

Benefits of Open Science for Students

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<http://github.com/koalha/oaweek2016>

What is Openness in the context of research and higher education?

Open science is the movement to make scientific research, data and dissemination accessible to all levels of an inquiring society, amateur or professional.

Wikipedia article on Open Science

Why is Openness important for students?

Higher education often hampered by hassle with licences and copyright.

Lecture materials and articles are often distributed illegally or as useless versions stripped of copyrighted material.

Textbooks are in short-supply and/or contain outdated information.

University provides for its students, but what about after graduation?

What types of Open are there?

1. Open Educational Resources
2. Open Access to Literature
3. Free Software



WIKIBOOKS

Open books for an open world

Textbooks cost money

Copyright laws make distributing educational materials (such as lecture slides) illegal



Access to literature may be hindered after graduating
Rising subscription costs mean teachers and students don't have
access to all key literature



Use of proprietary software often doesn't allow training at home.

Many software providers offer affordable student licences, but graduating might mean being reliant on software whose licences cost hundreds or thousands of dollars.

Even then universities have to pay for the licences, and the money is away from something else.

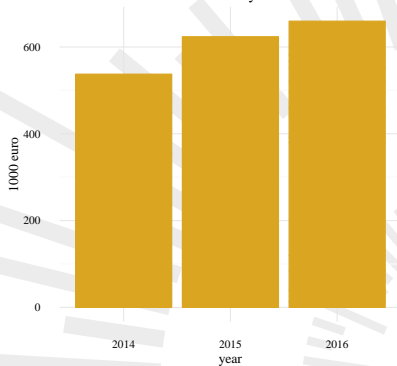
Free software - example



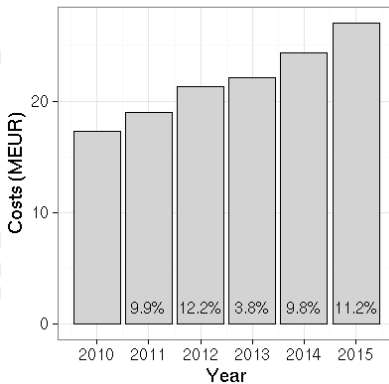
	ESRI ArcGIS	QGIS
Student licence	free to use via VPN	Free
Licence for personal use	100 \$ / year	Free
Licence for commercial use	1500 \$ / year	Free

Licence fees keep growing at a 10%/year rate...

Licence fees for centrally bought software
at the University of Oulu

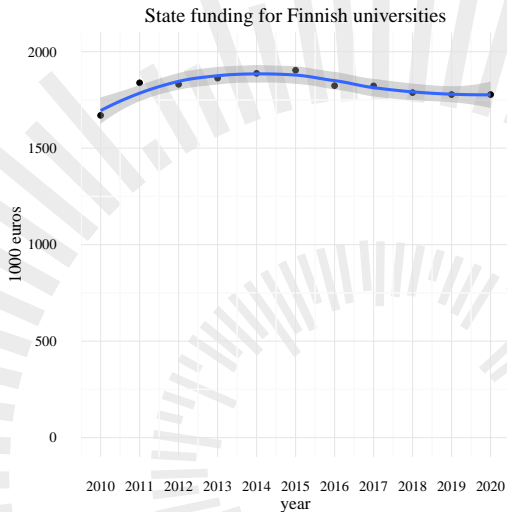


Journal Subscription Costs



sources: University of Oulu IT administration & <http://ropengov.github.io/r/2016/06/10/F0I/>

...at the same time, universities suffer funding cuts



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