Innovation Matters: Racing Ahead While Keeping the Lights On

Hilary J. Baker Vice President for IT & CIO California State University, Northridge

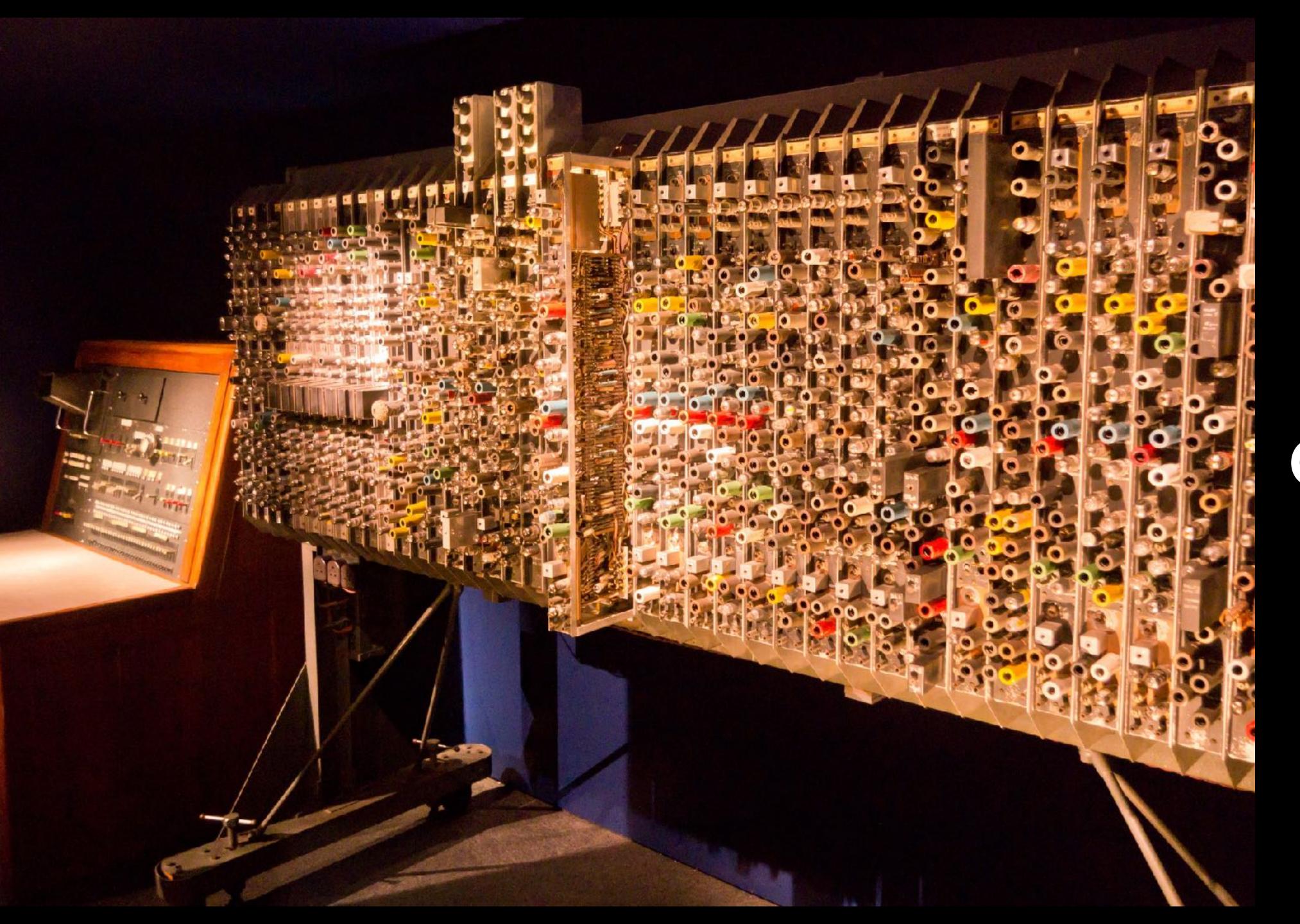




CSUN's focus on infusing innovation across the campus

Examples of CSUN innovative technology initiatives

How to balance innovative technology initiatives while "keeping the lights on"



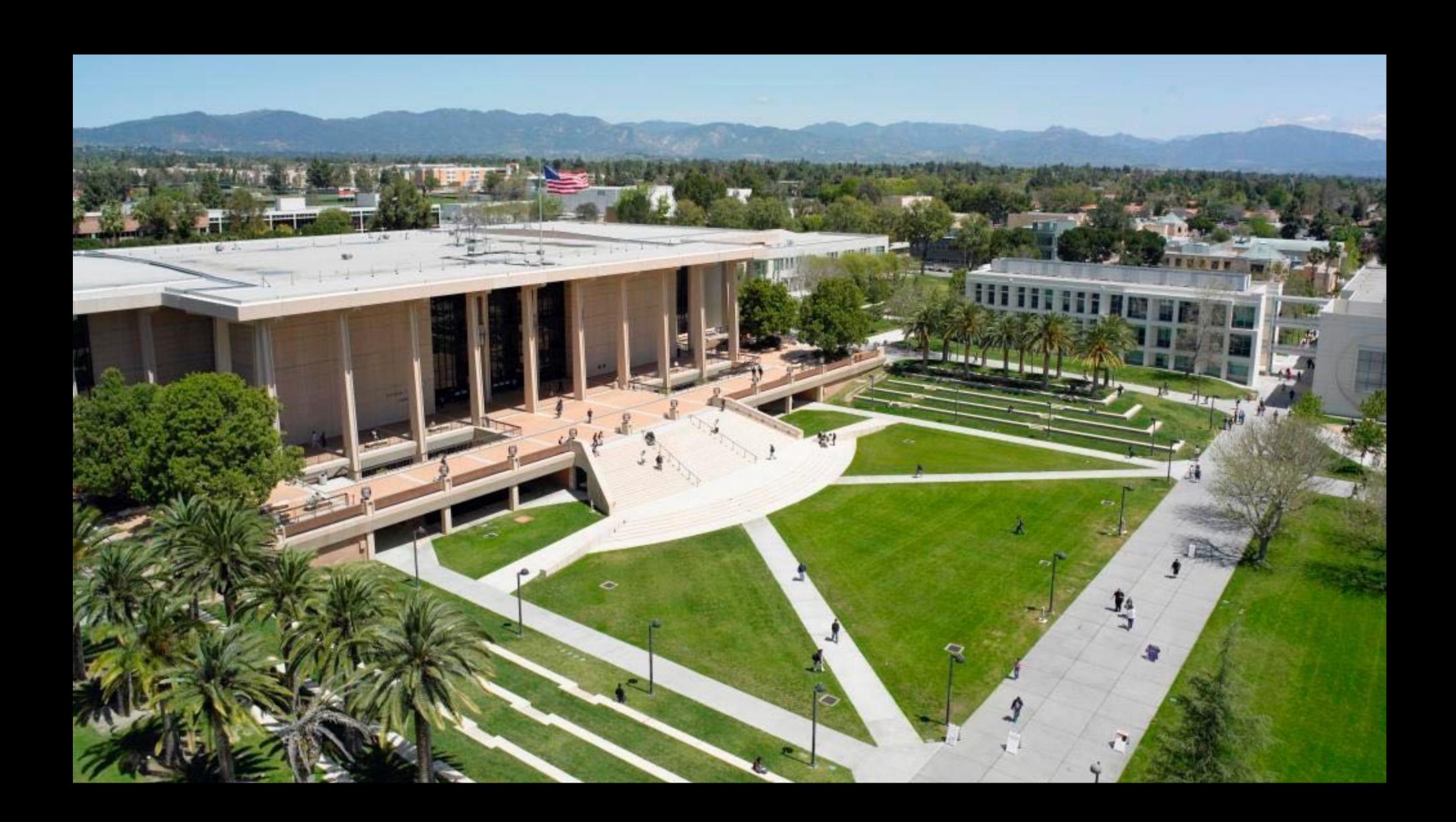
Ace Computer

The meaning to have the -in'no.va'tor n. in.no.va.tion thing new. 2. Son ed

Infusing Innovation Throughout CSUN



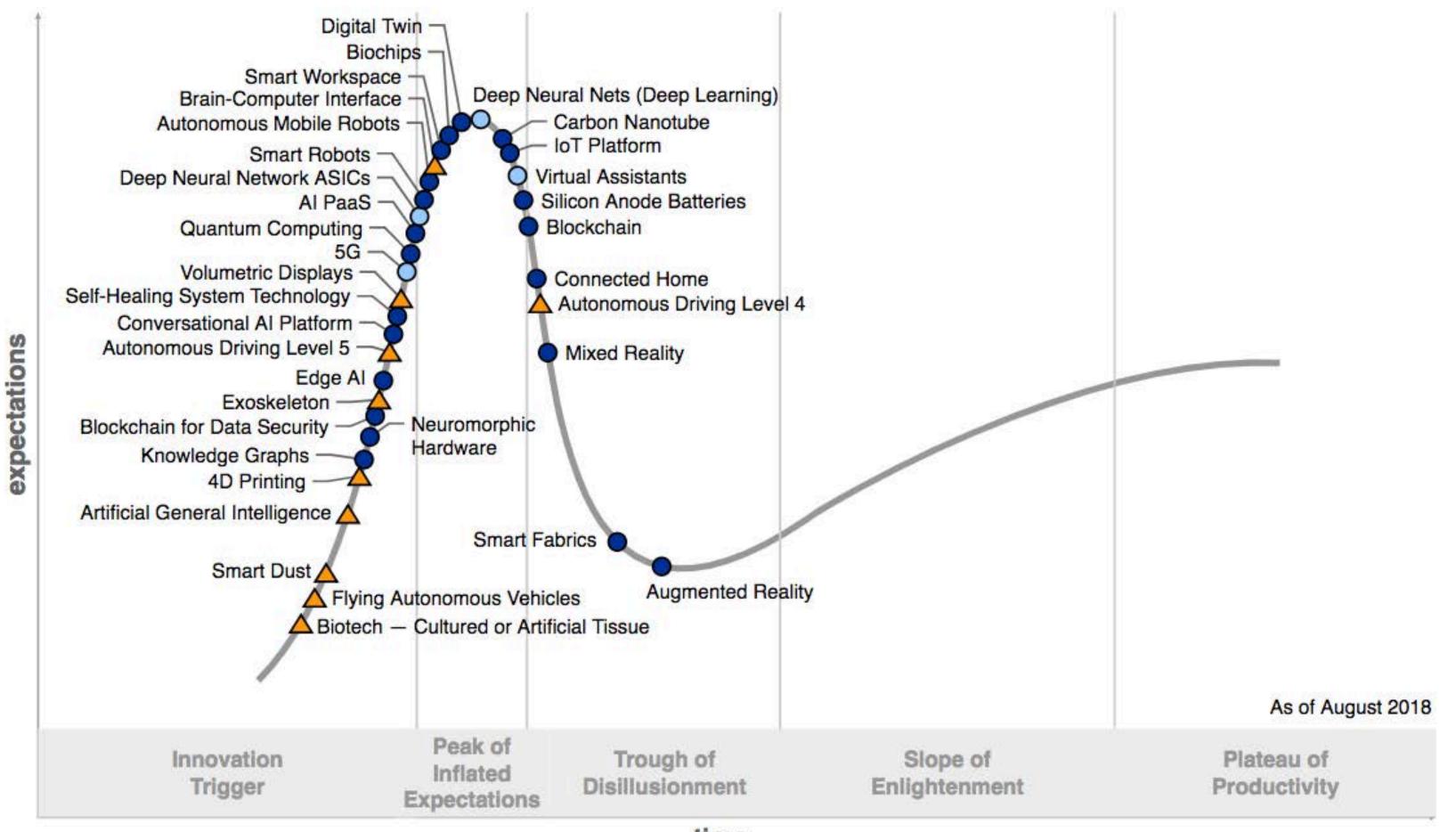
CSUN Innovates!





Follow
Technology
Trends

Interactive Hype Cycle



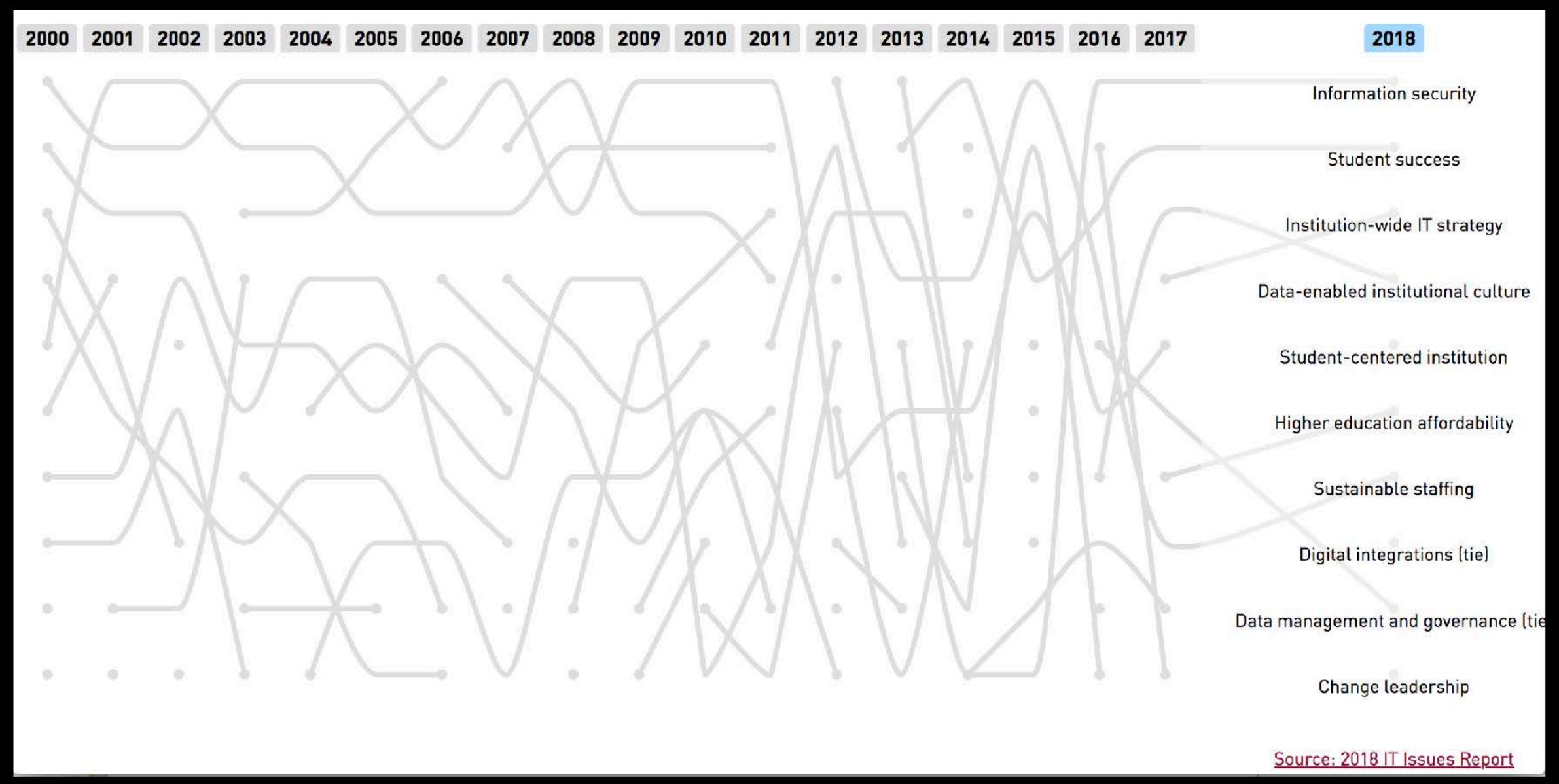
time

Plateau will be reached:

O less than 2 years ○ 2 to 5 years ● 5 to 10 years △ more than 10 years ⊗ obsolete before plateau

Gartner Hype Cycle for Emerging Technologies

EDUCAUSE Top 10 IT Issues



Horizon Reports





- 1 year or less
 - Analytics Technologies
 - Makerspaces

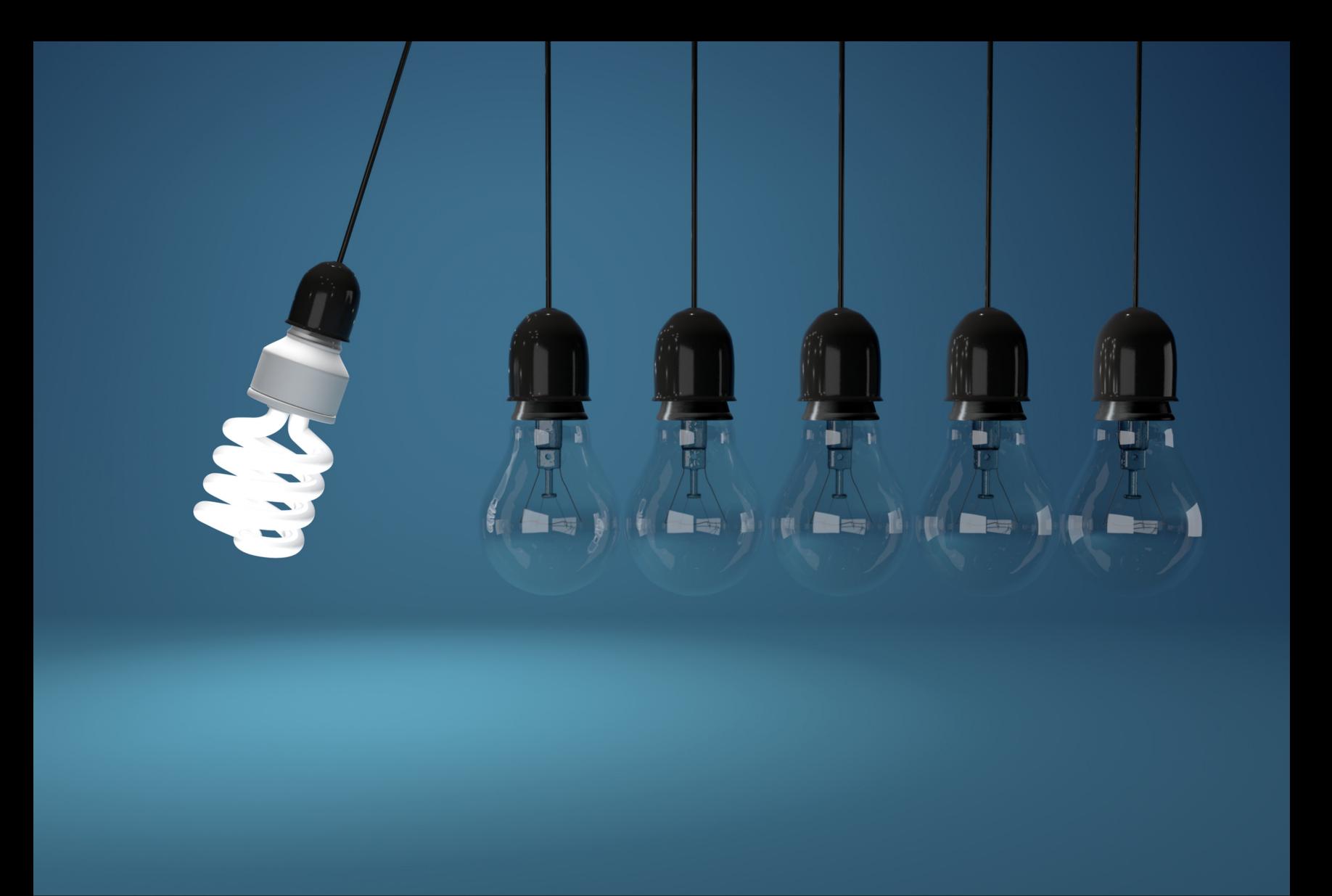
2-3 Years

- Adaptive Learning Technologies
- Artificial Intelligence

4-5 Years

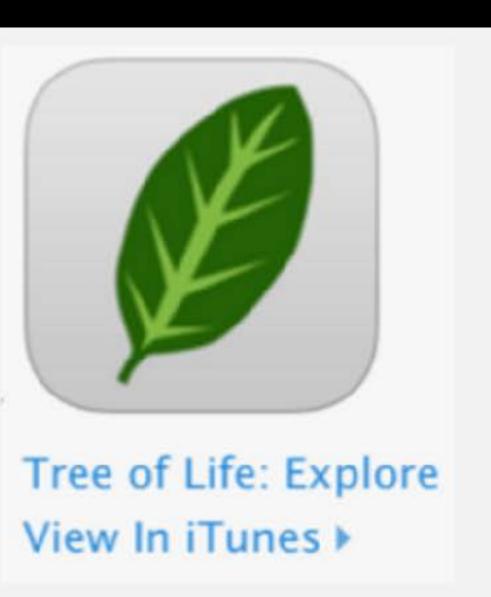
- Mixed Reality
- Robotics

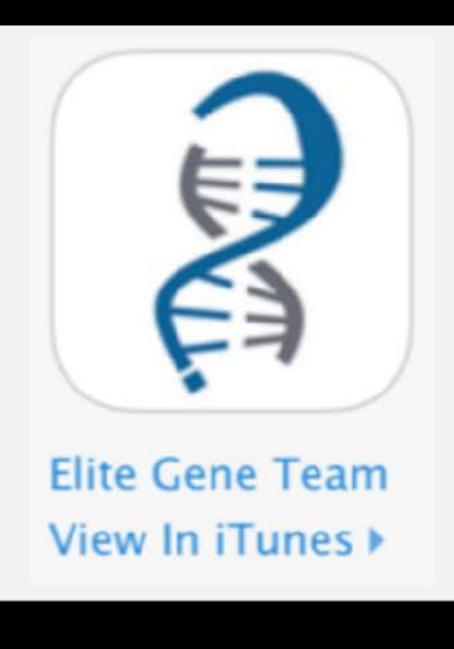
CSUN Technology Innovation

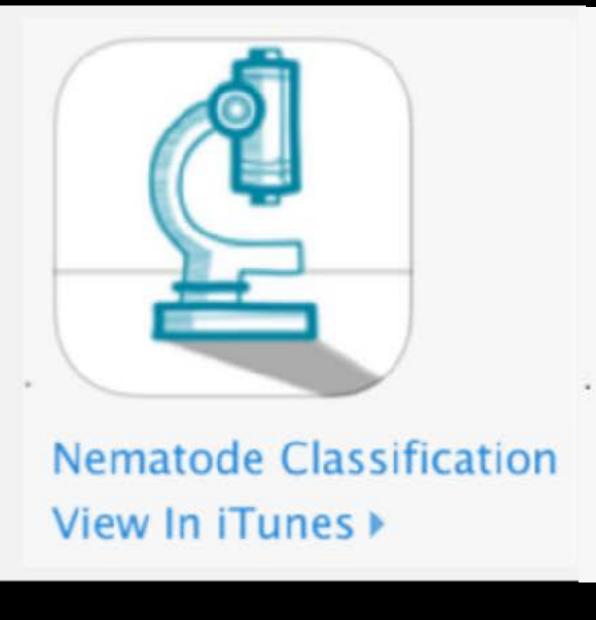


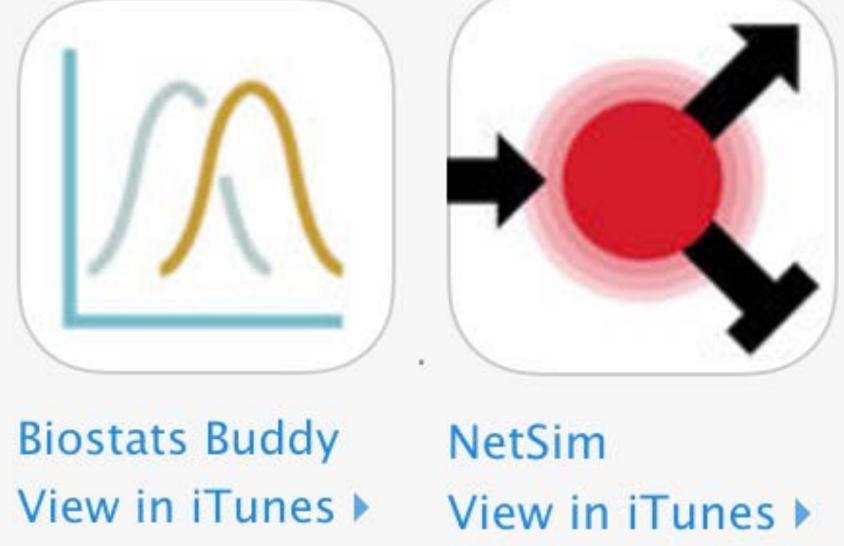


Faculty-Authored Curricular Apps







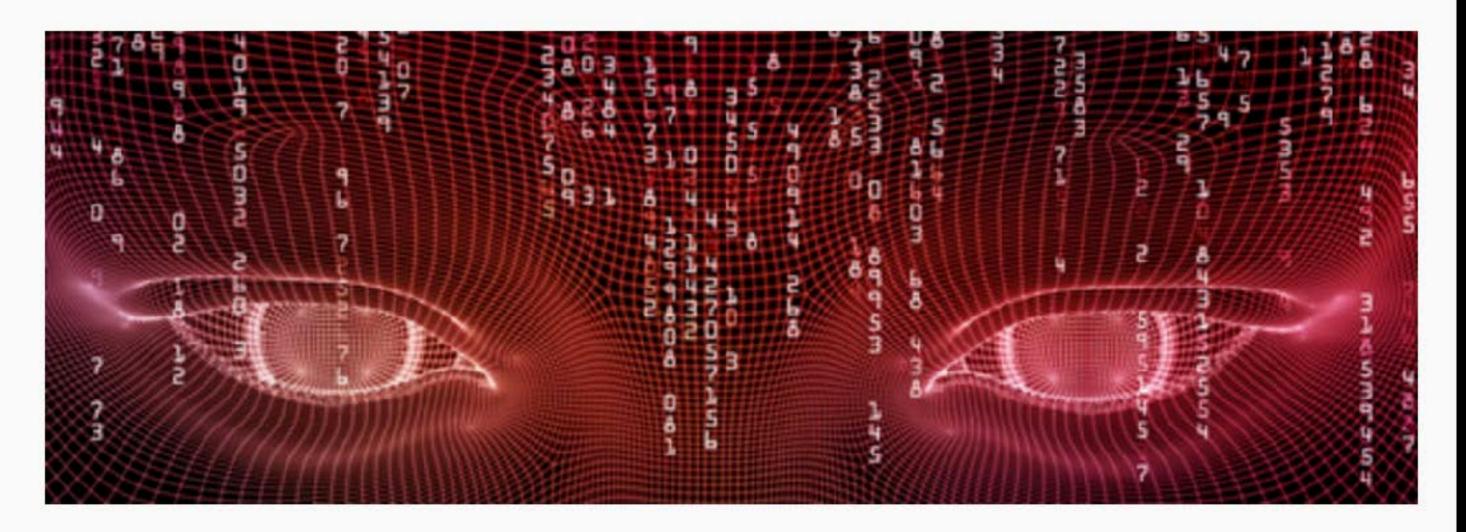


VARx - Faculty Exploration





Artificial Intelligence Exploration (Alx) at CSUN



ALL CSUN FACULTY ARE INVITED

- Faculty "Brown-Bag" conversations
- Guest speakers on a variety of Al-related topics
- Access to Al tools and cloud platforms from IBM, Amazon, and more
- Learn about Chatbots being created on campus
- Work on Al projects with student researchers
- Explore research opportunities and grants related to Al
- Help inform <u>AI-Jam</u>, the student competition (Spring 2018)

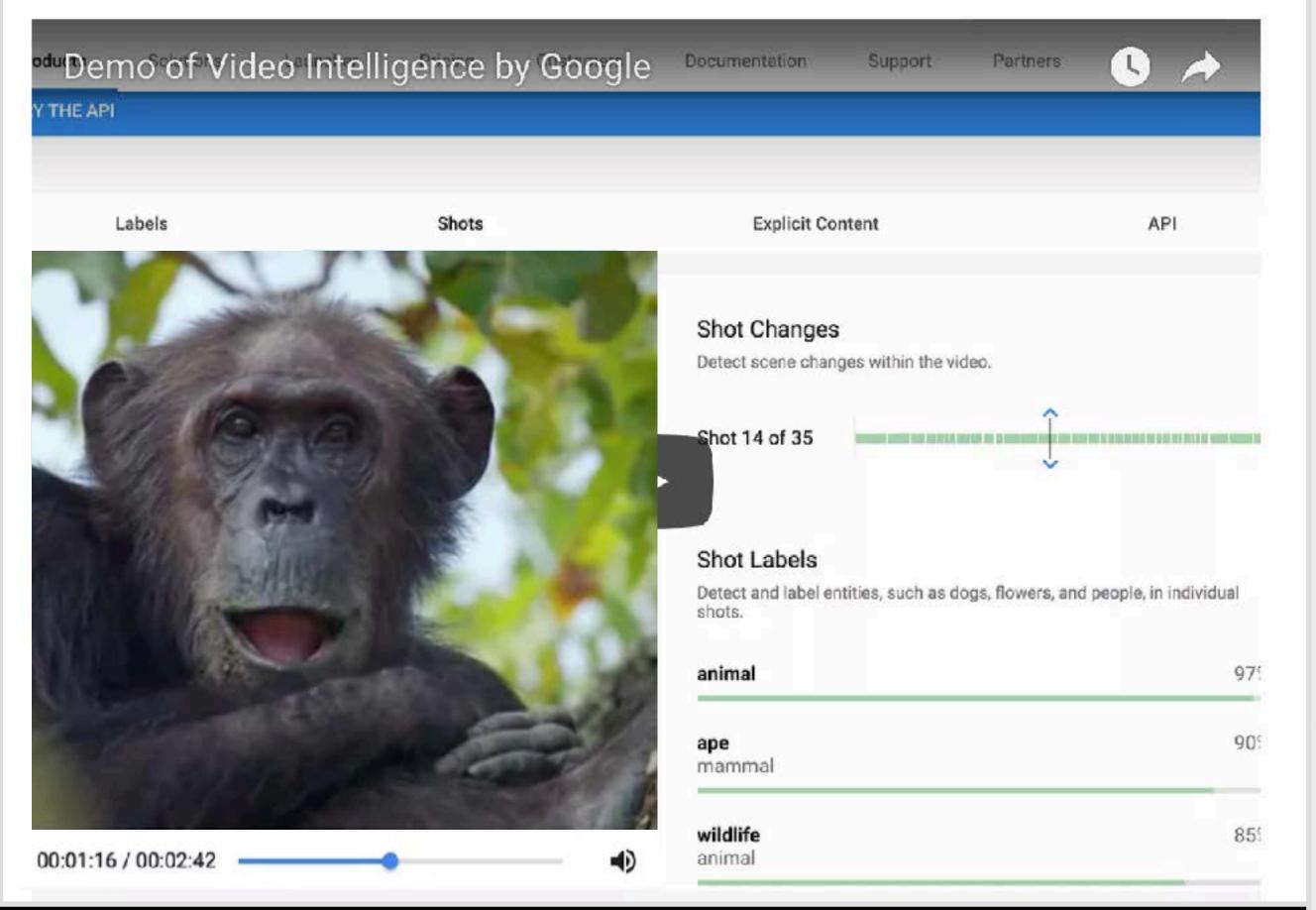
Launches Year of Exploration



Artificial Intelligence Exploration (AIx) Blog

Demo of Video Intelligence by Google

Watch on the right as the "shot labels" change as the scenes change. It's rudimentary, but the potential is enormous once the Al learns as it would become much more granular.



Categories

Applications by College (107)

Arts, Media & Communication (14)

Business & Economics (22)

Education (6)

Engineering & Computer Science

(18)

Health & Human Development

(12)

Humanities (8)

Science & Math (13)

Social & Behavioral Sciences (8)

General AI (14)

Learning Videos (1)

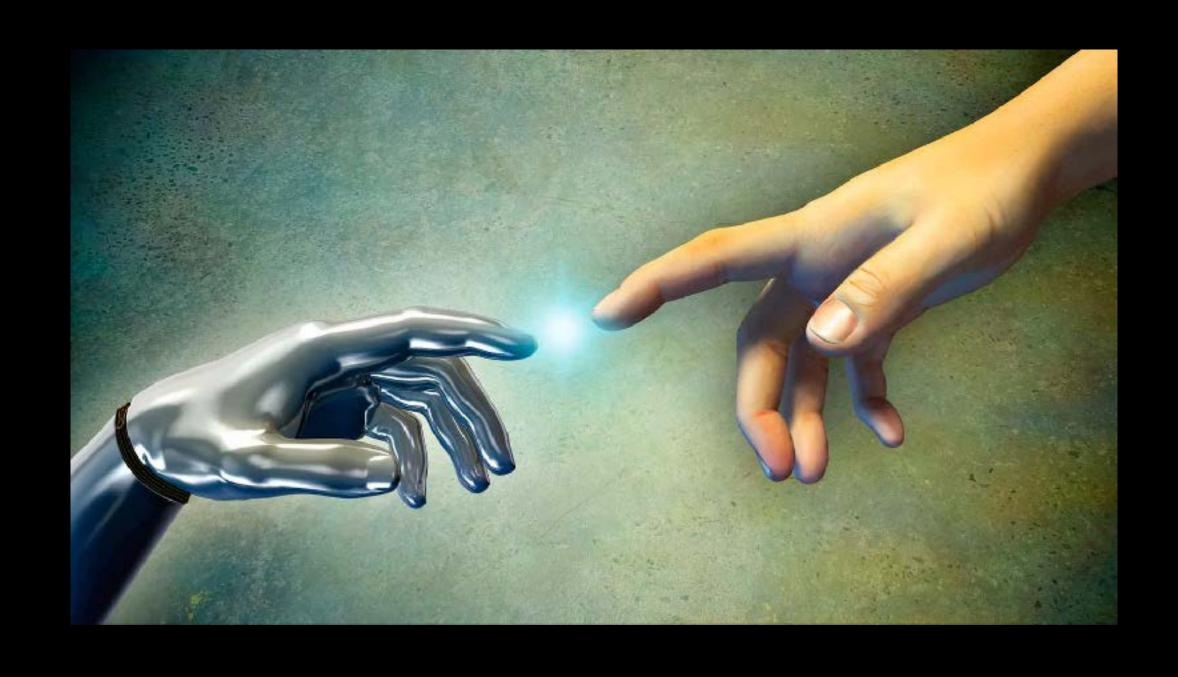
Tools (16)

Began with a Blog

Faculty Alx Conversations



- Arts
- Business
- Education
- Engineering
- Healthcare



- Humanities
- Science
- Ethics
- AssistiveTechnology

Culminated with Research Focus



Culminated with Research Focus



Digital Humanities - Deciphering Medieval texts using Al

Hosted Series of Guest Speakers



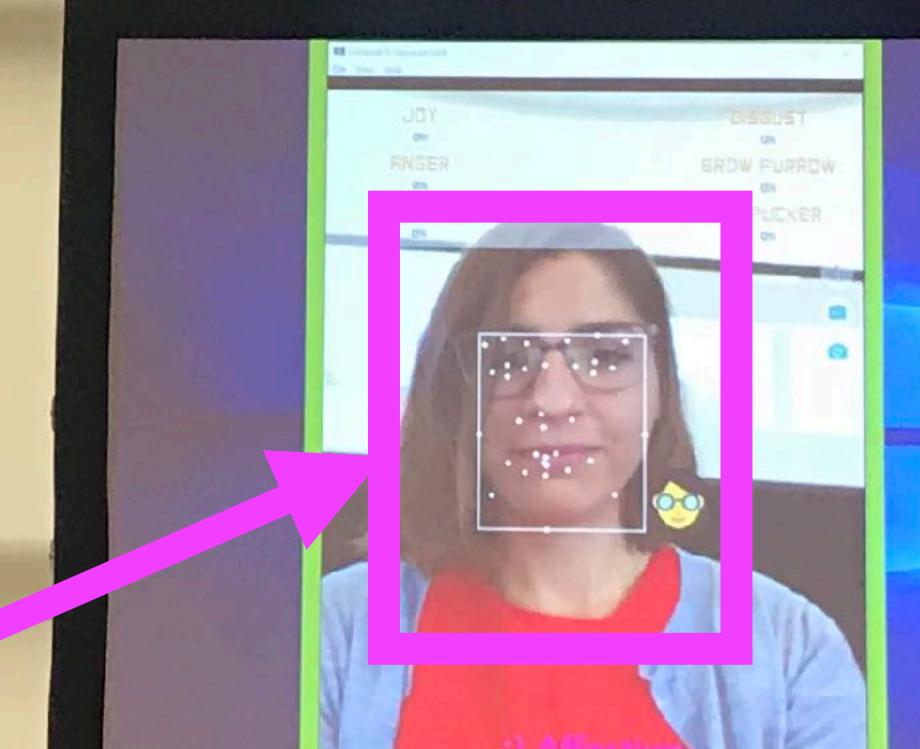


Steve Rabuchin, VP for Alexa

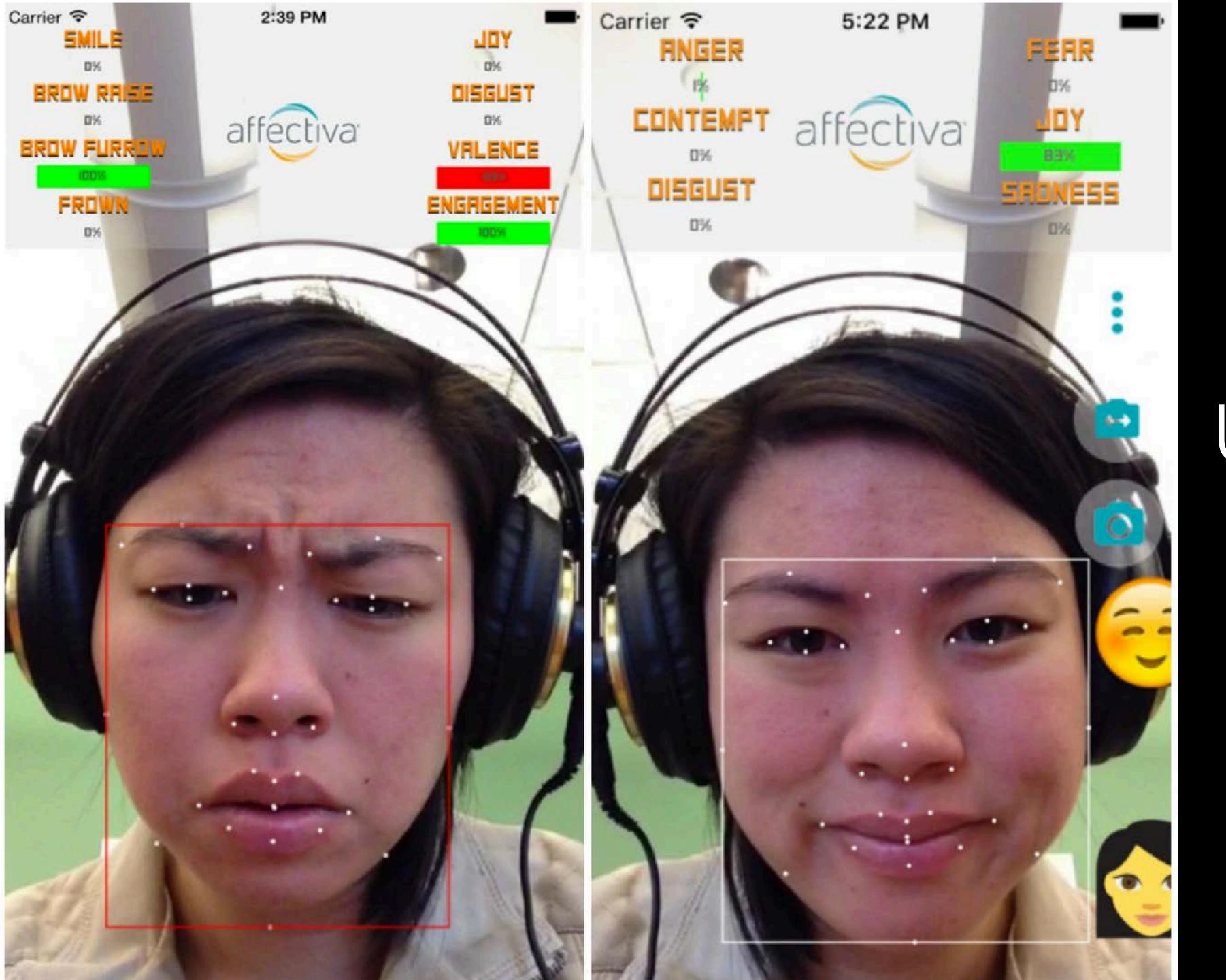


Dr. Rana el Kaliouby Co-Founder and CEO, Affectiva

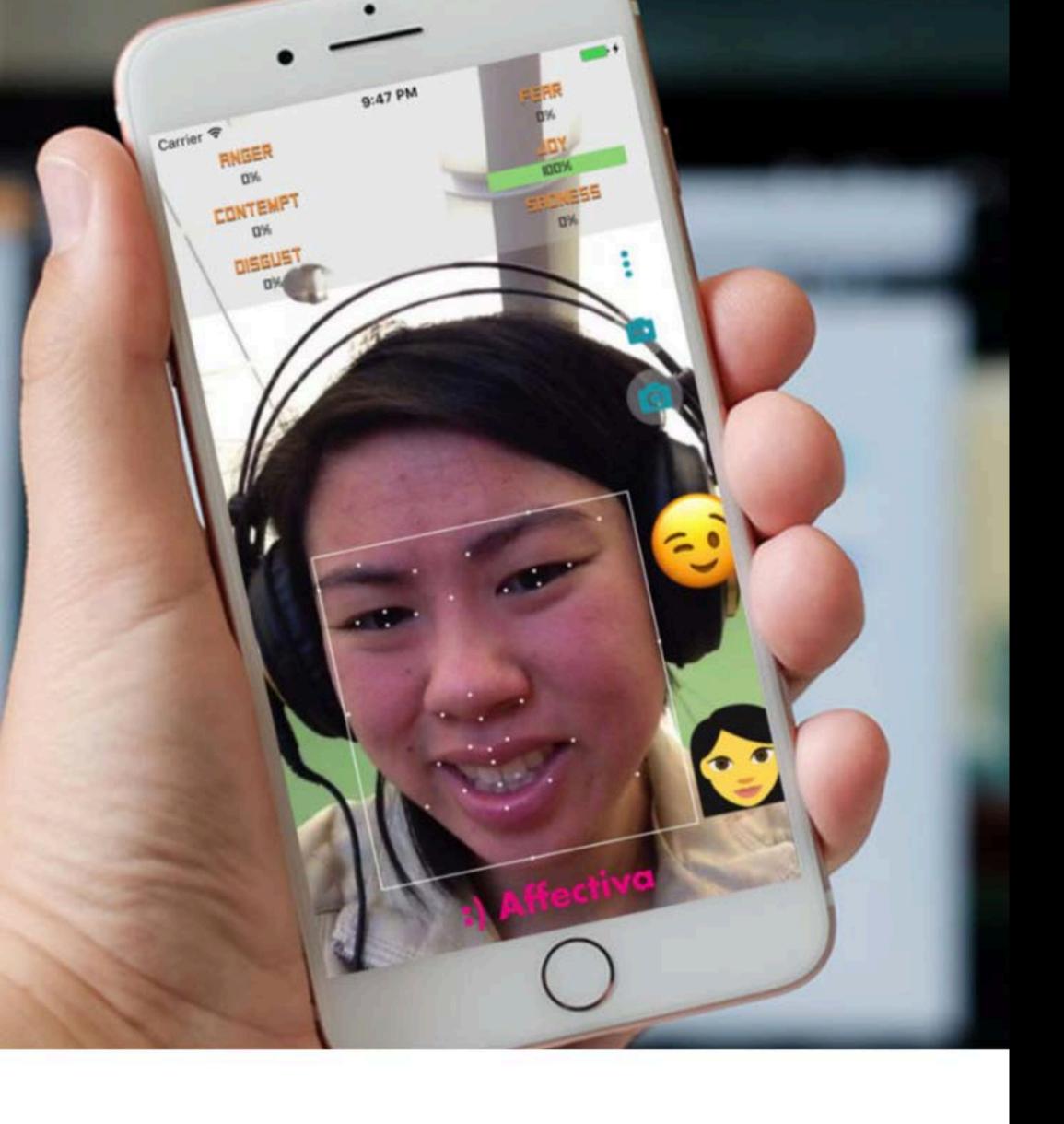




Real-Time
Emotion
Recognition

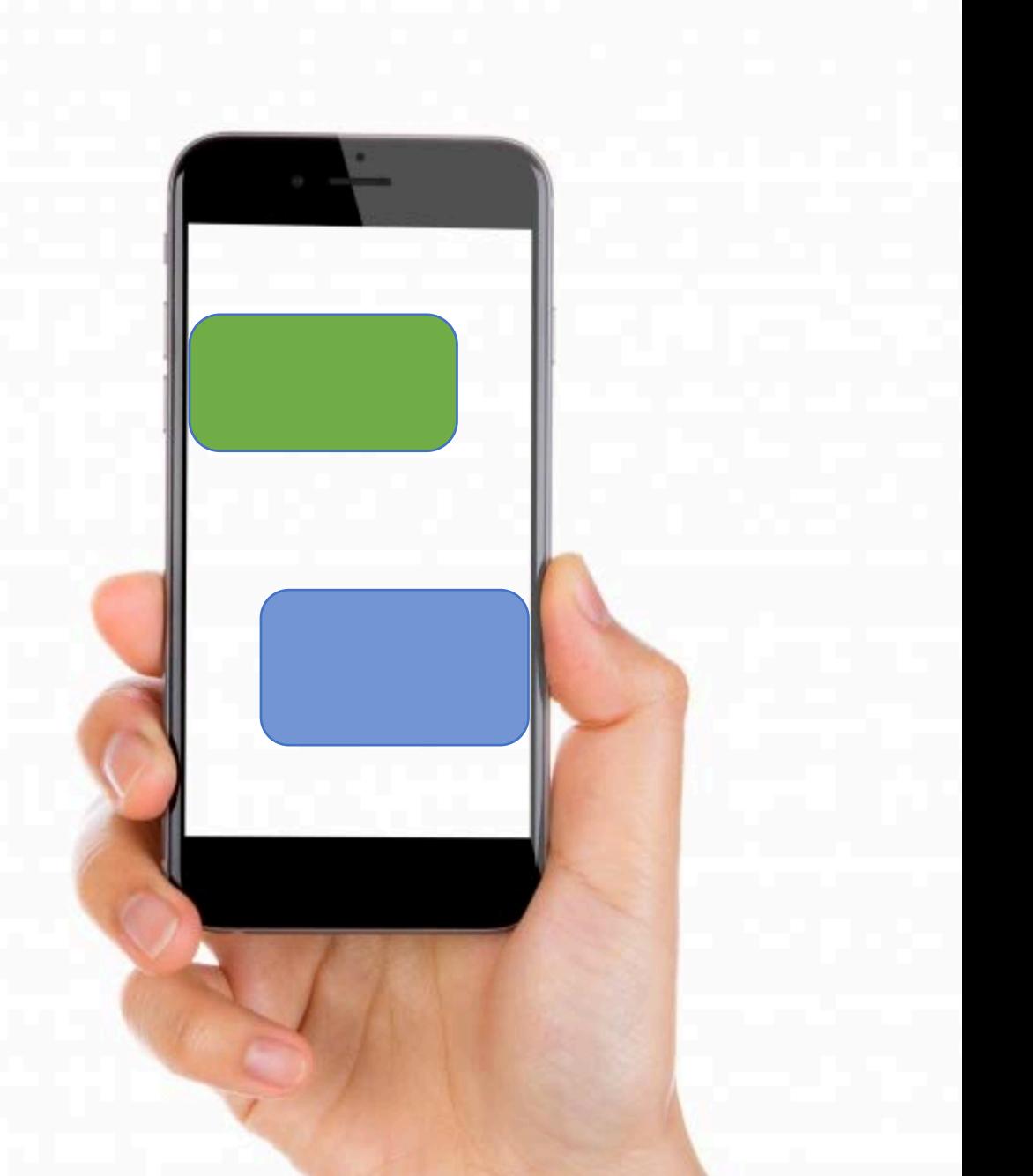


Measuring
Understanding
Using
Emotions



Use Your Phone Read Your Emotion

Try AffdexMe for iOS to see a demo on your iPhone



Al Chatbots at CSUN



Ask a question like:

How do I apply to CSUN?

Ask Matty



ASK MY QUESTION

CSUNINY

Who are you?

I am CSUNny from CSU, Northridge.

How do I apply for financial aid?

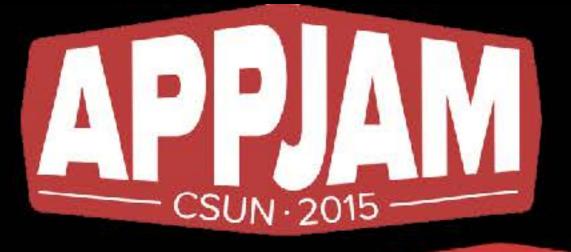
To apply for financial aid (including grants, loans, workstudy, and scholarships), the most important thing is to complete the FAFSA at fafsa.ed.gov

Is there housing at CSUN?

We have different rates for different housing options! Check them out here: bit.ly/csun-housing-rates.

Student Al Competition



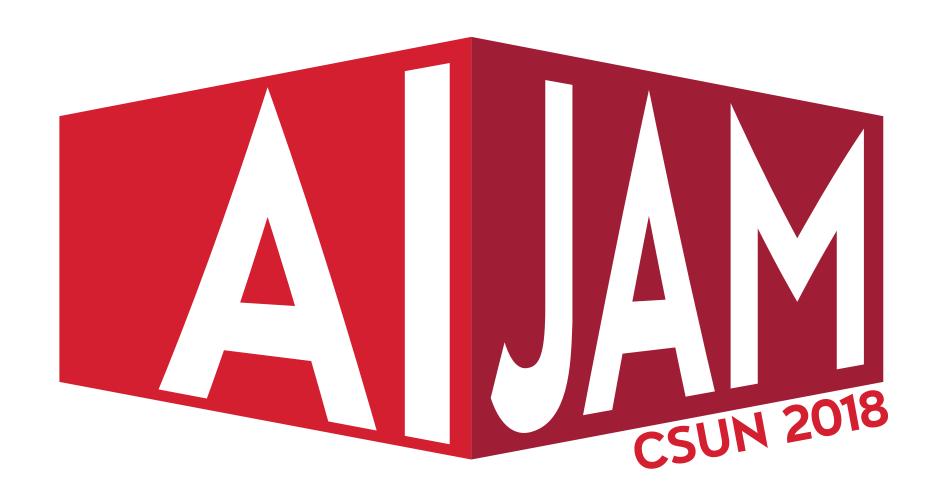






Al-Jam Was Built on Past CSUN Jams





ARTIFICIAL INTELLIGENCE (AI) COMPETITION

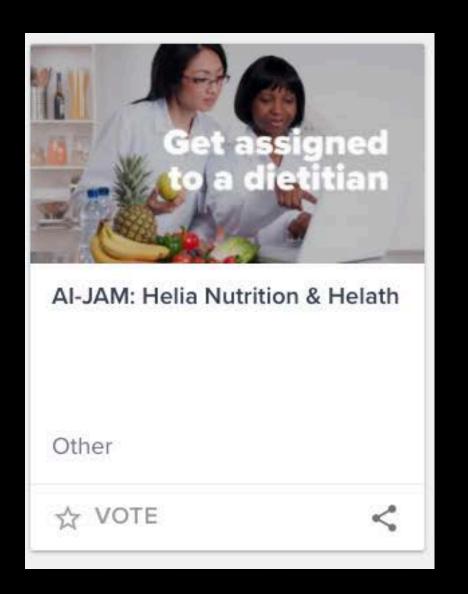
Learn about AI and apply your knowledge to creatively solve a problem.

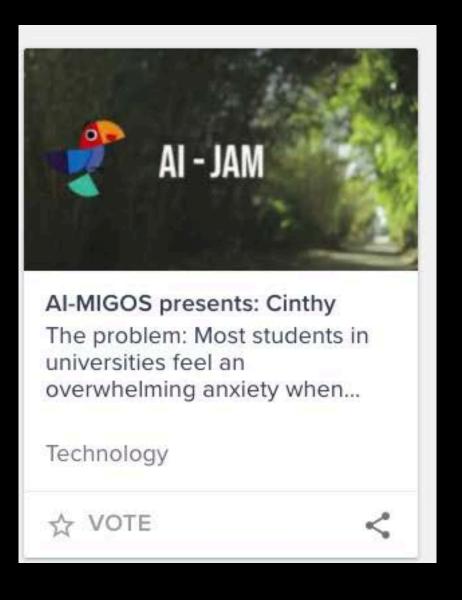
OPEN TO ALL CSUN STUDENTS

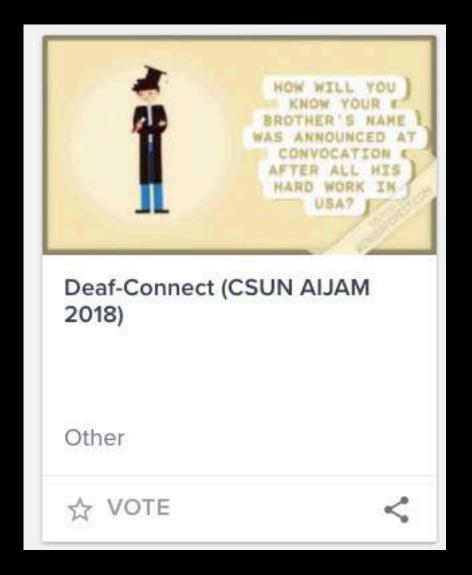
Apply by March 2 at csun.edu/it/ai-jam

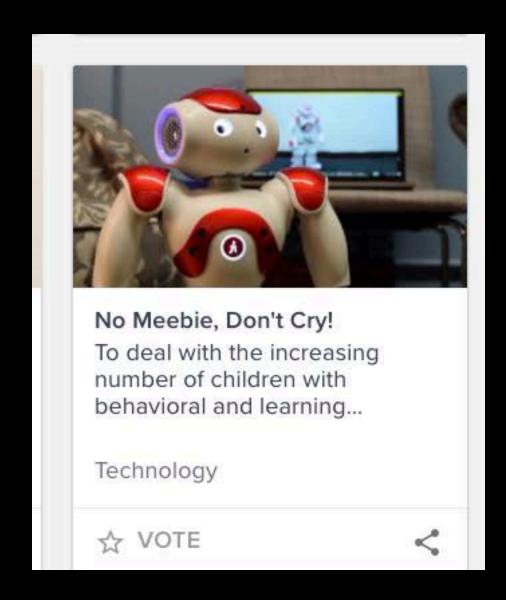


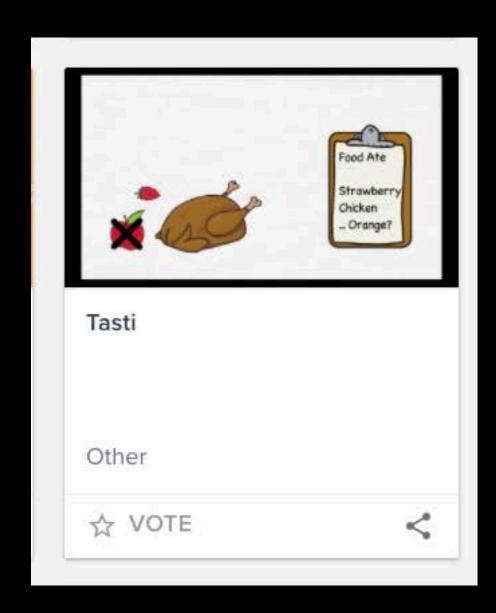


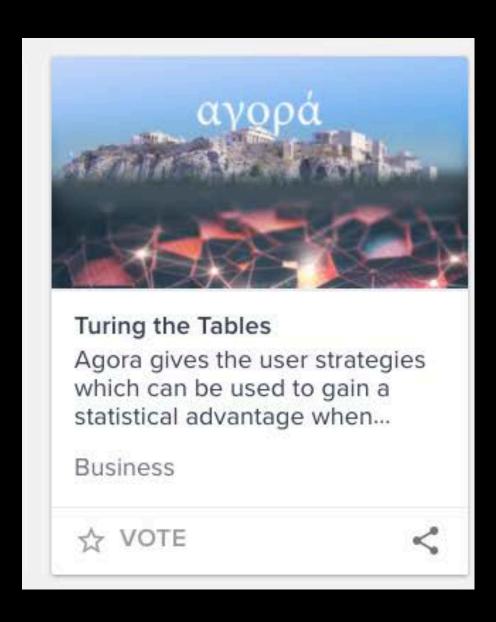












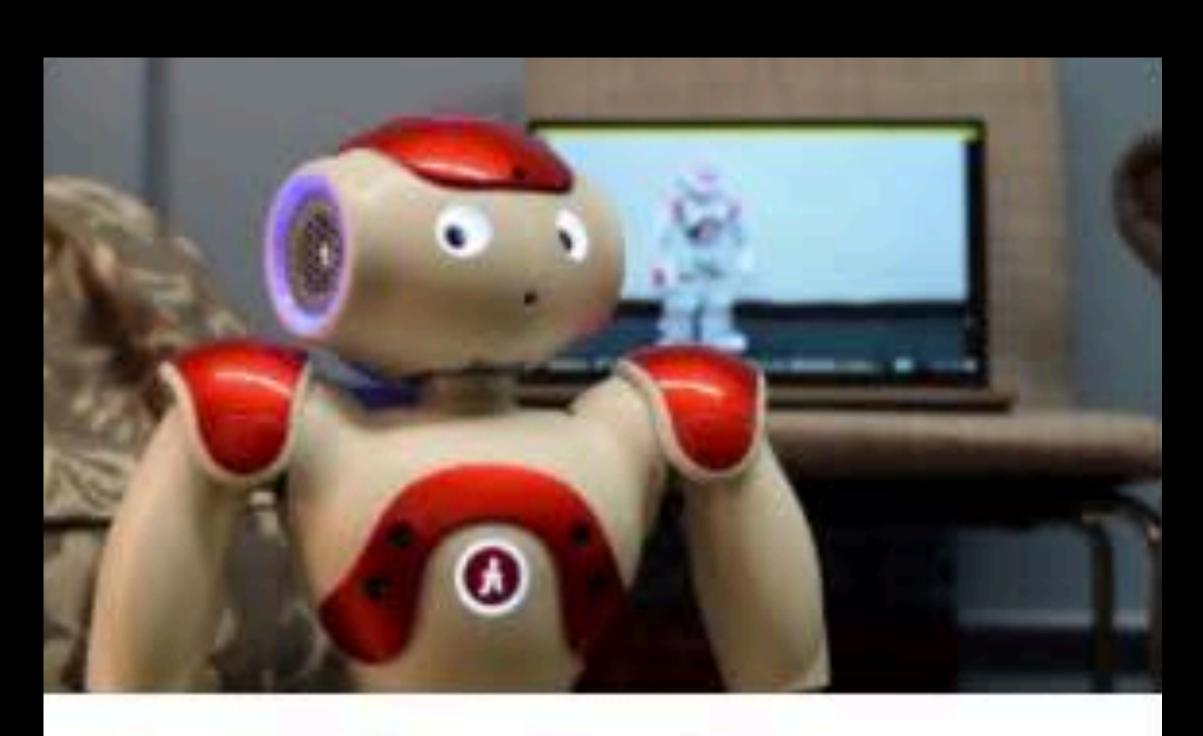
All Entries Posted on Portfolium







Winning Entries



No Meebie, Don't Cry!

To deal with the increasing number of children with behavioral and learning...



Al-MIGOS presents: Cinthy

The problem: Most students in universities feel an overwhelming anxiety when...



So, What Did We Learn About Al at CSUN last year?

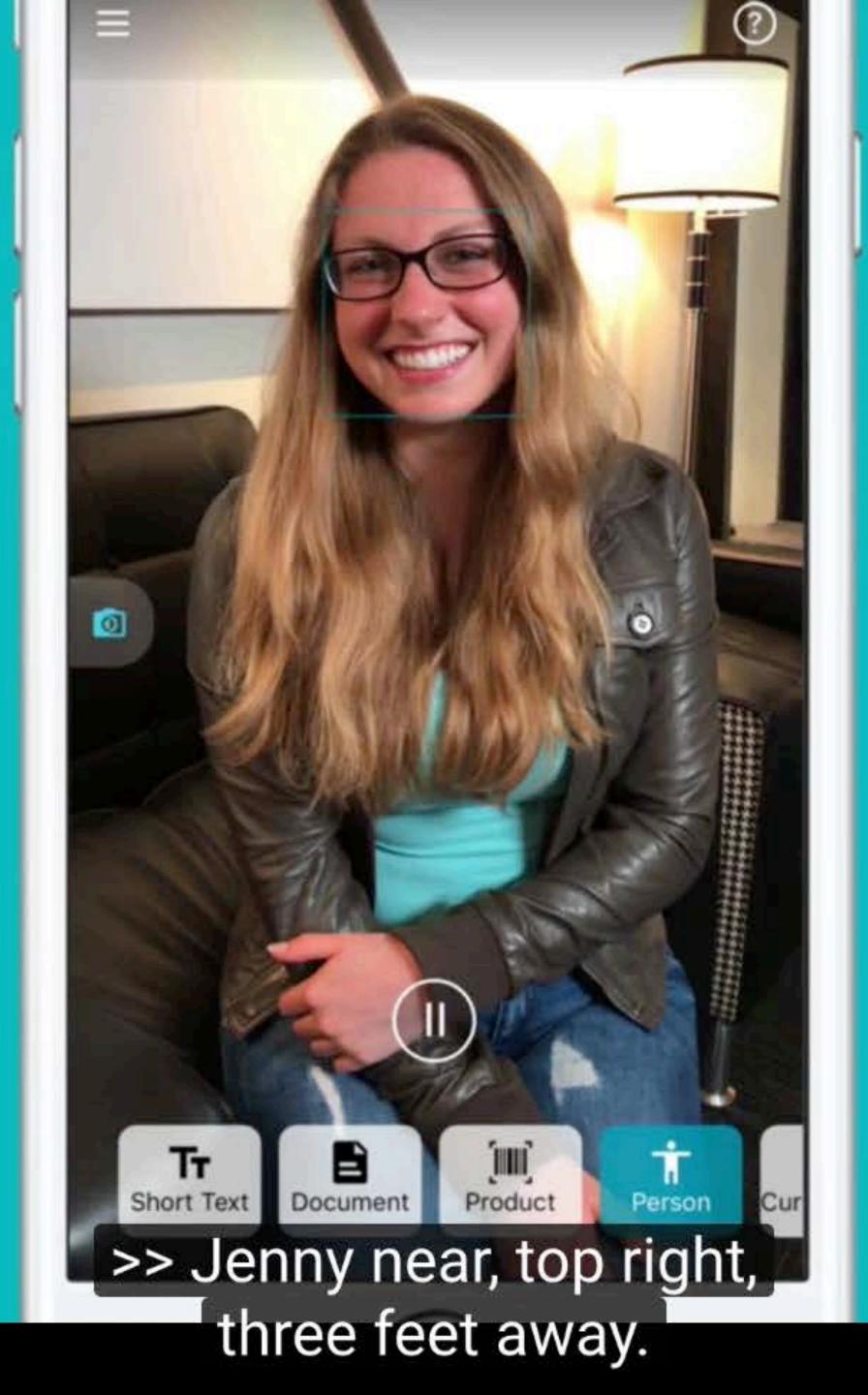
- Al applications for all disciplines
- Some faculty already getting involved with Al
- Students want to invent with Al
- Faculty ready to expand Al in research

What's Next for Innovation at CSUN?



Alx continues at CSUN

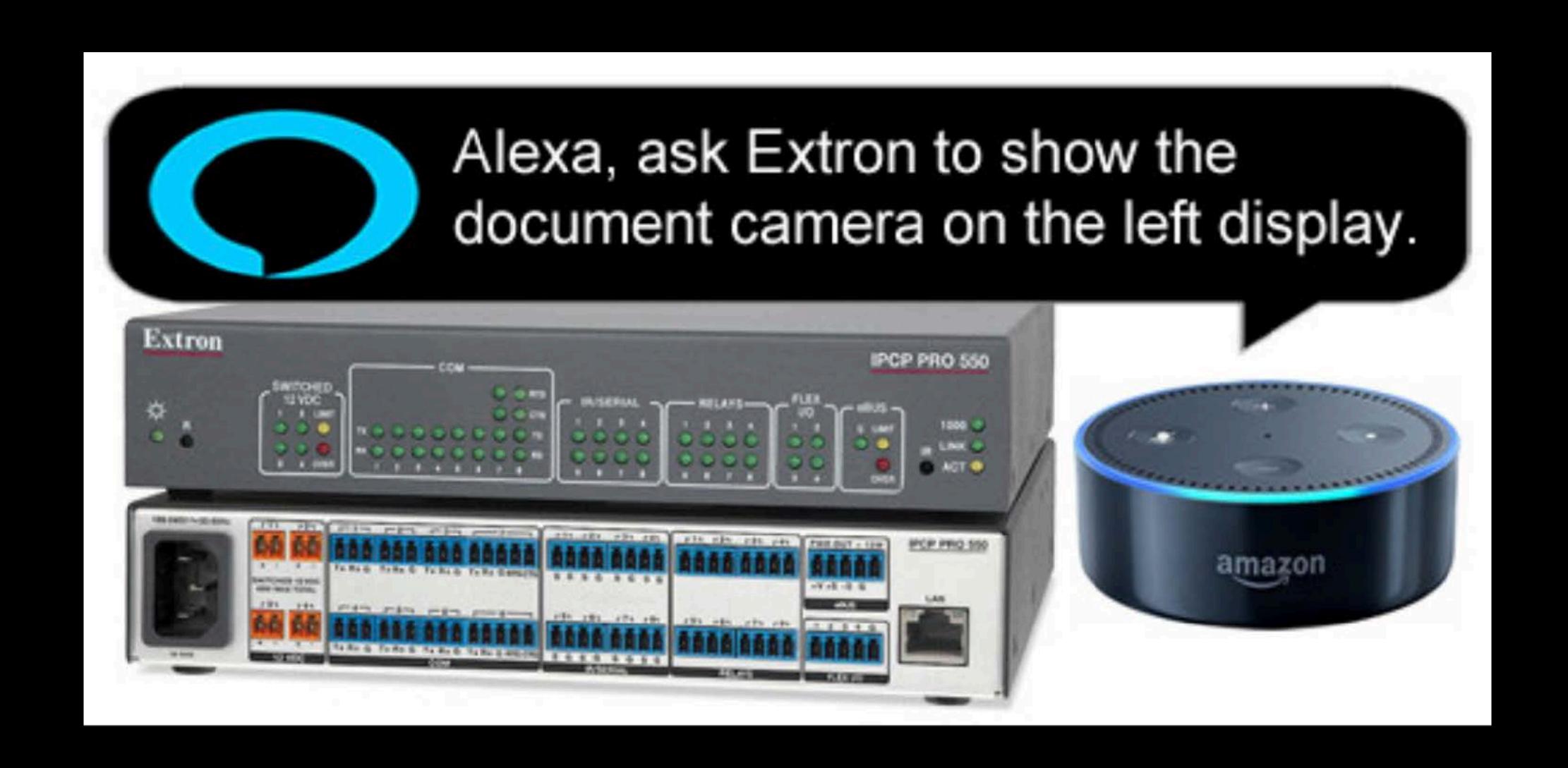
- Al for Assistive Technology
- Wirtual Assistants in the Classroom
- Wirtual Tutors



Exit full screen



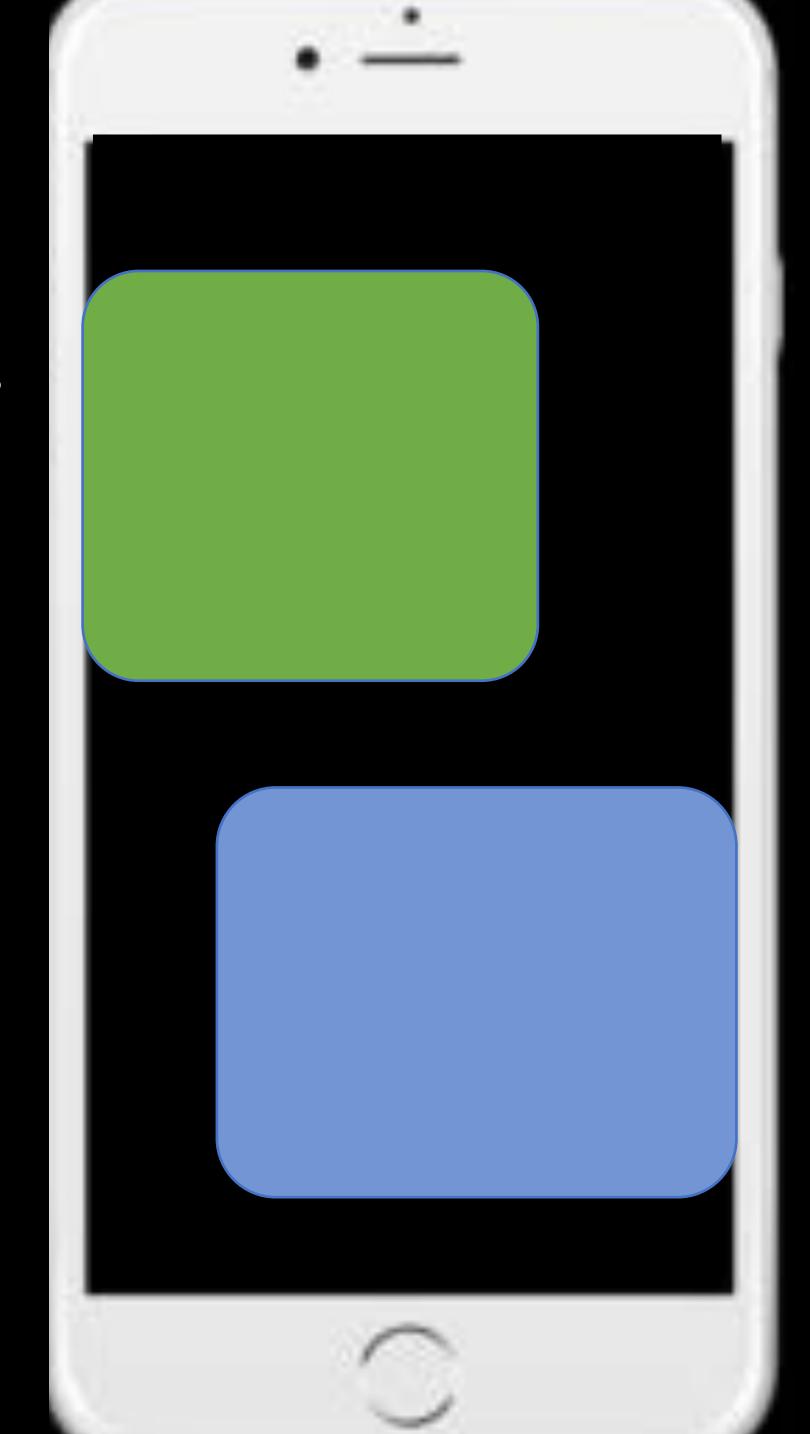
Virtual Assistants in Classroom



Virtual Tutor Ideally Knows When To...

- Ask questions
- Be experiential
- Decipher nonsensical questions
- Link to prior knowledge
- Provide an analogy

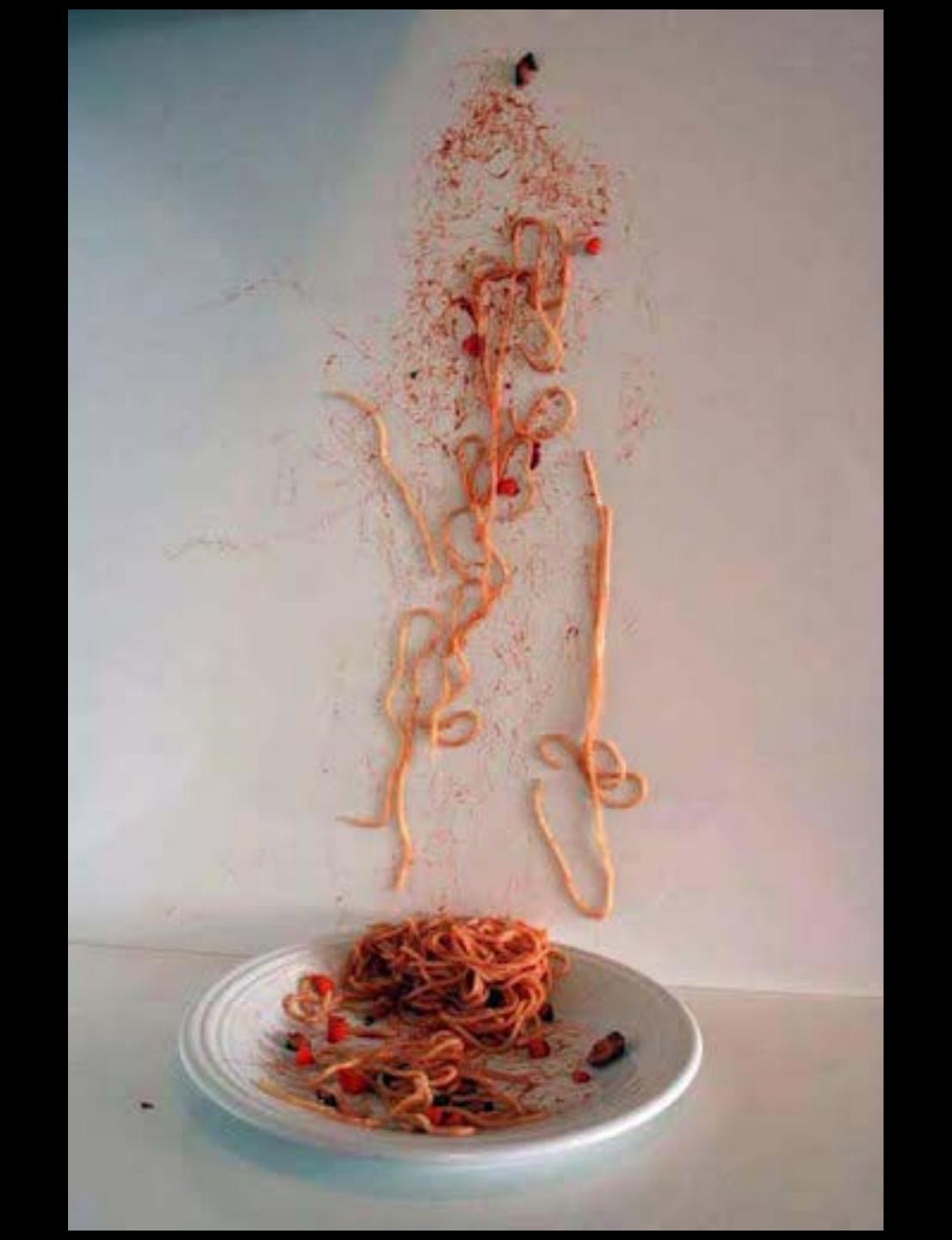
Mariano Loza-Coll, Ph.D. Biology





LESSONS DE LEARNED

Innovation - seeing what sticks!



Select Innovative Efforts Strategically



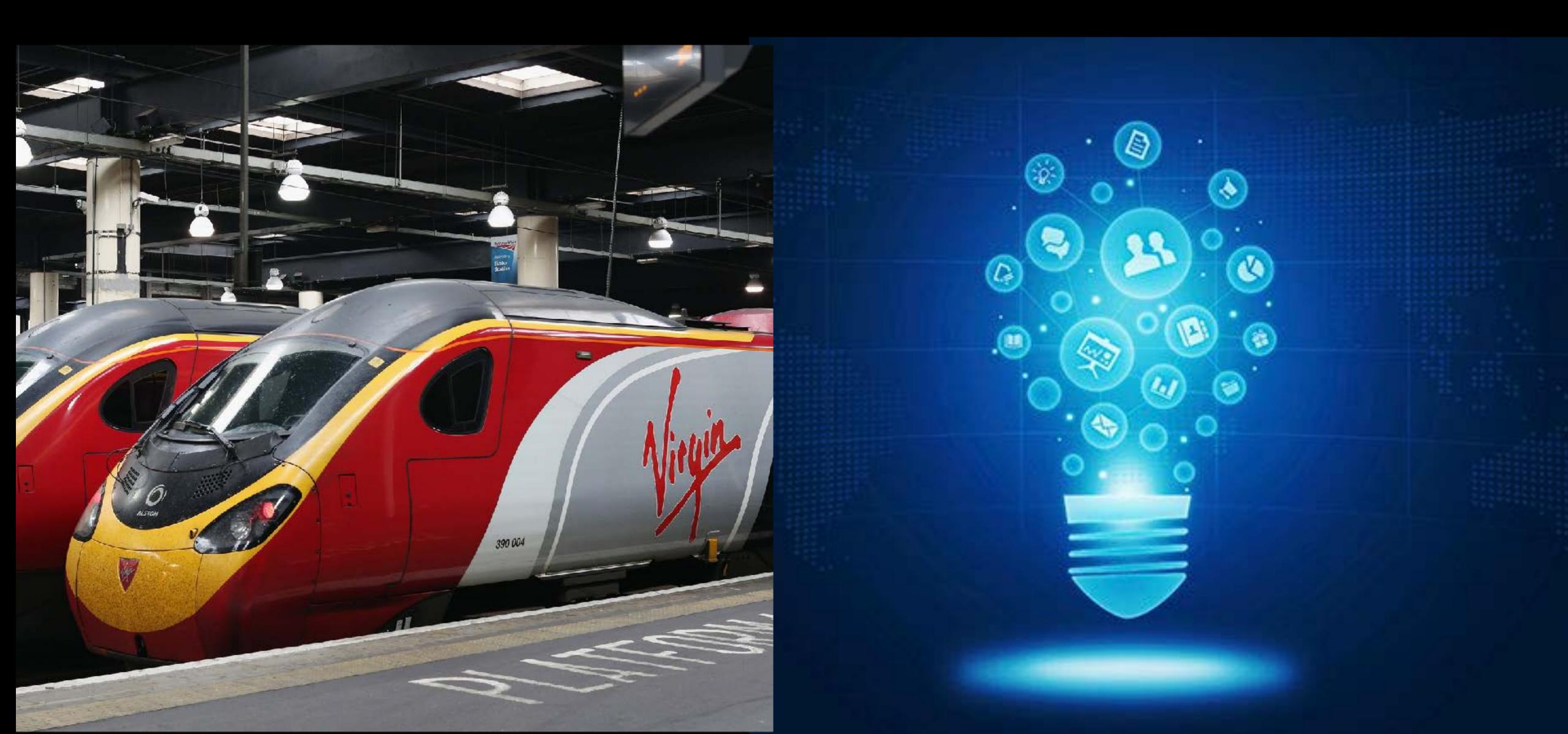
• Consider your campus culture

Align with
 University goals

Innovation is risky, some will fail

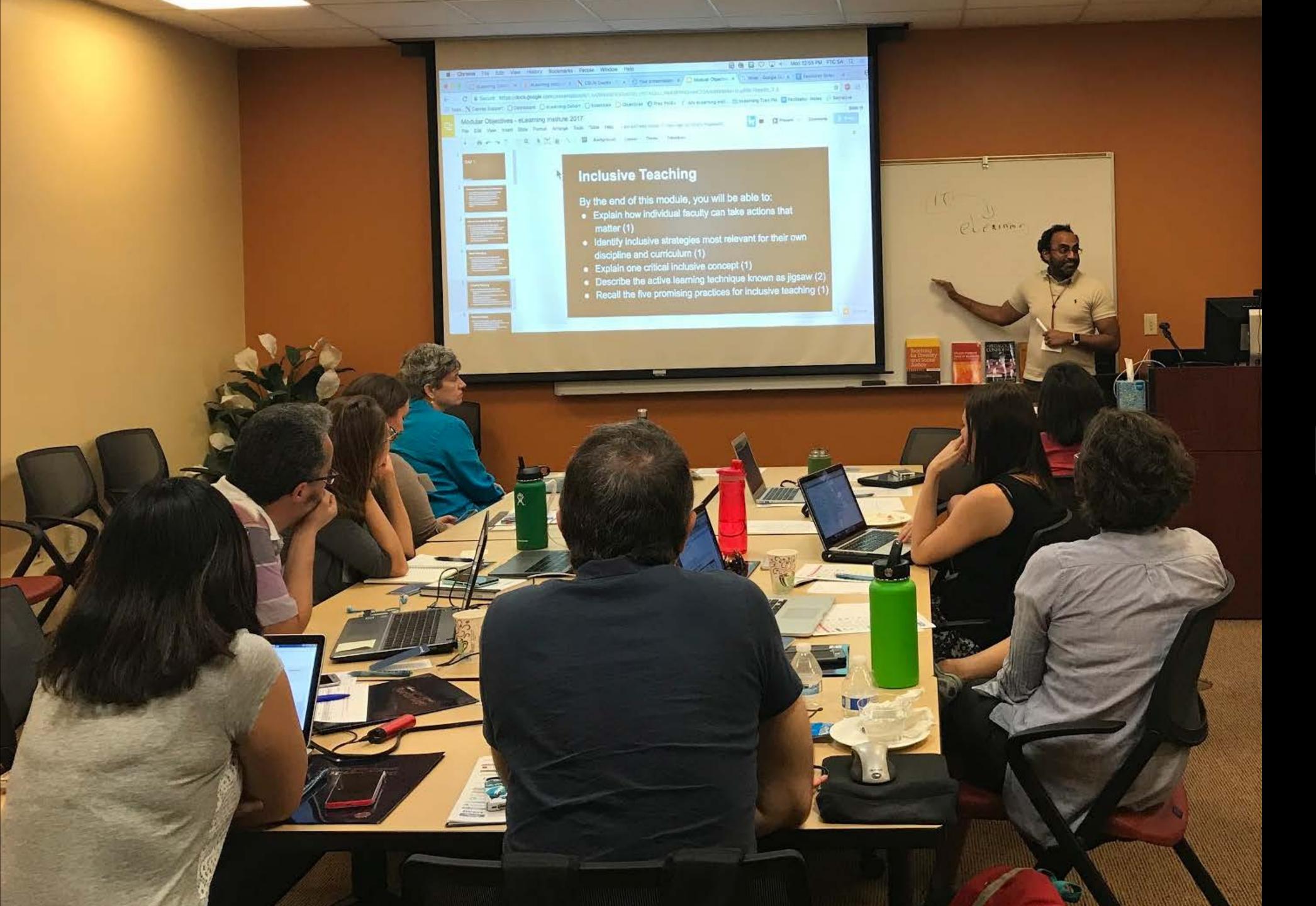


Status Quo versus Innovation Balance



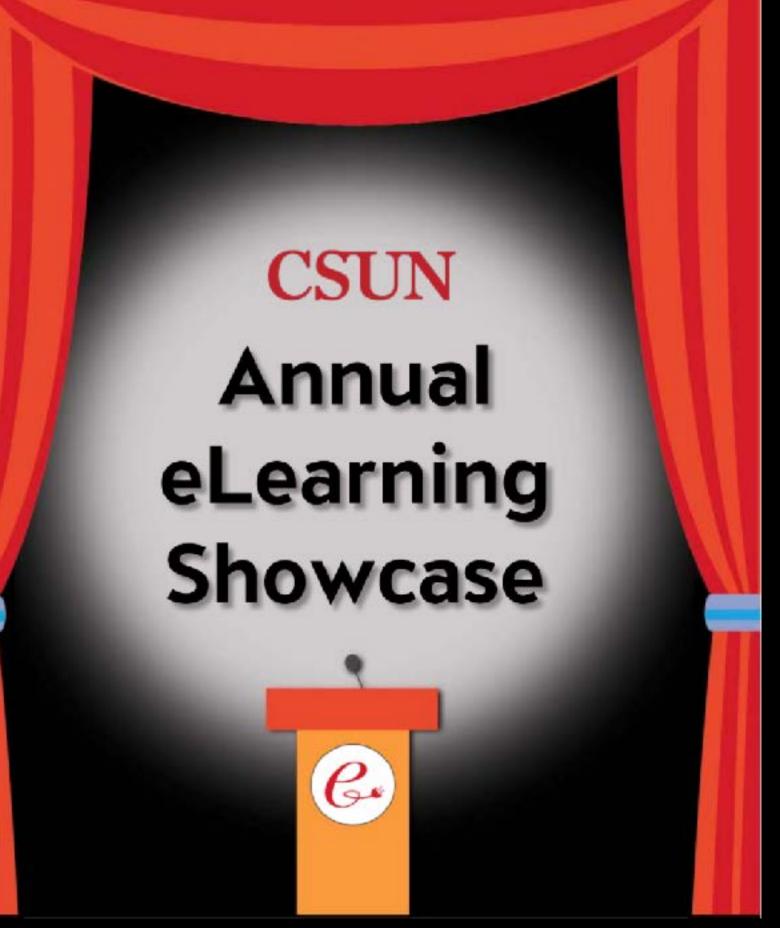
Funding





People







It
Takes

a
Village



It Takes

a
Village
Campus

Opportunities for Enabling Innovation

