

Dr Samuel FONG & Mr Tim YUEN

MedSim Healthcare Education Company



Technology Helps Education



E-learning



Simulation



Recording



Virtual Reality



Adaptive Learning







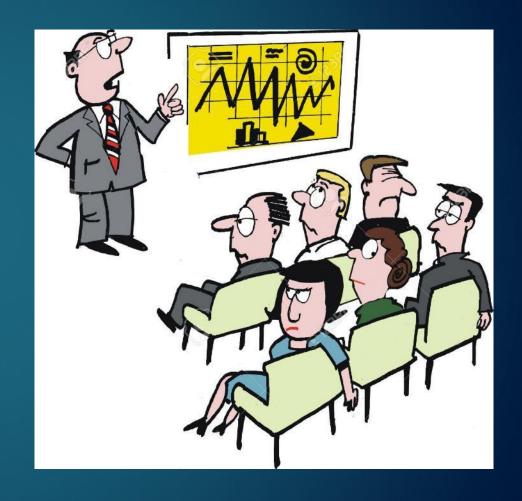
Venue

Time

Trainer

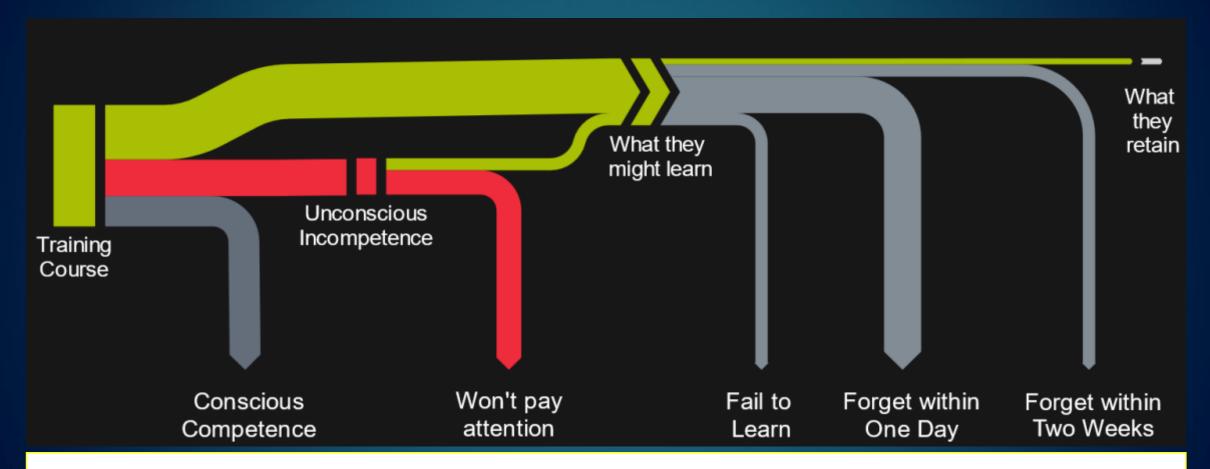
Learner

Administration staff





Traditional Learning Course – Retention Problem



Majority of effort and budget that spent on developing & delivering training courses is wasted.

Why e-learning?



- More cost-effective than traditional education
- It's flexible and accessible
- Retention Rates Are Higher
- Systematic training record
- Lectures Can Be Taken Any Number Of Times



What is the deficiency of existing e-learning?



- Too long session
- Not interactive
- Lots of internal resources to maintain the platform and create online course
- All students in different level need to go through same content
- Instructors are difficult to guarantee students to learn effectively
- Training record is not detailed enough to show students competence



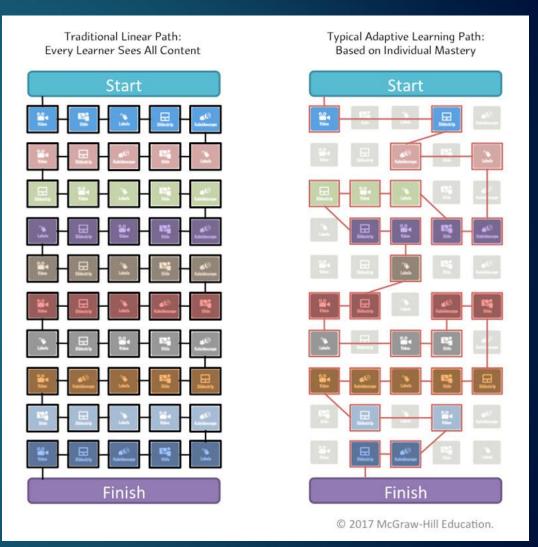
Adaptive learning

What is Adaptive Learning?



• 1 to 1 Learning but not traditional elearning with restricted learning path

 By using a personalized approach to replicate one-to-one interaction in a digital environment





Why Adaptive Learning?

HOW Adaptive Learning DIFFERS from Traditional E-Learning



Tradional	E-Learning



The same for everyone	Adapts to the indivdiual
Content comes first, then questions	Only shows content when it's necessary
Ignores what the student already knows	Takes into consideration what the student already knows
Starts from the beginning every time	Follows up on only what the student is having trouble with
Learner responsible for retaining new knowledge	e Al helps learner to retain new knowledge
Demotivated students because content doesn't feel relevant or personal	Highly personalized content keeps students motivated



AREA9 RHAPSODE™

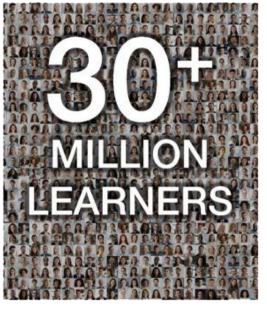
FOURTH GENERATION ADAPTIVE LEARNING



Area9 LYCEUM













DEEP PARTNERSHIPS 1997 - 2022



















































Webinar on Nursing Education Training



Hong Kong Society for Nursing Education

Mission: To achieve excellence in nursing service through the enhancement of quality nursing education



Webinar on Adaptive Learning on Nursing Training

Date: 25 November 2020 Time: 19:00 – 20:00 (HKT) Venue: Online via Zoom

Speaker: Dr Khurram Jamil, MD

President - Strategic Initiatives, Area9 Lyceum



Speaker: Khurram Jamil, MD, President – Strategic Initiatives, Area9 Lyceum After earning his medical degree in 2002, he chose to advance health care outside the clinical area. He co-founded Area9 in 2006, partnering with McGraw-Hill to deploy adaptive learning technology. Since then, more than 30 million students have used LearnSmart & SmartBook (property of McGraw-Hill Education – acquired in 2014). At Area9, which is a global learning technology company, Khurram focuses on regional expansions, joint-ventures and partnerships, as well as oversees projects for all levels of education and training. His entrepreneurial experience extends over 20 years. He has led dozens of teams comprising of medical professionals and educational scientists, spearheaded large development and partnership efforts, and managed multi-million-dollar educational software development projects. Dr. Jamil is a cultural bridge builder and is involved with various cultural & art organizations to support building creative and reflective societies. Amongst these, he serves on the Education Council of the Center for Global Education (CGE) at Asia Society. Full Bio: https://www.linkedin.com/in/khurram-jamil-81b752/

earning on Nursing Training





achievements in learning technologies

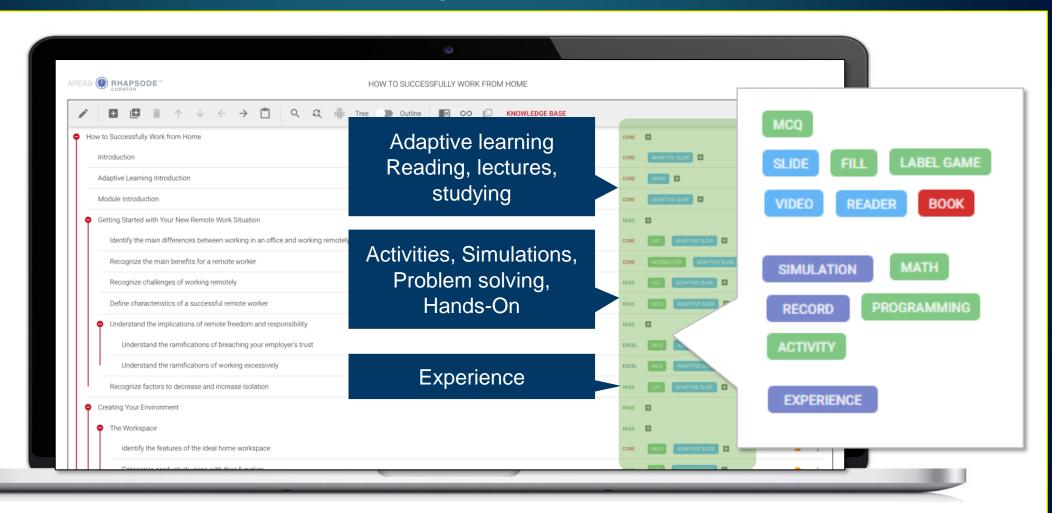






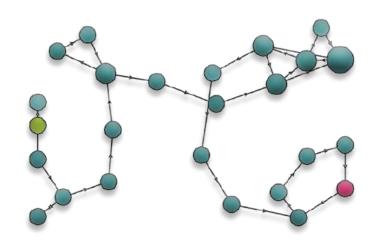
User-friendly Platform, Interactive Content

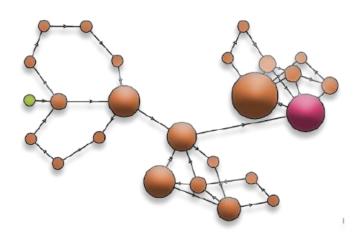
Easy access and creation of content, enabling frequent updates and deployment.

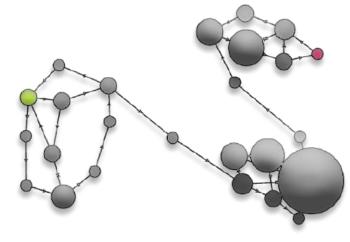


UNIQUE PATHS TO PROFICIENCY









Final gr

Learner 1 100% proficient 8m 25s

Initial

88% correct 9% consciously incompetent 3% unconsciously incompetent Learner 2

100% proficient 19m 39s

52% correct 7% consciously incompetent 41% unconsciously incompetent Learner 3

100% proficient 33m 40s

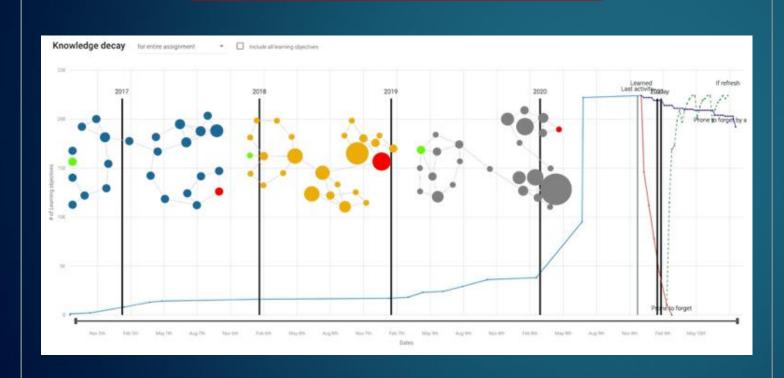
47% correct 29% consciously incompetent 24% unconsciously incompetent

The Adaptive Principle



Recreates at scale the optimal teaching approach of a one-on-one personal tutor.

Reinforcement (Refresh)



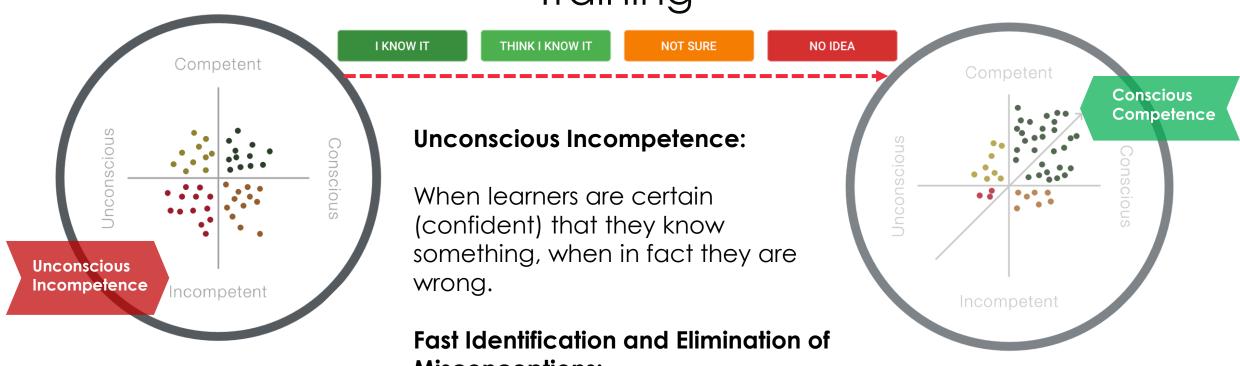
Reinforcement (Refresh):

Reduced memory decay is secured by personalized (future) revisits and retraining of most critical learning objectives.

METACOGNITION







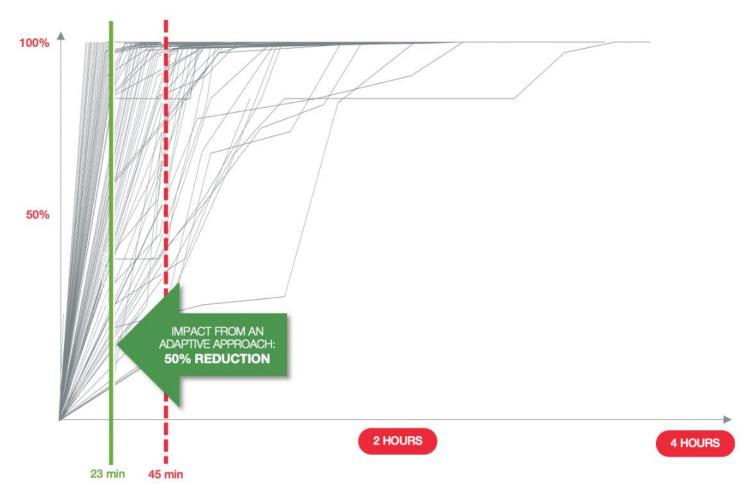
Misconceptions:

Misconceptions are immediately captured, remediated for, and later reinforced via the Refresh function.

Accelerated Learning



Uses AI and intelligent technologies to adjust and deliver optimal learning experiences in real time.



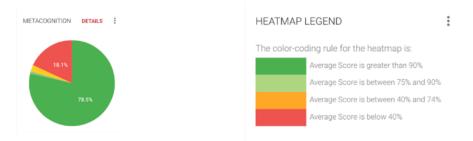
HIGH IMPACT – HIGH RELIABILITY

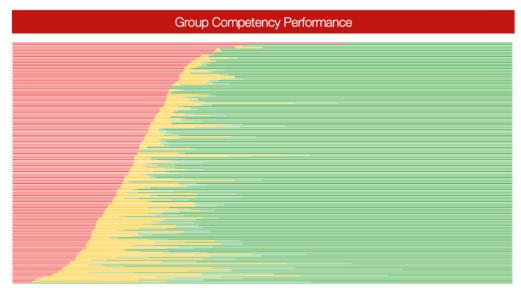
- 50% faster learning initially
- Up to 10 times faster refresher learning
- Empowers teachers to focus better
- Everybody succeed

Analytics



Granular tracking, people performance





PEOPLE PERFORMANCE ANALYSIS: ARE OUR PEOPLE AT RISK?

Granular tracking, content performance



CONTENT PERFORMANCE ANALYSIS: ARE OUR PEOPLE LEARNING OR DO WE NEED TO IMPROVE THE MATERIAL?



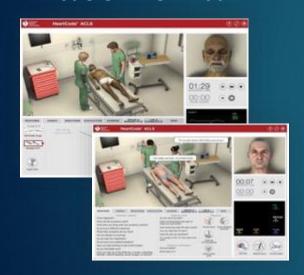
Case Studies

The New England Journal of Medicine



CLASSROOM > DIGITAL > HYBRID

AMERICAN HEART ASSOCIATION 2002 -



Reduced a 2-day face to face course to 3-5 hours
using digital learning and simulation. Millions of
health providers have to date used these products
to get there ACLS and PALS mandatory certifications
in the US (ACLS = Advanced Cardiac Life Support,
PALS = Pediatric Advanced Life Support)

NATIONAL SAFETY COUNCIL 2015



Reduced a 3 days classroom training to 16
modules of Adaptive courses. The average time
to proficiency for the Supervisor Safety
Development program is 10 hours but the best
students managed to get through in only 4 hours

NEW ENGLAND JOURNAL OF MEDICINE 2013 -



NEJM Group and Area9 partnered in February 2013 to create the first-of-its-kind platform with smart technology that adapts to clinicians' learning goals, pace and knowledge gaps to deliver the information they need to know.



Ground School Training for Aviators

Lockheed Martin Jet Pilot Training Study: 63% in the blended learning (adaptive learning) vs 29% in pure classroom group passing test 10 week later



Figure 8. BL group MCQ & FIB immediate exam total (yellow) versus 10 weeks later (green)

- blended learning offers a path for improved knowledge retention
- benefit trainees in subsequent training





How Adaptive Learning helps YOU in Teaching and Learning?







Thank you!

MedSim Healthcare Education Company

info@medsimhealth.com



