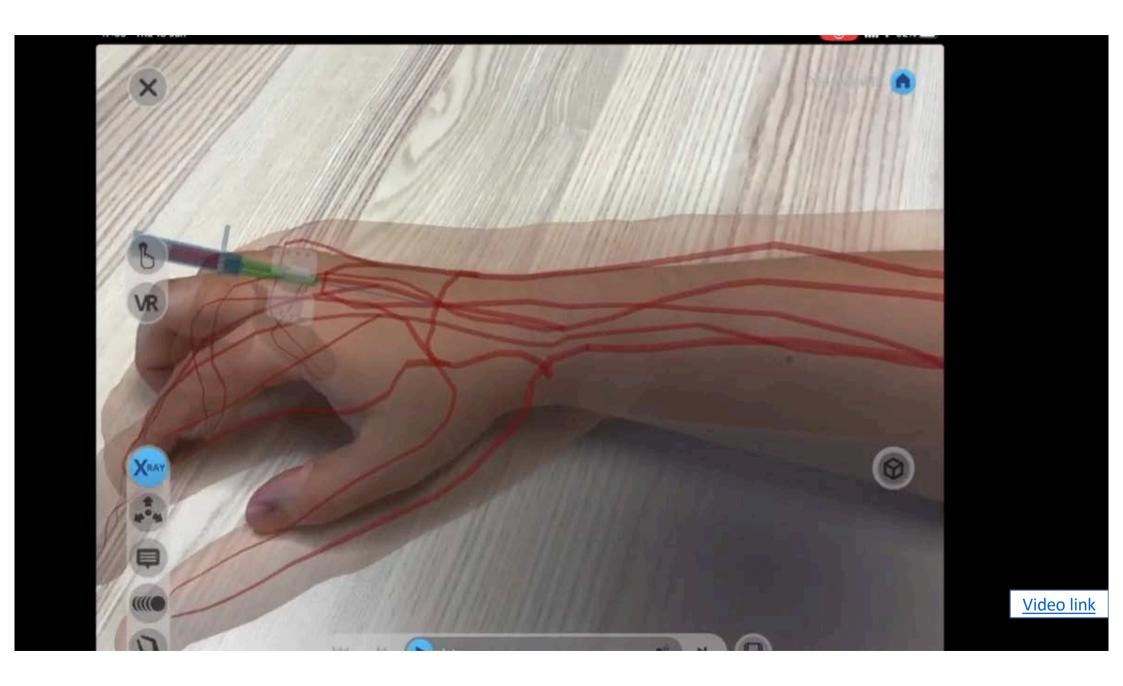
https://betaaccount.avrplatform.com/Home/IndexV2

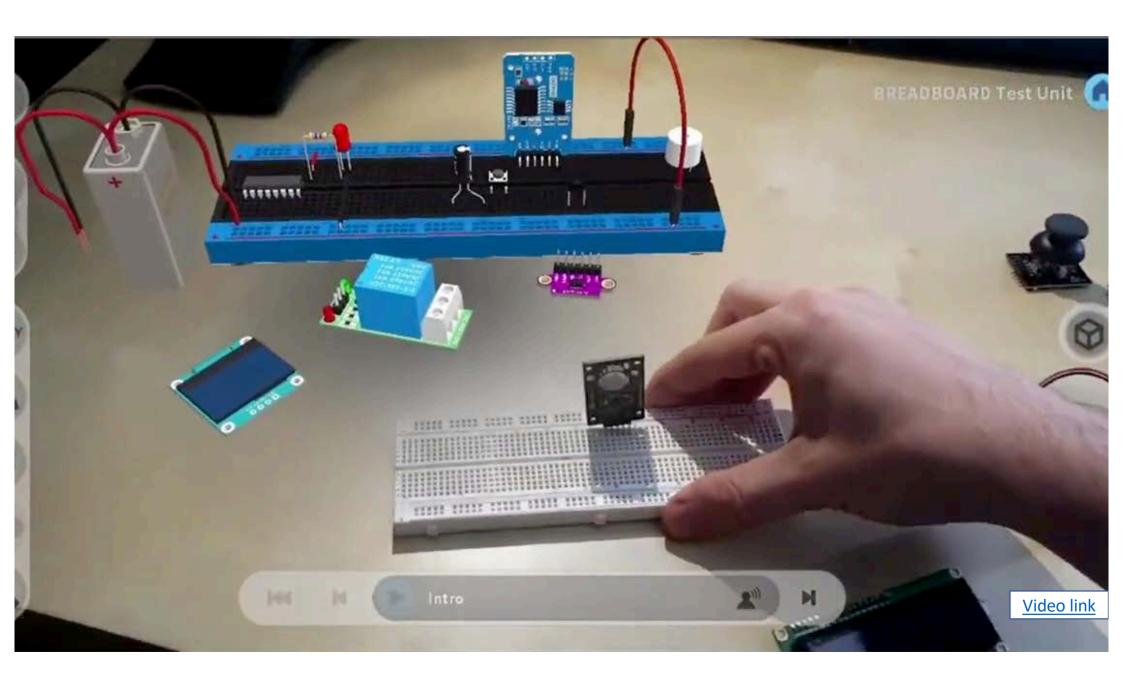


https://www.eonreality.com/press-releases/eon-reality-vault-announcment/

EON-XR for Education Immersive



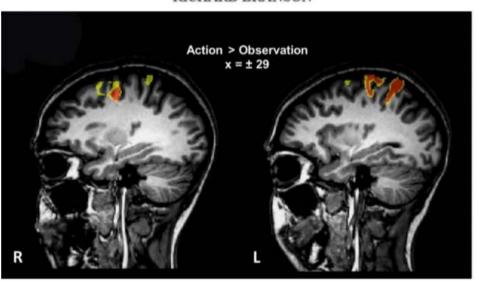




EON-XR for Education Relevant

THE BEST WAY OF LEARNING ABOUT ANYTHING IS BY DOING

RICHARD BRANSON

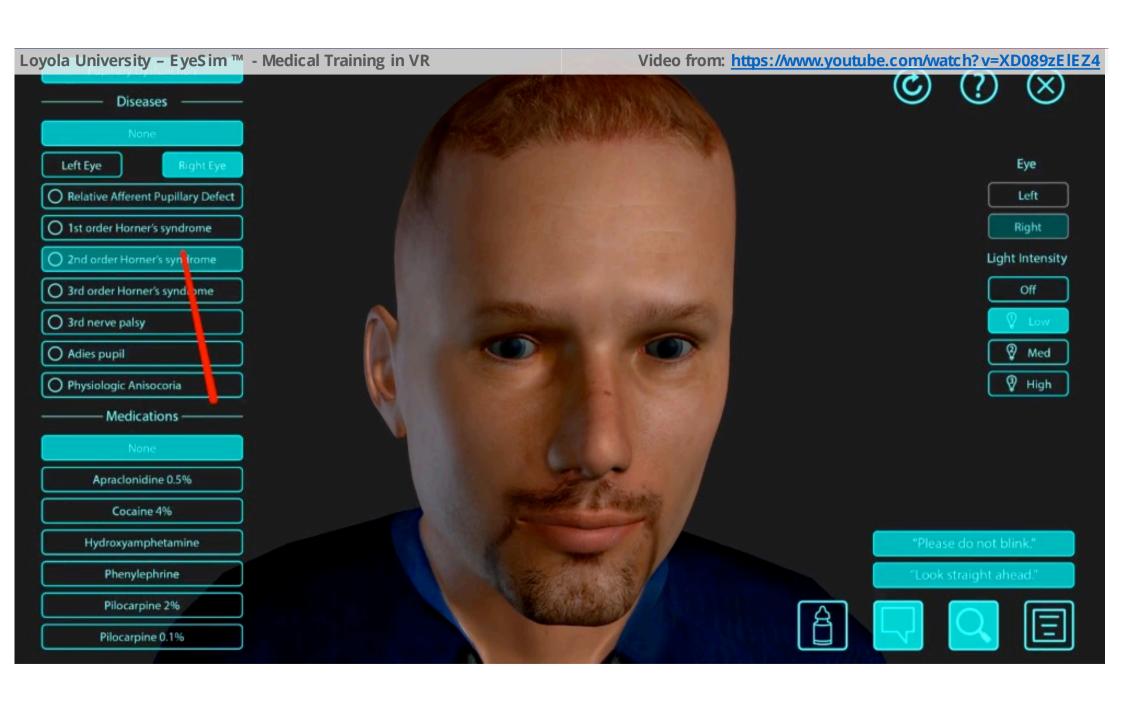


Learning by doing helps students perform better in science

Students who physically experience scientific concepts understand them more deeply and score better on science tests, according to a new UChicago-led study.

Brain scans showed that students who took a hands-on approach to learning had activation in sensory and motor-related parts of the brain when they later thought about concepts.

https://news.uchicago.edu/story/learning-doing-helpsstudents-perform-better-science





Learning pupillary examination using the Advanced Pupil Simulator among medical students and residents

Sachin Kedar^{1,2}, Jideofor K Ndulue¹, Deepta Ghate¹,

¹Stanley M. Truhlsen Eye Institute; ²Department of Neurological Sciences, University of Nebraska Medical Center, Omaha, NE, United States.

Advanced Pupil Simulator ®



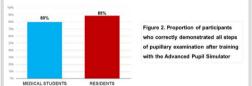
- We recently designed a virtual reality-based application, Advanced Pupil Simulator® (APS) in collaboration with EON Reality Inc. and A Nu Reality
- EyeSim APS is a virtual reality application that allows trainees to work in a simulated environment to identify and master pupillary examination
- The APS consists of a monitor (HP Zvr), 3D goggles and a stylus. The stylus replicates
 the experience of holding a handheld light used in eye exams. The goggles gives a 3dimensional representation of the image on the monitor and helps the image track the
 eye movement of the user.
- The APS has an interactive interface that simulates how medications and lighting affects
 the pupil. Eight pupillary conditions (normal, relative afferent pupillary defect (RAPD),
 Horner's, 3rd nerve palsy, Adie's pupil and physiologic anisocoria) can be simulated and
 confirmed using appropriate pharmacologic eye drops.

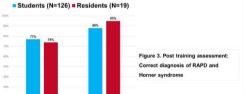
Methods

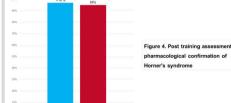
- 145 trainees (126 first-year medical students, 15 neurology and 4 ophthalmology residents) participated. All trainees reviewed an online power-point module, received a 15 minute demonstration and practiced pupillary examination in groups of 3 assigned to an expert faculty on the APS for 30 minutes.
- All trainees completed a Likert-type questionnaire (1 = not confident, 5 = very confident) before and after the session to assess confidence in performing pupillary examination.
- All trainees were objectively assessed for knowledge, comprehension, application and analysis using test mode on the APS..
- · Statistical methods: Differences in pre-and post-training confidence was tested using

Results 97% 97% Not confident Confident 94% 53% 47% 53% 47% Students (pretraining) Students (post-training) Residents (pretraining) Residents (pretraining) Residents (post-training)

Figure 1. Participants confidence to perform pupillary examination before and after training with the Advanced Pupil simulator.









- 97% (122) students and 10 (52%) residents reported improved confidence in performing pupil examination after training with APS.
- 80% (101) students and 89% (17) residents were able to correctly list and demonstrate all steps in pupillary examination.
- 77% (97) students and 74% (14) residents correctly identified RAPD while 88% (111) students and 95% (18) residents correctly identified Horner's syndrome.
- Post training, students reported improved confidence in identification of all pupillary abnormalities (p=0.00), while residents reported improved confidence in diagnosing Adie pupil (p=0.00) and using pharmacologic agent to confirm anisocoria (p=0.00).

Conclusion

- Virtual-reality based practical training can shorten time to competency for critical medical examination techniques
- All trainees showed improved confidence in pupillary examination after using the APS.

Grant support



Results

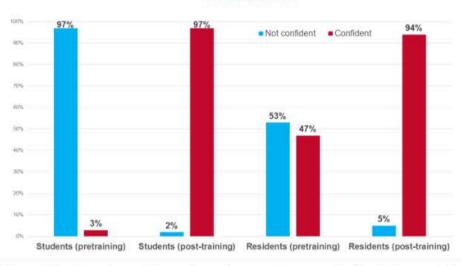


Figure 1. Participants confidence to perform pupillary examination before and after training with the Advanced Pupil simulator.

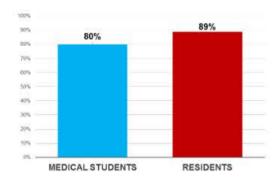


Figure 2. Proportion of participants who correctly demonstrated all steps of pupillary examination after training with the Advanced Pupil Simulator

■ Students (N=126) ■ Residents (N=19)

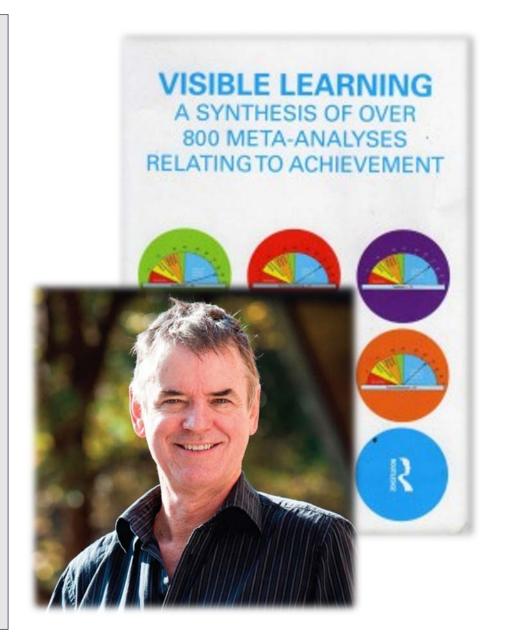
EON-XR for Education Resilient

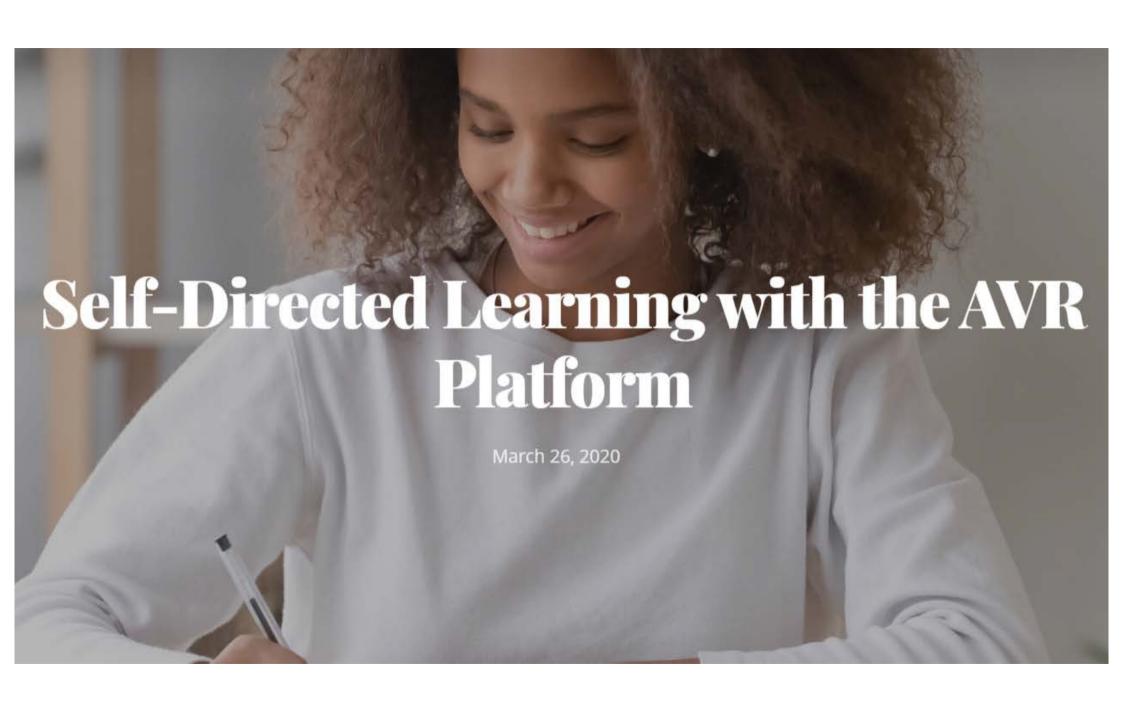
Principles of effective learning

"The remarkable feature of the evidence is that the biggest effects on student learning occur when teachers become learners of their own teaching, and when students become their own teachers"

800+ meta-analyses 50,000+ individual studies 80 million students

John Hattie (2009) Invisible Learning Routledge p.22





Reproductive vs Productive Learning

Reproductive Learning

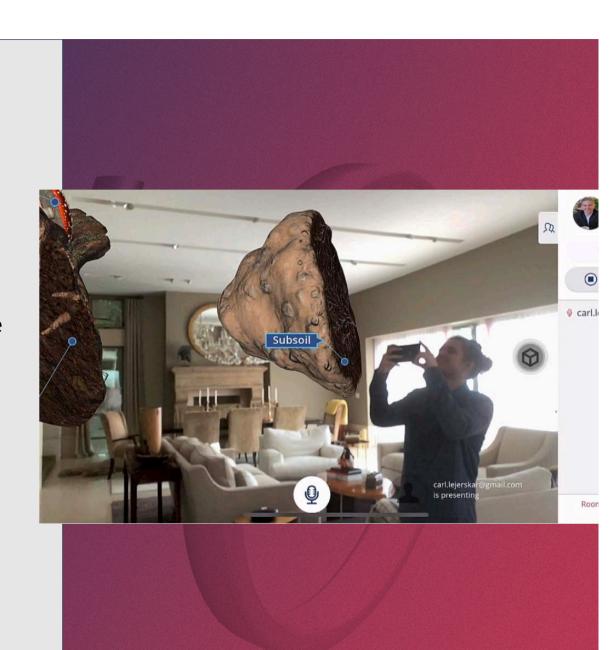
- Rote learning (often facts)
- Memorization
- Reproduction of existing knowledge
- Exams requiring replication of knowledge (often MCQs)

Productive Learning

- Discovery of knowledge through activities
- Constructing knowledge in real-world situations
- Collaboration with peers
- Learning concepts through real contexts

What can the EON XR Platform add to student learning?

When students construct a learning activity on the EON XR Platform, they need to research, make judgments, communicate to their peers, and create coherence in the subject matter



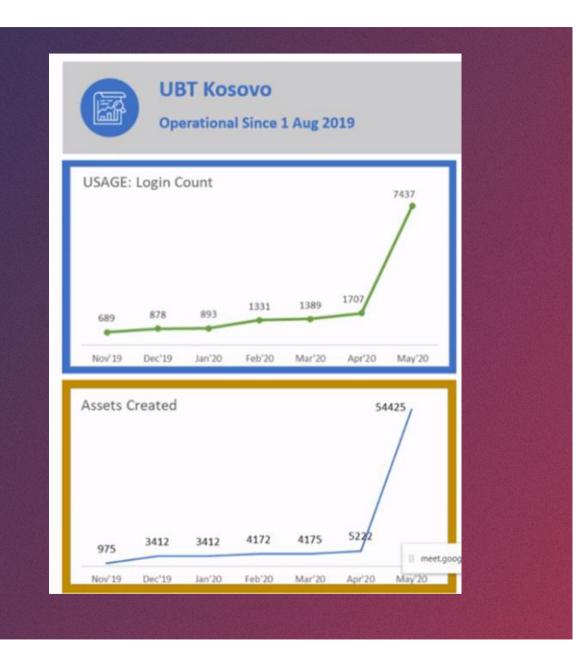
7437 users created54,425 AVR learning assets

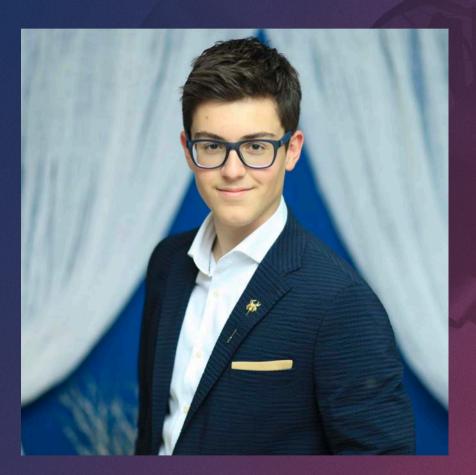
BACHELOR PROGRAMS

- Mechatronics Management
- Architecture
- Construction Engineering
- Media And Communication
- Energy Engineering
- Nursing
- Integrated Design
- Food Science And Biotechnology
- Pharmacy
- Dentistry
- Agricultural And Environmental Engineering
- Digital Art And Media
- Anesthesiology Technician
- Radiology Technician

MASTER PROGRAMS

- Media And Communication
- Construction Engineering
- Mechatronics Management
- Architecture
- Pharmacy
- <u>Dentistry</u>
- Food And Technology Sciences
- <u>Electricity And Power Markets</u>





Lend Sylejmani ,Student of University for Business and Technology Kosovo

"I participated in an AVR Academy that was in collaboration with my University - UBT where I learned a lot about the AVR system, more specifically how to learn from the existing assets in the platform and how to create lessons using our own creation and learning in the process of creation.

I was very pleased with my experience and I want to congratulate you and your team for the amazing work and effort that you put into this platform! As a student, I find it helpful and I believe it has helped me to develop the necessary skills to advance."

EON Reality's Global Roll-out Where EON-XR is Being Adopted



Other Successful EON Reality Partnerships





Global Center for Advanced Interprofessional Learning

Follow Link to More Info:

http://www.wowt.com/content/news/New-virtual-reality-lab-at-UNMC-489188681.html



"Mohawk College is proud to open our new Interactive Digital Centre in an exclusive collaboration with global leader EON Reality.

Our centre in Hamilton Ontario will serve as a provincial hub for innovation, training and applied research solutions in Augmented and Virtual Reality for industry partners."

> Ron McKerlie Mohawk College President

Follow Link To View Video: https://www.youtube.com/watch?v=kT9yKthL3yE



Category	Pre-AVR (2016)	Post-AVF (2018)
Placement of International students	85%	99.9%
Placement of all Students	92%	99.4%
Online Enrollment	385	625
Traditional Enrollment	3,460	4,000
Certificate Enrollment	300	2,230
Student Retention (Fall Freshman to Spring Freshman)	73%	92.6%
Student Satisfaction Survey	90%	98%
Faculty Technology Engagement	65%	95%
Access to AVR Learning Environments	40	400,000
Number of Countries Reached	89	106

Mike Mathews VP of Technology and Innovation

Follow Link to More Info: https://youtu.be/lqsP2O9dDIg

Knowledge Transfer Does Not Have To Come to a Standstill



- The full impact of COVID-19 remains to be seen, but great strides made in VR and AR technology mean the knowledge transfer around the world does not have come to a standstill.
- EON Reality's accessible and robust code-free AVR Platform allows users to create lessons in minutes and provides the world with the ability to address the mobility issues presented by the current pandemic.
- While we need to keep our distance, we can use technology to bring people virtually together so we can stay safe while continuing to learn, train, and perform our daily duties.

