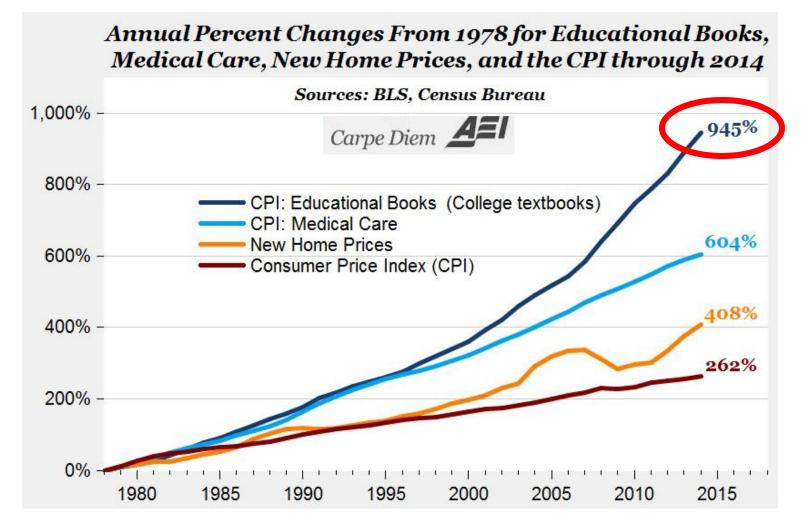


openstax™

Richard Baraniuk



economics gone awry



 \$400 textbooks \$1.2T in student debt

open textbooks

- College textbook publisher
 - professional-quality
 - peer-reviewed
 - turn-key adoptable
 - free, open-source
 - non-profit





- Venture philanthropy funding model
- Launched in 2012
- Builds on active tech development since 1999

GATES foundation

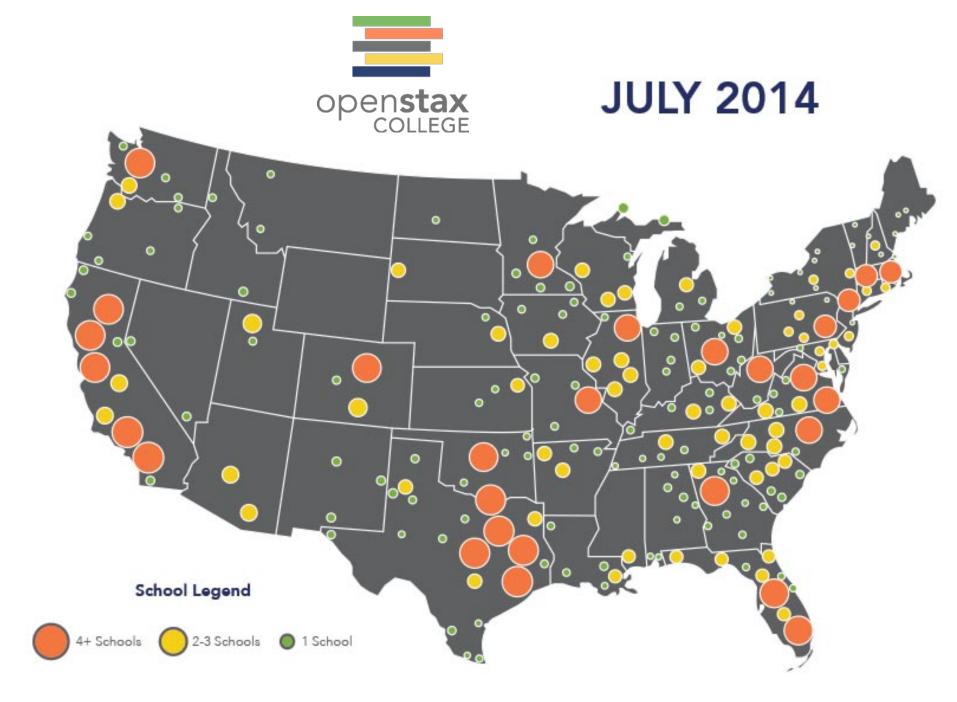
BILL& MELINDA

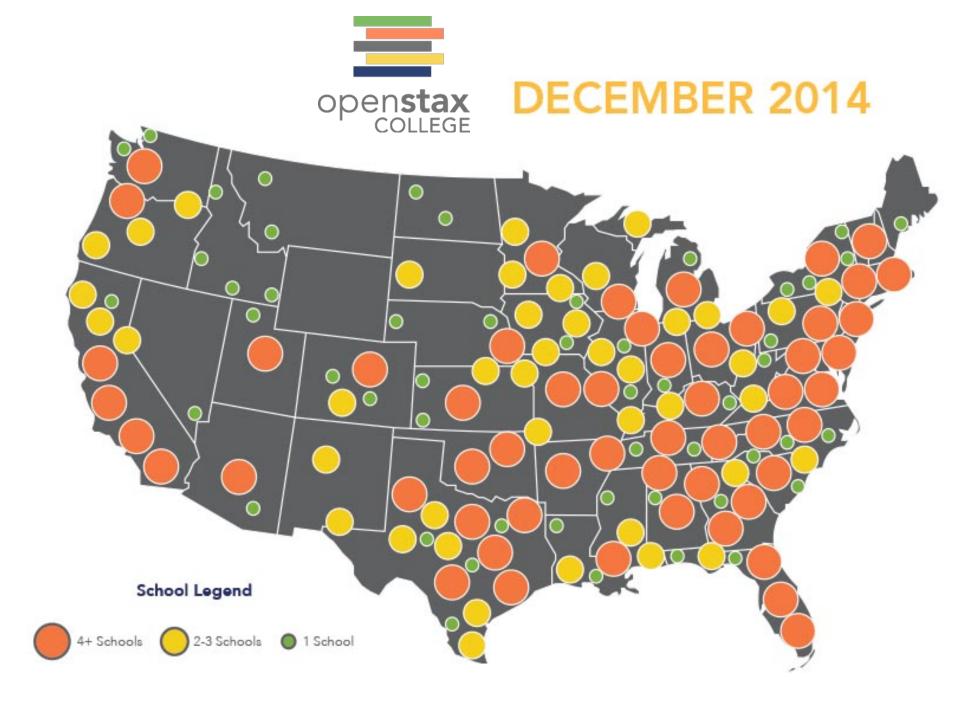












progress across US

- open**stax**
- 2300 adoptions at 1300 institutions, saving 650,000 students over \$63M
 - hundreds of community colleges and high schools but also Stanford, Princeton, Ohio State, U Georgia, U Mass, UT System, Rice, ...

Soci-

economics

Calc-

ulus

Economics

Ala-

Precalc-

ulus

Phys-

Psych ology

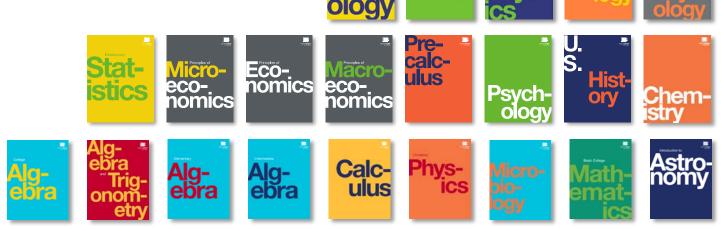
 22% of US degree-granting institutions are using at least one OpenStax text

progress in Texas



 250 adoptions, saving 100,000 students over \$9M

- 52% of Texas degree-granting institutions are using at least one OpenStax text
- Strong uptake in AP and high school courses



sustaining ecosystem



WILEY





nacscorp

RFCT

YOUR SUCCESS IS OUR GOAL

and a second sec

ú iBooks



















inkling

RedShelf

TOP HAT



MyOpenMath





lumen

learning challenges

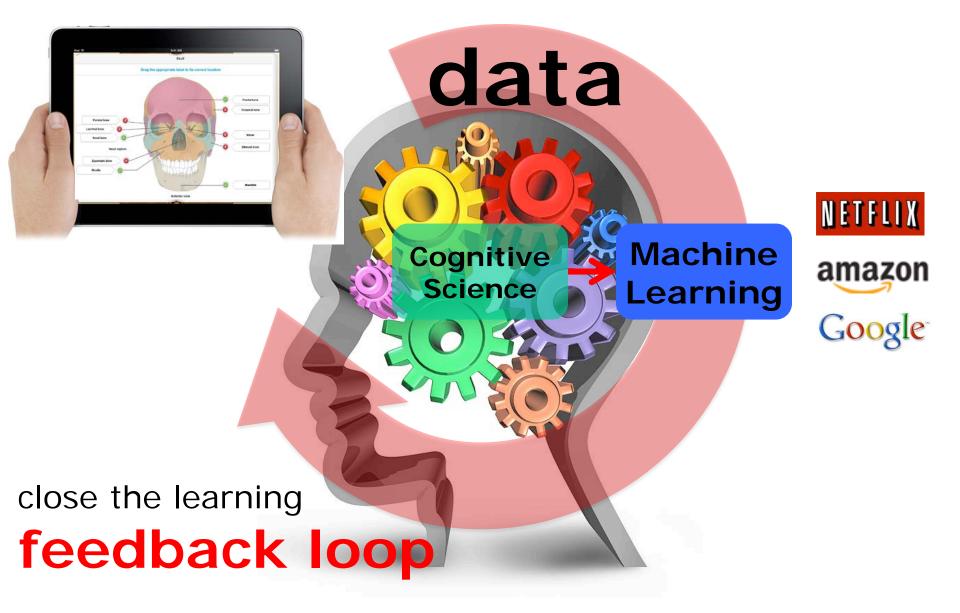
technology to the rescue?

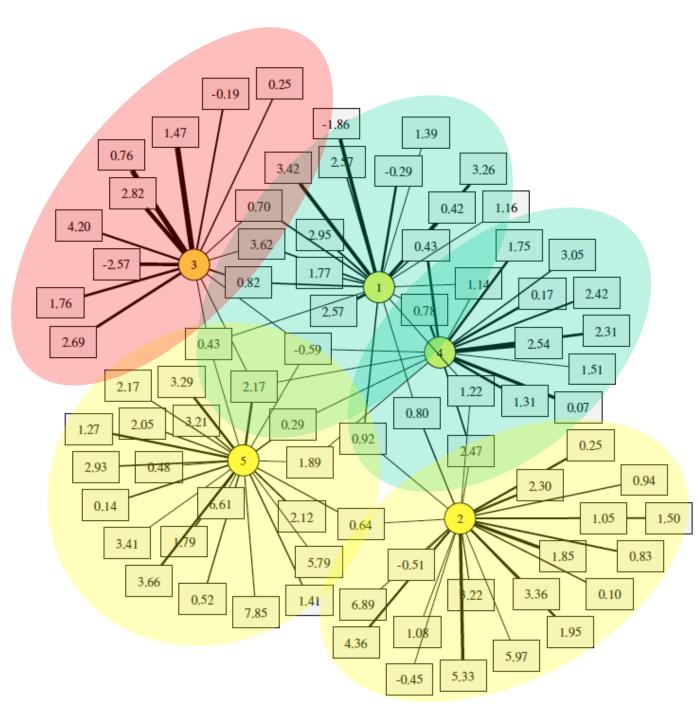




data

close the learning feedback loop







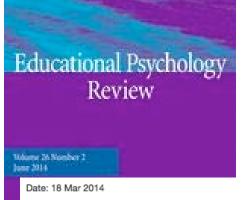






classroom study





 Experiments at Rice 2012-2015 (Engineering)

Integrating Cognitive Science and Technology Improves Learning in a STEM Classroom

Andrew C. Butler, Elizabeth J. Marsh, J. P. Slavinsky, Richard G. Baraniuk

 Findings: Students using OpenStax tools scored 1/2-1 GPA point better than those using standard practice homework









cycles of innovation







cycles of innovation





curriculum (re)design



pe<mark>rson</mark>alized learning tune teaching/ learning model

district/school implementation

big data

learning science research



OpenStaxCollege.org



openstax™

