Personalized AI & Open Platforms A Transformative Technology for SDG #4: Quality

Education for All

Dr. Cynthia Breazeal MIT Media Lab, Personal Robotics Group Founder & Chief Scientist, Jibo Inc.





United Nations Presentation Transformative Technologies for SDGs



- Intelligent digital assistants. Multi-billion dollar strategic investment of high-tech companies.
- Personalization. Scalable individualized attention.
- Cloud connected devices. Enables Al assistants to engage people wherever & whenever.
- **Big data**. Necessary for AI assistants to learn, personalize, and improve.
- Platforms + Developer Communities. Al-powered assistance built into developer platforms to accelerate broad application + rapid proliferation.

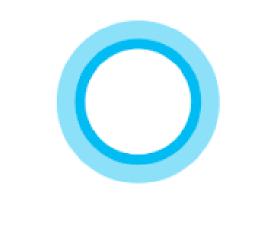
http://www.bloomberg.com/news/articles/2016-05-18/google-shows-off-ai-to-keep-up-with-facebook-amazon-apple











Hi, I'm Cortana.





Reimagine how we might educate children where traditional methods continue to fall short

INADEQUATE SCHOOLS



NO SCHOOLS **OVER-CROWDED** SCHOOLS

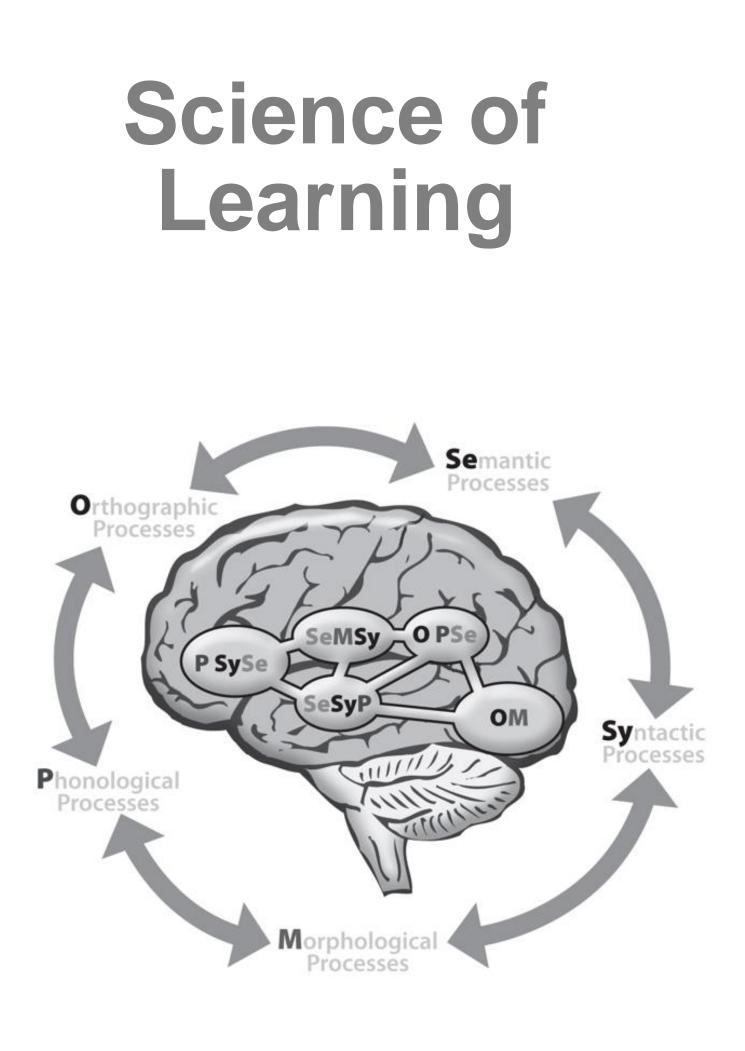


Can we Achieve Universal Literacy by 2030?



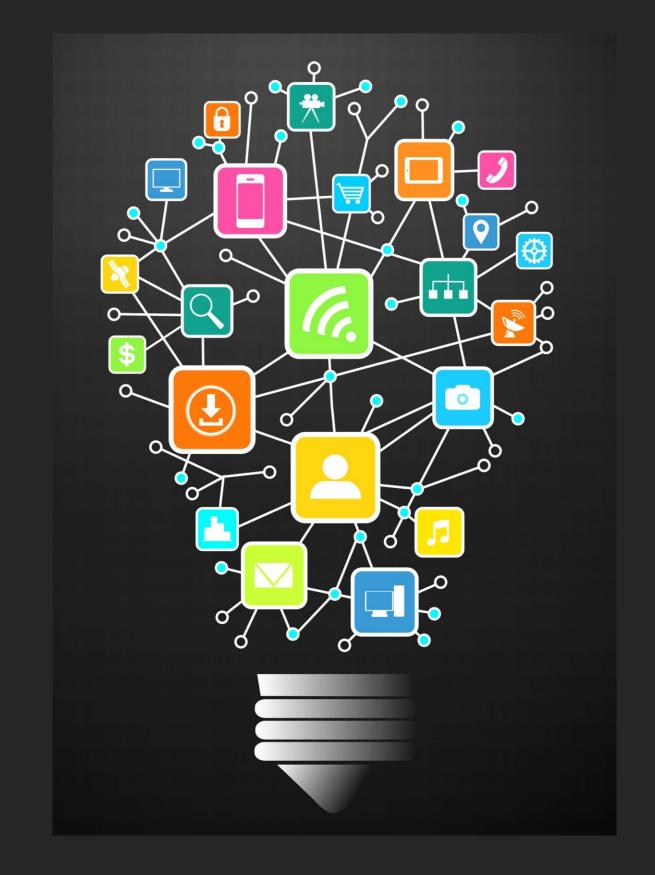
United Nations Presentation Transformative Technologies for SDGs





We understand how the brain learns to read

Data-Driven Innovation



We build intelligent & personalized technologies

Reach of Mobile Computing



We capture big data to understand behavior and adapt interventions



The Power of Platform: A Global "Living Lab" Process



DEVELOPER **COMMUNITY &** CONTENT

\$10M educational apps donated Literacy Apps

Needs & Learnings

Personalized & Adaptive Technology, Improved Content, & Better theories of Learning

SCIENTIFIC

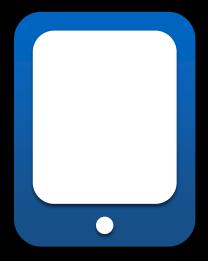


World Class Institutions in Science and Technology Innovation

CURIOUS LEARNING **Open Platform**



Data & Learning Outcomes



GLOBAL DEPLOYMENTS

Share Data & Results from Globally Fielded Studies

"Collaboratories" with Stakeholders in **7** Countries

RESEARCH & INNOVATION GeorgiaState University





ENGAGE, MEASURE, ASSESS



REMOTE VILLAGE ETHIOPIA

SOCIAL & COLLABORATIVE



DAYCARE UGANDA SLUM

United Nations Presentation Transformative Technologies for SDGs

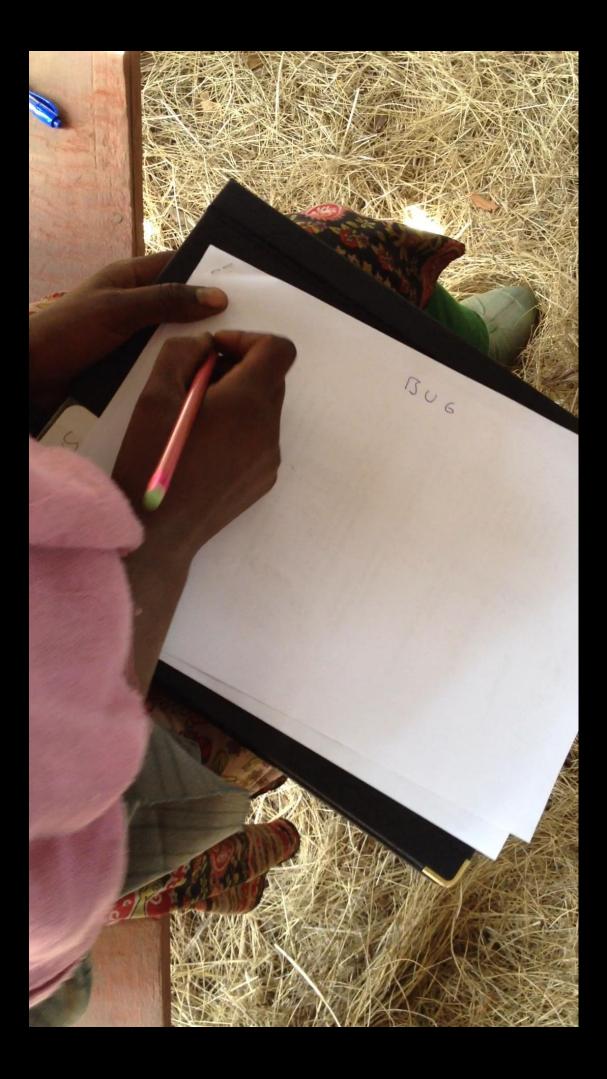






Children in remote villages with no access to school.

After 1-year deployment.

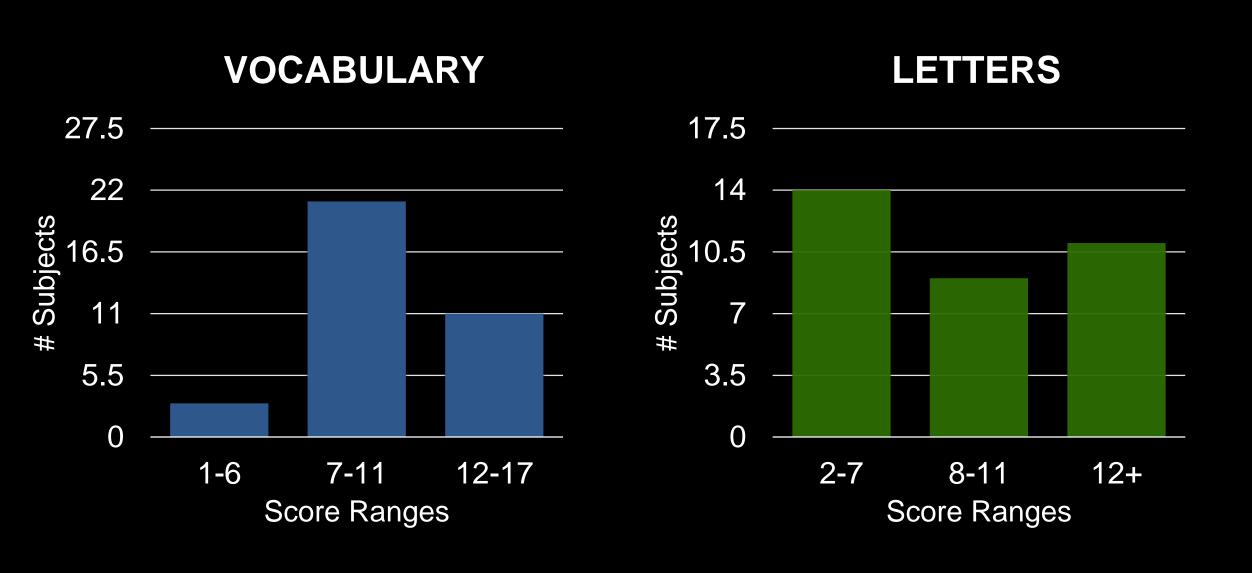


United Nations Presentation Transformative Technologies for SDGs



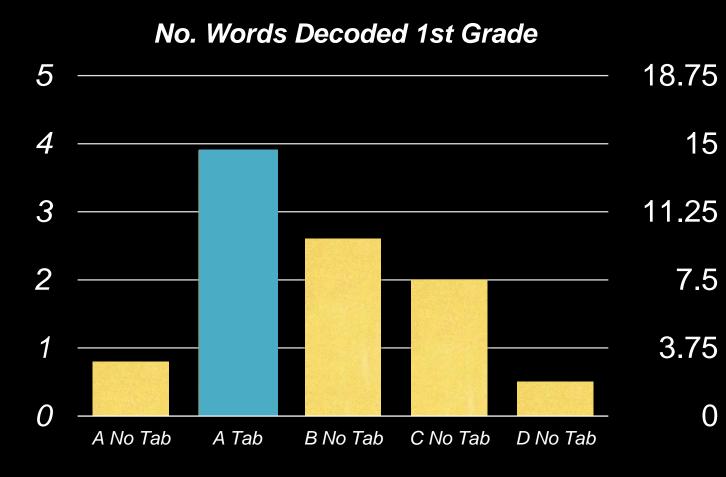




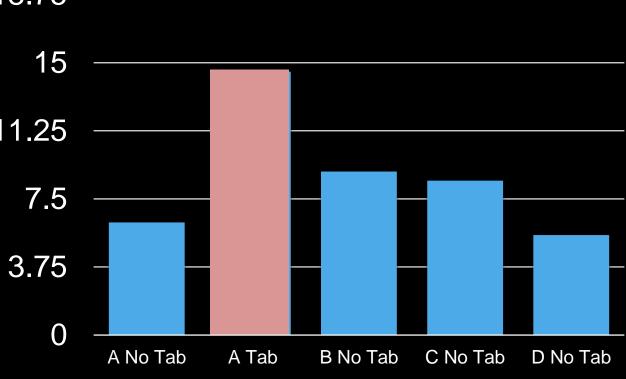












United Nations Presentation Transformative Technologies for SDGs



Invest in and galvanize global efforts to create an Open Digital Education Platform. Leverage the global community of scientists, innovators, technologists, stakeholders to help solve SDG #4.

Embrace the iterative, data-driven process of digital innovation for effective interventions that are scalable, affordable, rapidly deployable.

Derive solutions and best-practices in the context of "living labs" with stakeholders around the world.

Empower children with no access to school to learn. Boost learning gains for those in school and beyond school.