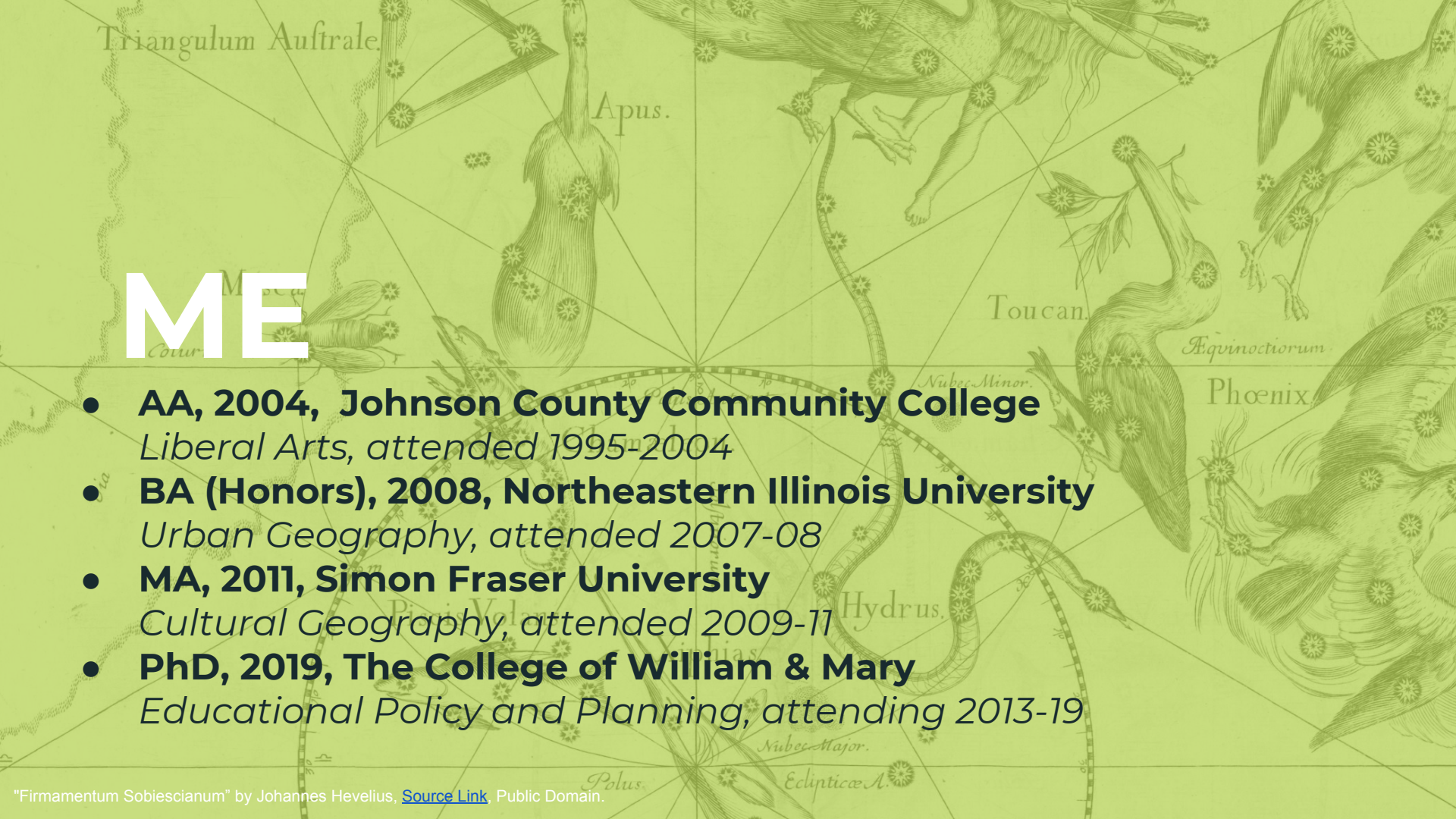




CONSTELLATIONS OF OPEN EDUCATION

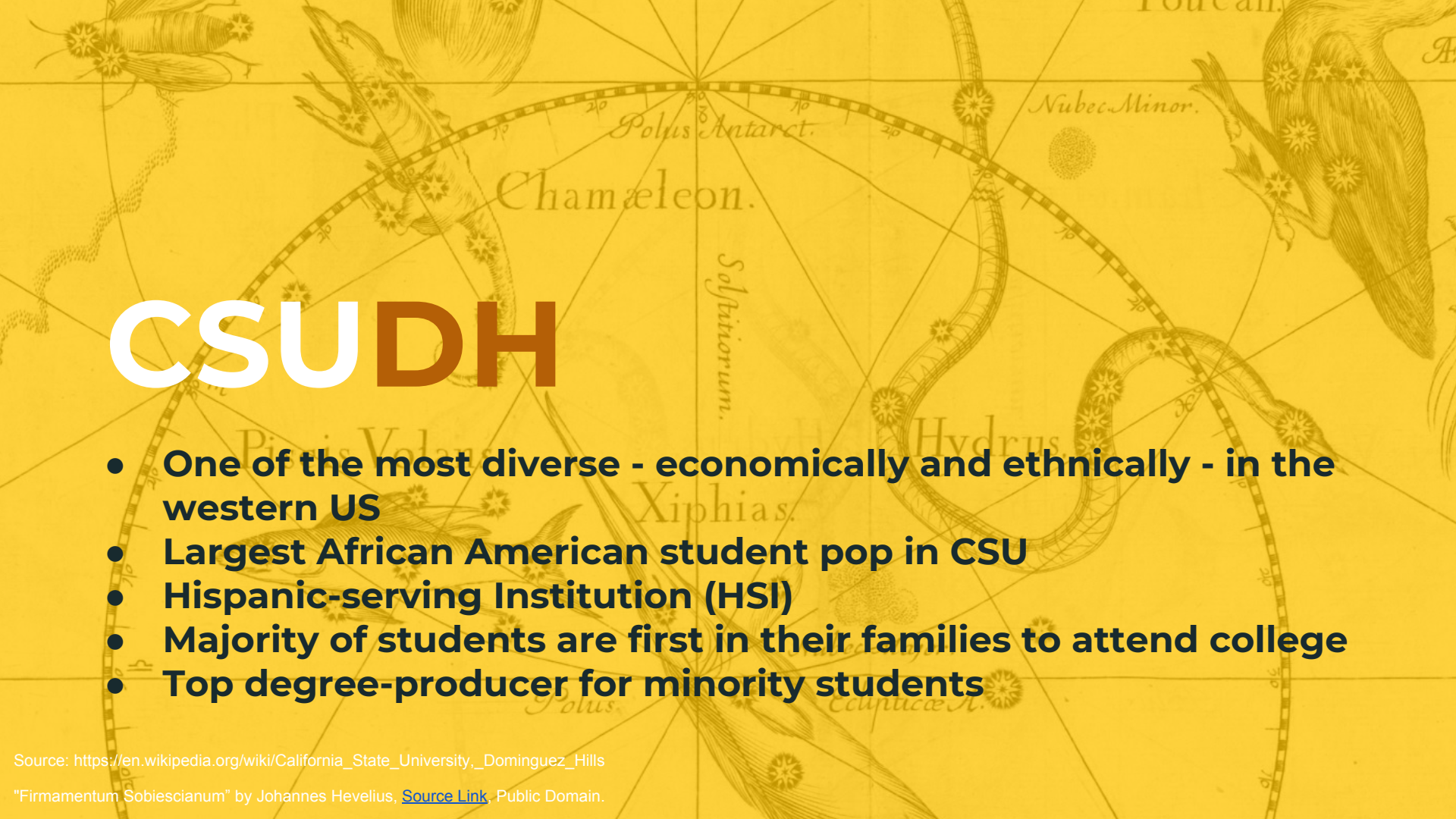
Keynote for the CSUDH Technology in Education Conference
Jamison R. Miller | Director of Teaching & Learning, Lumen Learning
jamison@lumenlearning.com | @MillerJamison

Slides available at bit.ly/csudh_open



ME

- **AA, 2004, Johnson County Community College**
Liberal Arts, attended 1995-2004
- **BA (Honors), 2008, Northeastern Illinois University**
Urban Geography, attended 2007-08
- **MA, 2011, Simon Fraser University**
Cultural Geography, attended 2009-11
- **PhD, 2019, The College of William & Mary**
Educational Policy and Planning, attending 2013-19



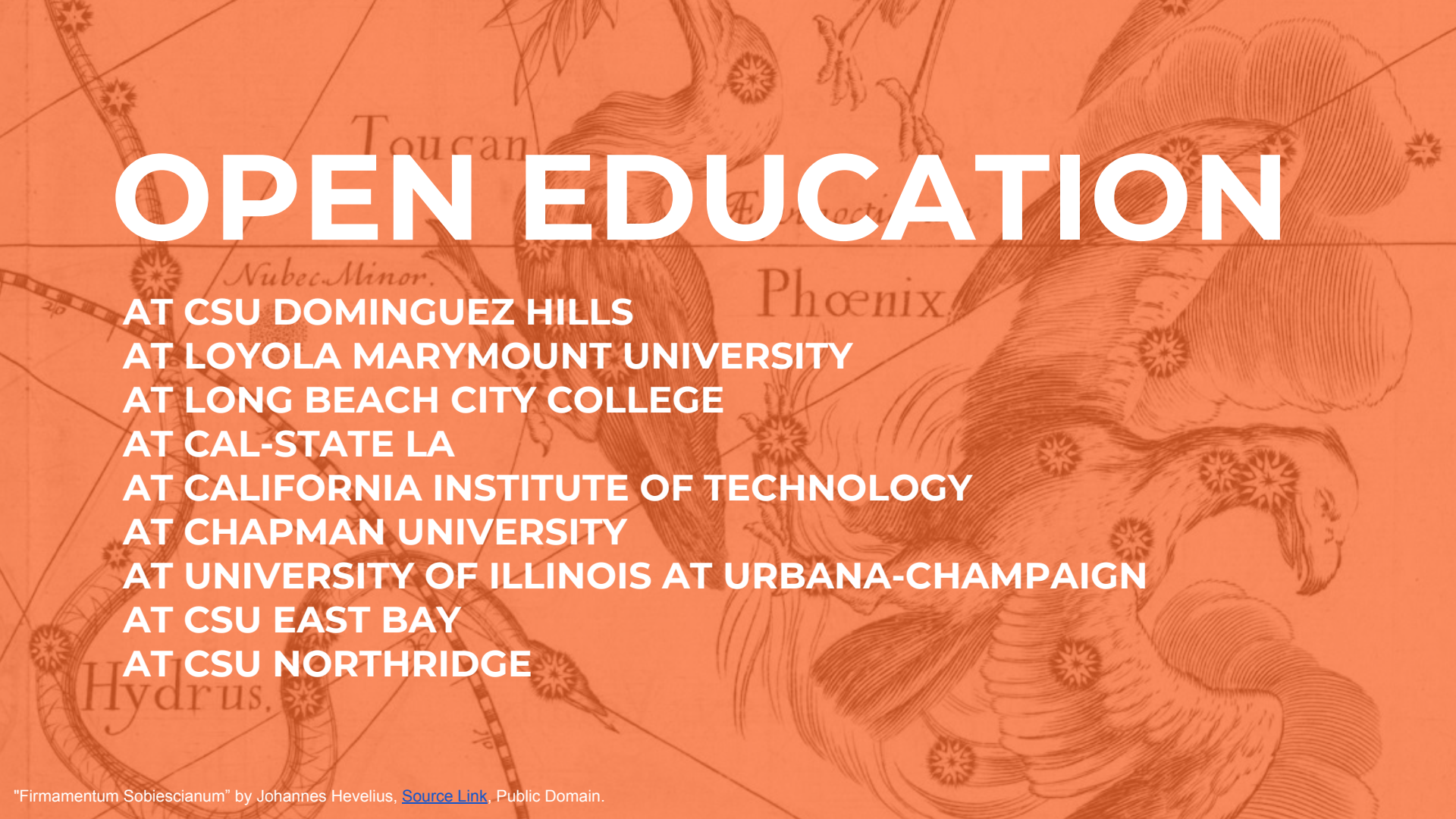
CSUDH

- **One of the most diverse - economically and ethnically - in the western US**
- **Largest African American student pop in CSU**
- **Hispanic-serving Institution (HSI)**
- **Majority of students are first in their families to attend college**
- **Top degree-producer for minority students**

Source: https://en.wikipedia.org/wiki/California_State_University,_Dominguez_Hills

"Firmamentum Sobiescianum" by Johannes Hevelius, [Source Link](#), Public Domain.



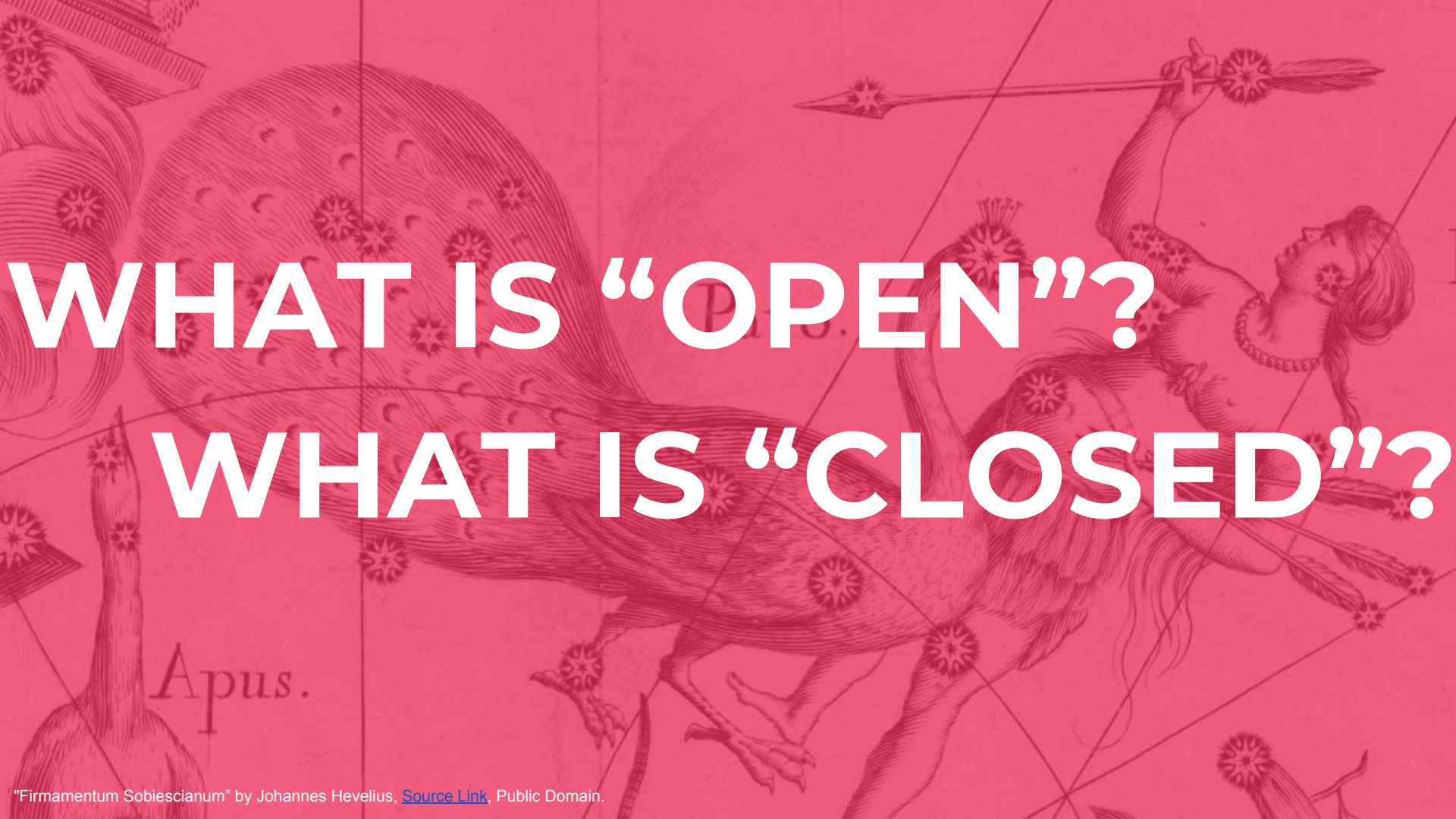
The background is a monochromatic orange-toned image. It features a celestial map, specifically the 'Firmamentum Sobiescianum' by Johannes Hevelius, which depicts various constellations. Overlaid on this map are detailed line drawings of several birds, including a toucan, a phoenix, and a hydrus. The text 'OPEN EDUCATION' is prominently displayed in large, white, sans-serif capital letters across the upper portion of the image.

OPEN EDUCATION

AT CSU DOMINGUEZ HILLS
AT LOYOLA MARYMOUNT UNIVERSITY
AT LONG BEACH CITY COLLEGE
AT CAL-STATE LA
AT CALIFORNIA INSTITUTE OF TECHNOLOGY
AT CHAPMAN UNIVERSITY
AT UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
AT CSU EAST BAY
AT CSU NORTHRIDGE

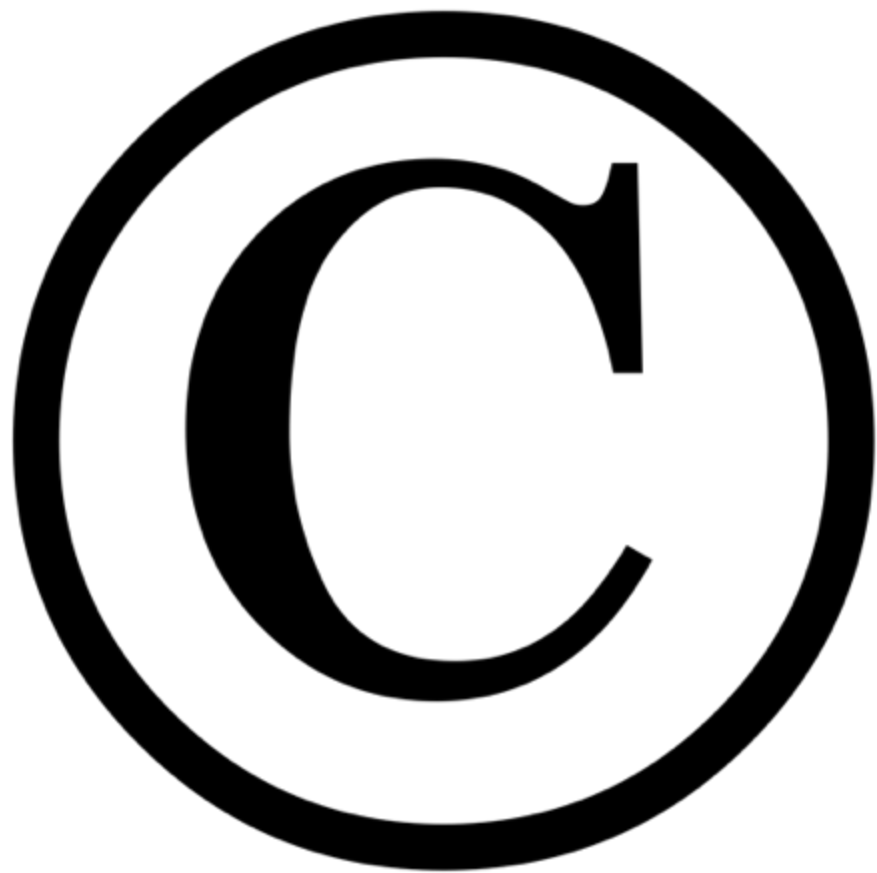
OpenEd18





WHAT IS “OPEN”?

WHAT IS “CLOSED”?



Anno Octavo

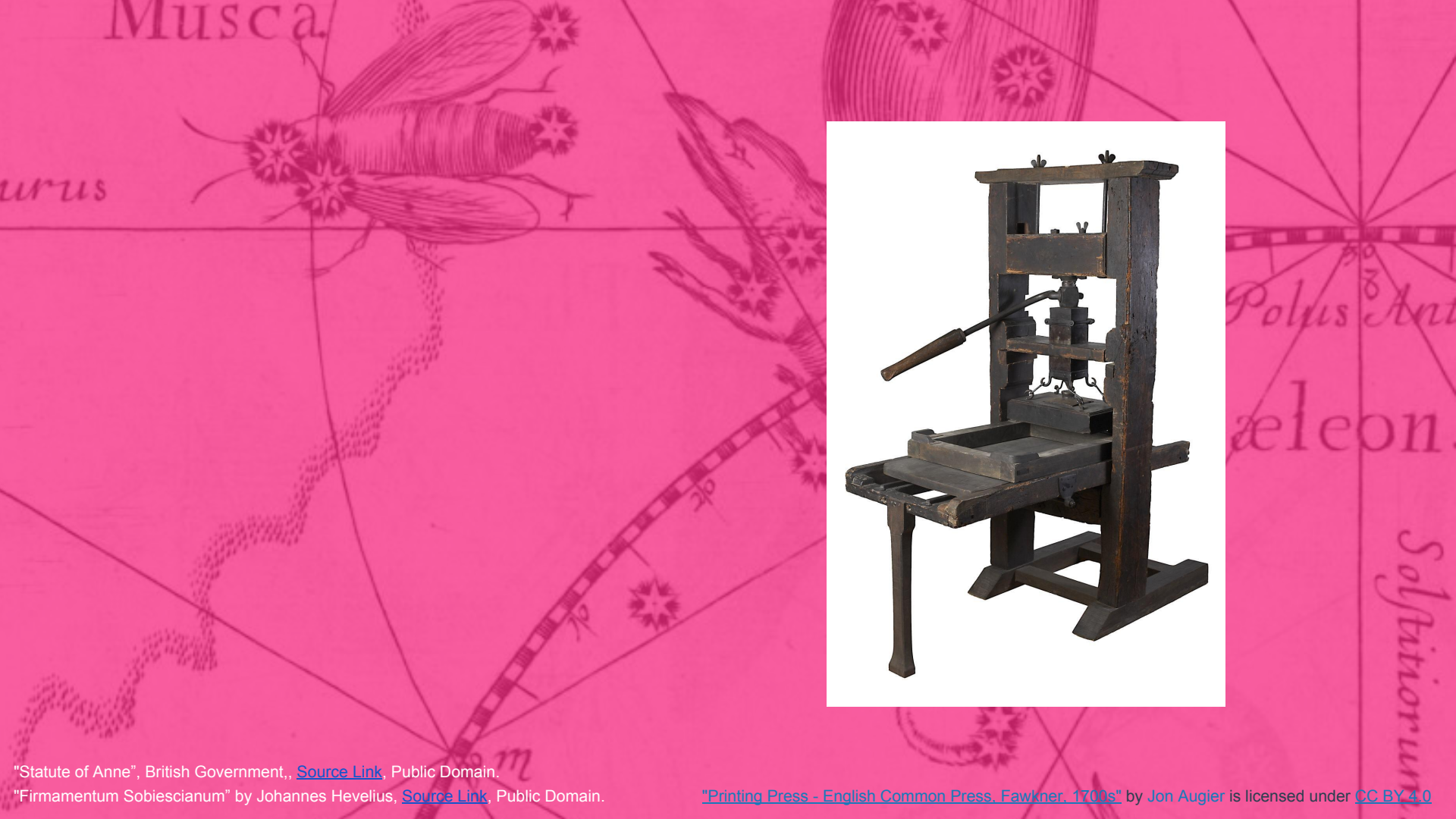
Annæ Reginae.

An Act for the Encouragement of Learning, by Vesting the Copies of Printed Books, in the Authors or Purchasers of such Copies, during the Times therein mentioned.



Whereas Printers, Bookellers, and other Persons have of late frequently taken the Liberty of Printing, Repressing, and Publishing, according to the Statute, Repealed, and Printed Books, and other Writings, without the Consent of the Authors or Proprietors of such Books and Writings, to their very great Detriment, and too often to the Ruin of them and their families: For Suppressing therefore such Practices for the future, and for the

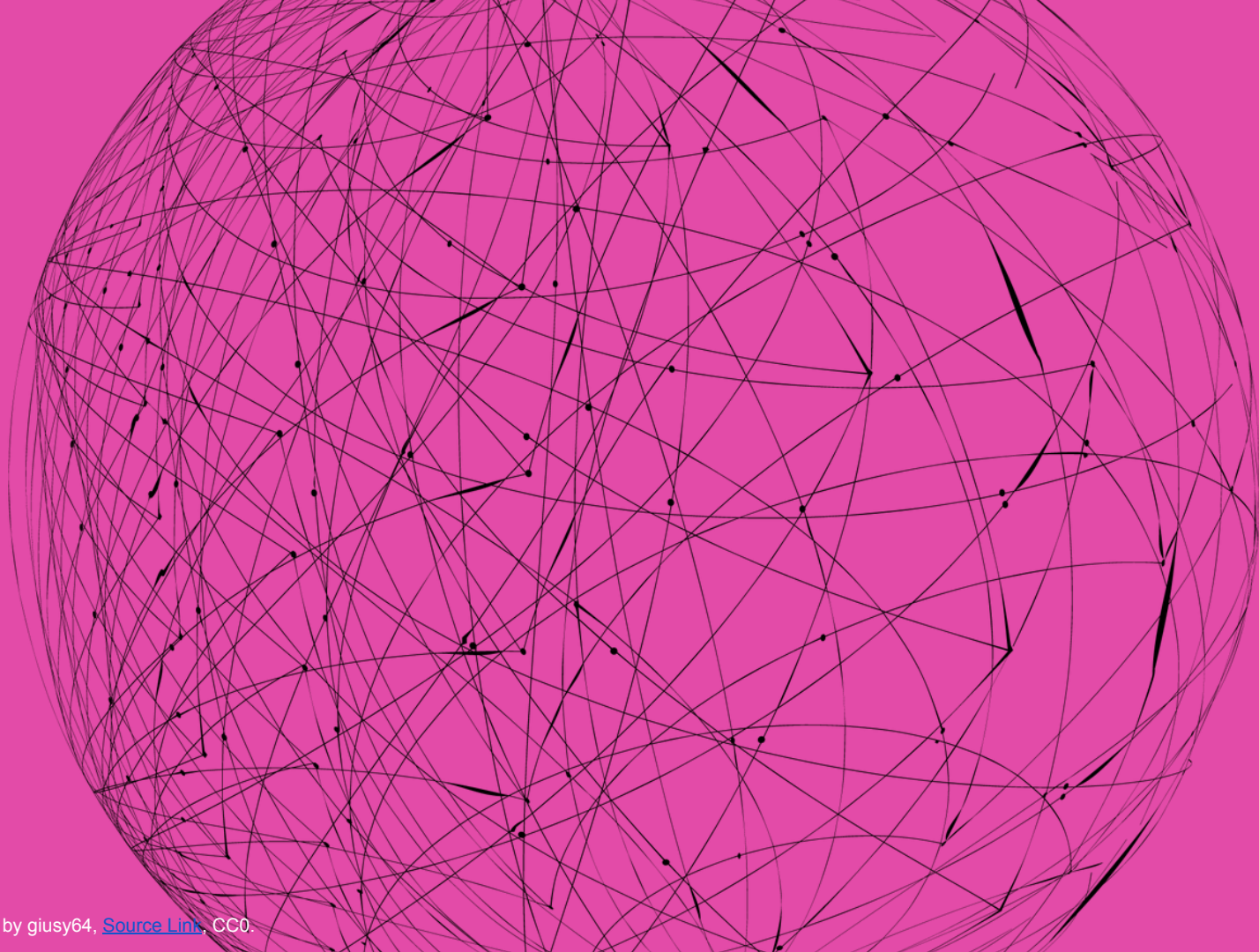
Encouragement of Learned Men to Compose and Write several Books: May it please Your Majesty, that it may be Enacted, and be it Enacted by the King's most Excellent Majesty, by and with the Advice and Consent of the Lords Spiritual and Temporal, and Commons in this present Parliament assembled, and by the Authority of the same, That from and after the Tenth Day of April, One thousand seven hundred and ten, the Author, or any Book or Books already Printed, who hath not Transferred to any other the Copy or Copies of such Book or Books, where or Whence thereof, or the Bookeller or Bookellers, Printer or Printers, or other Person or Persons, who hath or have Purchased or acquired the Copy or Copies of any Book or Books, in order to Print or Repress the same, shall have the sole Right and Liberty of Printing such Book and Books by the Term of One and twenty Years, to Commence from the said Tenth Day of April; and so longer; and that the Author of any Book or Books already Composed and not Printed and Published, or that shall hereafter be Composed, and be Written, or Written, shall have the sole Liberty of Printing and Repressing such Book and Books by the Term of Four



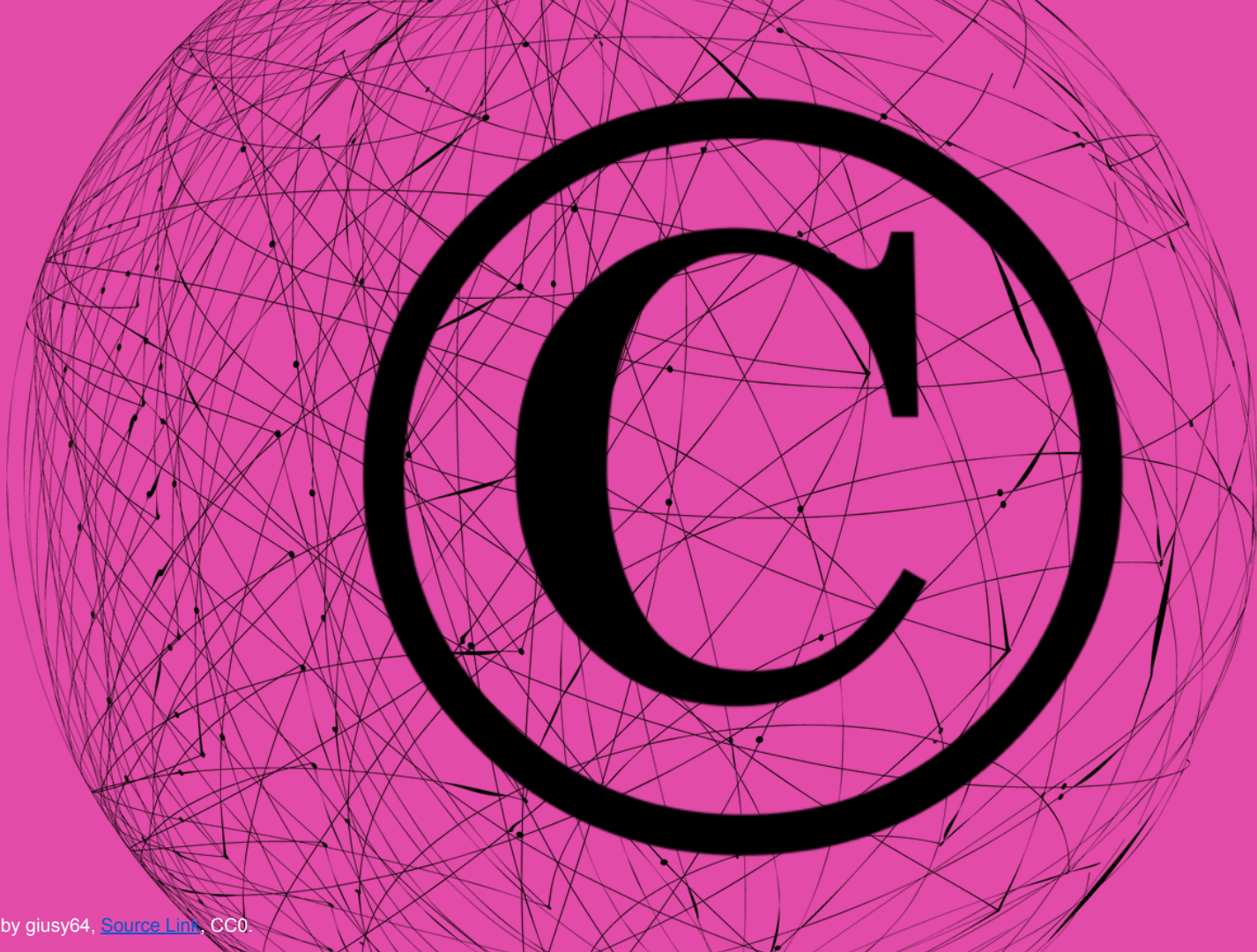
"Statute of Anne", British Government., [Source Link](#), Public Domain.

"Firmamentum Sobiescianum" by Johannes Hevelius, [Source Link](#), Public Domain.

"[Printing Press - English Common Press. Fawcner. 1700s](#)" by Jon Augier is licensed under [CC BY 4.0](#)

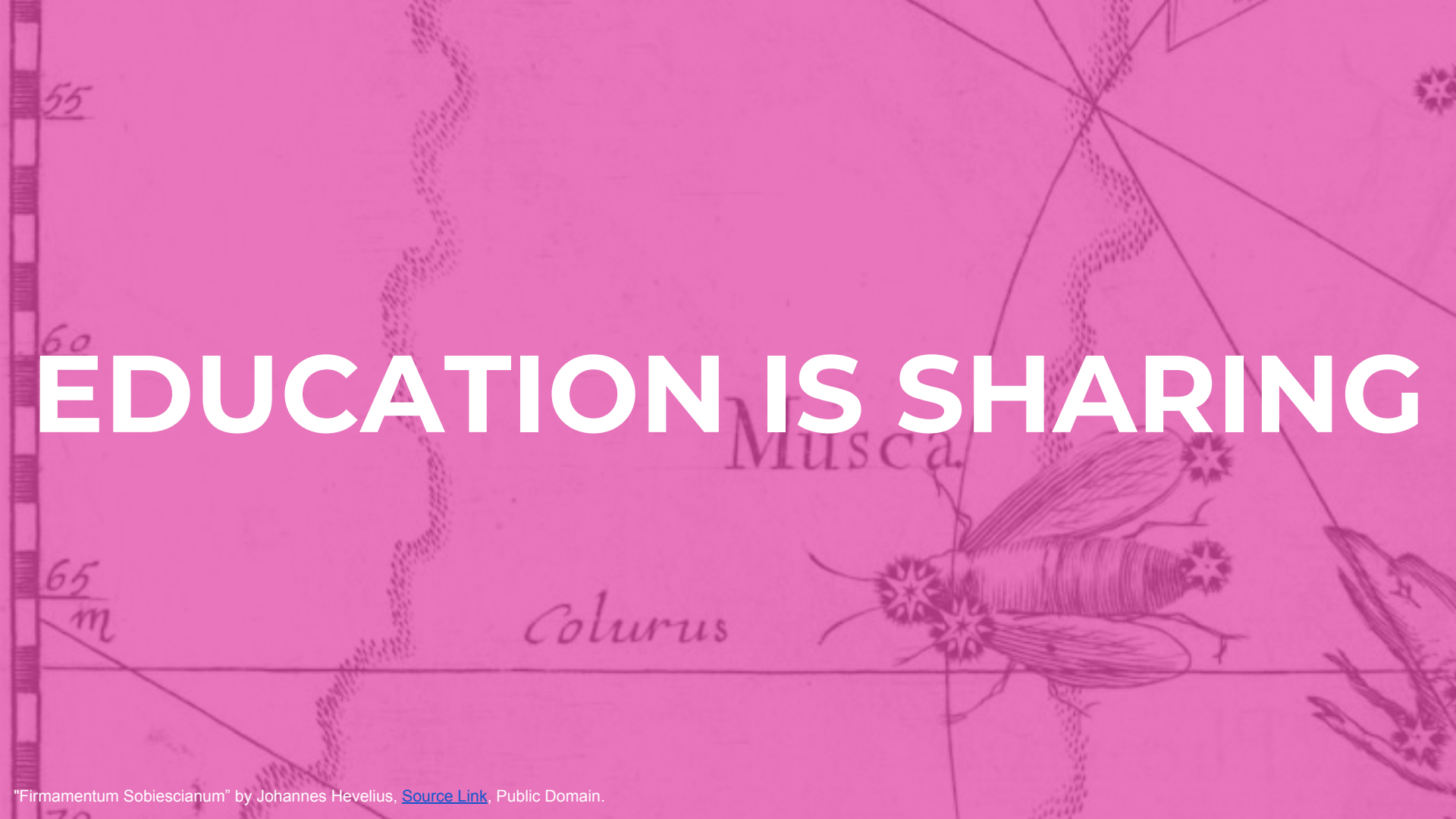


"Network" by giusy64, [Source Link](#), CC0.





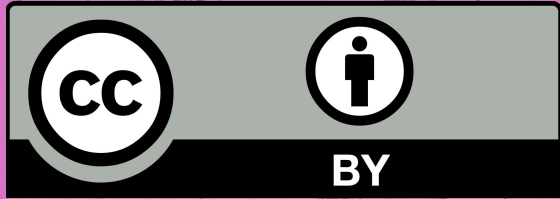




EDUCATION IS SHARING

OPEN EDUCATIONAL RESOURCES (OER)

are resources that reside in the public domain or have been released under an intellectual property license that permits their **FREE USE AND REPURPOSING BY OTHERS**



5Rs:

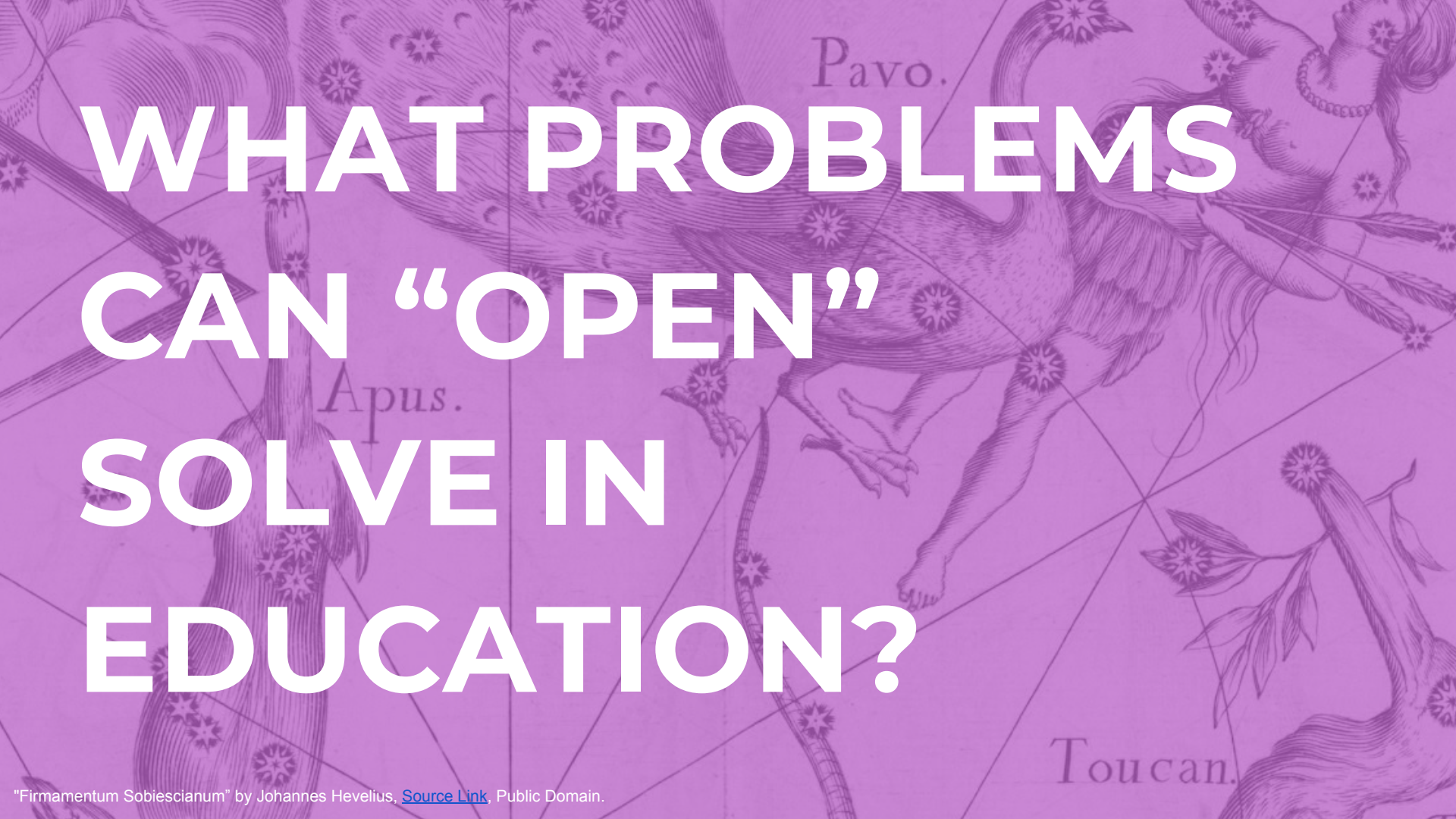
Retain

Reuse

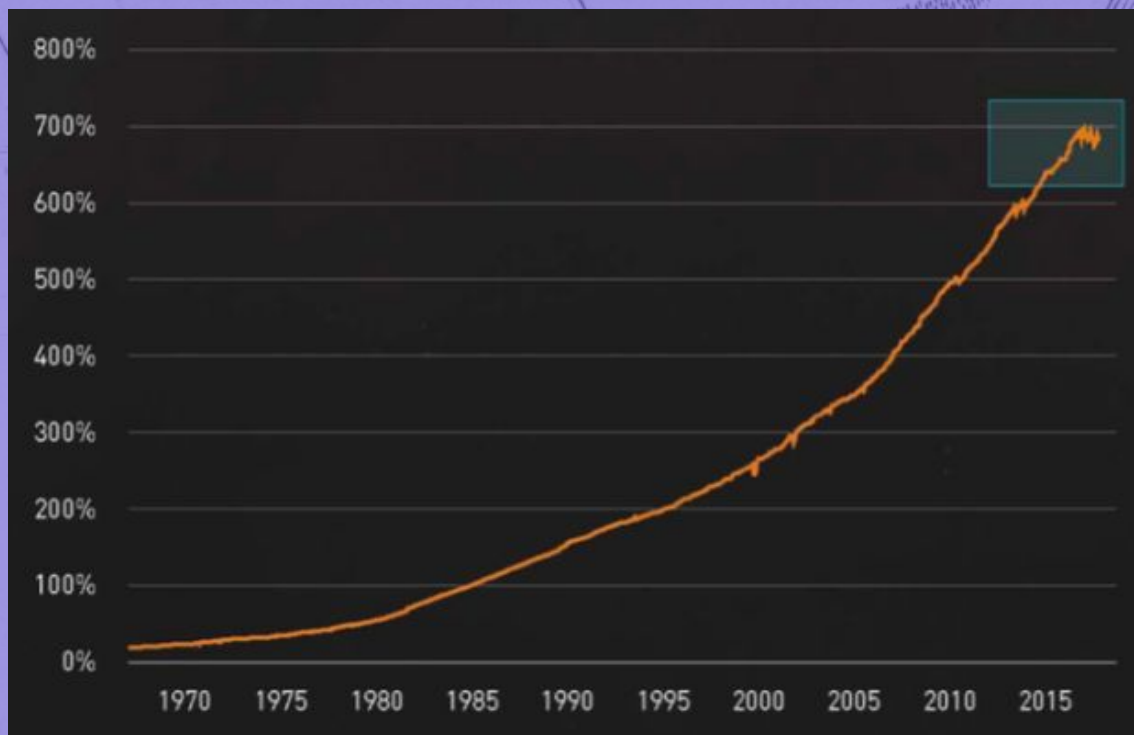
Revise

Remix

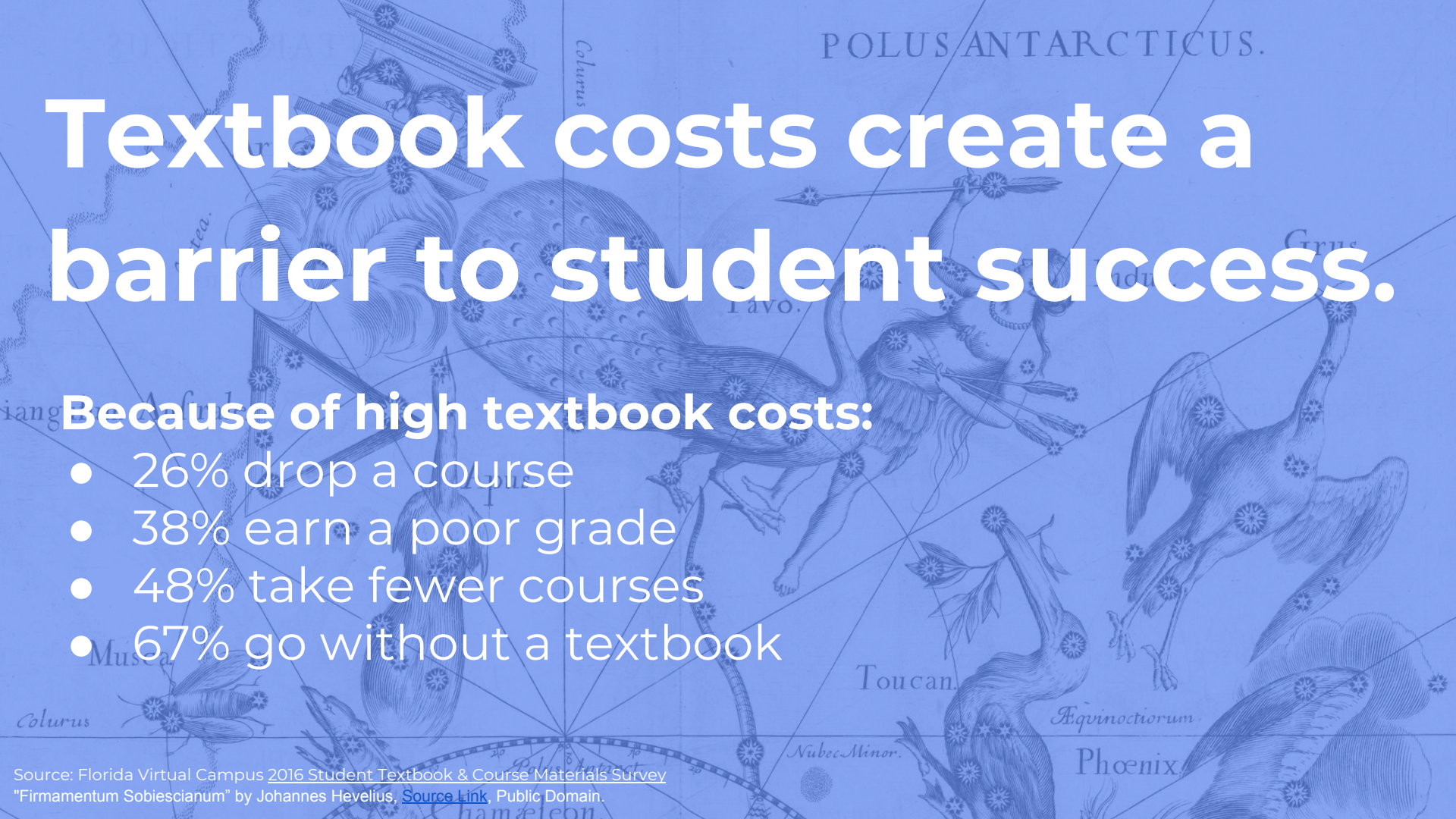
Redistribute



WHAT PROBLEMS CAN “OPEN” SOLVE IN EDUCATION?



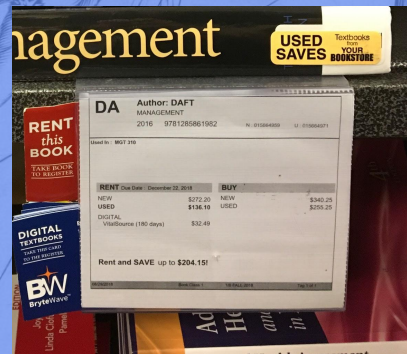
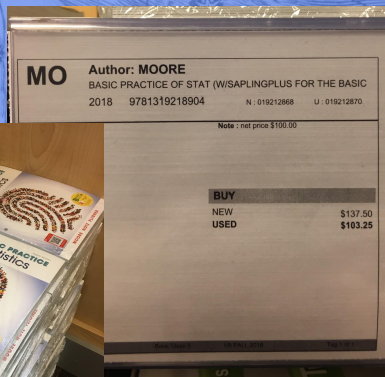
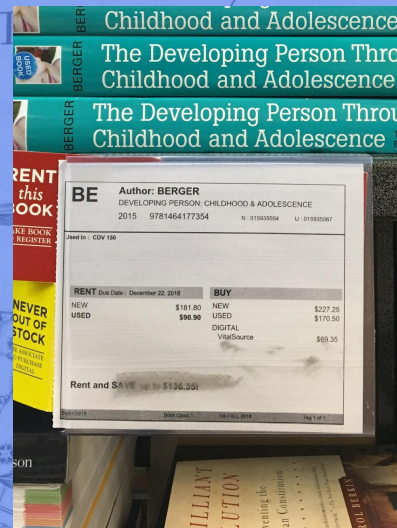
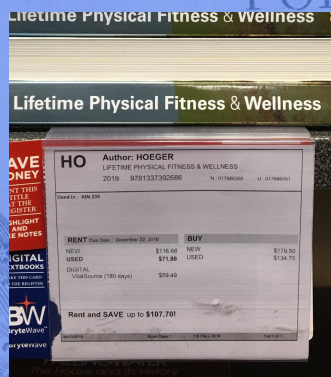
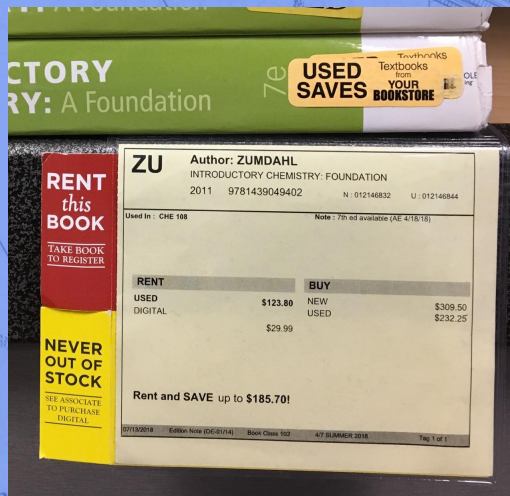
Source: Nicole Adams and OpenStax: <https://www.slideshare.net/txtbks/achieving-equity-through-open-educational-resources-sxswedu/34>
"Firmamentum Sobiescianum" by Johannes Hevelius, [Source Link](#), Public Domain.



Textbook costs create a barrier to student success.

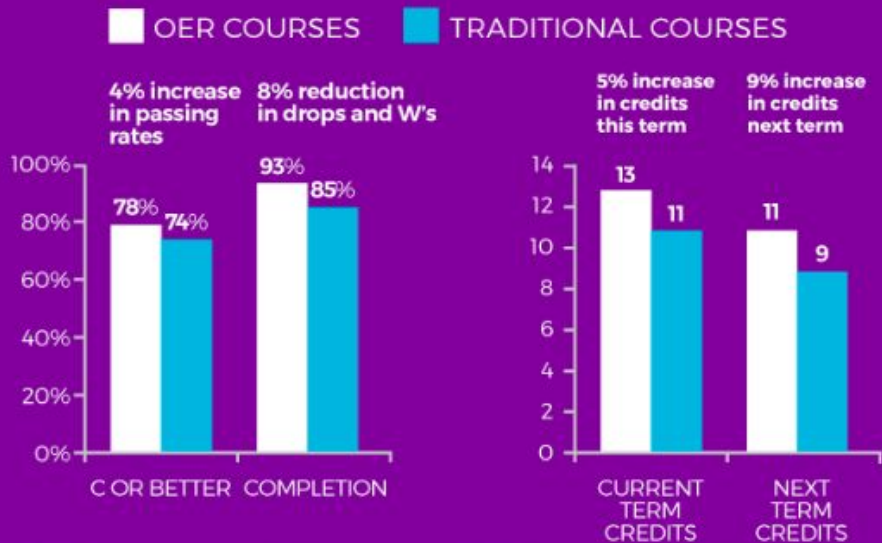
Because of high textbook costs:

- 26% drop a course
- 38% earn a poor grade
- 48% take fewer courses
- 67% go without a textbook





RESEARCH: LUMEN OER IMPROVES PASSING RATES IN MULTIPLE SUBJECTS



SAMPLE: 4,909 open course students, 11,818 traditional course students, 50 different undergraduate courses, 130 teachers, 8 institutions in 2014-2015 academic year.

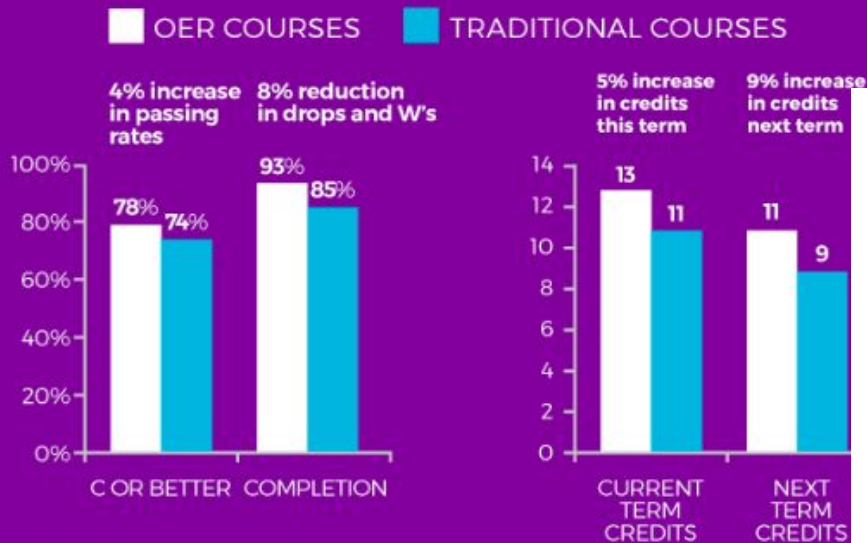
METHOD: Quasi-experimental design with: Propensity Score Matching, Post Test Only.

DEPENDENT VARIABLES: Completion, C or Better, Credits Enrolled This Term, Next Term, Independent variable: Textbook condition, 3 covariates: including age, gender, and race.

SOURCE: Published in the Journal of Computing in Higher Education <https://link.springer.com/article/10.1007/s12528-015-9101-x/fulltext.html>



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Nicole Allen

@bxtbks

Following

Five years ago we challenged the #OER movement to save students \$1 billion by 2018. Today at #OpenEd18 we officially announced... WE DID IT! 🎉🎉🎉



\$1 Billion in Savings through Open Educational Re...

Five years ago we issued a challenge to the OER community to save students \$1 billion by 2018. Today we announced that we did it!

sparcopen.org

7:04 AM - 12 Oct 2018 from Buffalo, NY

85 Retweets 182 Likes



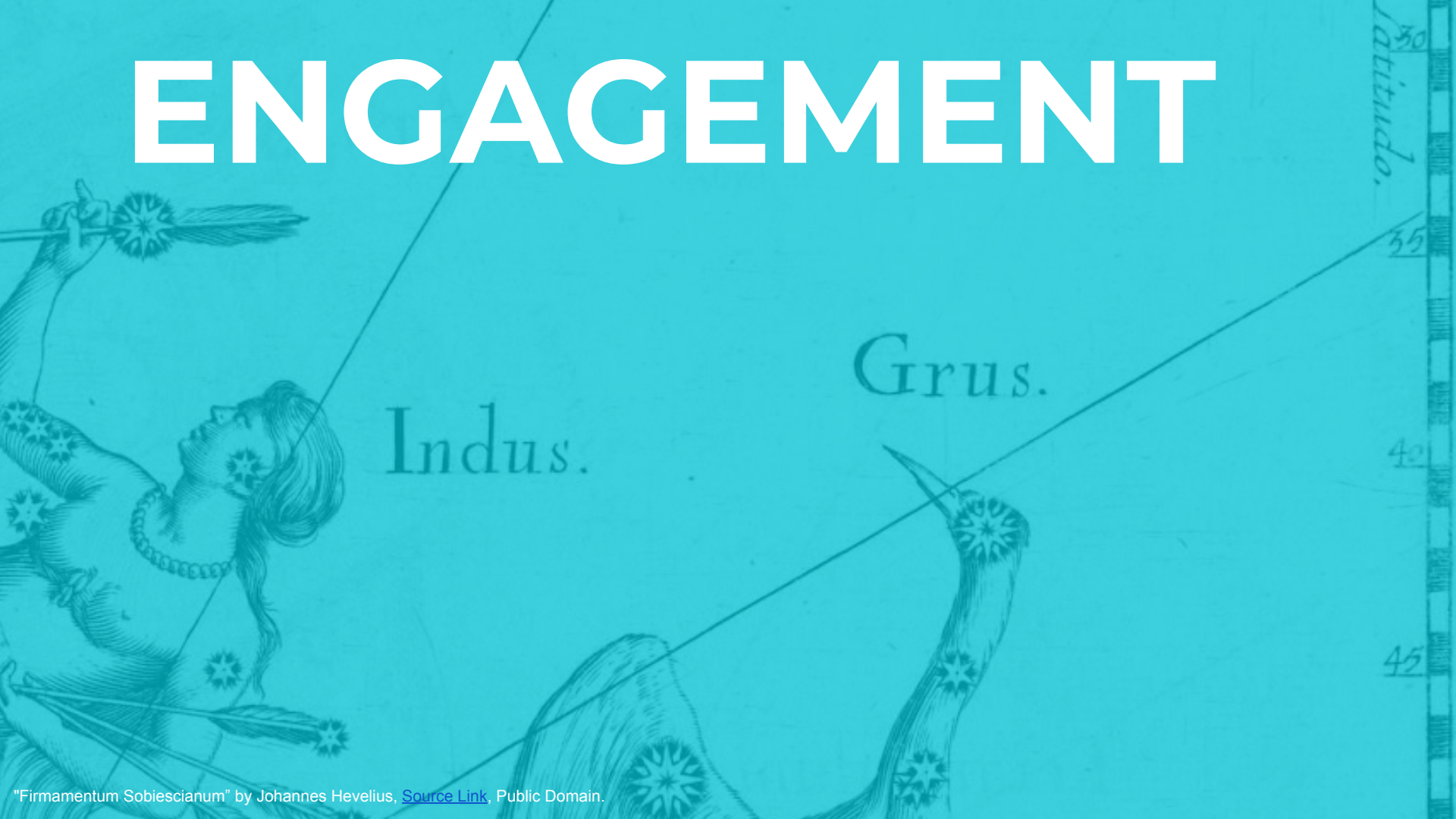
7

85

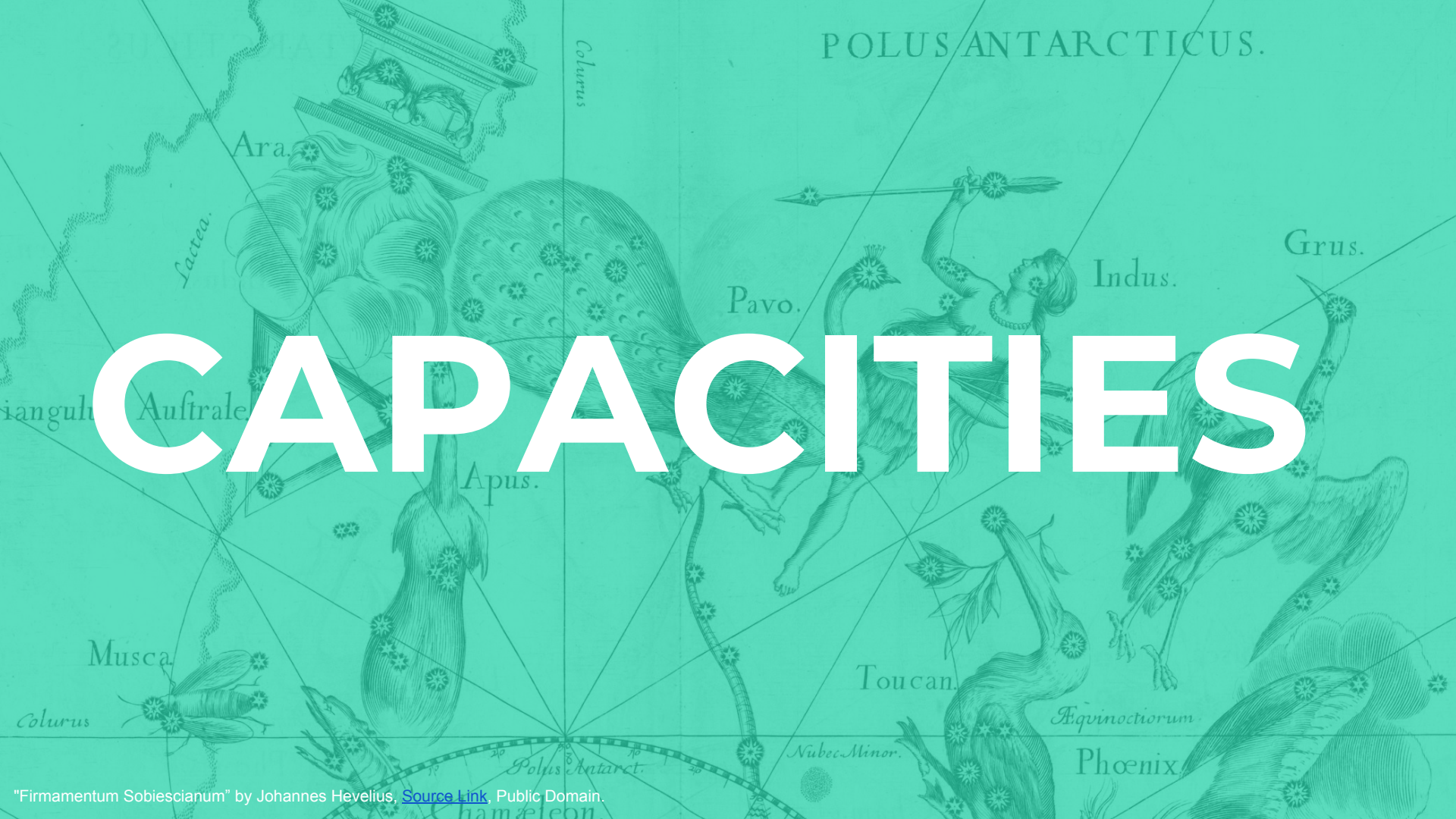
182



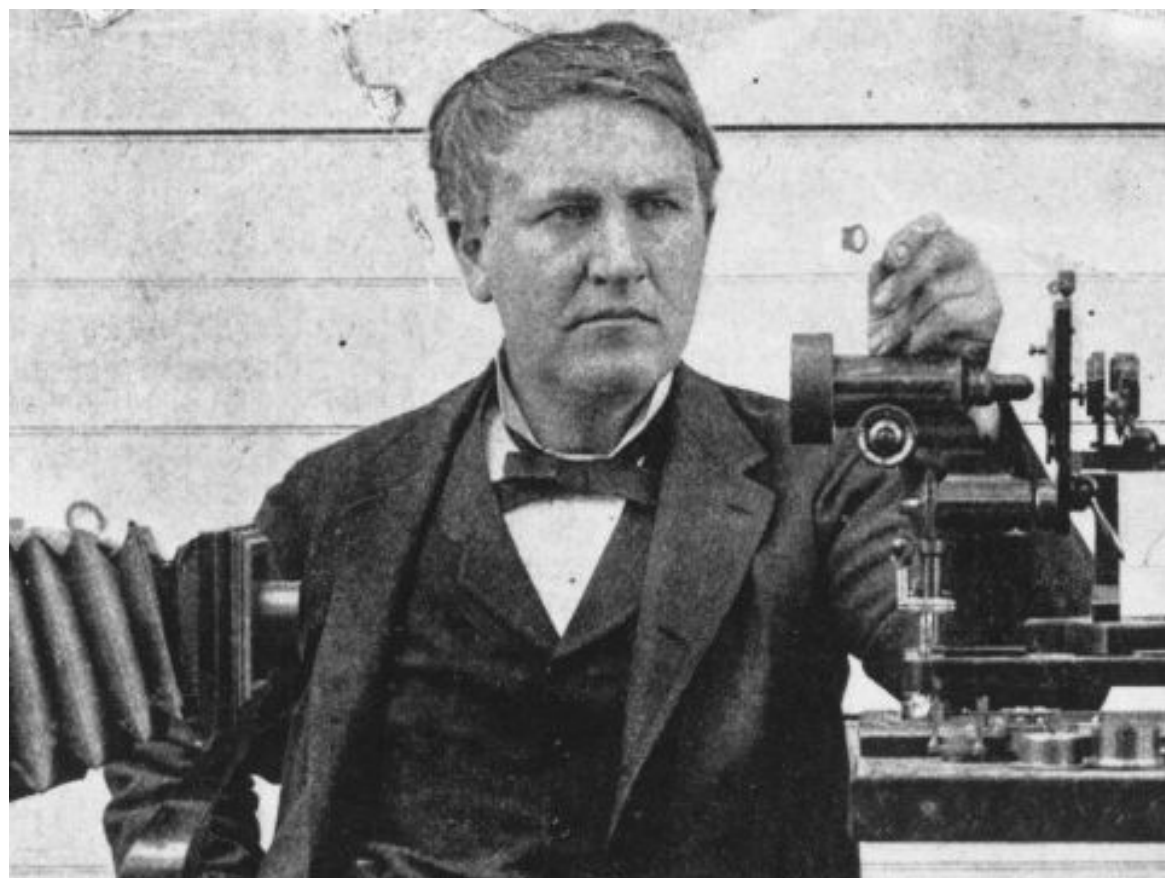
ENGAGEMENT



CAPACITIES

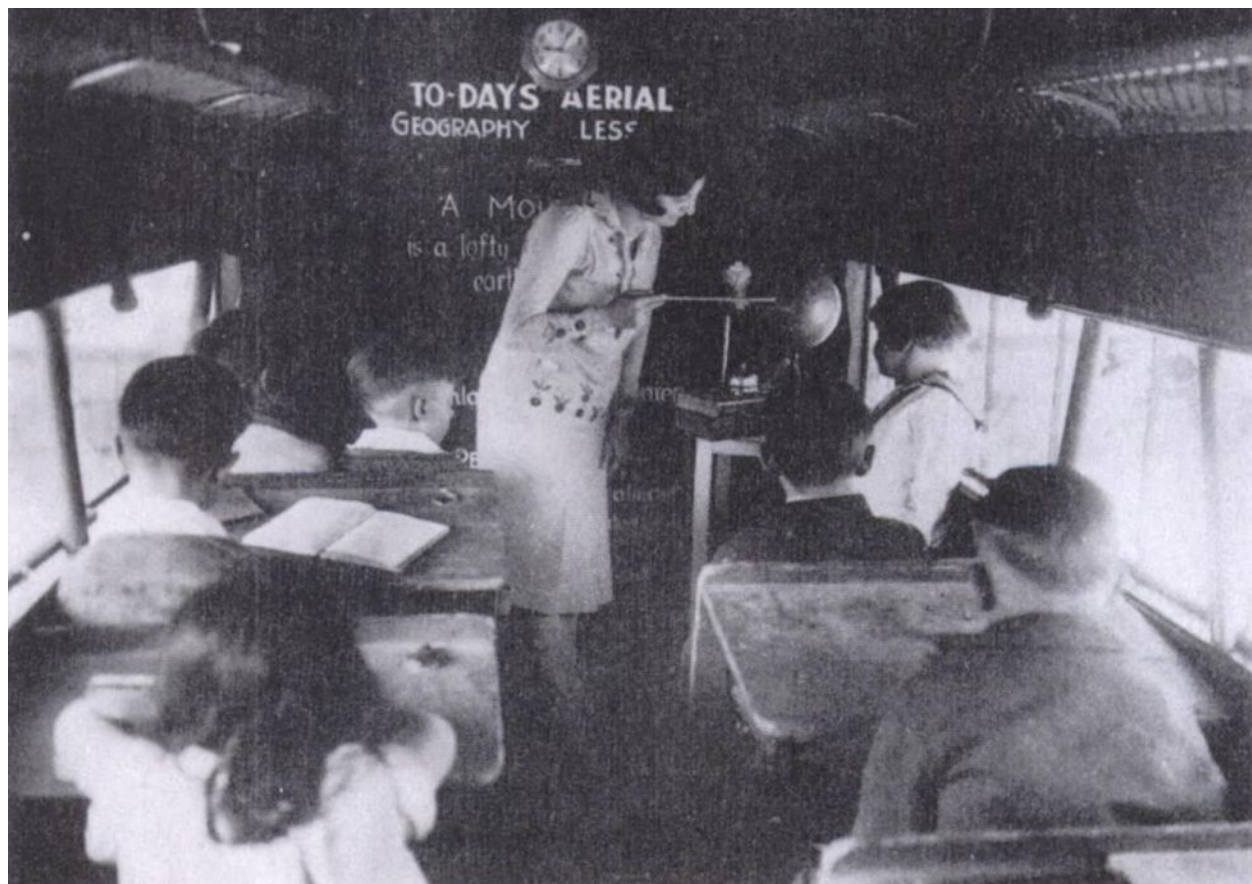


"Firmamentum Sobiescianum" by Johannes Hevelius, [Source Link](#), Public Domain.

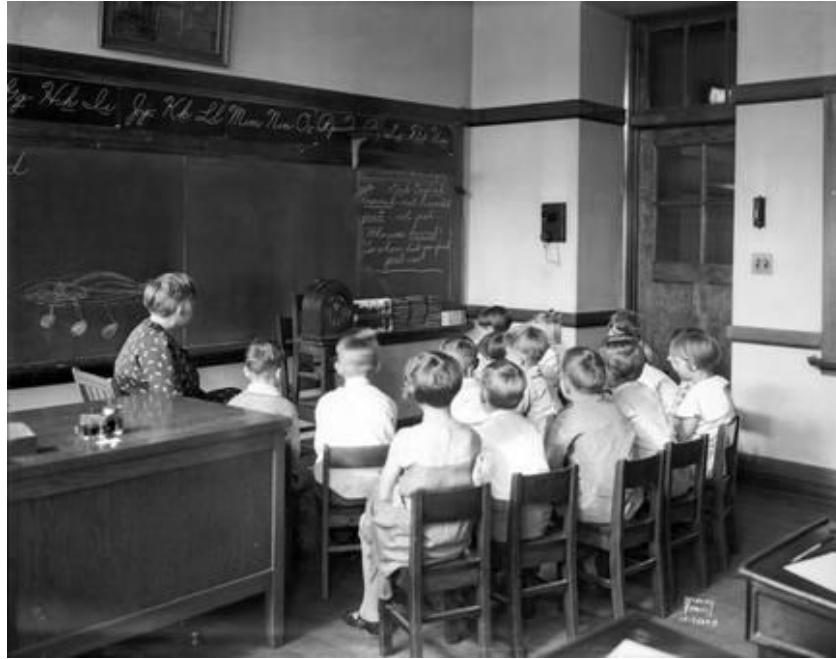


“...Our school system will be completely changed inside of ten years.”

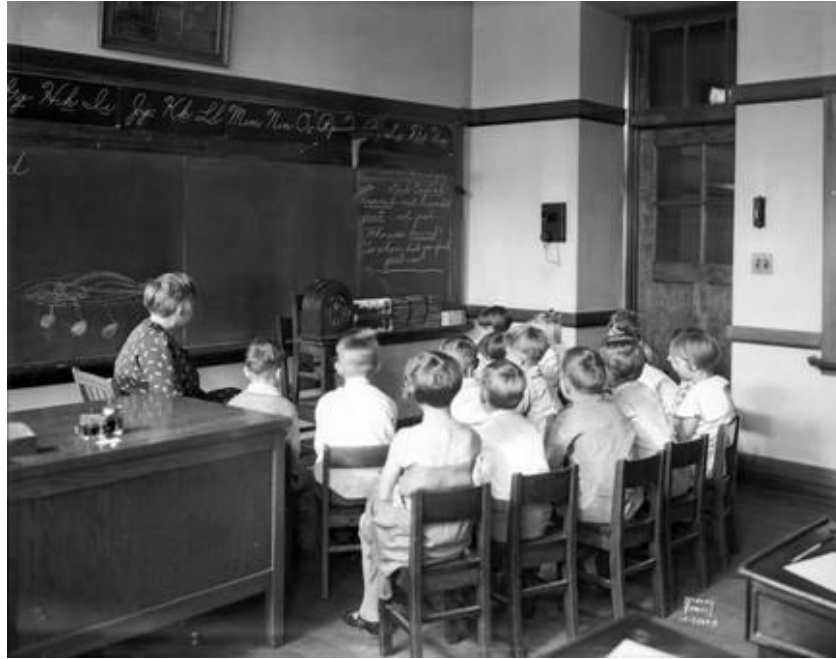






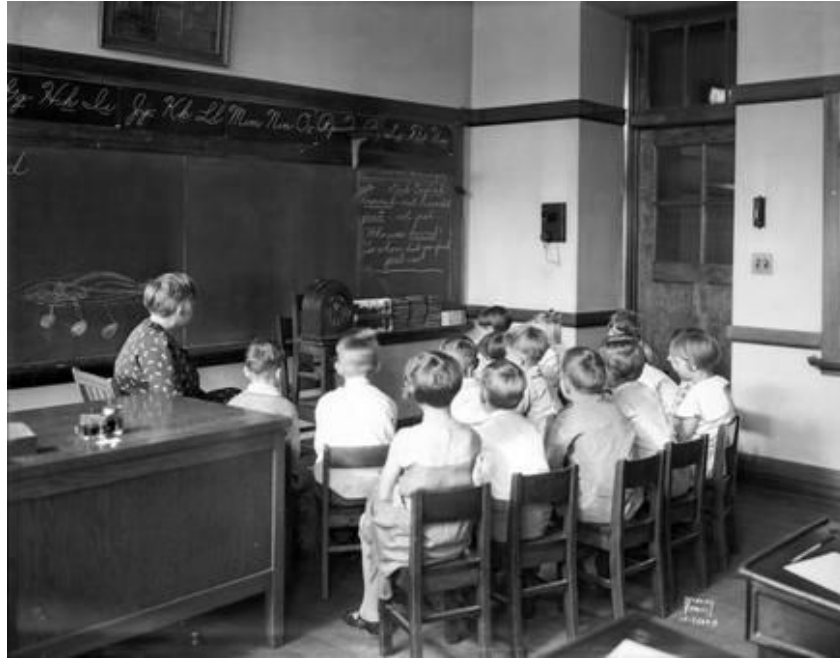


“Undreamed of possibilities for education...”
Farrand, 1931



“Will resurrect the aural instructional techniques employed so successfully by famous teachers of the past like Socrates!”

Tyson, 1931



“There will be vast universities of the air, with courses taught by the national leaders of their fields...”

Waller, 1934



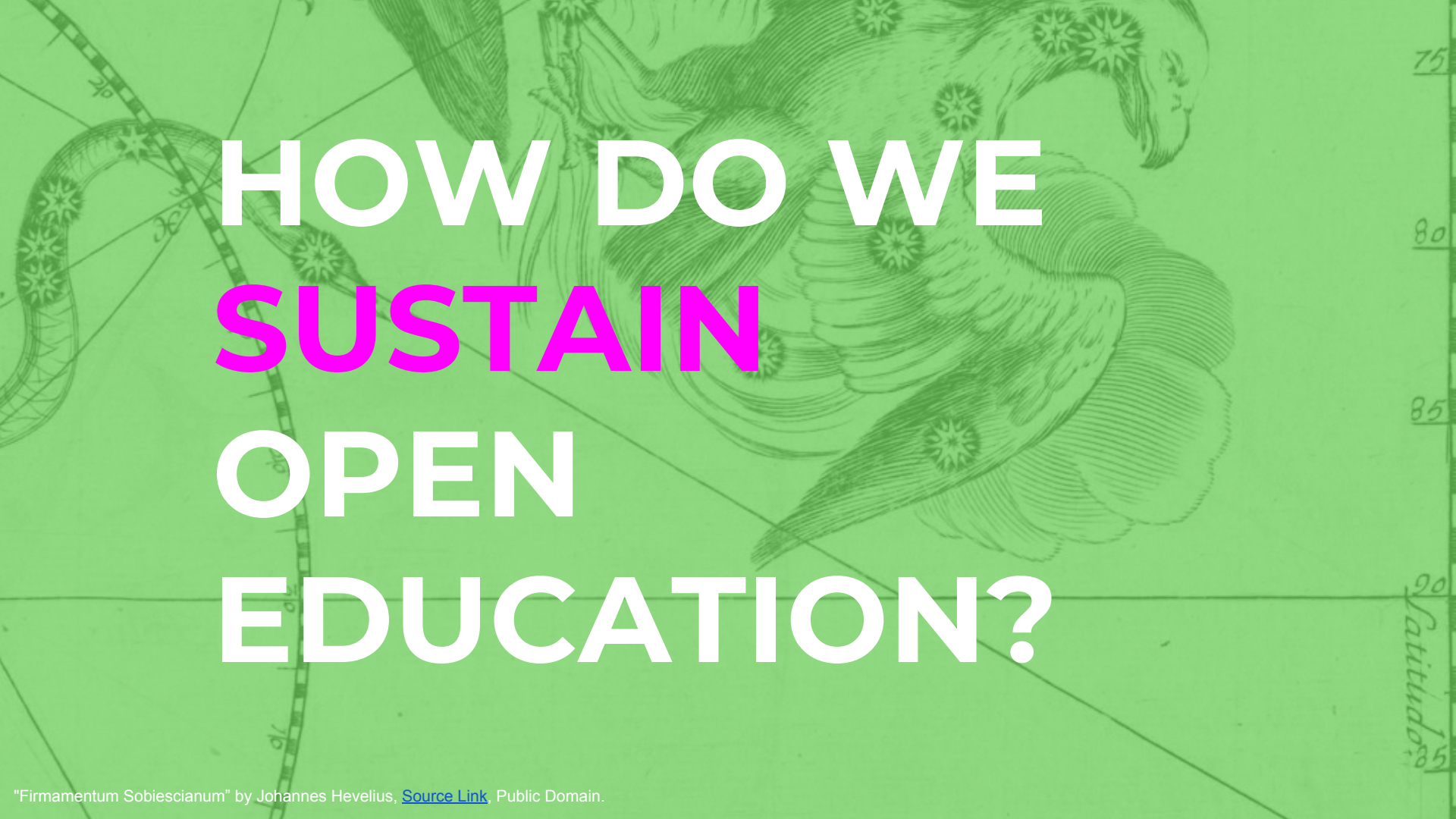
“...television is an efficient and inexpensive way to satisfy the nation’s instructional needs.”

Jones, 1957



“...will provide students access to the personal services of a tutor as well-informed and responsive as Aristotle.”

Suppes, 1976

The background is a green-tinted illustration of a parrot, likely a macaw, perched on a branch. The parrot is facing right and has its wings partially spread. The illustration is overlaid on a celestial map featuring a grid of latitude and longitude lines. The word "Latitudo" is written vertically on the right side of the map. The text "HOW DO WE SUSTAIN OPEN EDUCATION?" is centered over the image in a large, bold, sans-serif font. The word "SUSTAIN" is colored magenta, while the other words are white.

HOW DO WE SUSTAIN OPEN EDUCATION?



Catherine Cronin, Ph.D.

The term 'open educational practices' (OEP) describes **practices** that include the creation, use and reuse of open educational resources (OER) as well as open pedagogies and open sharing of teaching practices.

<https://catherinecronin.net/resources/phd-thesis-openness-and-praxis/>

Making OER Work

lumenlearning.com



Curation and Creation: Time and expense to find, vet licensing, create, update, and improve OER, organized as a complete course

Technology: Platform to access, edit, and share

Accessibility: Evaluation and amendment of content to ensure equitable access to all students

Faculty support: Training and supplemental resources to ease transition for faculty

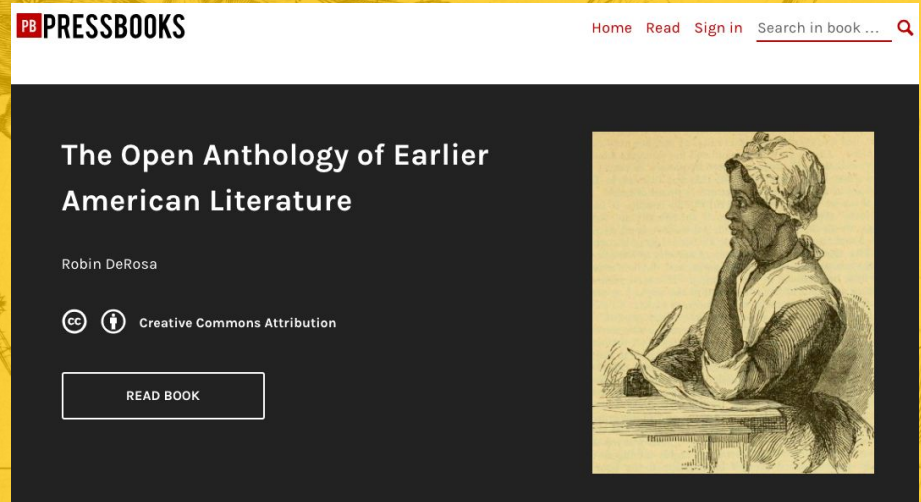
Assessments: Development of well-aligned, high-quality assessments



Robyn DeRosa's Open Anthology of Early American Literature

<https://openamlit.pressbooks.com/>

<https://robinderosa.net/uncategorized/my-open-textbook-pedagogy-and-practice/>





David Wiley's Renewable Assignments

<https://opencontent.org/blog/archives/4691>

Toward Renewable Assessments

Posted on July 7, 2016 by david

For some time now I've been critical of "disposable assessments." An assessment can be characterized as "disposable" if everyone understands that its ultimate destiny is the garbage can. Take an all-too-typical example:

- Faculty member assigns student to write a two page compare and contrast essay
- Student writes the paper and submits it to faculty
- Faculty grades the paper and returns it to student
- Student checks what grade they received, briefly peruses any written



DS106 (Martha Burtis et al) Assignment Bank

<http://assignments.ds106.us/>

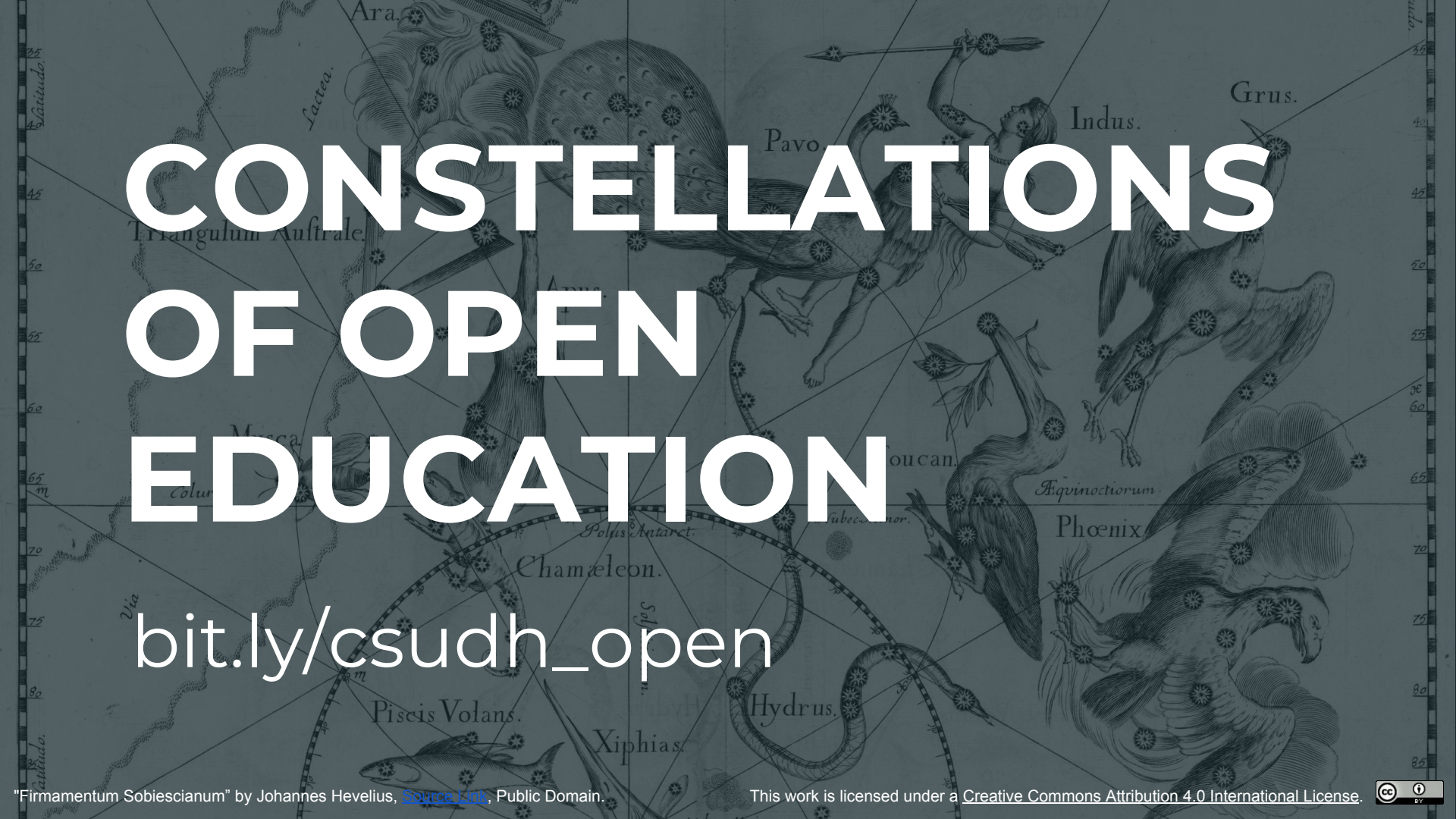




SPARC*



EXPLORE. TRY. SHARE.



CONSTELLATIONS OF OPEN EDUCATION

bit.ly/csudh_open