Higher education after 2021

02021

So what's next?

FUTURIST

What my friends think I do

What society thinks I do

What my clients think I do

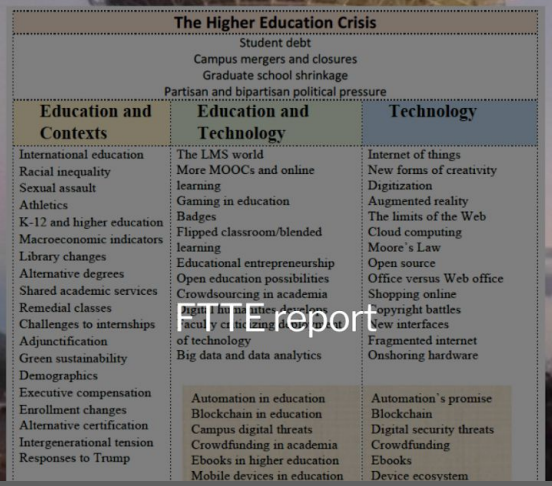
What my family thinks I do

What I think I do

What I actually do

The Future of Education Observatory

An open, multimedia, social, and ongoing exploration of education's transformation



The Higher Education Crisis

Student debt
Campus mergers and closures
Graduate school shrinkage
Partisan and bipartisan political pressure

Education and Contexts	Education and Technology	Technology
International education	The LMS world	Internet of things
Racial inequality	More MOOCs and online learning	New forms of creativity
Sexual assault	Gaming in education	Digitization
Athletics	Badges	Augmented reality
K-12 and higher education	Flipped classroom/blended learning	The limits of the Web
Macroeconomic indicators	Educational entrepreneurship	Cloud computing
Library changes	Open education possibilities	Moore's Law
Alternative degrees	Crowdsourcing in academia	Open source
Shared academic services	Digital identities [illegible]	Office versus Web office
Remedial classes	Faculty [illegible] of technology	Shopping online
Challenges to internships		Copyright battles
Adjunctification		New interfaces
Green sustainability		Fragmented internet
Demographics		Onshoring hardware
Executive compensation	Automation in education	Automation's promise
Enrollment changes	Blockchain in education	Blockchain
Alternative certification	Campus digital threats	Digital security threats
Intergenerational tension	Crowdfunding in academia	Crowdfunding
Responses to Trump	Ebooks in higher education	Ebooks
	Mobile devices in education	Device ecosystem

The report

The blog

Future Trends Forum

http://futureofeducation.us/

Future Trends in Technology and Education

THE HIGHER EDUCATION CRISIS

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Graduate school shrinkage
Partisan and bipartisan political pressure

EDUCATION AND CONTEXTS	EDUCATION AND TECHNOLOGY	TECHNOLOGY
International education Racial inequality Sexual assault Athletics K–12 and higher education Macroeconomic indicators Library changes Alternative degrees Shared academic services Remedial classes Challenges to internships Adjunctification Green sustainability Demographics Executive compensation Enrollment changes Alternative certification Inter-generational tension Responses to Trump	The LMS world More MOOCs and online learning Gaming in education Badges Flipped classroom/blended learning Educational entrepreneurship Open education possibilities Crowdsourcing in academia Digital humanities develops Faculty criticizing deployment of technology Big data and data analytics Maker movement Shared academics Rise of the net generation	Internet of Things New forms of creativity Digitization The limits of the web Cloud computing Moore's Law Open source Office vs. web office Shopping online Copyright battles New interfaces Fragmented internet Onshoring hardware
	Automation in education Blockchain in education Campus digital threats Crowdfunding in academia E-books in higher education Mobile devices in education Social media in education 3D printing in curricula Video and education Virtual reality in education	Automation's promise Blockchain Digital security threats Crowdfunding E-books Device ecosystem Social media 3D printing Digital video Virtual reality

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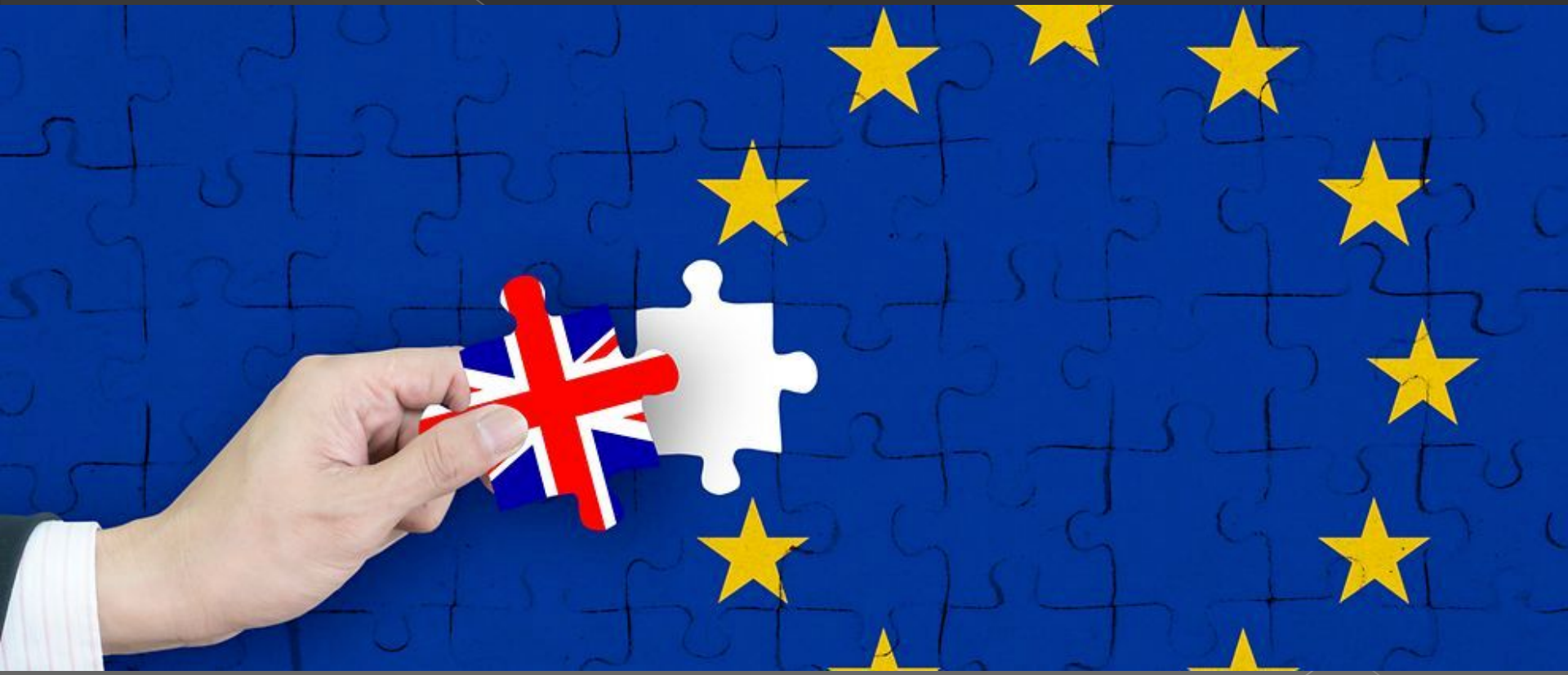
1. What was happening before 2020?
2. What just happened?
3. What might happen next?

What was happening?

Zoom out

https://www.flickr.com/photos/wojtekgurak/3888634497/

National College



Stellenbosch University.

SOUTH AFRICA

Court moves beyond the past in favouring English

Rosemary Salomone 19 October 2019

Share Tweet Share 7

The South African Constitutional Court's recent unanimous decision

Teaching Dutch to Foreign Students

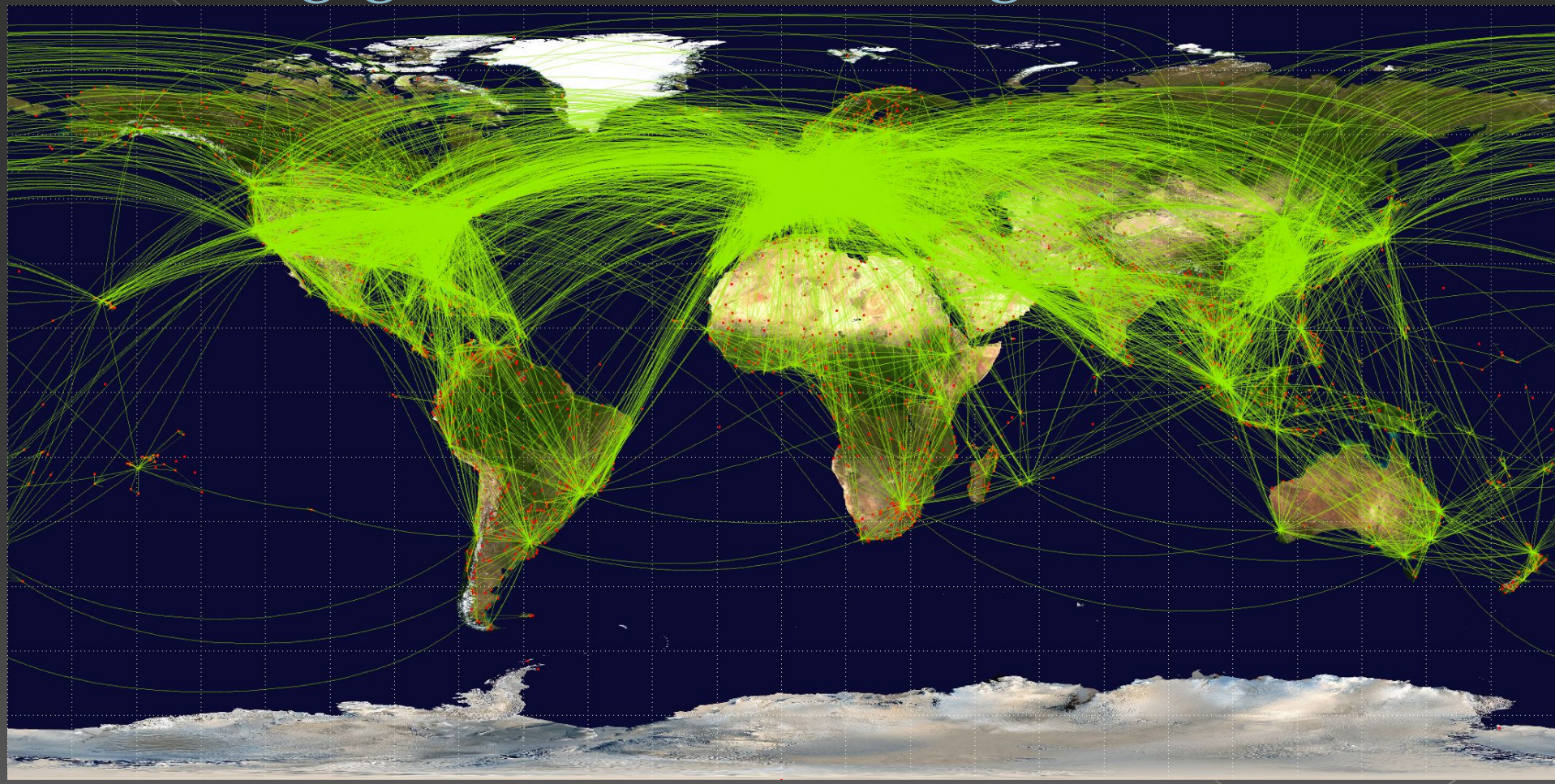
New legislation is not as tough as universities feared, but many say the value of learning English is being undercut.

By David Matthews for Times Higher Education // September 19, 2019 10 COMMENTS

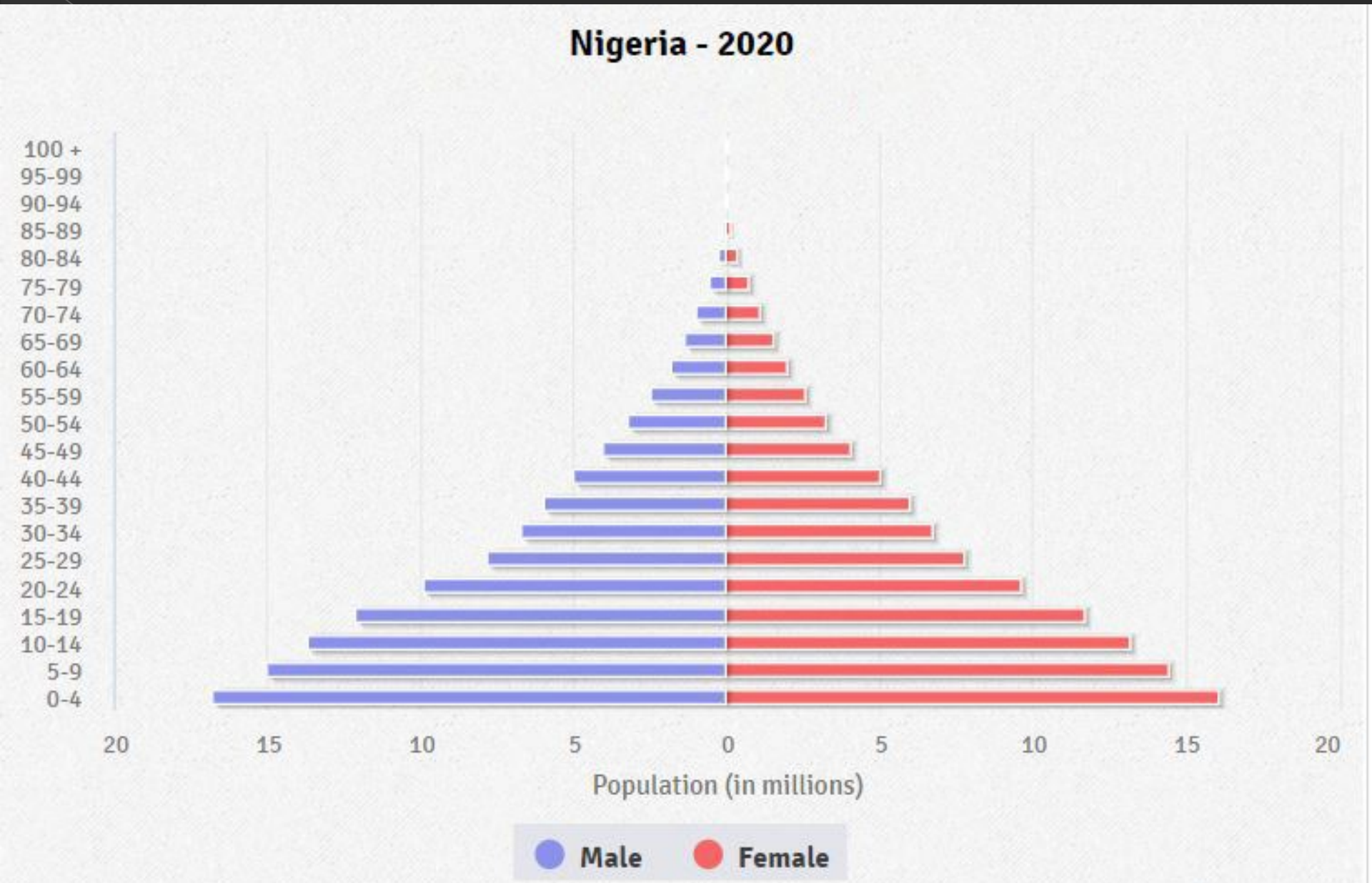
Universities in the Netherlands will have a legal duty of care for their international students' Dutch language proficiency under controversial proposed legislation designed to deal with a rapid growth in foreign admissions and English-only courses.

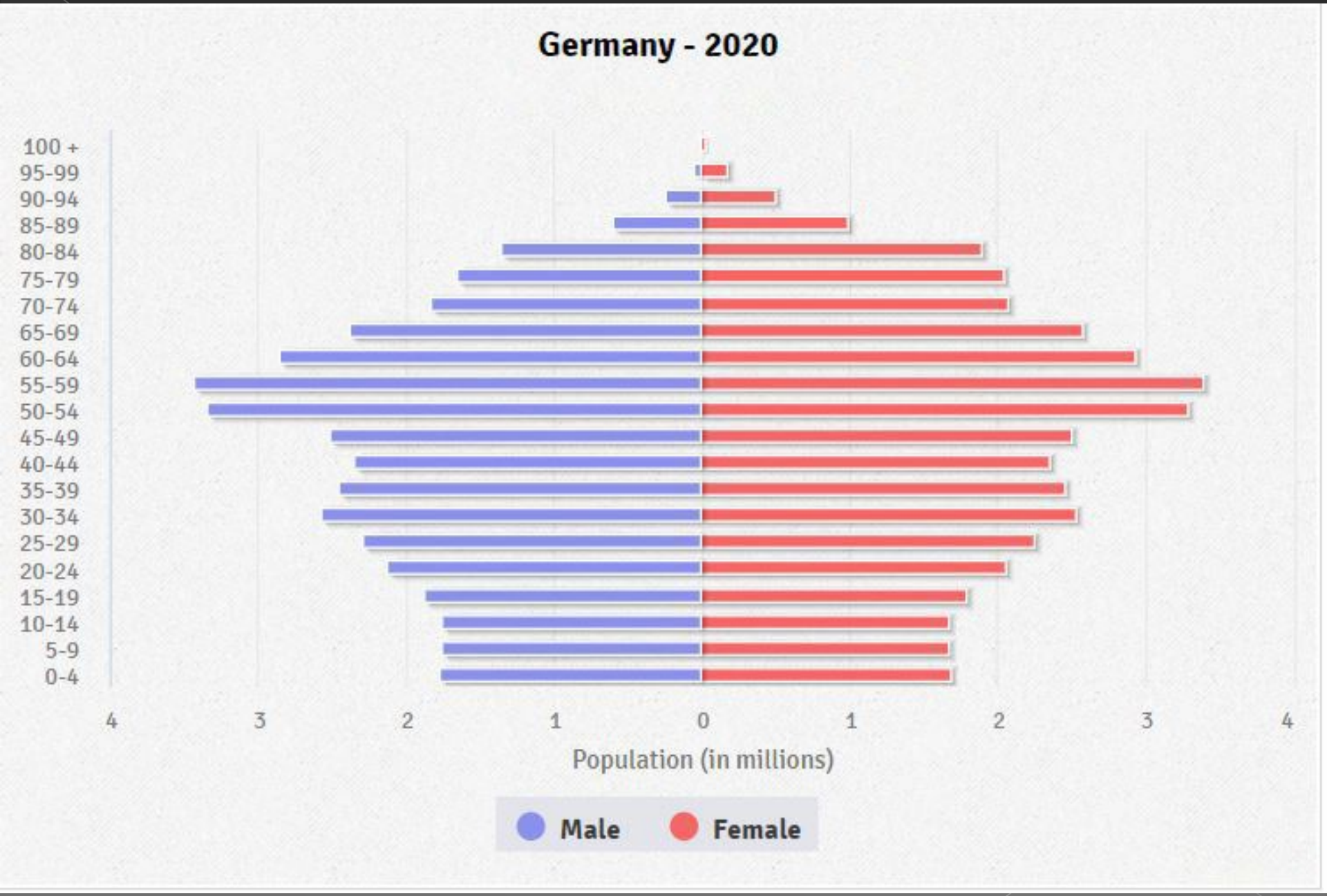
A new bill stops short of mandating that all international students take part of their courses in Dutch,

Pausing globalization of higher education

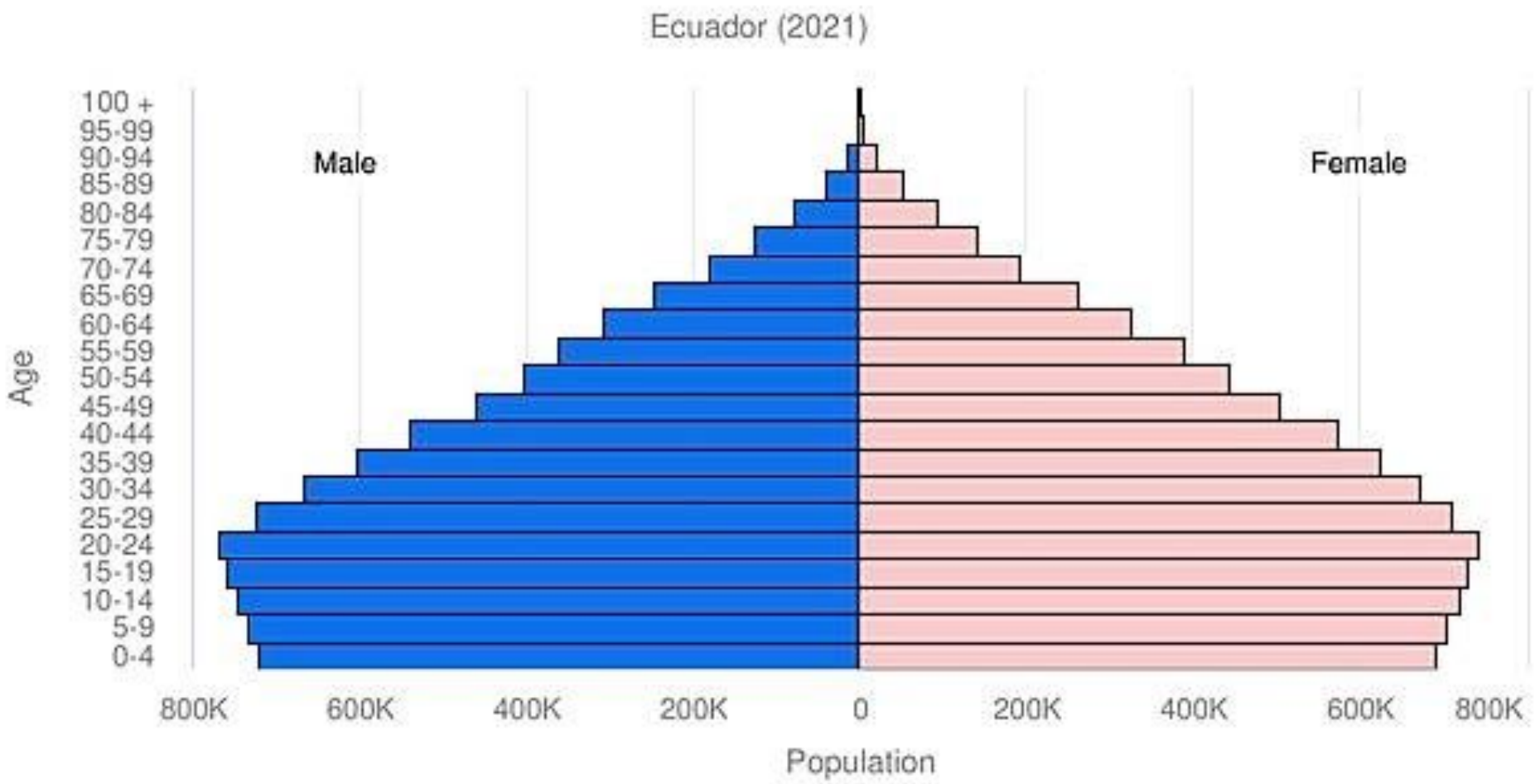


- Uneven; US, Australia hit hard

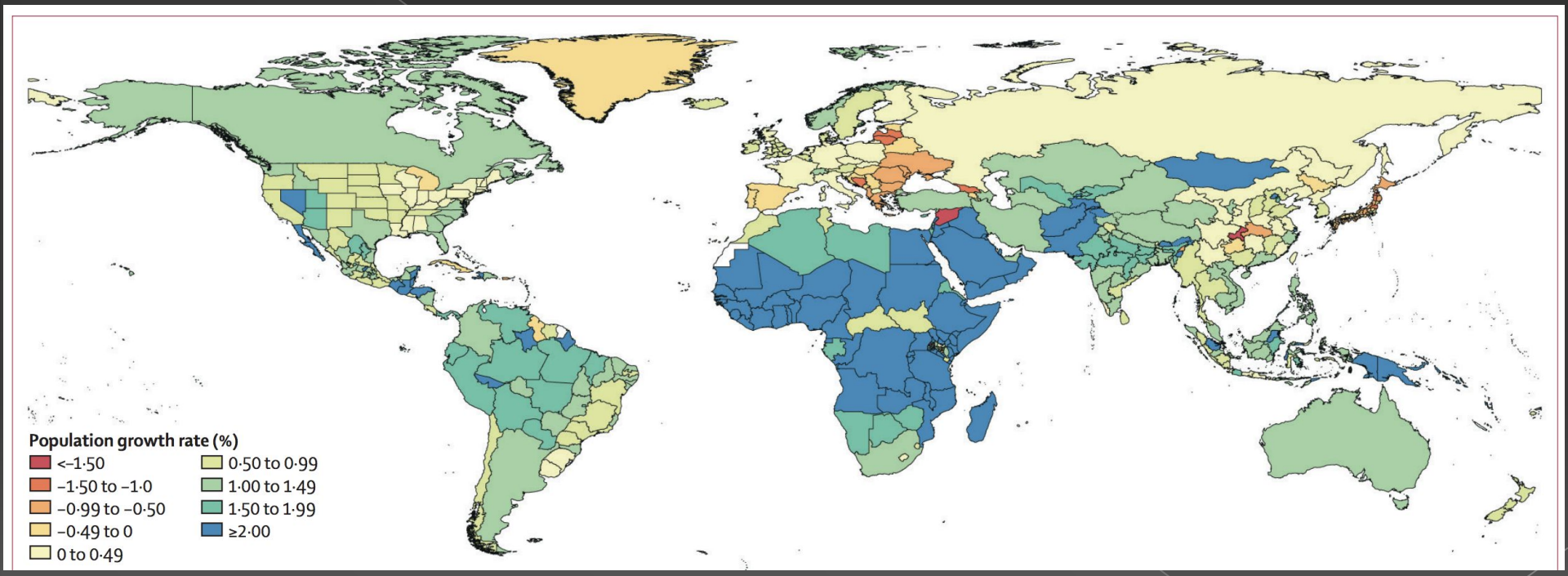

Nigeria - 2020
100 +
95-99
90-94
85-89
80-84
75-79
70-74
65-69
60-64
55-59
50-54
45-49
40-44
35-39
30-34
25-29
20-24
15-19
10-14
5-9
0-4
20
15
10
5
0
5
10
15
20
Population (in millions)
Male
Female

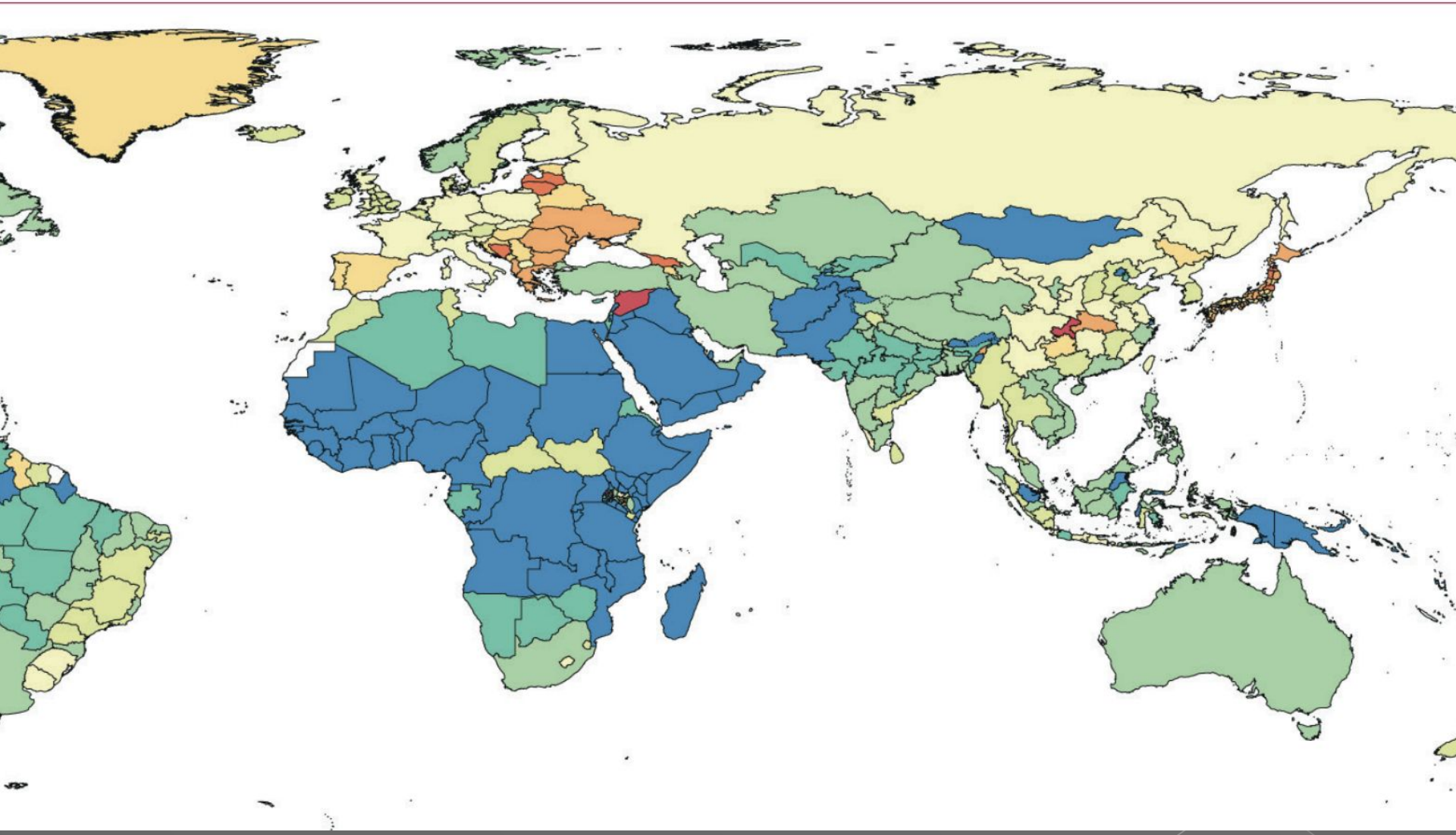

Germany - 2020
100 +
95-99
90-94
85-89
80-84
75-79
70-74
65-69
60-64
55-59
50-54
45-49
40-44
35-39
30-34
25-29
20-24
15-19
10-14
5-9
0-4
4
3
2
1
0
1
2
3
4
Population (in millions)
Male
Female

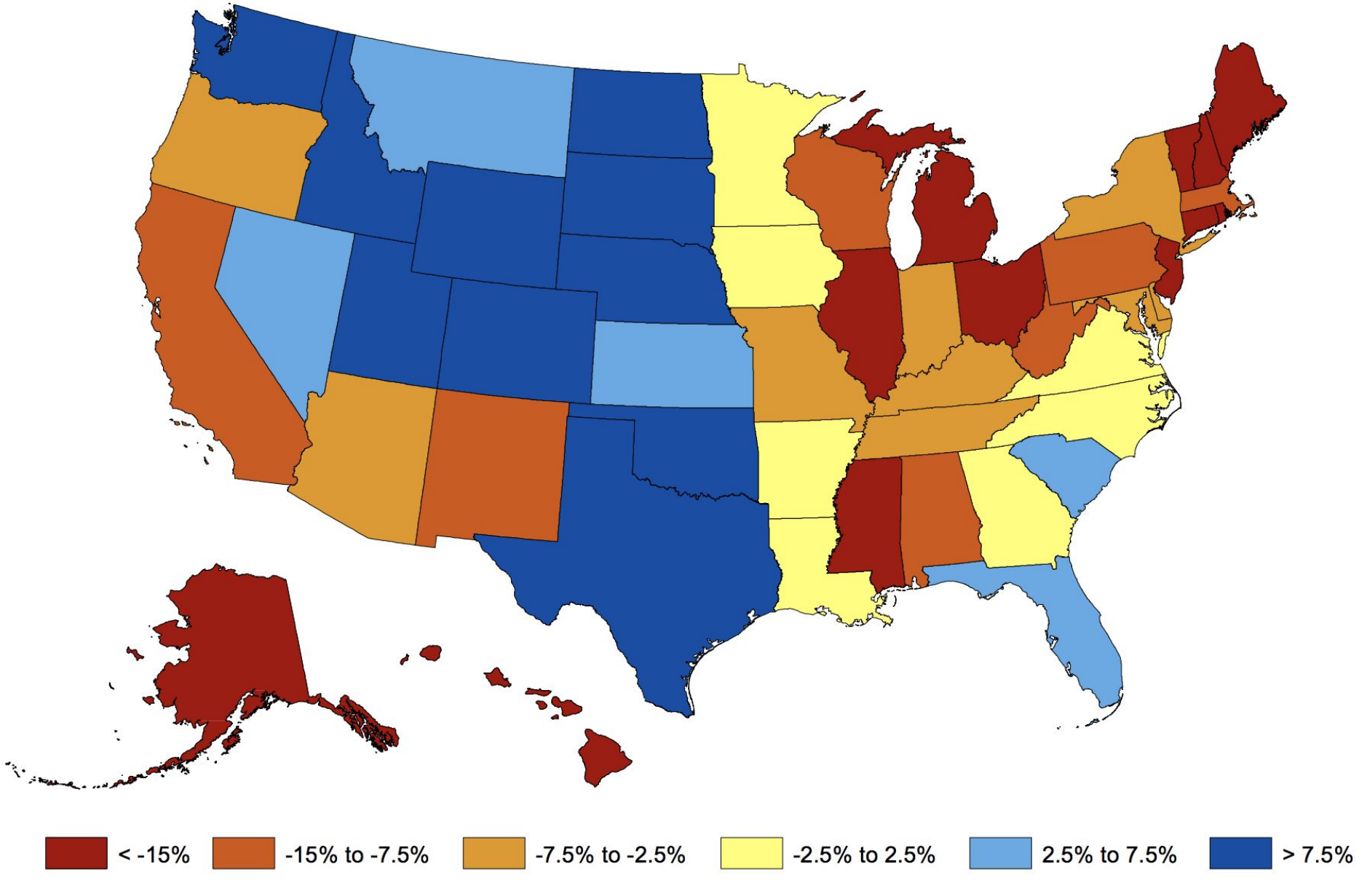
Population Pyramid



U.S. Census Bureau, International Data Base

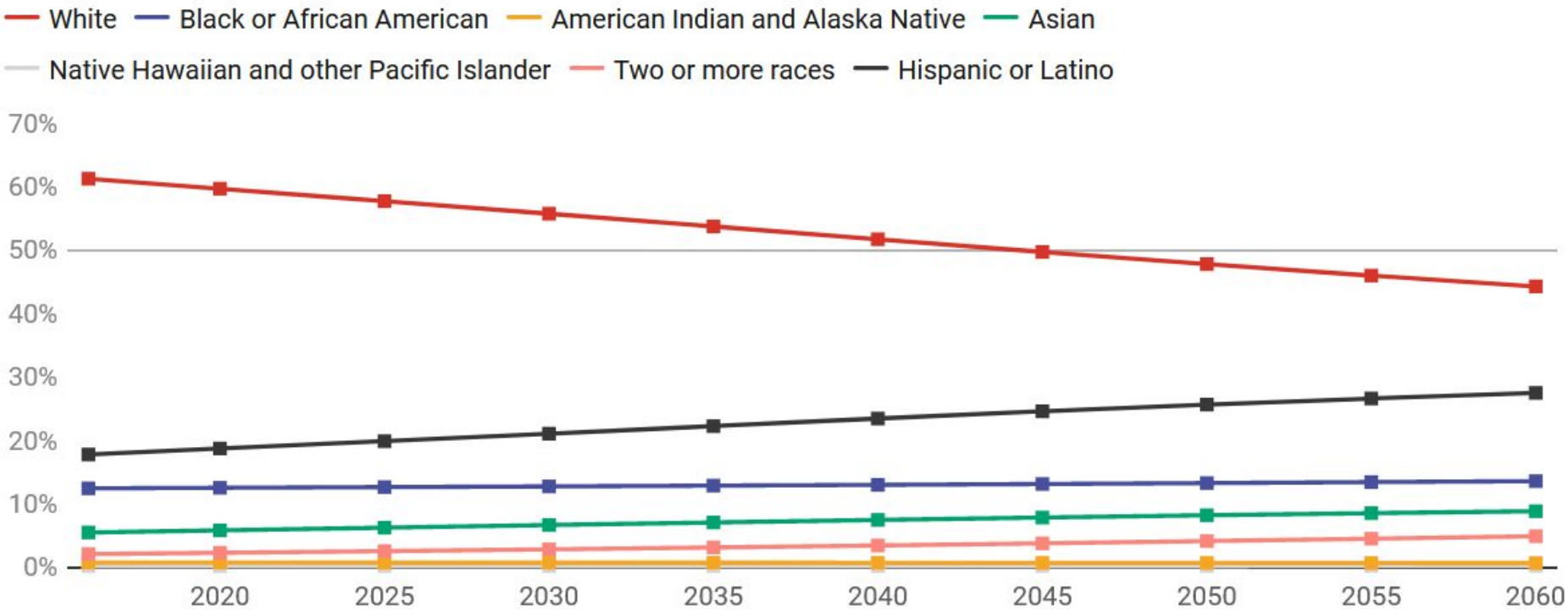

Population growth rate (%)
<–1·50
–1·50 to –1·0
–0·99 to –0·50
–0·49 to 0
0 to 0·49
0·50 to 0·99
1·00 to 1·49
1·50 to 1·99
≥2·00




< -15%
-15% to -7.5%
-7.5% to -2.5%
-2.5% to 2.5%
2.5% to 7.5%
> 7.5%

Projected race/ethnicity breakdown

After 2045, non-Hispanic whites will likely make up less than half of all Americans.



All groups not Hispanic or Latino unless specified otherwise.

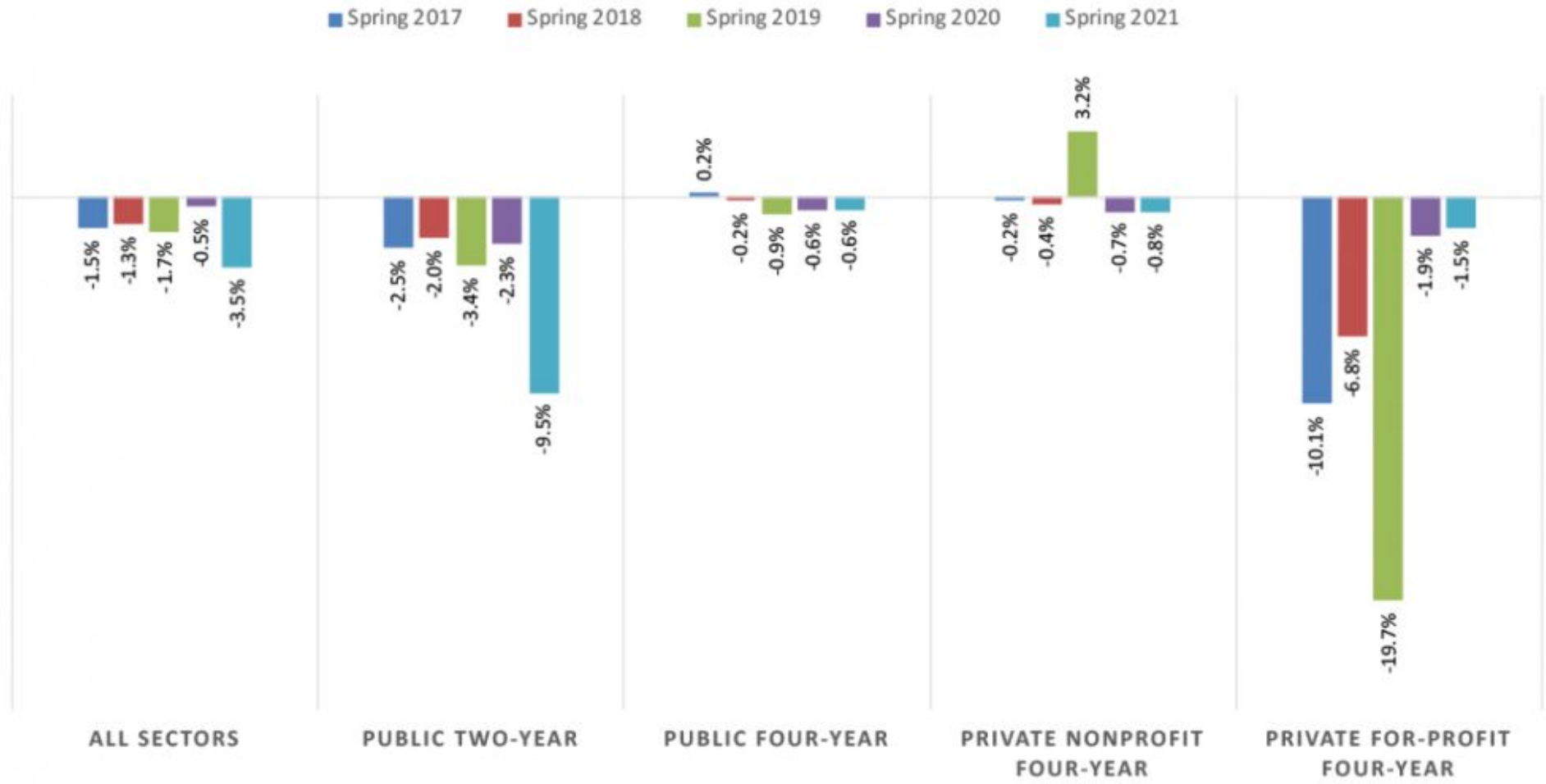
Chart: The Conversation, CC-BY-ND • Source: U.S. Census Bureau • Get the data

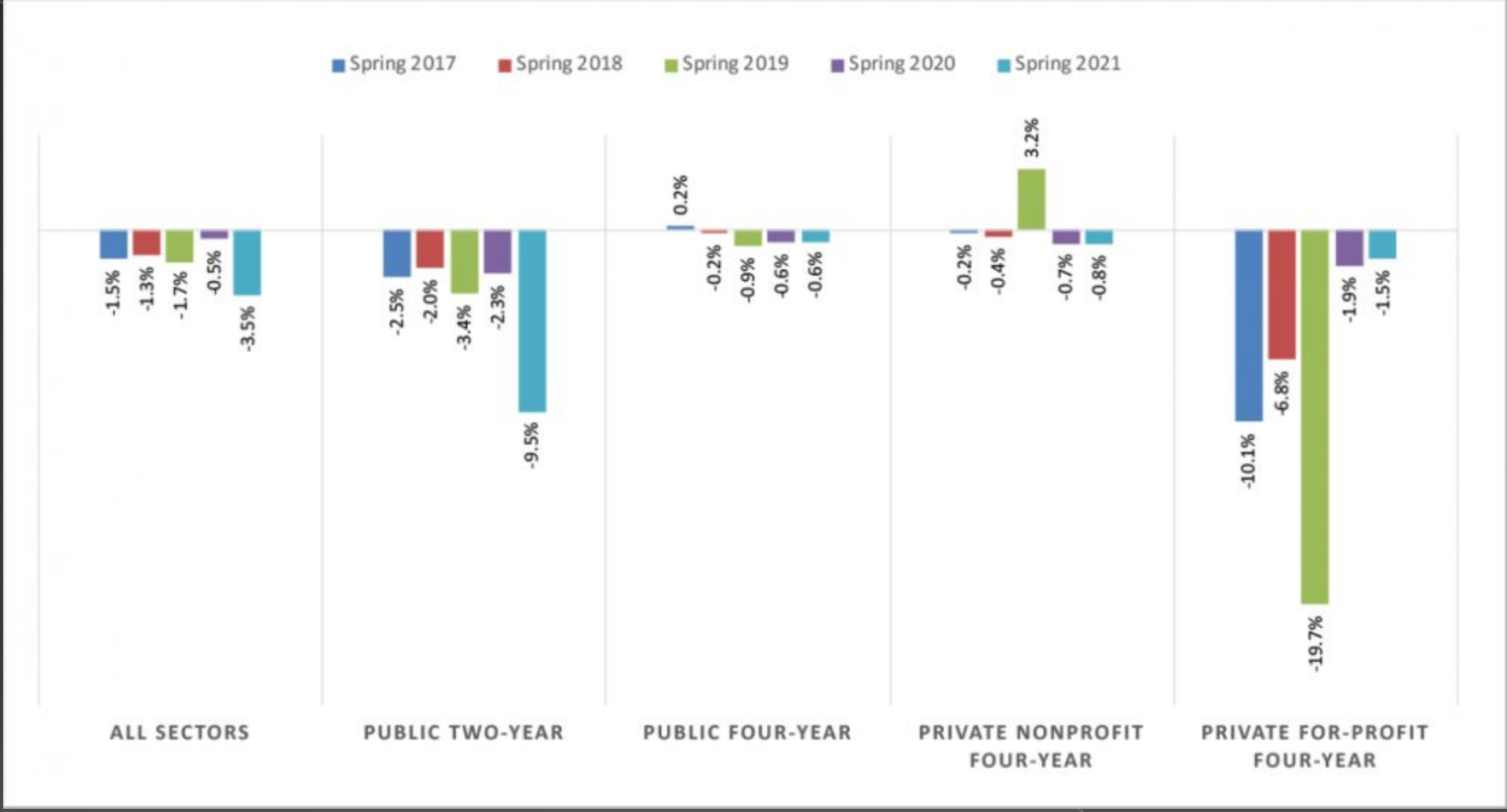
https://www.pbs.org/newshour/nation/3-ways-that-the-u-s-population-will-change-over-the-next-decade

Student population changes

- Near-majority adult
- Increasing first-generation students
- Veterans
- Learning disabilities

https://www.flickr.com/photos/un_photo/670


Spring 2017
Spring 2018
Spring 2019
Spring 2020
Spring 2021
-1.5%
-1.3%
-1.7%
-0.5%
-3.5%
-2.5%
-2.0%
-3.4%
-2.3%
-9.5%
0.2%
-0.2%
-0.9%
-0.6%
-0.6%
-0.2%
-0.4%
3.2%
-0.7%
-0.8%
-10.1%
-6.8%
-19.7%
-1.9%
-1.5%
ALL SECTORS
PUBLIC TWO-YEAR
PUBLIC FOUR-YEAR
PRIVATE NONPROFIT FOUR-YEAR
PRIVATE FOR-PROFIT FOUR-YEAR



Do we bounce back this fall?

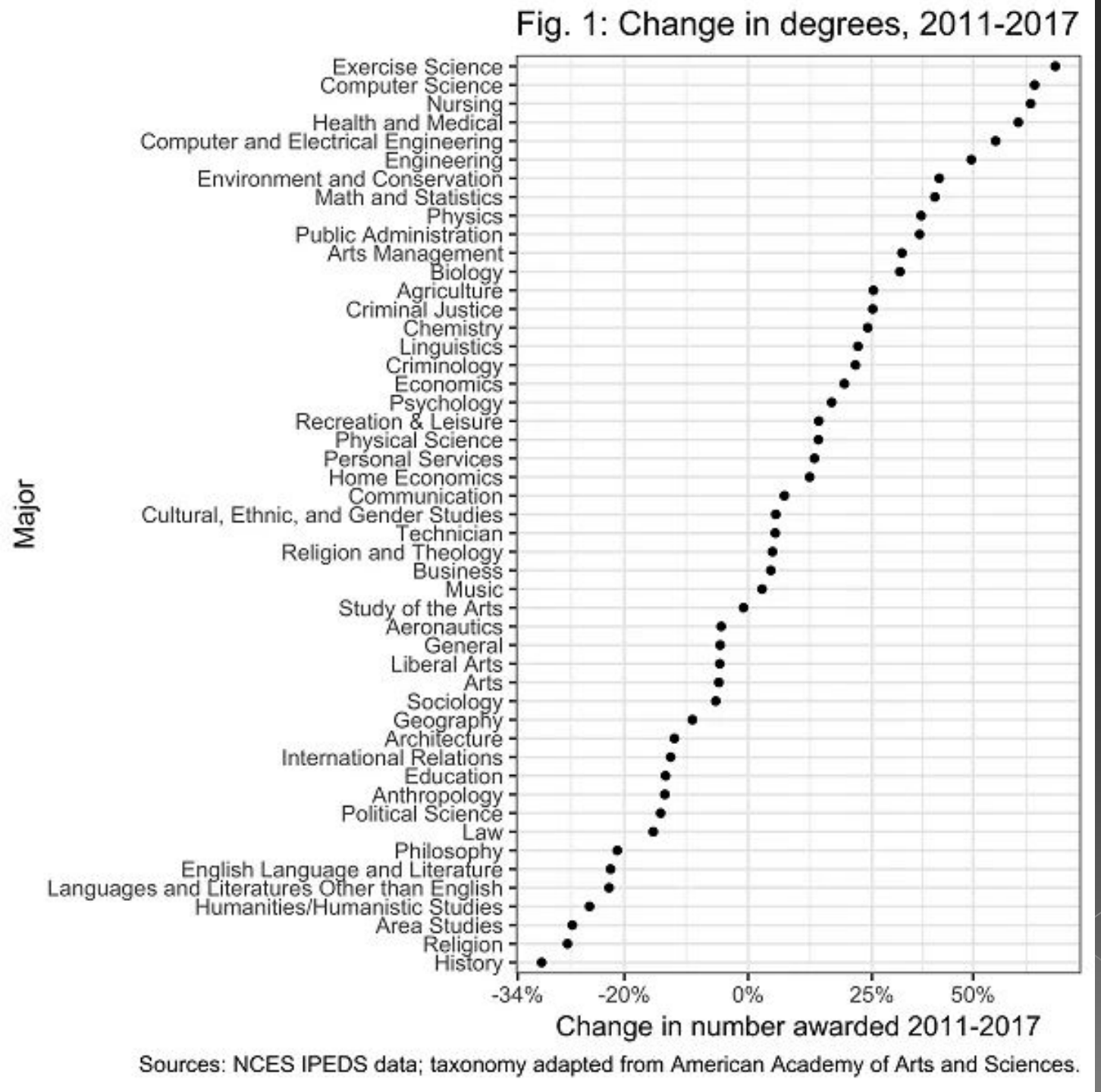
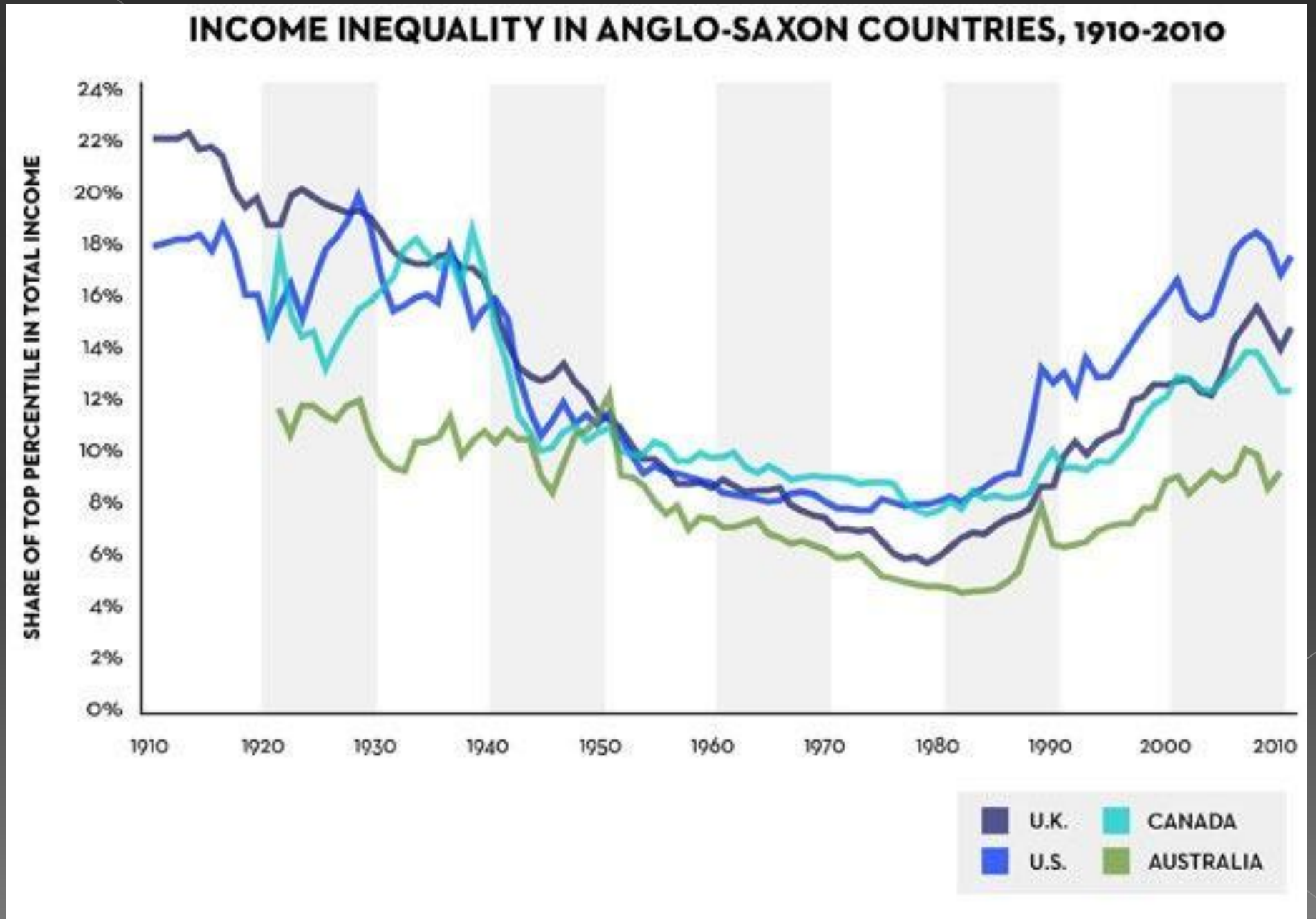


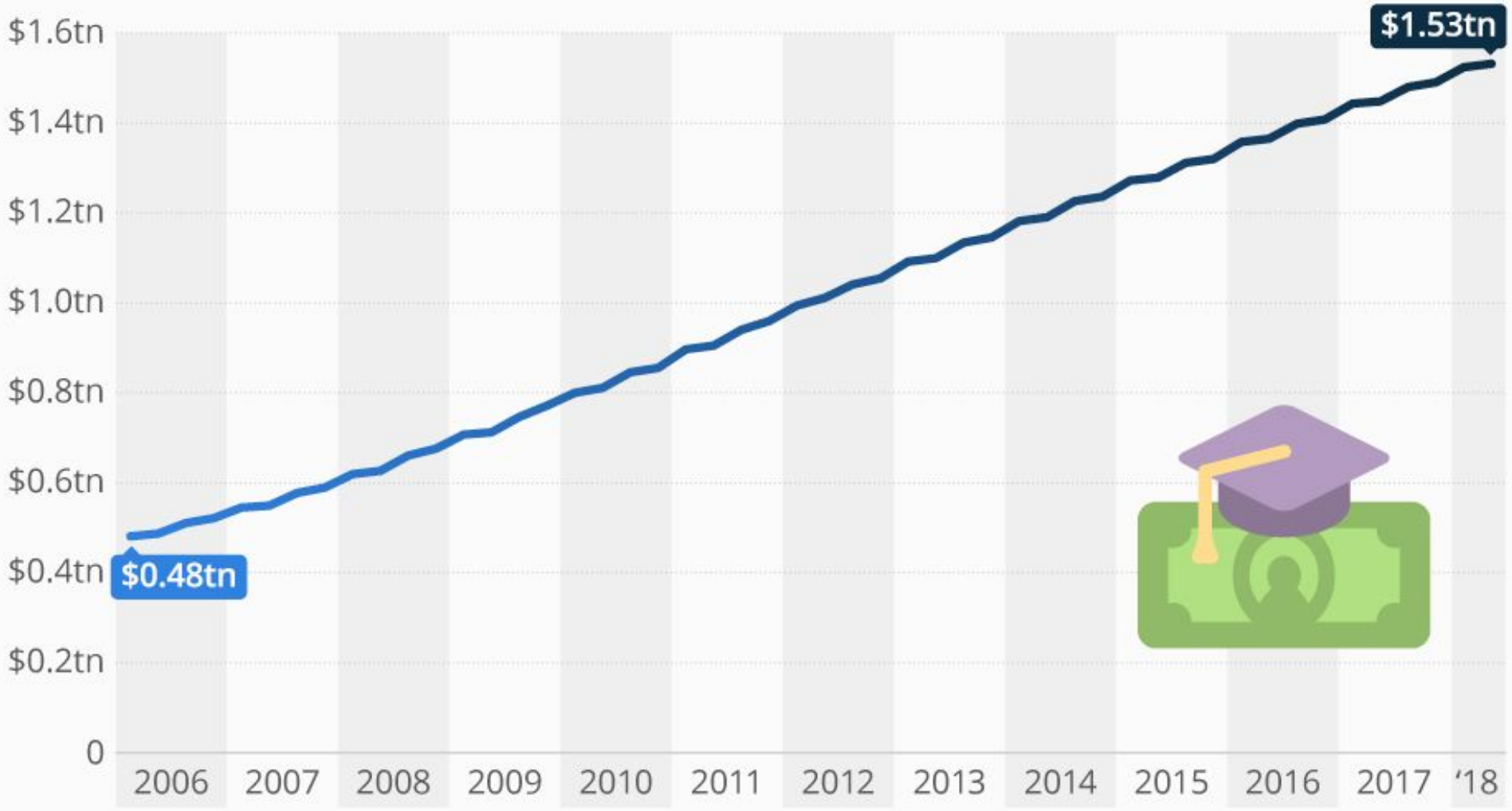
Fig. 1: Change in degrees, 2011-2017
Major
Exercise Science
Computer Science
Nursing
Health and Medical
Computer and Electrical Engineering
Engineering
Environment and Conservation
Math and Statistics
Physics
Public Administration
Arts Management
Biology
Agriculture
Criminal Justice
Chemistry
Linguistics
Criminology
Economics
Psychology
Recreation & Leisure
Physical Science
Personal Services
Home Economics
Communication
Cultural, Ethnic, and Gender Studies
Technician
Religion and Theology
Business
Music
Study of the Arts
Aeronautics
General
Liberal Arts
Arts
Sociology
Geography
Architecture
International Relations
Education
Anthropology
Political Science
Law
Philosophy
English Language and Literature
Languages and Literatures Other than English
Humanities/Humanistic Studies
Area Studies
Religion
History
-34%
-20%
0%
25%
50%
Change in number awarded 2011-2017
Sources: NCES IPEDS data; taxonomy adapted from American Academy of Arts and Sciences.

Macroeconomic changes



How U.S. Education Became A "Debt Sentence"

Outstanding student loans in the U.S. from 2006 to 2018 (in trillion U.S. dollars)*



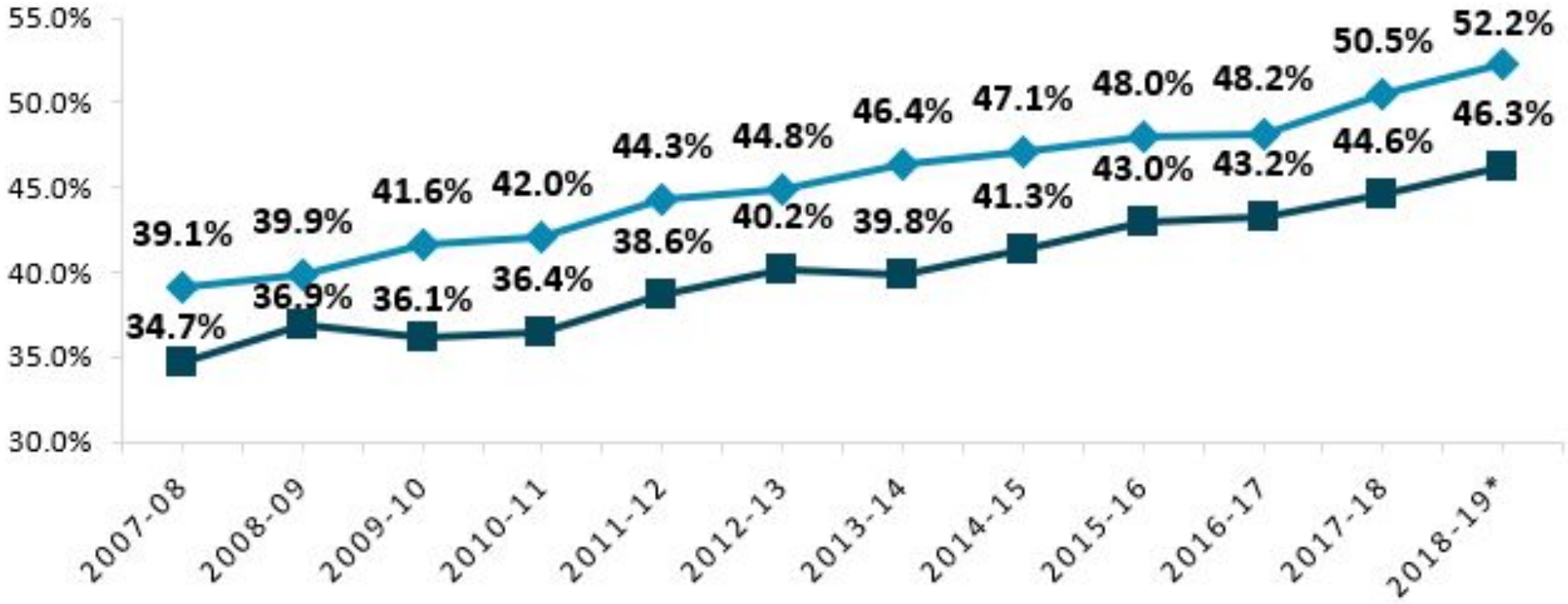
@StatistaCharts

* Not seasonally adjusted

Source: Fred Economic Data

statista

FIGURE 1: AVERAGE INSTITUTIONAL TUITION DISCOUNT RATE BY STUDENT CATEGORY



Source: NACUBO Tuition Discounting Study, 2007 to 2018; data are as of the fall of each academic year.
*Preliminary estimates.

Imagine your device.

Let’s assume

Social media, crowdsourcing, crowdfunding, open source, data analytics…

Let’s assume

…mobile computing, gaming, gamification, virtualization, digitization, digital storytelling…

Let’s assume

…always-on media capture, always-on surveillance, hacking…

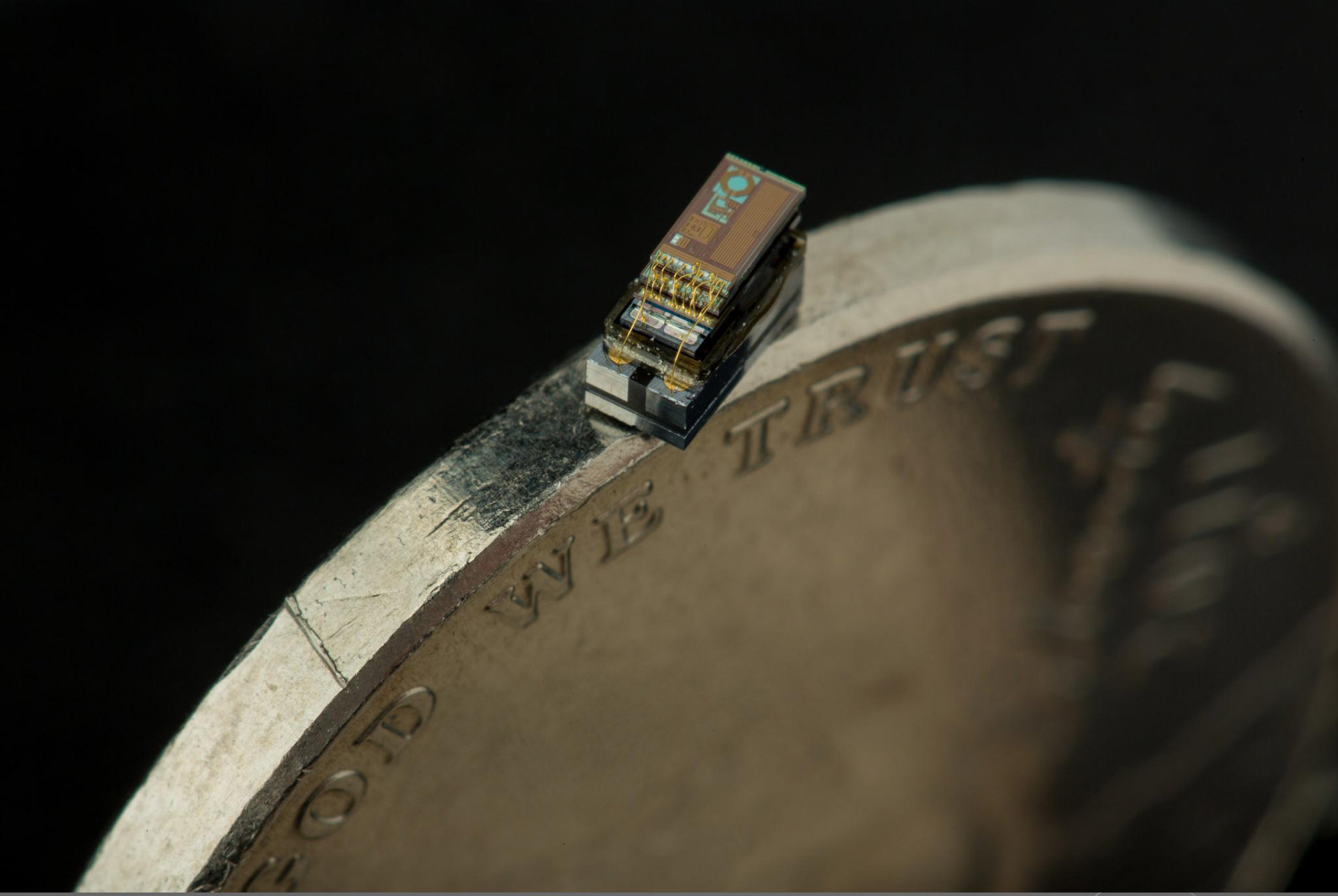
Imbrication

That's all in the short term.

We already know all about this stuff.

Increasing…

- Processing speed
- Memory capacity
- Data produced
- Born digital content
- Scanning analog


IN GOD WE TRUST

https://www.reddit.com/r/IllBeYourGuide/

VR

AUGUST 17, 2015

TIME

The Surprising Joy of **Virtual Reality**

And why it's about to change the world

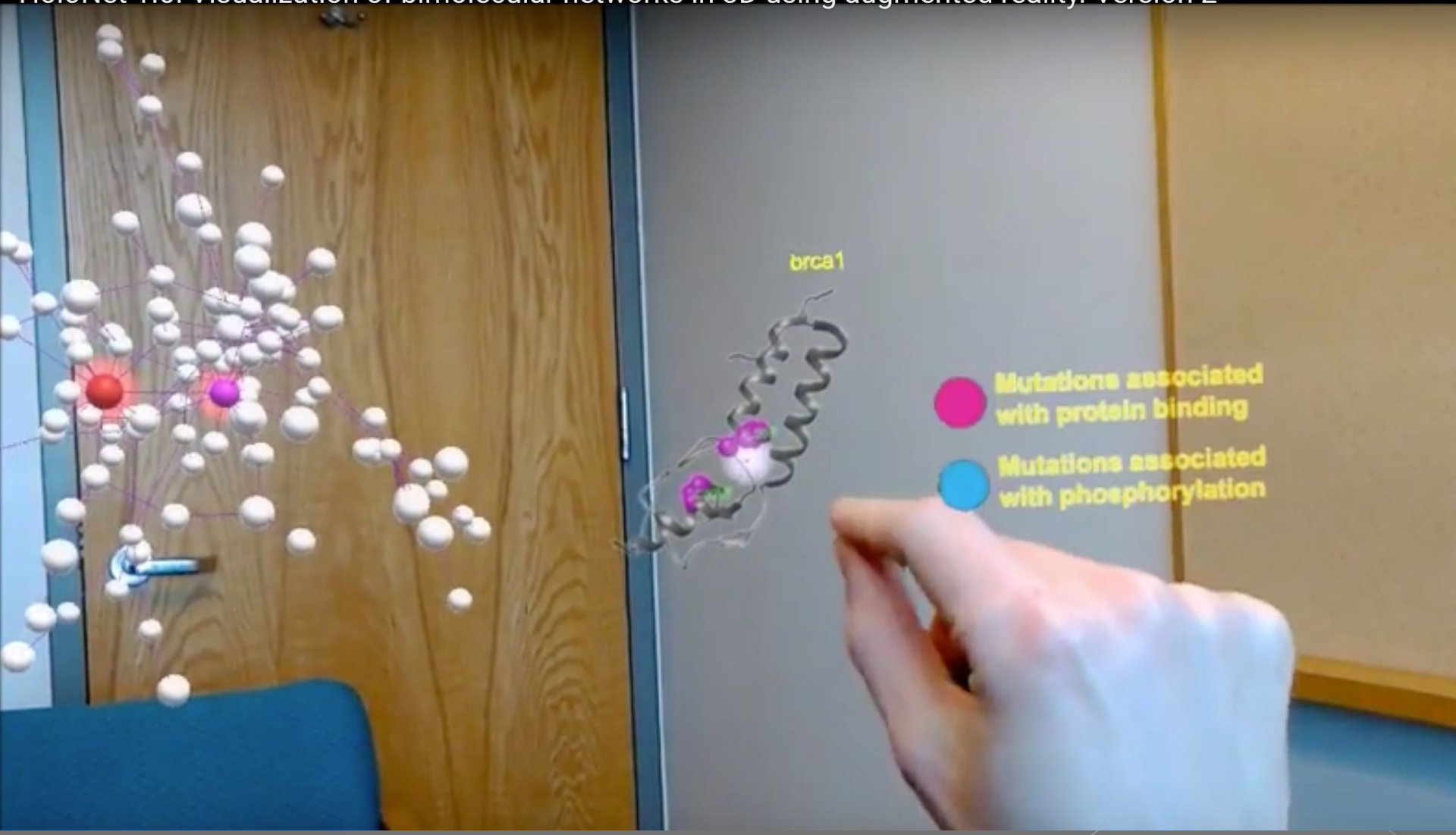
By Joel Stein

Palmer Luckey, 22, inventor of the Oculus Rift, is one of the visionaries making virtual reality mainstream

time.com

VR+AR=MR+XR

HoloNet 1.0: Visualization of bimolecular networks in 3D using augmented reality. Version 2



Back to education and technology.

Normal, interrelated stuff

Social media, crowdsourcing, crowdfunding, open source, data analytics, mobile computing, gaming, gamification, virtualization, digitization, digital storytelling, always-on media capture, always- on surveillance, hacking...

Teaching and learning and tech

distance learning grows - generational gaps - Maker movement - BYOD - data analytics - social media - ebooks - etextbooks - gaming in education

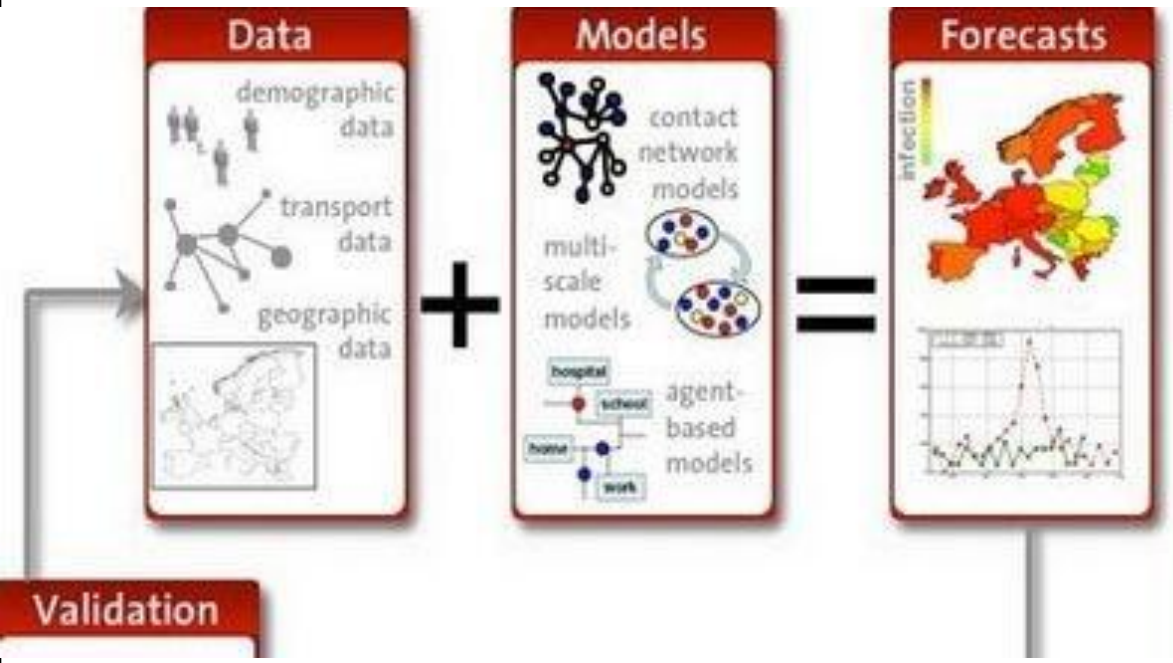
Video is the new paper

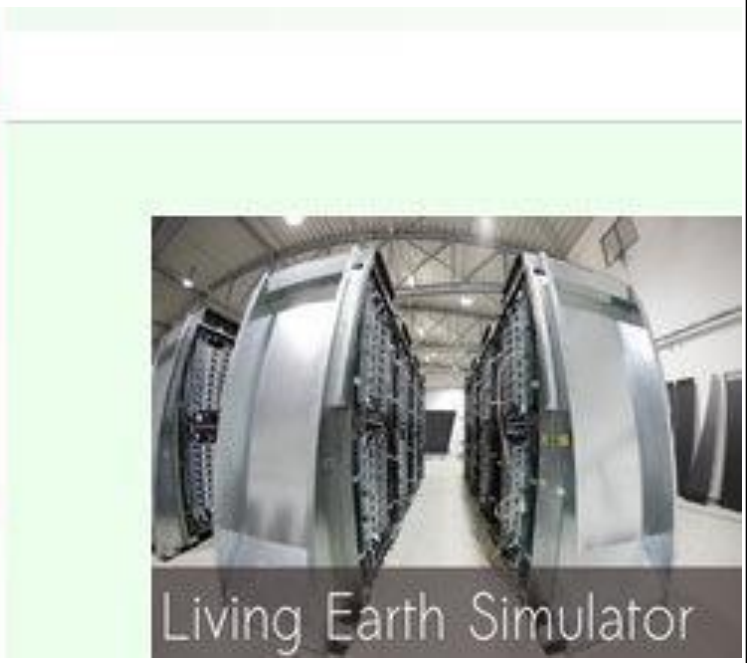
Incremental open revolution

- OER
- Open access
- Open teaching

Technology-mediated research

Simulations

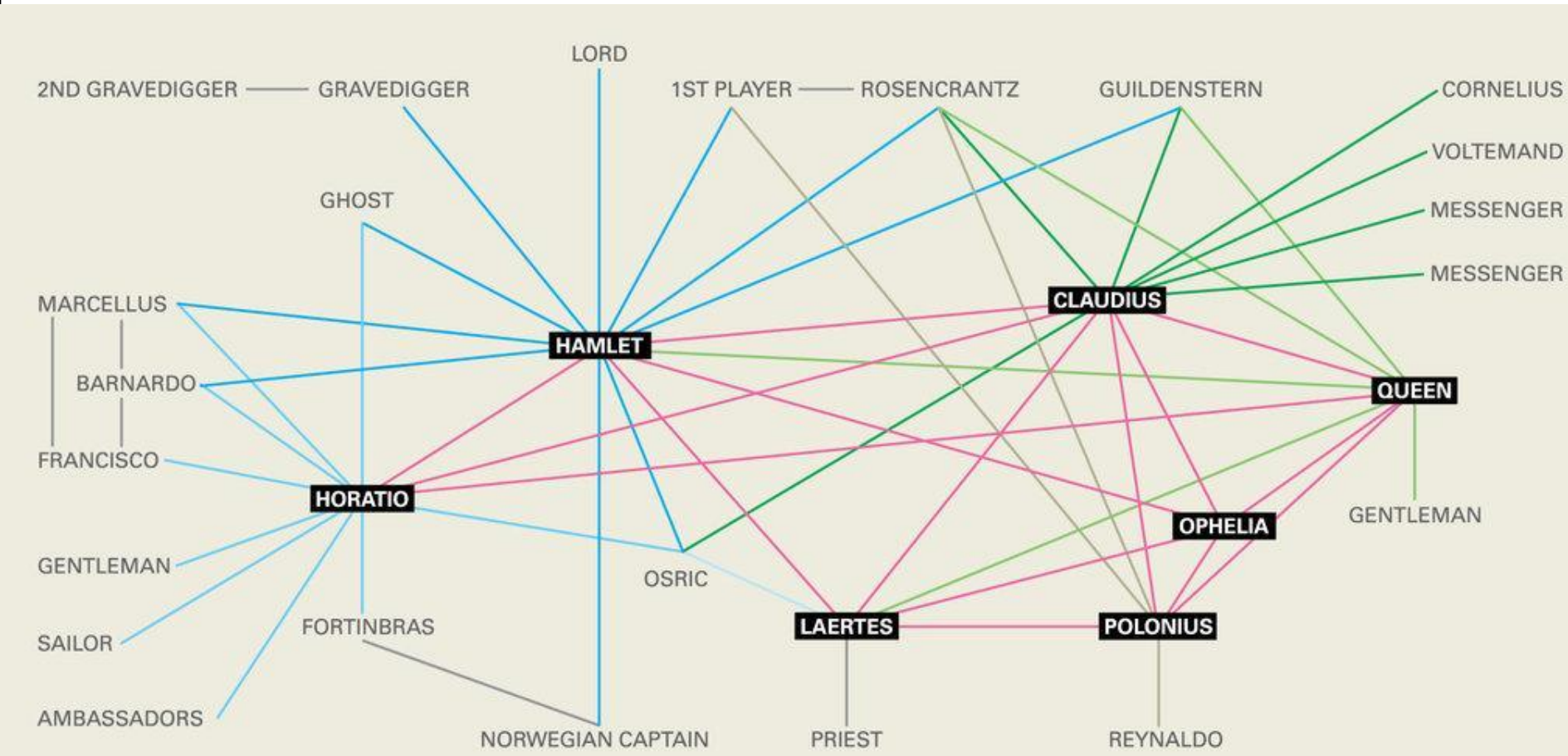




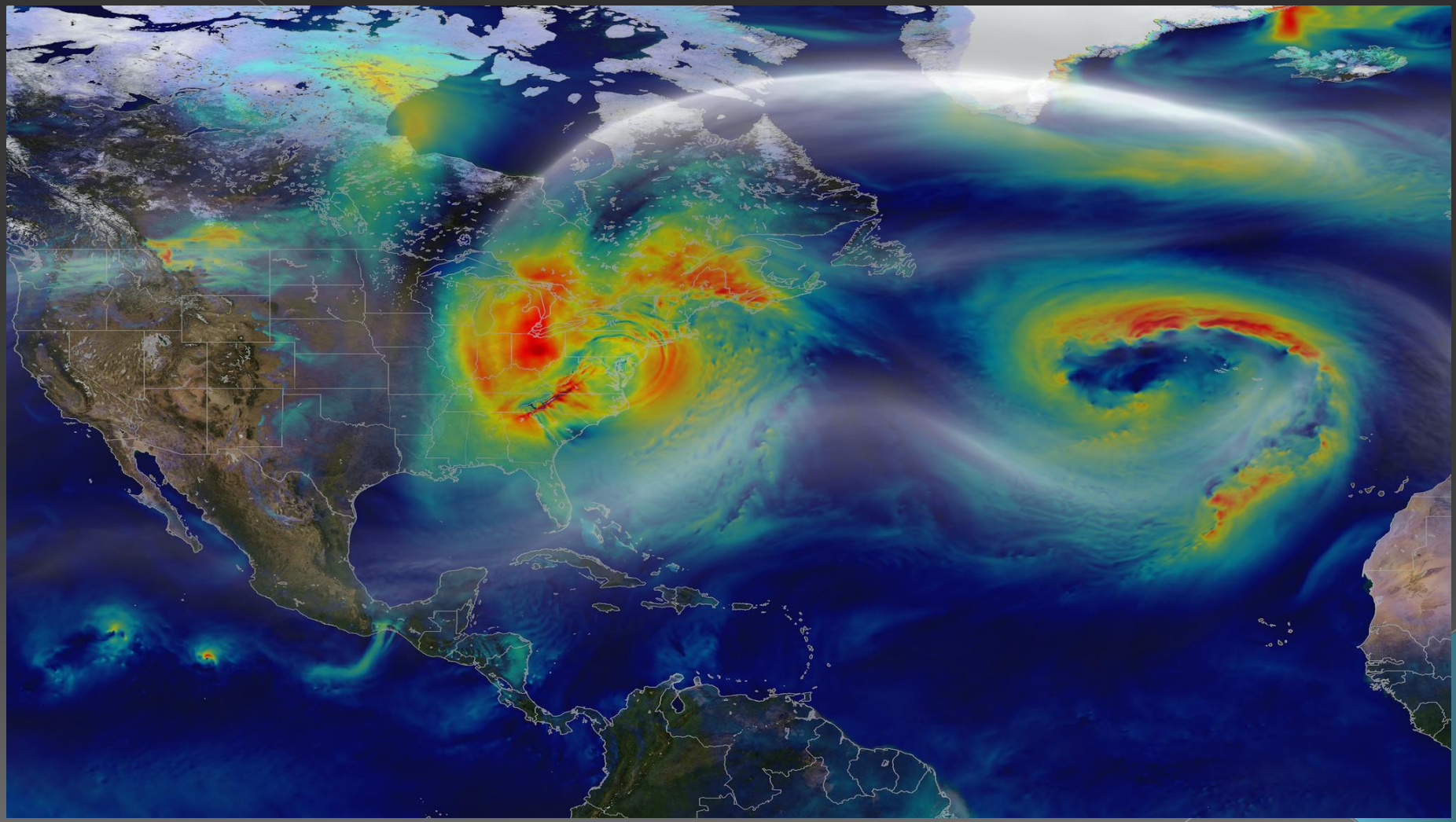
http://web.archive.org/web/20150418162758/http://www.futurict.eu/

Textual research

Digital humanities



Simulations world



https://www.flickr.com/photos/gsfc/8970258657/

The new community of scholars, 1*

*Credit to Dan Cohen for this formulation

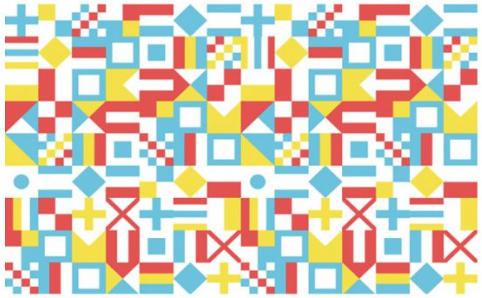
The new community of scholars, 2:

SciHub
#ICanHazPDF

Brandon Sanders, PhD.

CERTIFIED SECURITY EXPERT & SYSTEM DESIGNER

Software developer with 15 years of experience. Broad foundation in algorithms, mathematics, distributed systems, and scalability. Certification renewed by Federation of CompSci based in Washington D.C on December 2017.



View Certificate

CERTIFICATE OF ACCOMPLISHMENT

This represents completion of training in the area of computer science, system design, and data analytics.

AWARDED ON DECEMBER 5TH, 2017

Justin Baywater

At Technical Training Inc., we believe that all people have the potential to cultivate 21st-Century digital skills that translate into both employability and creativity. That is why we work with students from start to finish to help learners train and find employment.

PRESIDENT
Jim W. Burnett
Technical Training Inc.

View Certificate

Liberty Hospital Labs

LAB TECHNICIAN

Diagnostic training in Microbiological research has been completed by Jessica Marie Chromarski.

Liberty Hospital is dedicated to the training of its member resident trainees with extreme quality controls to ensure that only qualified and capable physicians practice medicine and medical research.

Robert Gates
President, Liberty Hospital

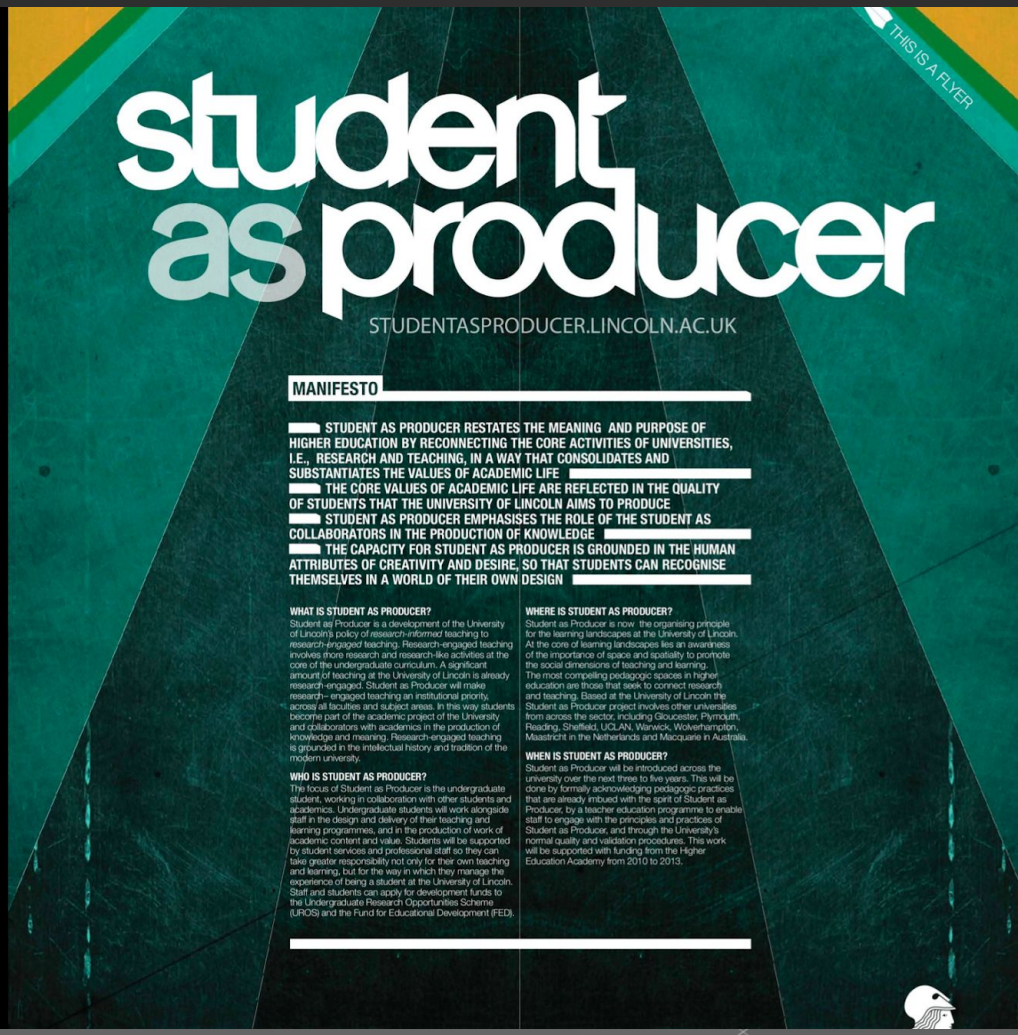
View Certificate

https://www.learningmachine.com/examples/

Priority Mail® postage
Priority Mail
Priority Mail® postage

https://www.flickr.com/photos/multnomahcountylibrary/18457790768

- Global economic shifts
- Rethinking consumer vs producer
- What happens when we take students seriously as producers?



Automation on the rise

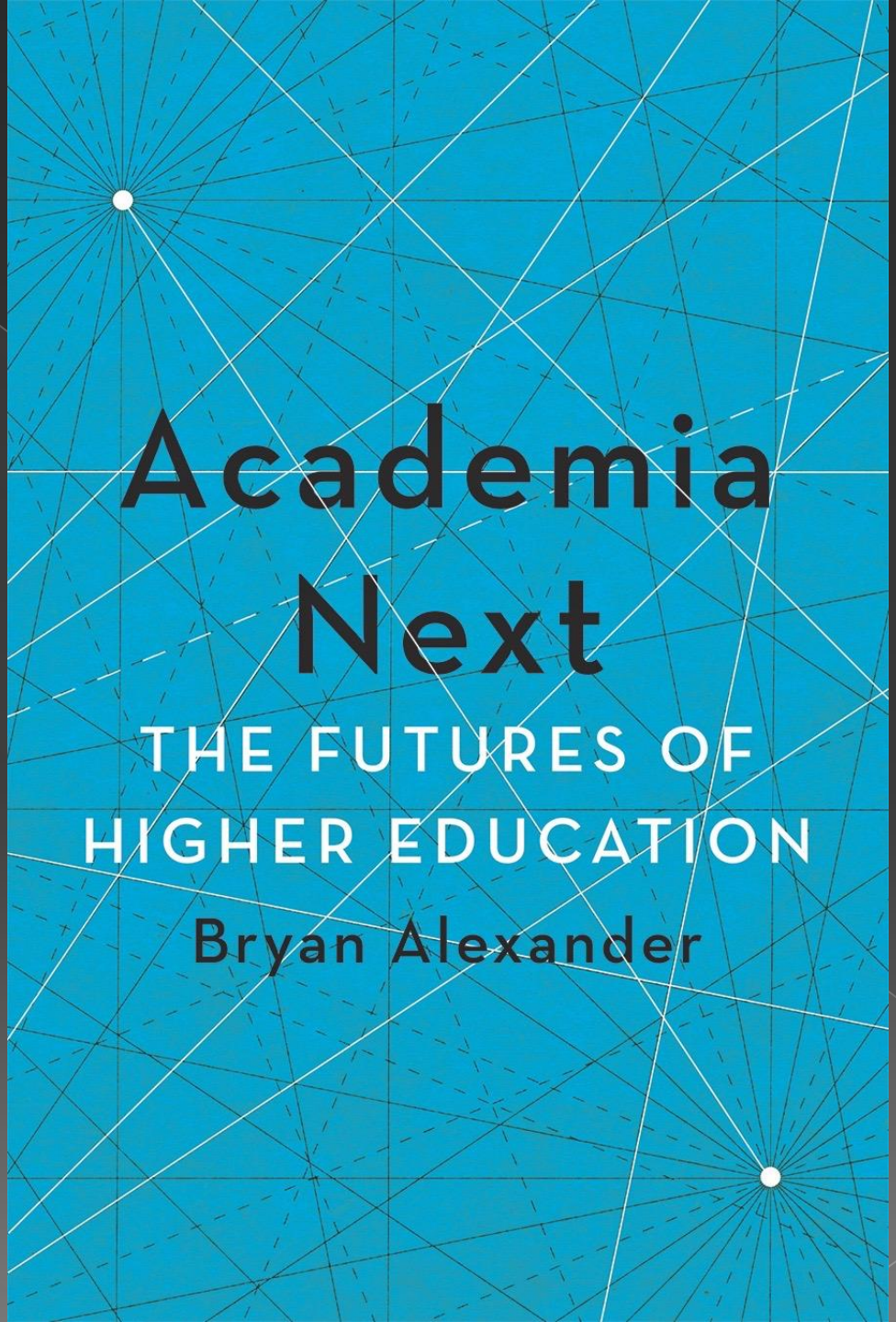
http://www.cnet.com/news/and-heres-a-drone-with-a-chainsaw-attached/

https://www.flickr.com/photos/dlnorman/27513144566/

What just happened?

An extraordinary pandemic

https://coronavirus.jhu.edu/map.html


Academia Next
THE FUTURES OF HIGHER EDUCATION
Bryan Alexander

For example, imagine a future academy after a major pandemic has struck the world, perhaps along the lines of the early twentieth century's Great Influenza. To envision the institution under such pressure, we would have to think through multiple disciplines and domains. We would have to consider, first, how such a thing would occur. This could involve delving into the history of disease, a look into graph theory for models of contagion, and a reflection on contemporary public health. We would then apply that learning to colleges and universities, a process that can ramify extensively depending on our awareness of the sector. Would distance learning grow rapidly as people fear face-to-face learning because of perceived contagion risk? Similarly, how would we take conferences and other forms of professional development online? Depending on the disease's death toll, should we plan on depressed demographics within a generation, or would the birth rate bounce back? Would athletes refrain from practice and play from fear of contagion, or would both institutions and the general public demand more college sports as an inspirational sign of bodily vigor in the context of sickness and death? Which academic disciplines would be most likely to grow in the disease's wake? And so on. This mental exercise dives into disciplines and then crosses between them in an example of inquiry-based learning.[15]

As is often the case with pedagogical materials, creating scenarios can be at least as powerful as consuming them. Creators must consider

- Back swan!
- Injuries and deaths
- Enormous anxiety and conflict

- Fast migration online
- Lots of *fast* deployment and learning
- And exhausting work

Google Scholar

instructional design

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Instructional design

J Sweller - Australian educational review, 1999 - Citeseer

Human cognitive architecture includes a working memory of limited capacity and duration with partially separate visual and auditory channels, and an effectively infinite long-term memory holding many schemas that can vary in their degree of automation. These cognitive …

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[BOOK] Instructional design

PL Smith, TJ Ragan - 2004 - books.google.com

Basic principles and practical strategies to promote learning in any setting! From K-12 to corporate training settings—the Third Edition of Patricia Smith and Tillman Ragan's thorough, research-based text equips you with the solid foundation you need to design …

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[BOOK] Principles of **instructional design**.

RM Gagne, LJ Briggs - 1974 - psycnet.apa.org

Presents an introduction to the principles of **instructional design**, including the derivation and application of methods used to **design** topics, courses, and lessons of instruction in a variety of subjects, based on principles of human learning and performance analysis. Topics …

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Cognitive architecture and **instructional design**

J Sweller, JJG Van Merrienboer… - Educational psychology …, 1998 - Springer

Cognitive load theory has been designed to provide guidelines intended to assist in the presentation of information in a manner that encourages learner activities that optimize intellectual performance. The theory assumes a limited capacity working memory that …

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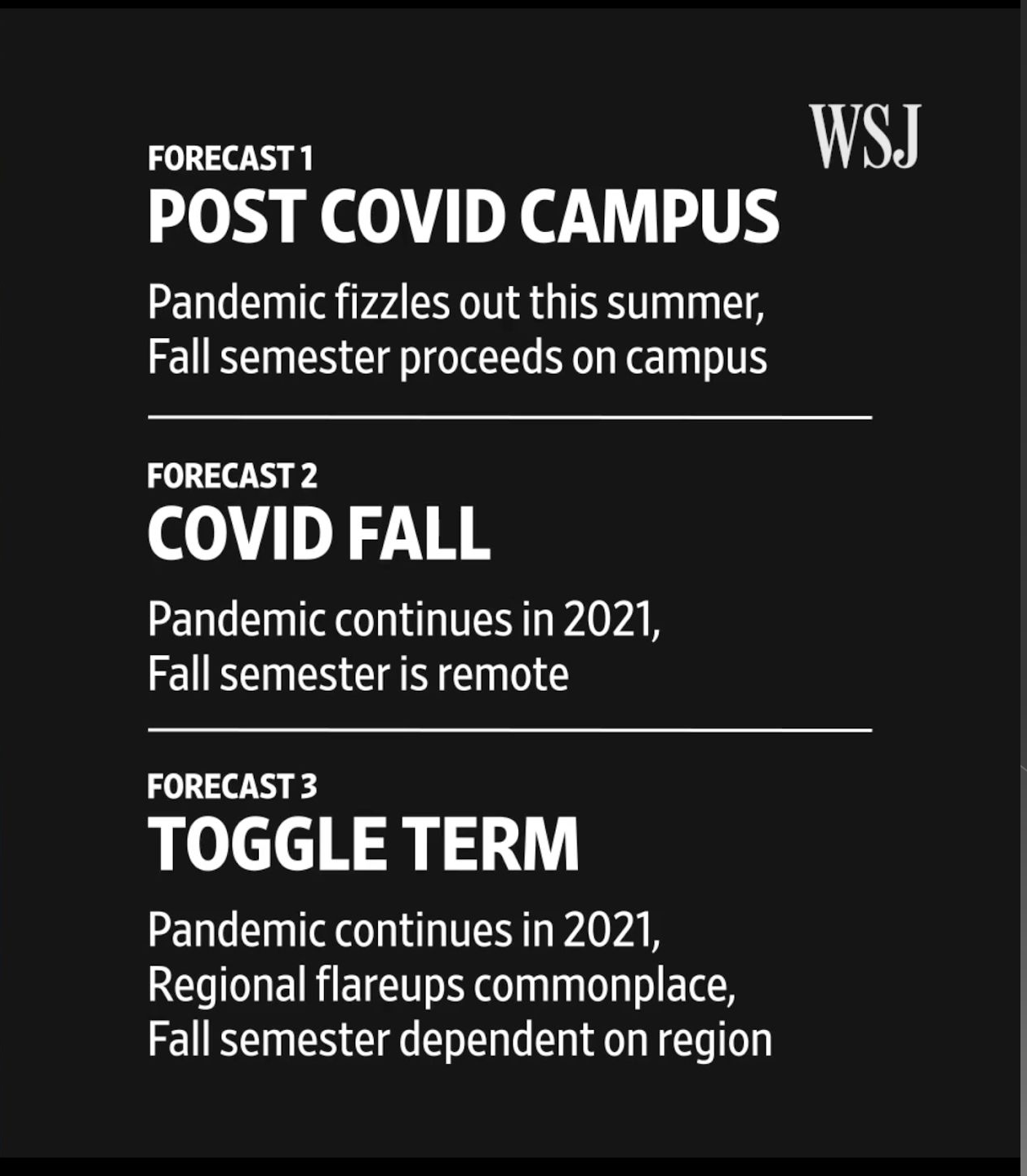
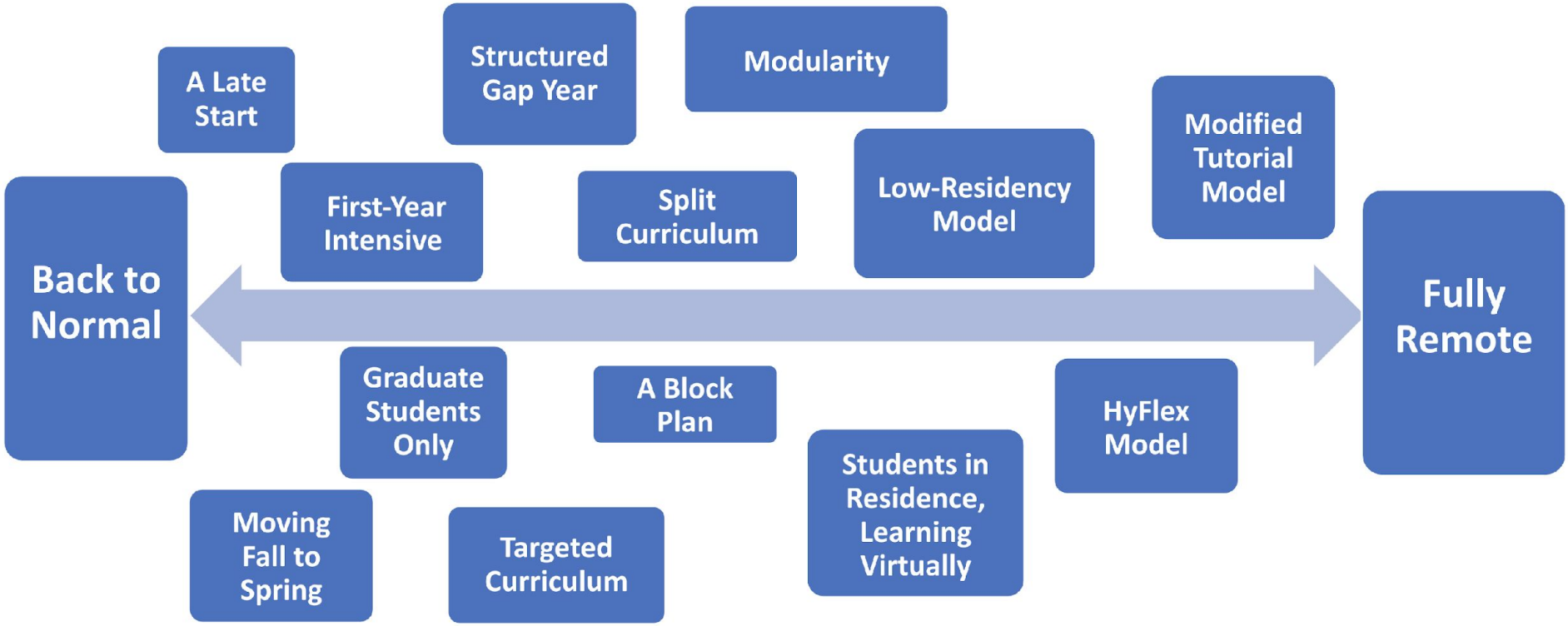


2020-2021 scenarios + one more

15 Fall Scenarios



The following describes reopening milestones based on the Taskforce's current planning.

1 Temporary Building Access: Temporary building access by faculty and staff began last week on Monday, May 11 and continued through this week. More than 1,500 employees participated in this event. Buildings will return to essential access only until the reopening of the College.

2 Summer 2020 Session 1: Lecture courses remain online; except for select programs noted below, labs and workforce programs begin planning and scheduling completion for students enrolled at the time of the Spring 2020 suspension of in-person classes. In-person modality for completion of Spring 2020 courses for five select workforce programs deemed essential by the Texas Department of Emergency Management will open in June. Access to HCC buildings will only be granted to participating individuals based on specific facility plans developed to enable the reopening for identified programs in:

a Machining & Manufacturing Engineering – 34 students
b Commercial Truck Driving – 164 students
c Law Enforcement/Criminal Justice – 26 students
d Public Safety/EMS – 41 students
e Public Safety/Fire Technology – 21 students

3 Summer 2020 Session 2: Lecture courses remain online; additional labs and workforce programs start in-person modality for students enrolled at the time of Spring 2020 suspension of in person classes.

4 Fall 2020: Lecture courses will be scheduled in blended (combination of in person and synchronous online) and fully online modalities. Labs and workforce programs start with new students. All in-person sections will comply with social distancing and other CDC protocols.

Our Story

The Beloit Action Plan
- The Midwest Flagship Match

Being a Beloiter

Facts, Stats, Rankings

Beloit, Wisconsin

Our History

Our Mission

Campus Leadership

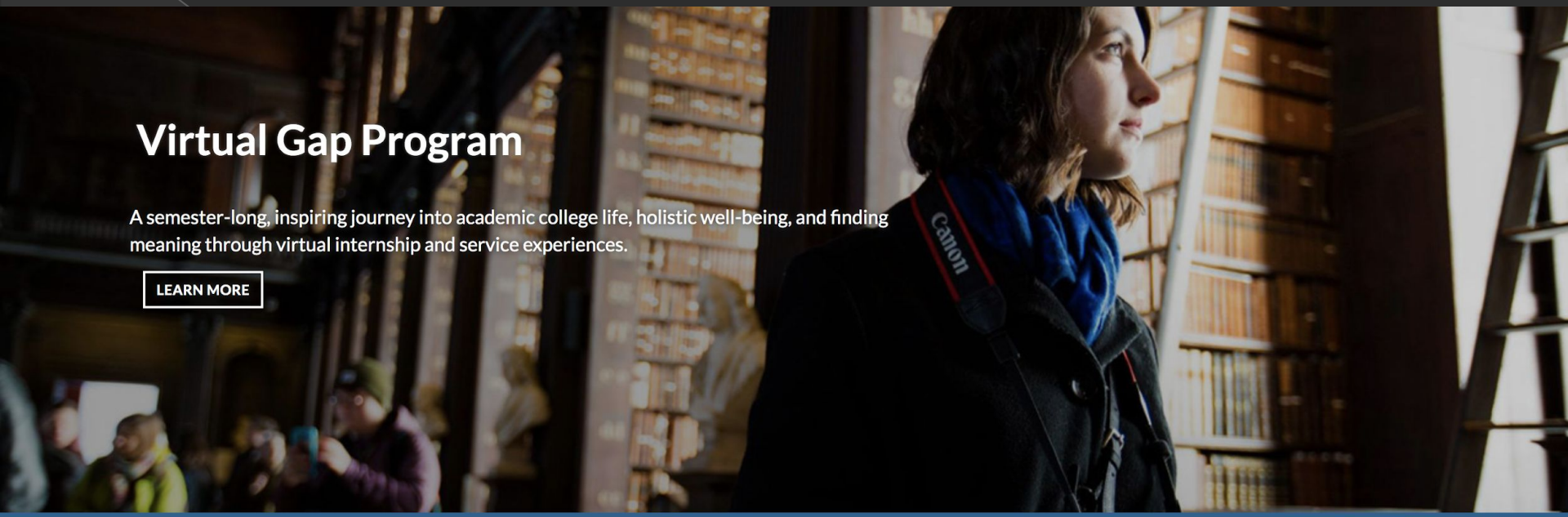
The Beloit Action Plan: Education that Works

We are living through a challenging time of radical uncertainty in the world.

But Beloit was built to face challenges and take bold action. And today we offer our students a new way forward.

We know that this time of economic slowdown and radical uncertainty will pass. What we don't know is what will come next.

As a college—and as a community—we are adapting. We are asking: **What's**



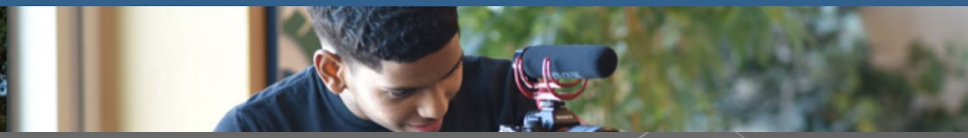
Virtual Gap Program

A semester-long, inspiring journey into academic college life, holistic well-being, and finding meaning through virtual internship and service experiences.

LEARN MORE

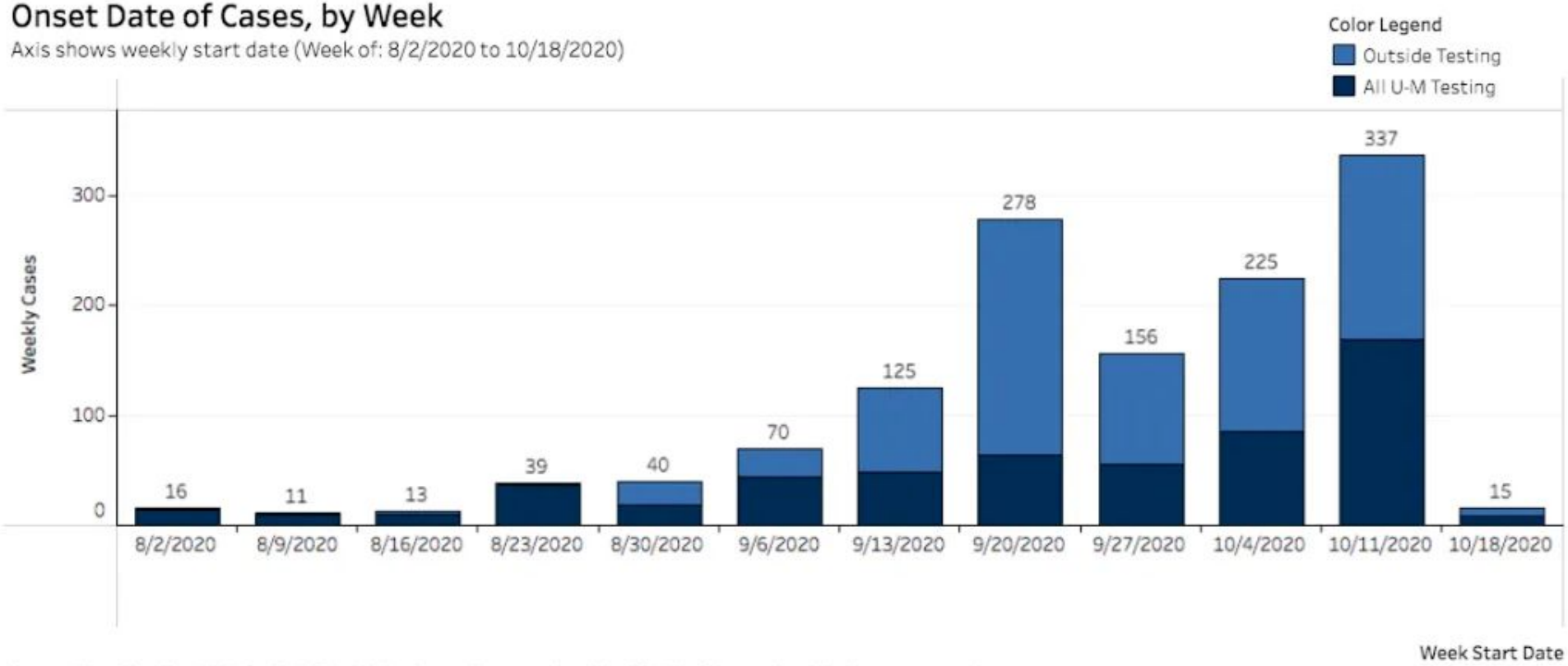
About the Virtual Gap Program

The Virtual Gap Program at Champlain College is an innovative and exploratory experience for high school graduates who are looking for a transformative, cohort-based learning adventure before they officially start college.



Onset Date of Cases, by Week

Axis shows weekly start date (Week of: 8/2/2020 to 10/18/2020)



Cases identified by UHS, OHS, CSTP, Athletics and county health officials (County health department data is included for cases from August 13 forward). Additional cases identified by county health officials are noted in light blue.
Data sources are detailed here https://campusblueprint.umich.edu/dashboard/about-the-data/

How did teaching transform?

Entirely online

- Build learning communities digitally
- Reproduce residence life online
- Class size?

Entirely online

- Steady improvements
- Professionals and research
- More library materials, librarian outreach online

Entirely online

Hands on work?

- Teach around it
- Assign local instances
- Digital simulations
- Defer until…

Essentially f2f

Hooray! Except…

- Students who choose to stay away
- Extensive safety measures

Essentially f2f

Hooray! Except…

- Older and/or comorbid faculty and staff
- Depopulate library?
- Town/gown issues

Hybrid-Flexible Course Design

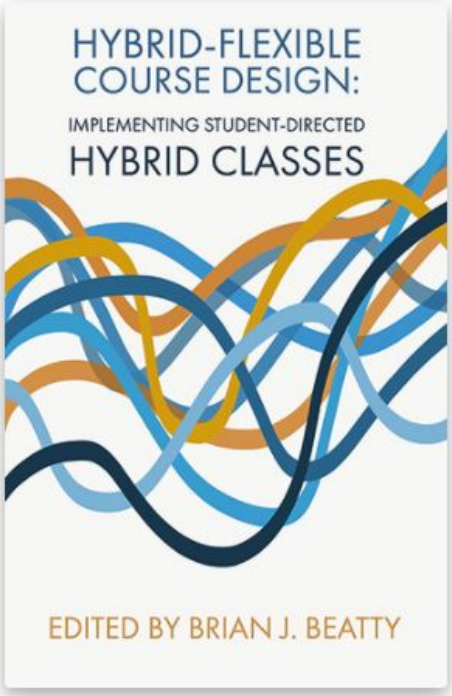
Implementing student-directed hybrid classes

Brian J. Beatty

Ongoing Call for Case Report Chapter Proposals

Faculty, instructional designers and administrators who have implemented Hybrid-Flexible courses at their own institutions are invited to propose case report chapters for Unit III of this book.

For more information see the Call for Proposals at the end of Unit III, or email: Dr. Brian J. Beatty.



Acknowledgements

Welcome to Hybrid-Flexible Course Design!

Unit I. Hybrid-Flexible Course Design to Support Student-Directed Learning Paths

1.1. Beginnings

1.2. Costs and Benefits for Hybrid-Flexible Courses and Programs

1.3. Values and Principles of Hybrid-Flexible Course Design

1.4. Designing a Hybrid-Flexible Course

Unit II. Implementation and Adoption of Hybrid-Flexible

How to HyFlex?

- Hardware
- Software
- Networks
- Pedagogy
- Student behavior

CNDLS Zoom Room
Car Barn 315
Andi De Bellis
caseysheahen
Ryan Downey

NWS Boston

What might happen next?

Zero in on improving quality

Curricular changes?

- Allied health
- Business, poli sci?
- Classes pitched to topic?
- …and what declines, gets cut?

How will we handle student data?

ELI 7 THINGS YOU SHOULD KNOW ABOUT ... ™

Developments in Learning Analytics

Scenario

As a single mom with a part-time job who had started a nursing program at Marston State University, Mary Jenkins didn't have much time for studying. So she wasn't entirely surprised when she got an e-mail asking her to see an advisor about her poor performance in Biology 101.

Mary's stumble was part of a larger problem. Administrators at Marston State were frustrated by the institution's poor showing overall in key metrics for student outcomes. Graduation and retention rates were low, and there were big achievement gaps between white students and students of color, and between wealthier students and those from low-income households.

Collecting data had helped the university clarify how students were falling short. Building on that, the president empowered a task force to develop ways to use data analytics to find solutions. The task force migrated student data to a learning record store, with a particular focus on making data interoperable. The university also adopted several tools—some homegrown, some purchased from vendors—to collate and analyze key data. The new tools help the university synthesize and analyze a wide variety of data points, including student grades, class attendance and participation, and use of institutional resources like online tutoring, the library, and the career center.

Sophisticated algorithms produce rich insights at a granular lev-

1 What is it?

Learning analytics is **the use of data, analysis, and predictive modeling to improve teaching and learning**. Educational applications and services generate growing amounts of data about students and their behaviors. Learning analytics examines the data, looking for patterns and correlations that can provide insight to learners, instructors, and those who support them about how to improve learning. Analytics models use data from various sources—often aggregating data in new ways—to help students and institutions understand past and present academic performance and predict future performance. These insights form the basis of feedback, recommendations, and interventions to improve student outcomes. Learning analytics can also drive discovery in other avenues, including personalized learning, pedagogical practices, curriculum development, institutional planning, and research.

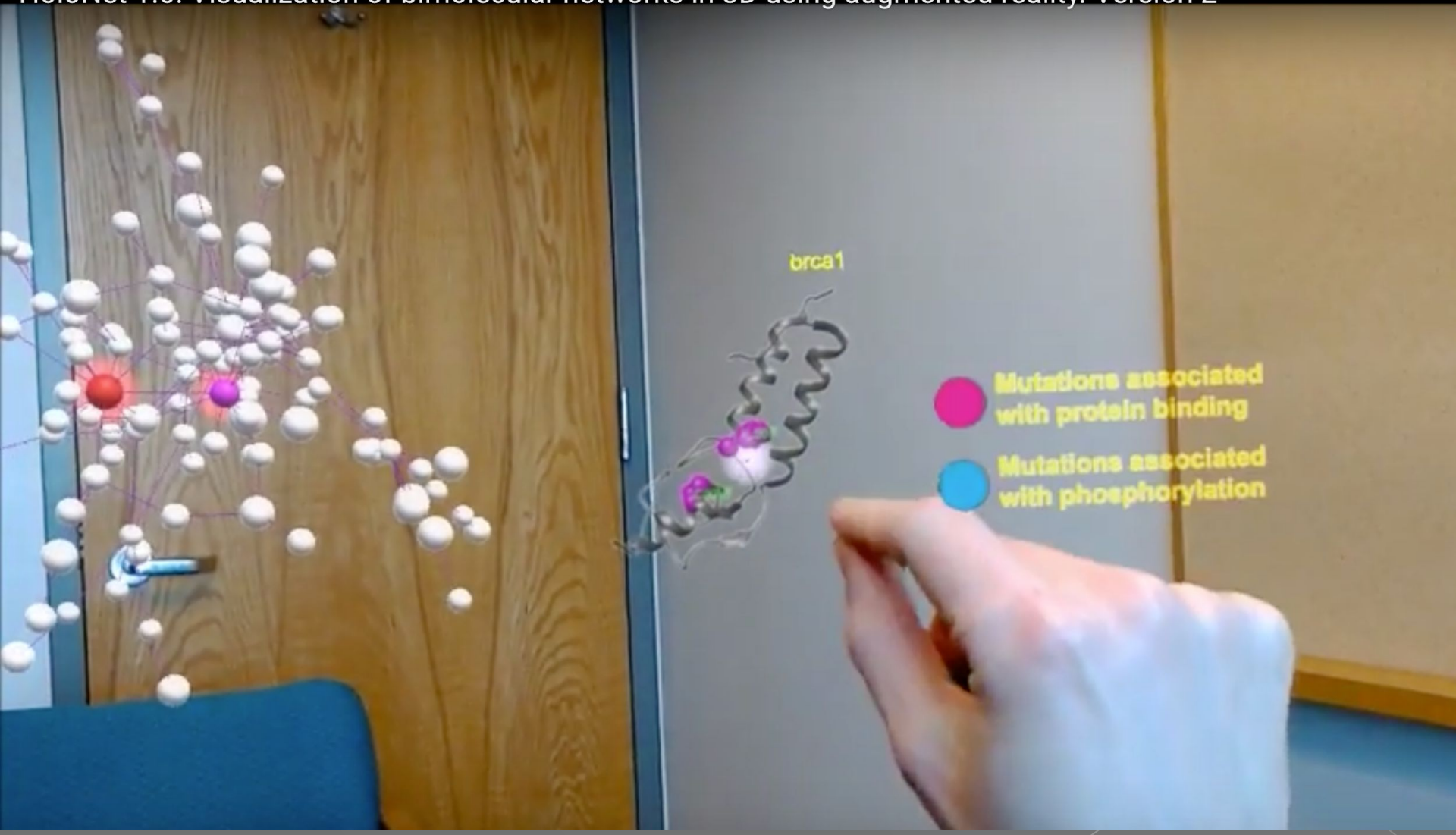
2 How does it work?

Institutions decide what data to use, which could include data already being collected as well as new kinds and sources of data. Data can be based on multiple dimensions of a learner's activities, including attendance and participation in class, in co-curricular activities, and in educational activities online, such as course discussion boards and the use of library resourc-

https://library.educause.edu/~/media/files/library/2017/7/eli7146.pdf

How will we handle V/M/XR?

HoloNet 1.0: Visualization of bimolecular networks in 3D using augmented reality. Version 2



Do we flip to open?

- OER
- Open access
- Open teaching

To 2023

- **Fewer campuses**
- COVID curriculum + design
- More supporting services
- Fewer faculty and staff

- **More online practice overall**
- Greater digital familiarity
- Possible social deskilling
- Automation
- COVID careers

- **Illness and death**
- Chronic stress
- Economic hits and anxiety
- Social/political unrest
- Generational tension

To 2025

- Deep digitalization
- COVID architecture
- Introvert culture
- Constant innovation

A higher education bubble?

A higher education bubble?

- Continued cost/quality anxiety
- Student and parent anxieties about debt
- Grad school crises
- Political pressure

Peak education 2013

Posted on September 18, 2013

Did we just experience peak higher education in the United States?

I want to try out this hypothesis as a way of thinking about many current trendlines. Readers and listeners know I have been tracking a large number of grim developments in the American higher education world. Synthesizing them is what I'm currently addressing.

Peak higher ed means we've reached the maximum size that colleges and universities can support. What we see now, or saw in 2012, is as big as it gets. After two generations of growth, American higher education has reached its upper bound.

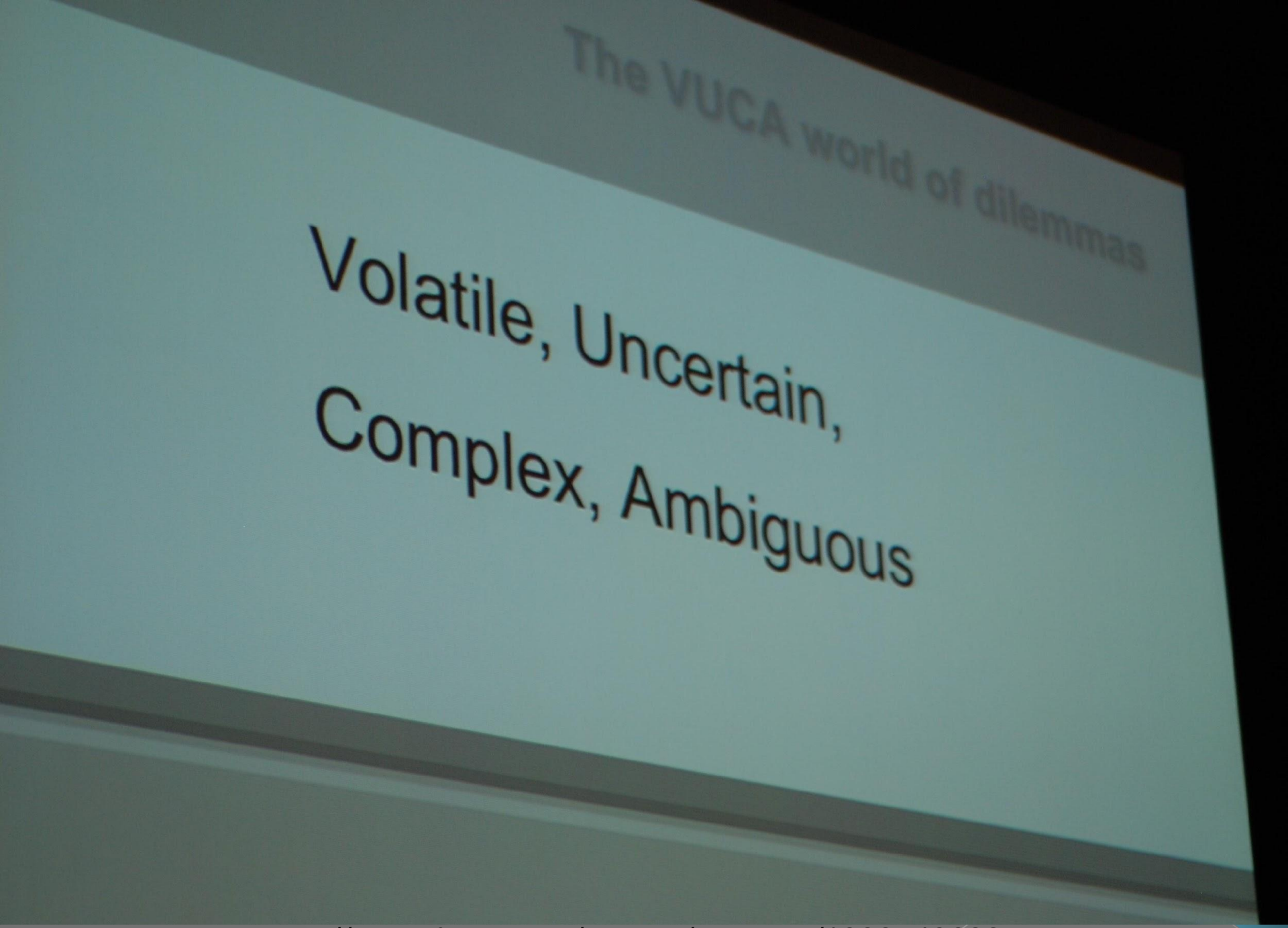
Consider recent news and data:

Student population: The number of students enrolled in American higher education *dropped* by more than 400,000 from 2011 to 2012, according to Census data. The number of graduate students also dropped over the same period, falling 2.3% after a

The Queen sacrifice gambit

Health care nation

Augmented campus



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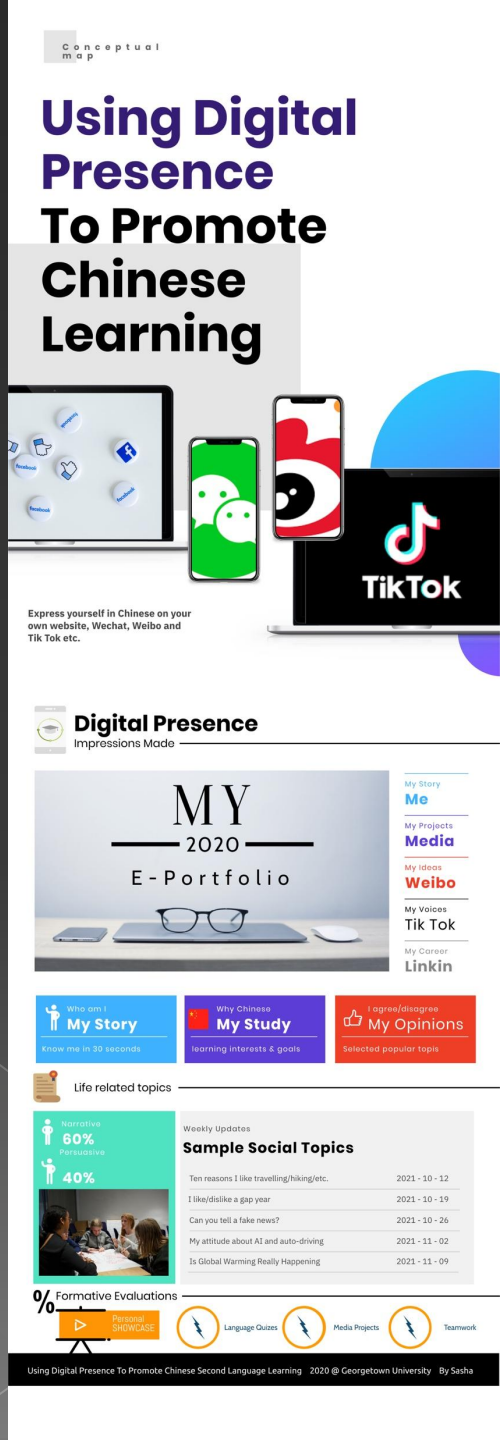
- Students as cocreators
- Collaboration within academia and beyond



- Rededication to teaching and learning
- Sense of social justice, equity

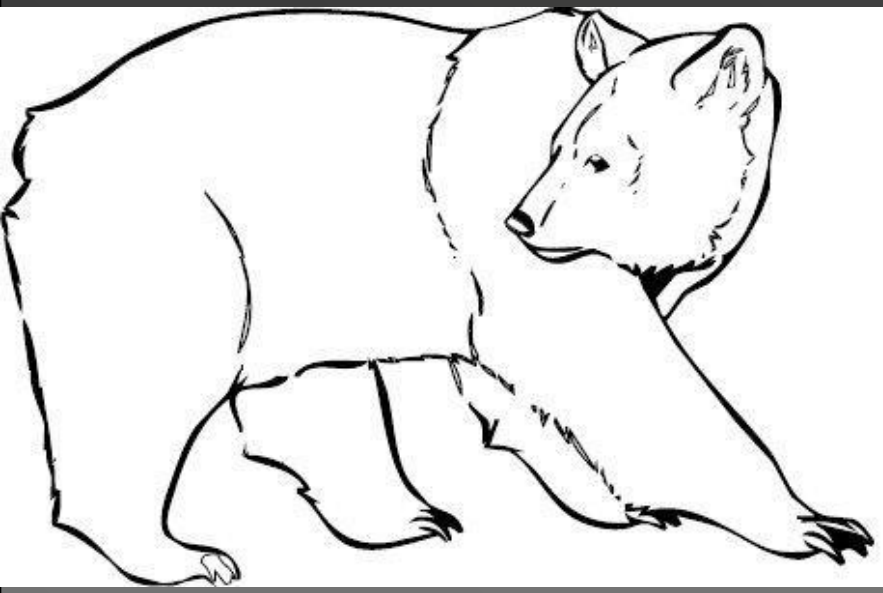
"Historically, pandemics have forced humans to break with the past and imagine their world anew. This one is no different. It is a portal, a gateway between one world and the next.

We can choose to walk through it, dragging the carcasses of our prejudice and hatred, our avarice, our data banks and dead ideas, our dead rivers and smoky skies behind us. Or we can walk through lightly, with little luggage, ready to imagine another world. And ready to fight for it."

-Arundhati Roy

http://futureofeducation.us/

http://twitter.com/bryanalexander



Bryan
Alexander
CONSULTING