Slides: bit.ly/oshland

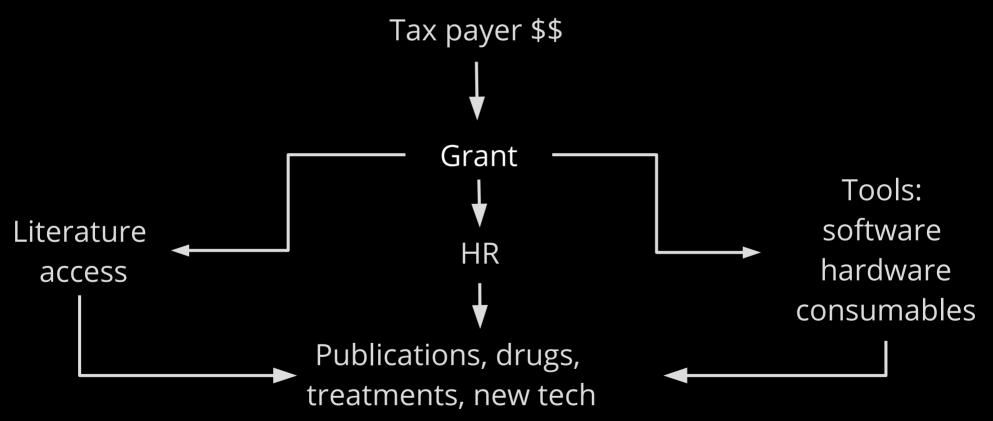
The current landscape of OS Hardware

Andre M Chagas 17.04.2018

Outline

- Funds for Science and Education
- Projects
- Companies
- GOSH
- Repositories

Funds for Science and Education



Funds for Science and Education

Publications, drugs, treatments, new tech



Patent, copyright



Technology transfer



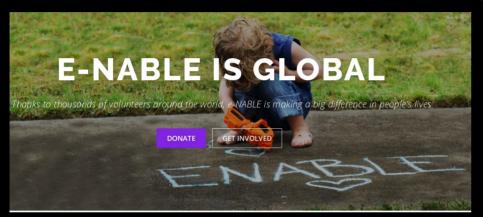
Distribution/production Oligopoly



High Costs

Projects









Open Source Toolkit

A global forum for open source hardware and software research and applications



\$5 DNA Replicator

The one of the most revolutionary inventions of the 20th Century, designed for DIY gene replication. (Now with a working prototype!)







Companies



































GOSH

Gathering for Open Science Hardware

ABOUT GOSH ₩

GOSH CODE OF CONDUCT

GOSH MANIFESTO

GOSH ROADMAP

GATHERINGS ¥

NEWS







Sep/Oct!



Join the GOSH Forum

GOSH Manifesto

- ▼ GOSH is accessible
- **▼** GOSH makes science better
- **▼** GOSH is ethical
- **▼** GOSH changes the culture of science
- ▼ GOSH democratizes science
- **▼** GOSH has no high priests
- **▼** GOSH empowers people
- ▼ GOSH has no black boxes
- **▼** GOSH is impactful tools
- **▼** GOSH allows multiple futures for science

GOSH 2017

100 PARTICIPANTS FROM 30 COUNTRIES



THE GROUP INCLUDED SCIENTISTS, SOCIAL SCIENTISTS, ARTISTS, LAWYERS, ARCHITECTS, COMMUNITY ORGANIZERS, DEVELOPERS, TEACHERS, AND STUDENTS

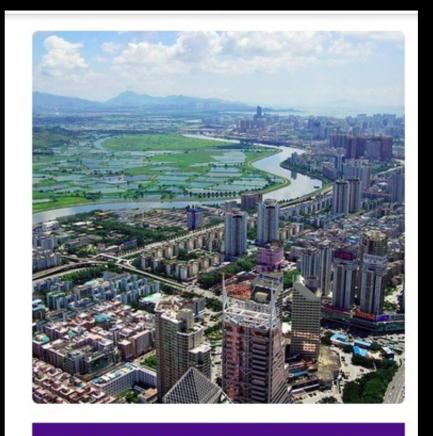
TO SUPPORT THIS DIVERSITY, THE ORGANIZERS CREATED A CODE OF CONDUCT²⁵ BASED ON RESPECTING DIFFERENCES.

GOSH 2017 lead to...



AFRICA OPEN SCIENCE HARDWARE

GOSH 2018



GOSH 2018 – Shenzhen in Sep/Oct!

GOSH Community Forum



Category	Topics	Latest		
General This is the right place for general discussions about Open Science Hardware. Want to show or ask for something, this is the right place to start. Funding opportunities	2 / week	A	OScH - Environmental Sensing and Community Science General gosh_resources, collaboration	
iOSH 2017 his is the right place for discussions about the 2017 Gathering that	93		Generic data logger ■ General	3
akes place in Santiago, Chile. Welcome to GOSH 2017! Sessions II. Support GOSH Community III. Grow GOSH Community IIII. GOSH for traditional developers IV. Research to support GOSH IV. Institutional support for GOSH			Alternativas a 'Global South'? ■ Lantino Americanas	
■ V. Research to support GOSH ■ V. Institutional support for GOSH ■ VI. Funding ■ VII. Education, training, learning ■ VIII. Impacts and Seeing Success ■ IX. Supporting GOSH in all its parts			GOSH talk at Tech4Dev 2018? (UNESCO Chair in Technologies for Development: Voices of the Global South 27-29 June 2018 EPFL,	,
Communities	1 / week		Lausanne, Switzerland) General	
Space for supporting community communication and engagement. If				

Repositories and online communities

- GOSH (http://openhardware.science/)
- CERN (https://www.ohwr.org/)
- PLOS Channel (https://channels.plos.org/open-source-toolkit)
- Open Neuroscience (openeuroscience.com)
- Open Plant Science (http://openplant.science/)
- Hackaday.io (hackaday.io)
- CTA UFGRS (http://cta.if.ufrgs.br/capa/)
- Instructables (instructables.com)
- Journal of open Hardware (https://openhardware.metajnl.com/)
- HardwareX (https://www.journals.elsevier.com/hardwarex/)
- Appropedia (http://www.appropedia.org/Welcome_to_Appropedia)
- Hackteria (hackteria.org)

Thank you!

- Questions?
- Slides on GoogleDrive folder, as well as: bit.ly/oshland