

Technologies to Scale Up and Spread Innovations in Health Education

Catherine M. Casserly, Ph.D.

November 13, 2018

Global Form on IHE

National Academies of Sciences, Engineering, and Medicine



Who is your student?



Knowledge is Locked Up



Innovation Collaboration on Learning through Community Engagement

business com **community** designer digital e-
learning ^{ed} **education** emerging fan father fun games
gardener geek **history** http husband interactive interested leader
learner **learning** lecturer librarian life love
manager media online open ^{org} **researcher** school
science social student stuff **teacher** teaching tech
technologist **technology** thinker tweet
university ^{virtual} **web** works world

Open Education Resources

Any kind of teaching materials – textbooks, syllabi, lesson plans, videos, readings, & exams.



Open Education Resources

- (1) Free and unfettered access &
- (2) Free copyright permissions



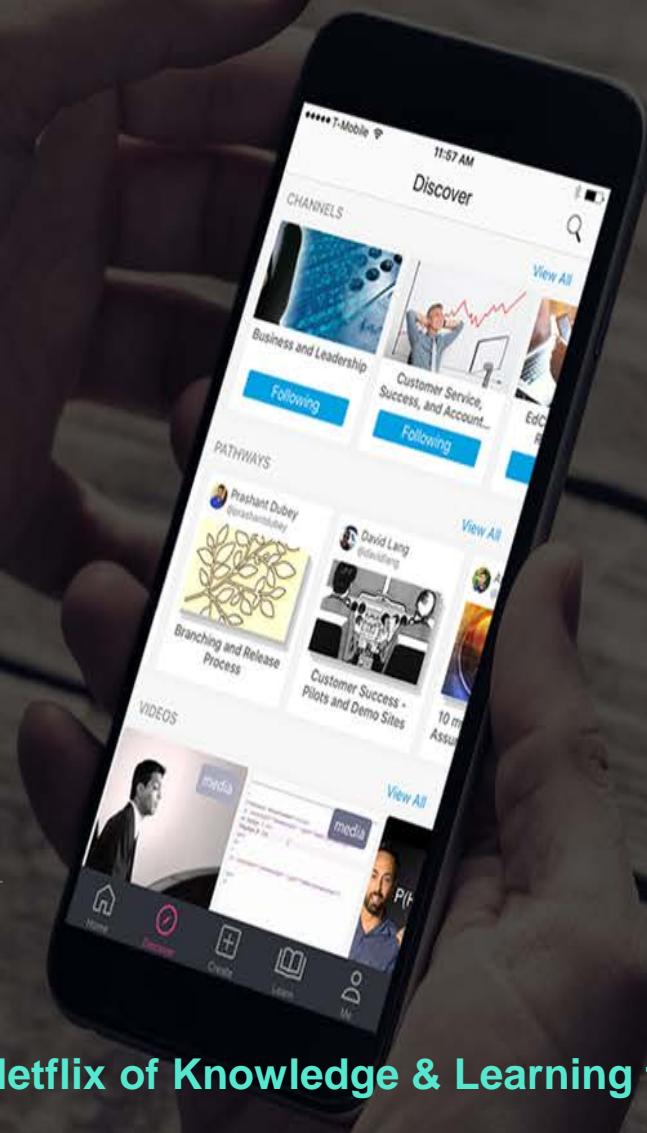
open > free





AI-Powered Knowledge Cloud

The Netflix of Knowledge & Learning for Enterprise

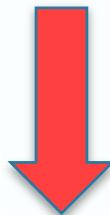


EdCast - Implementation- Integrations

ONBOARDING SYSTEMS

Learning Goals based on

- Roles
- Skills Assessment
- Manager recommended
- Aspirational



Unified Discovery of all Learning Resources

AI-Driven Personalized Learning / Micro & Macro (Course based)

Peer-2-Peer Learning

Experiential Learning



PERFORMANCE MGMT SYSTEMS/LMS/ HCM CLOUD

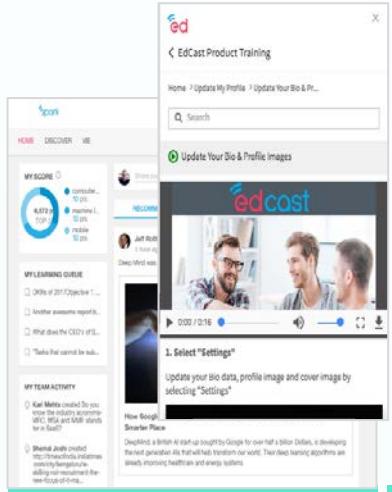
Performance data / Gaps feeds into Learning Goals

Correlation between learning data & performance data drives ROI & ROE (Return on expectation)

EdCast Design Thinking: Meet the Users where they are! Multiple touch-points: Mobile-first, AI, AR, VR...



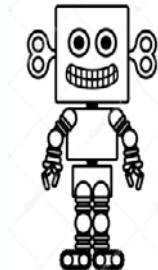
MOBILE FIRST



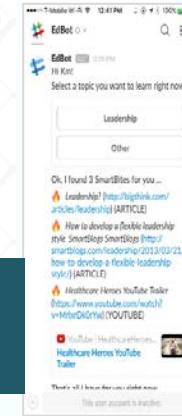
WEB APP+ Widget



In-App (SFDC, Webex, SAP, O365, etc)



Coach
Eddy



AI Coach* (Skype, Slack, etc)



Immersive Learning*: AR/VR

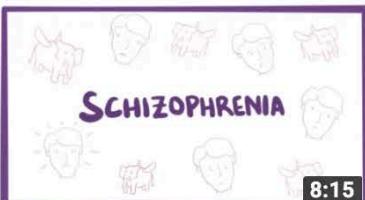
*in private beta





hi@osmosis.org





SCHIZOPHRENIA

8:15



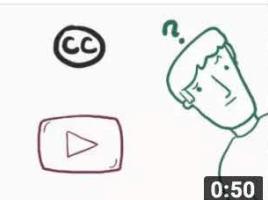
CONGESTIVE HEART FAILURE

14:28



VIRAL HEPATITIS

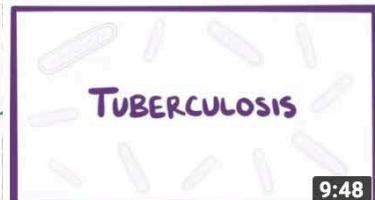
12:18



CC



0:50



TUBERCULOSIS

9:48

Schizophrenia - causes, symptoms, diagnosis,

355K views • 1 year ago

CC

Congestive heart failure (CHF) - systolic, diastolic, left

328K views • 1 year ago

CC

Viral hepatitis (A, B, C, D, E) - causes, symptoms,

321K views • 1 year ago

CC

About Open Osmosis

319K views • 1 year ago

Tuberculosis - causes, symptoms, diagnosis,



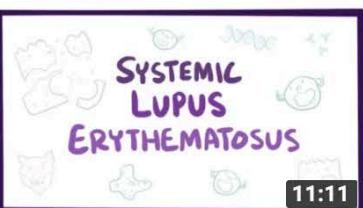
PNEUMONIA

15:14



JAUNDICE

10:48



SYSTEMIC LUPUS ERYTHEMATOSUS

11:11

Pneumonia (community acquired, ventilator

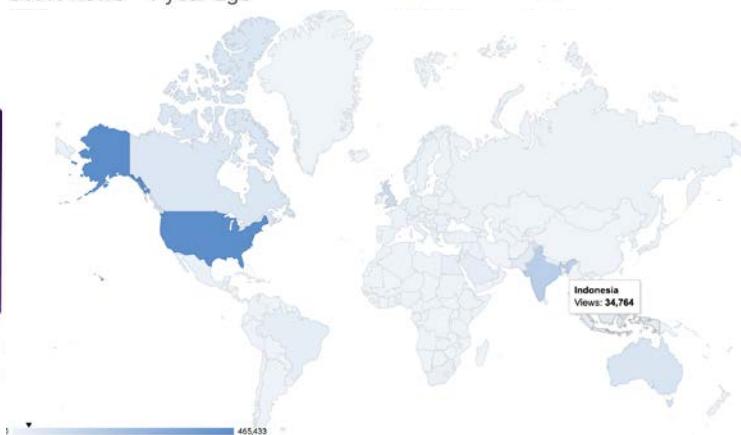
291K views • 1 year ago

Jaundice - causes, treatment & pathology

263K views • 1 year ago

Systemic lupus erythematosus (SLE) -

255K views • 1 year ago



Views

3,000,000

450+
videos

2,250,000

30m+
views

1,500,000

750,000

0

January 2016

April 2016

July 2016

October 2016

January 2017

April 2017

July 2017

October 2017

October 2017
Views: 2,781,993

Inter-Professional Education

- Dentistry
- Medical
- Nursing
- Patients
- Pharmacy
- Physician Assistant
- Veterinary



Smriti Subramanian 4 months ago

I am a 3rd year dental student and I have my general medicine final examination tomorrow. I am sure I will pass this exam well all because of you guys. I owe you guys so much!



Abheek Sharma 2 weeks ago

as a medical student having this disorder...i ve understood it better...thanks for the awesome videos!! 😊😊

Reply · 17



adelie bachez 2 weeks ago

YOU HAVE SAVED ME THROUGH NURSING SCHOOL, I love all your videos and you are just so helpful. thank you thank you thank you!!!!!!!!!



teenerqm 4 months ago

Well done and easy to follow. You get an A+

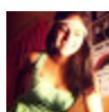
I'm 39 and have never had a doctor sit down and talk to me about what's really happening. I have TOF, or that's what they said when I was born blue tinged. My new doctor says I don't really have TOF. Very confusing time lol

Reply ·



Réka Viczián 4 months ago

I am actually a pharmacy student, your videos have helped me so much, they are clear, to the point, not too detailed, but detailed enough to get a good enough grade on a test. thank you for your work



Joanne Sabra 1 month ago (edited)

If there were a University of Osmosis PA School, I'd pay double the tuition I'm paying now to be taught by ya'll



LAisyourgirl 1 month ago

As a veterinary student this was by far the most efficient and informative video I've seen on this subject. Thank you for going in depth enough for the medical professional , yet keeping the topic simple so I could understand the big picture concepts!

Principles of Open Educational Practice

- Collaboration & sharing of information;
- Connected communication about learning & teaching;
- Collectivity grow knowledge and resources;
- Critique for the promotion of scholarship
- Serendipitous innovation (Conole, 2013)



Principles for Success with Technologies



- Open Source
 - Platform/Content
- Inclusive
- Student Centered
- Harness Community

Thank You!

@cathycasserly

cathy.casserly@gmail.com

