Optimising for the Future:

Cooperative Open Source Software for Higher Education

Ian Dolphin

Apereo Foundation

ian.dolphin@apereo.org

More about why this sign was created at http://www.intrastructures.net/Intrastructures/Actions_-_The_next_big_thing_2.html

Apereo is Global

But registered as a non-profit in the US
Talking about the "Why" of open source
Context: international higher education

Changing Fashions. The Cloud - Silver Lining?

In the US, "Cloud First" becomes "Cloud Only"
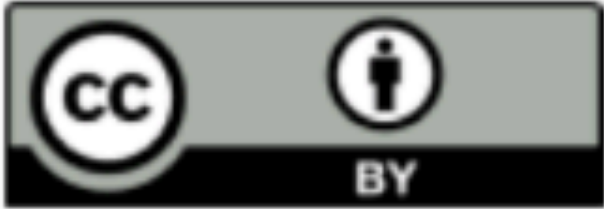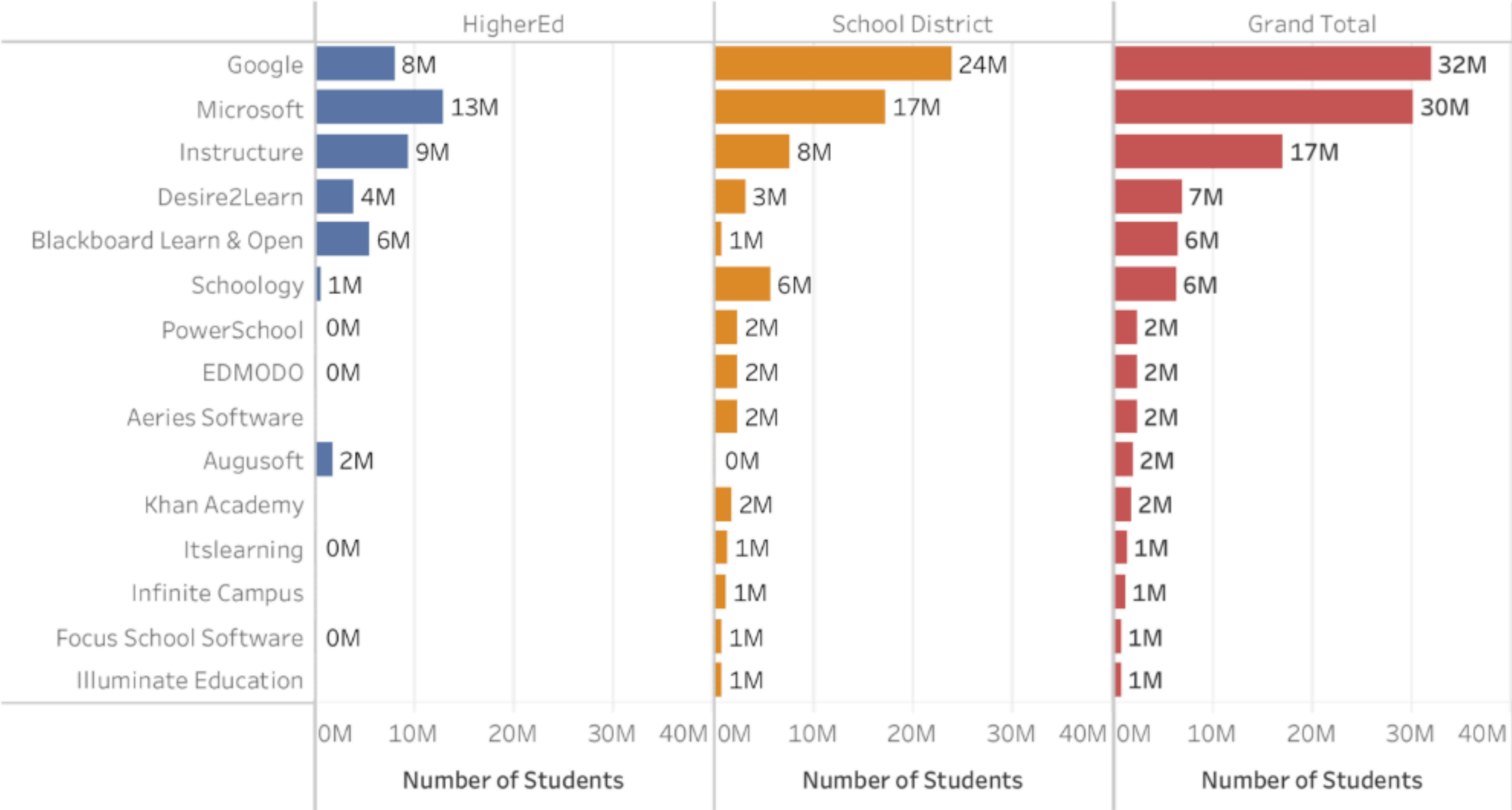
Typically proprietary

Impacts capacity

Flexibility?

A new lock-in - with better locks

Who Owns Higher Ed Data …?

EdTech Companies with the Most Student Data

	HigherEd	School District	Grand Total
Google	8M	24M	32M
Microsoft	13M	17M	30M
Instructure	9M	8M	17M
Desire2Learn	4M	3M	7M
Blackboard Learn & Open	6M	1M	6M
Schoology	1M	6M	6M
PowerSchool	0M	2M	2M
EDMODO	0M	2M	2M
Aeries Software		2M	2M
Augusoft	2M	0M	2M
Khan Academy		2M	2M
Itslearning	0M	1M	1M
Infinite Campus		1M	1M
Focus School Software	0M	1M	1M
Illuminate Education		1M	1M

Number of Students (0M–40M for each panel)

LIST ed TECH

https://www.listedtech.com/blog/edtech-companies-with-the-most-student-data

"Surveillance Capitalism"?

Creating
  "prediction products"
  "behavioural futures markets"
Massively scaled data-gathering

Threat to individual self-determination?
Capable of regulation?

Facebook Inc   + Add to myFT

Facebook to pay $5bn to resolve probe into privacy violations
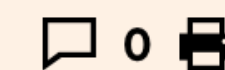
Zuckerberg will have to certify compliance with new data rules every quarter

Twitter
Facebook
in
Share
Save

Mark Zuckerberg, chief executive, and the privacy officers will be required to certify that the company is in compliance with Facebook's privacy programme on a quarterly basis © AP

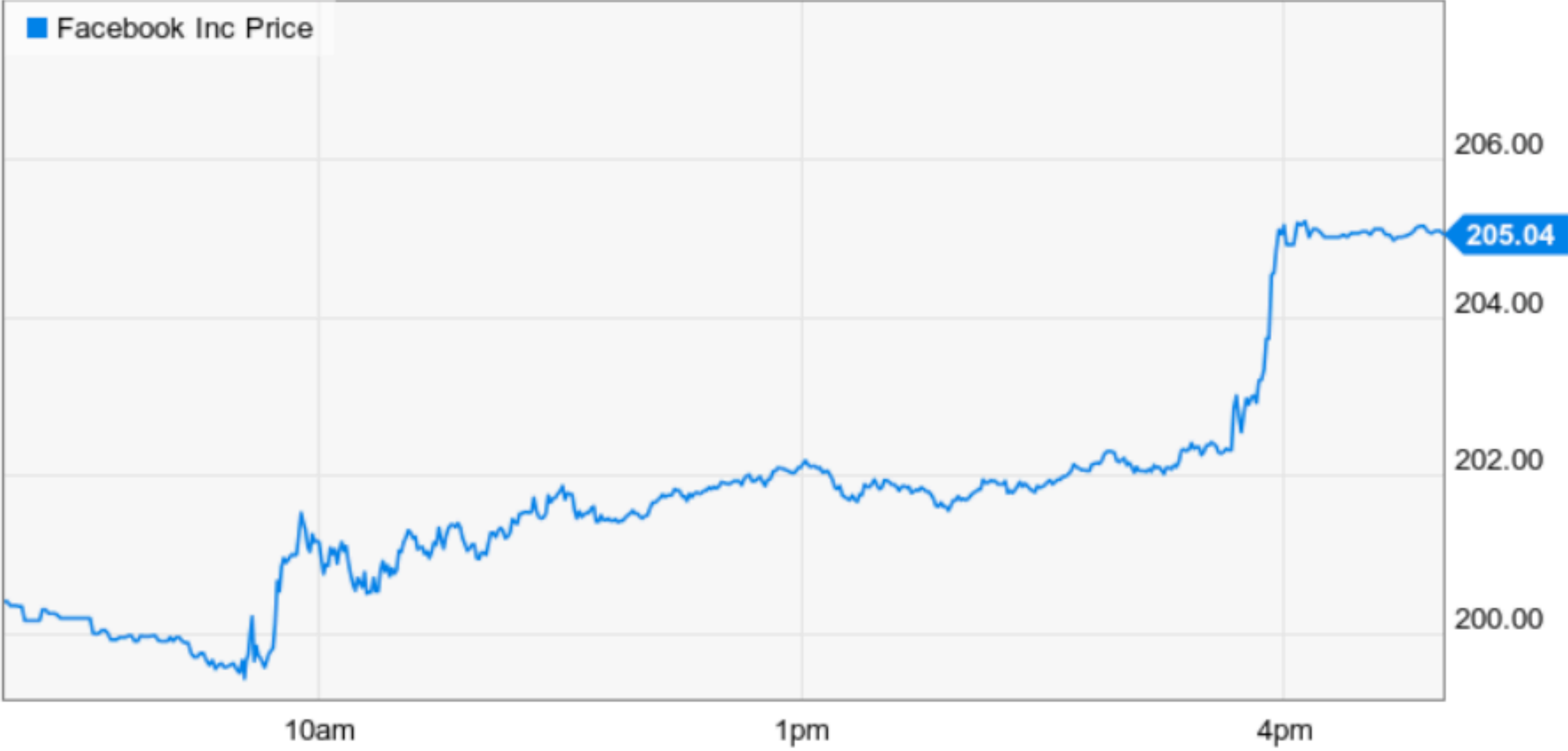**Kiran Stacey** in Washington and **Hannah Murphy** in San Francisco 2 HOURS AGO

0

Facebook has agreed to pay more than $5bn to settle its cases with US regulators over misusing user data, in two settlements that it hopes will help alleviate some of the political hostility it has faced since the Cambridge

What happened next?

Friday, July 12

Facebook Inc Price

205.04

206.00

204.00

202.00

200.00

10am   1pm   4pm

The Motley Fool

Jul 15 2019, 12:39PM EDT. Powered by YCHARTS

The Wheel Turns: "Hybrid Optimization"
(Gartner, NYCIO Conference July 2019)

Rebalancing:

Edge / Private Cloud / Public Cloud

"Core and Chore"

END OF IT AS WE KNOW IT
By Christopher O'Malley, Computerworld | 4 NOVEMBER 2011 0:45 GMT

OPINION
IT Services: Core and chore, part 1

As enterprises grow increasingly reliant on external service providers, CIOs have to keep asking a fundamental question: "What's core and what's chore?" If something is core, then it makes sense to keep doing it internally. If it's just chore, then it's probably best offloaded to an external provider.

https://www.computerworld.com/article/2471514/it-services--core-and-chore--part-1.html
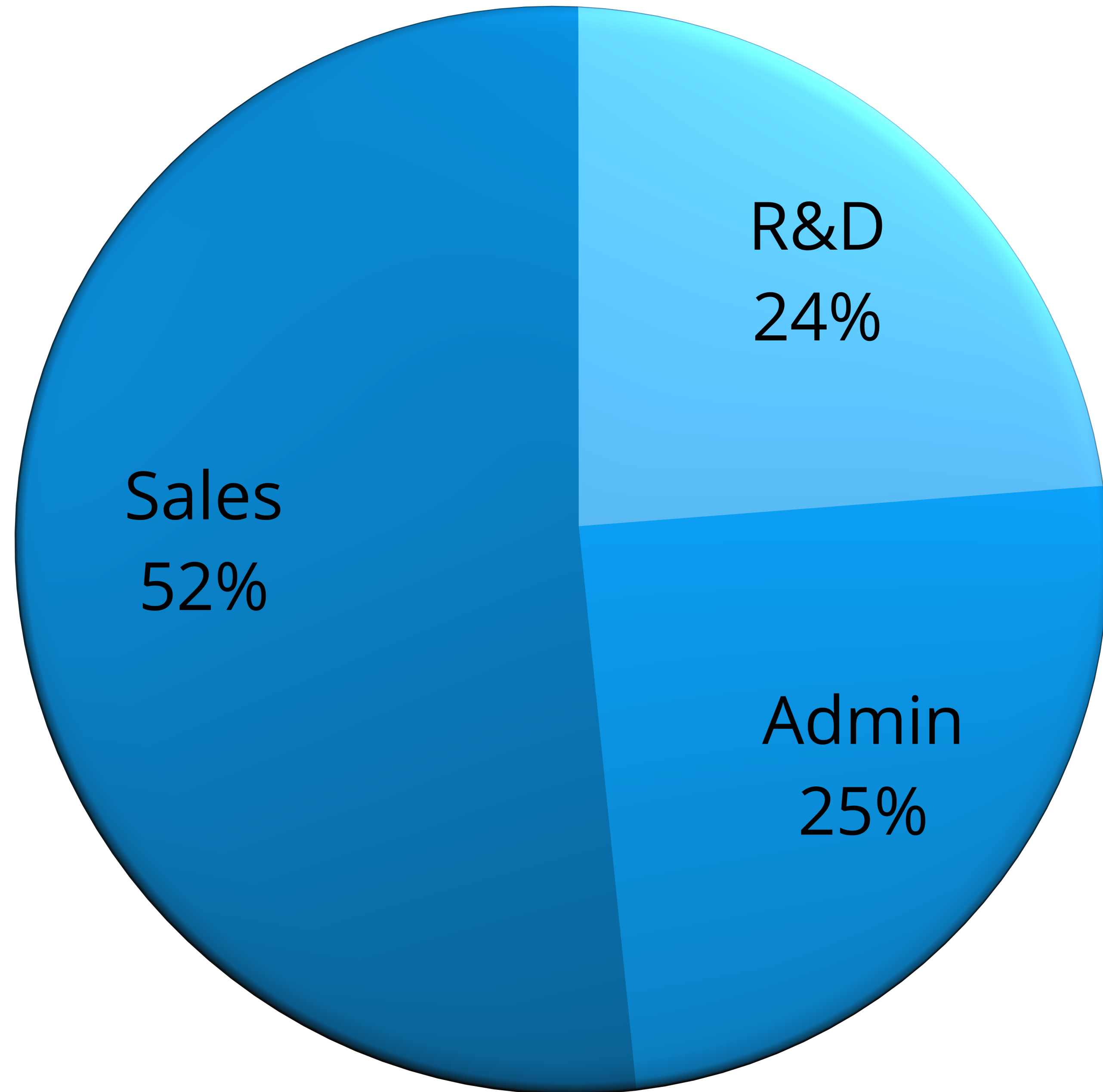
Open Source Software in Higher Education

"In education, government, and anywhere primarily supported by public funding, it makes sense to use software that doesn't lock you in or quietly convert public funds into private equity."

Ben Werdmüller   https://werd.io/view/5ca3c283d3c9b259255f0bd2

An .edu IPO ...

Which pays for …

Meanwhile…

Student Debt - Individual

Comparability difficulties

UK £36,000   **(€42,508)**

US $37,000   **(€33,430)**

Germany: Average debt **€5,600.00**

France: Less than 2% of students take out loans.

https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN01079

https://time.com/5662626/student-loans-repayment/

Wikipedia "Les bourses de l'enseignement supérieur" (in French). Retrieved 2018-05-11
https://www.linternaute.fr/argent/guide-de-vos-finances/1407390-bourse-d-etudiant-les-montants-de-la-rentree-prochaine-enfin-devoiles/

Open Source: Cost, Suitability, Control

Licensing cost saved

    ...can be invested in capacity

Upgrade according to **your** plan, not vendors

Needs can be realised directly, and shared

Innovation

eLearning is not a product or product category
We should still be learning about learning
... and innovating around that learning

Collaborate and cooperate to reduce costs

Ugly Acronyms: NGDLE's
Next Generation Digital Learning Environments

Please note the **plural**

Different institutions, different needs

But conceptually similar - flexibility

And re-using open source code

NGDLE **not a product category**

Learning App Store

Filter by keyword

Quick Write

A simple tool to prompt users to respond to short answer questions.

Details   **+ Install**

Interactive Video

This tool allows a user to add questions to a Warpwire video.

Details   **+ Install**

Flashcards

Create flashcard sets that include text, images, MP3s, or videos that your students can use to study important material in your course sites. They are fun and work great

Details   **+ Install**

Learning Journal

This app allows students to enter multiple journal entries on a defined topic.

Details   **+ Install**

Knowledge Check

Create small quizzes that include multiple choice or true/false questions for students to use to assess their knowledge after completing a reading, watching a video, or

Details   **+ Install**

Pre/Post

This is a simple tool to allow an instructor to create a question for a student to answer before and after an activity.

Details   **+ Install**

SPRING 2018 ▾

⊞   Sort by ▾

HLTHMGMT 540CI-401
Secondary Use of Healthcare Data   ⋮

#	⦿	🔗
Slack	GitHub	Character Lim
📖	📅	🔗
Sakai Gradebook	Custom Link	Custom Link
📖	📅	+
Sakai Gradebook	Custom Link	**ADD APP**

ACCOUNTG 245F-00A
Intro To Financial Accounting   ⋮

#	⦿	🔗
Slack	GitHub	Character Lim
📖		
Sakai Gradebook		
	+	
	ADD APP	

HISTORY 790S-10-01
Rdngs Empr/Colonial Encounters   ⋮

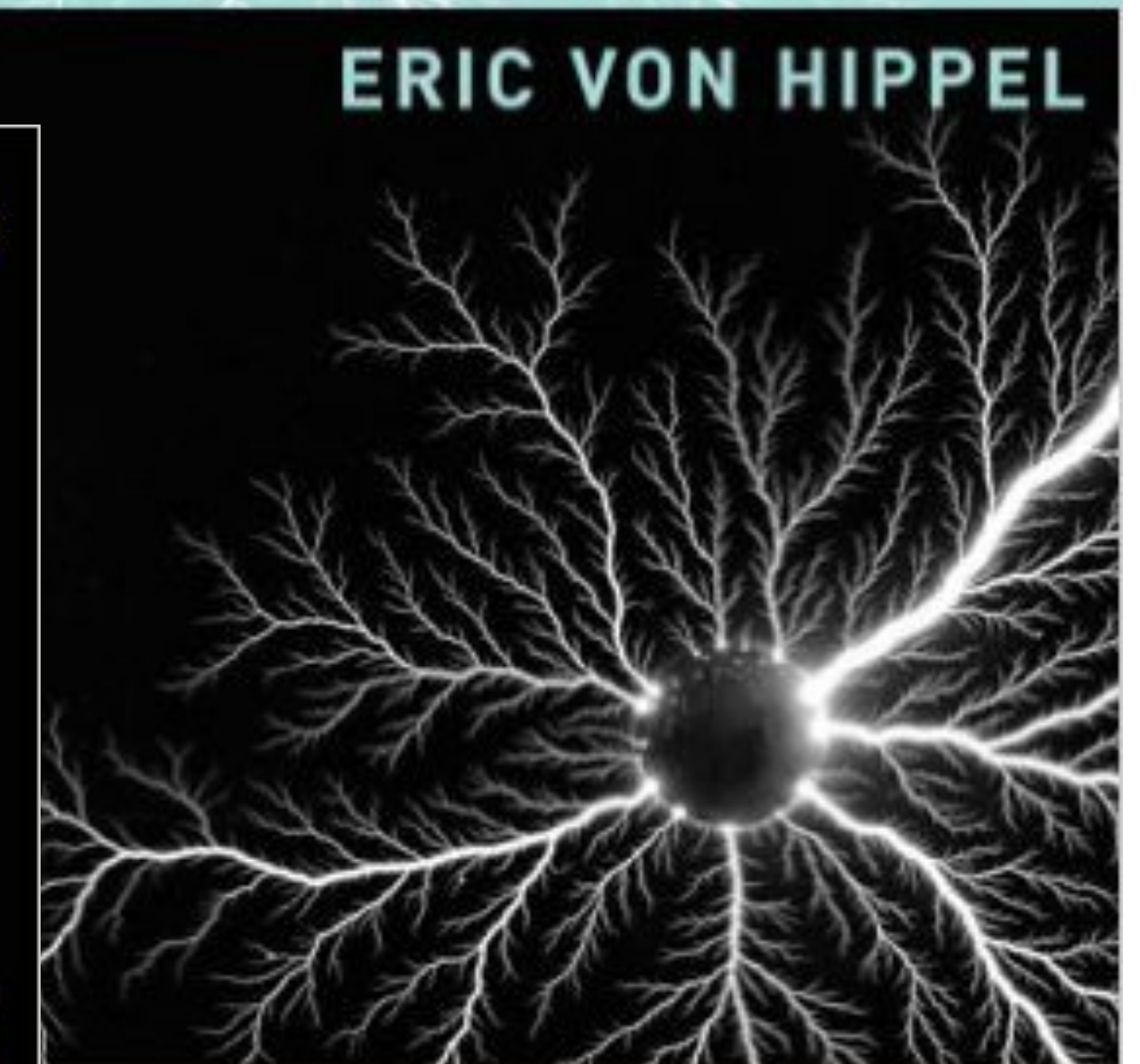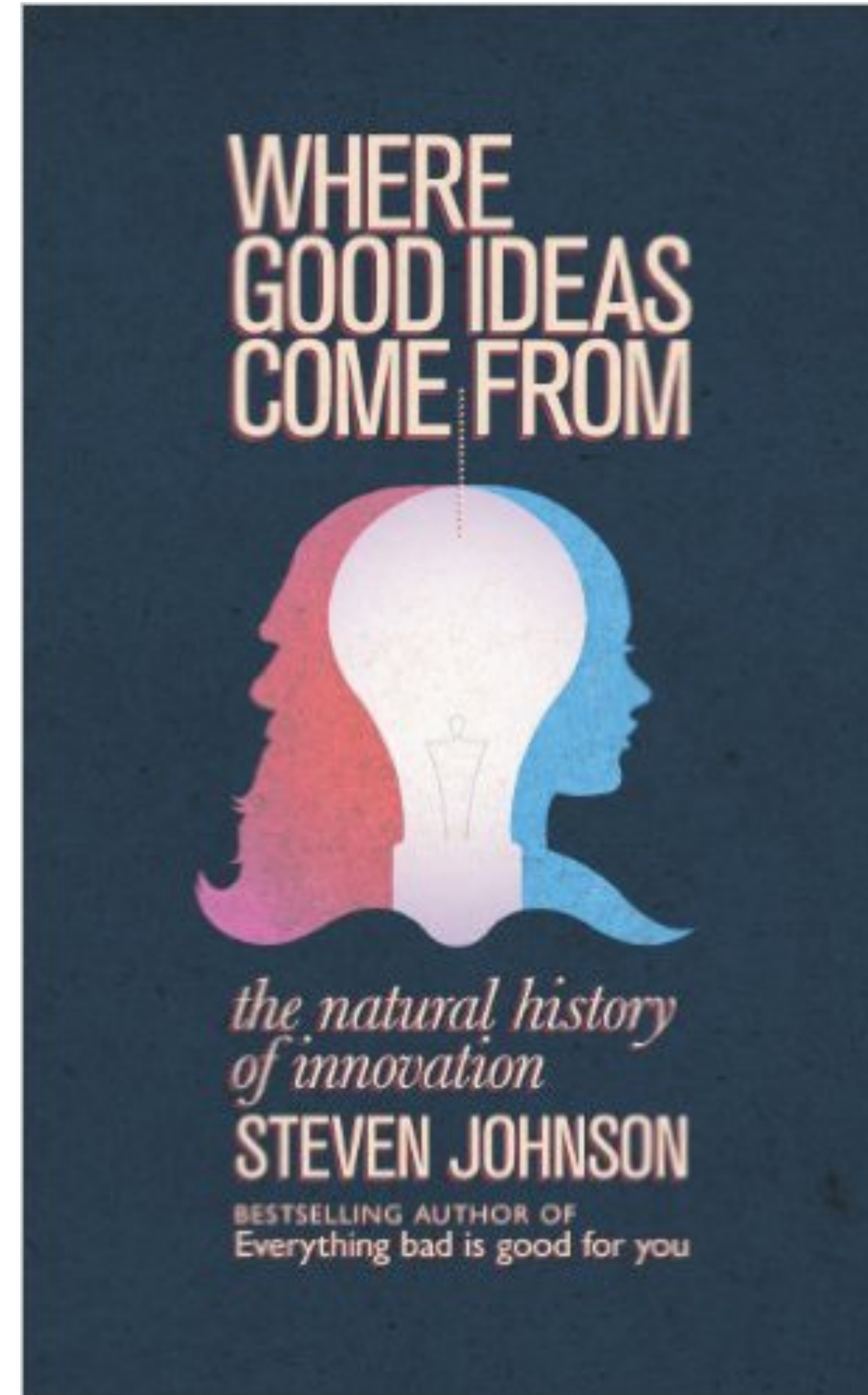| #	⦿
Slack	GitHub
	+
	ADD APP

Cooperative Innovation

The Role of Apereo

Membership organisation

Strong partnerships -

    LAMP, ESUP-Portail, network of c160

Cooperative management of IP

Cooperative contribution of artefacts

    Code, documentation, other effort

Sustainability through cooperation

Towards a Cooperative "Cloud"?

Built around cooperative principles
By Higher Ed, for Higher Ed
Built around open source software
    (Role for commercial partners)
Auditability underpins trust
Open and agreed affordances for innovation

The Coming Year

A very different Open Apereo 2020

Building new partnerships

Strengthening existing partnerships

    ESUP-Portail, LAMP, Japan, South Africa

New Challenges: Low carbon cooperation