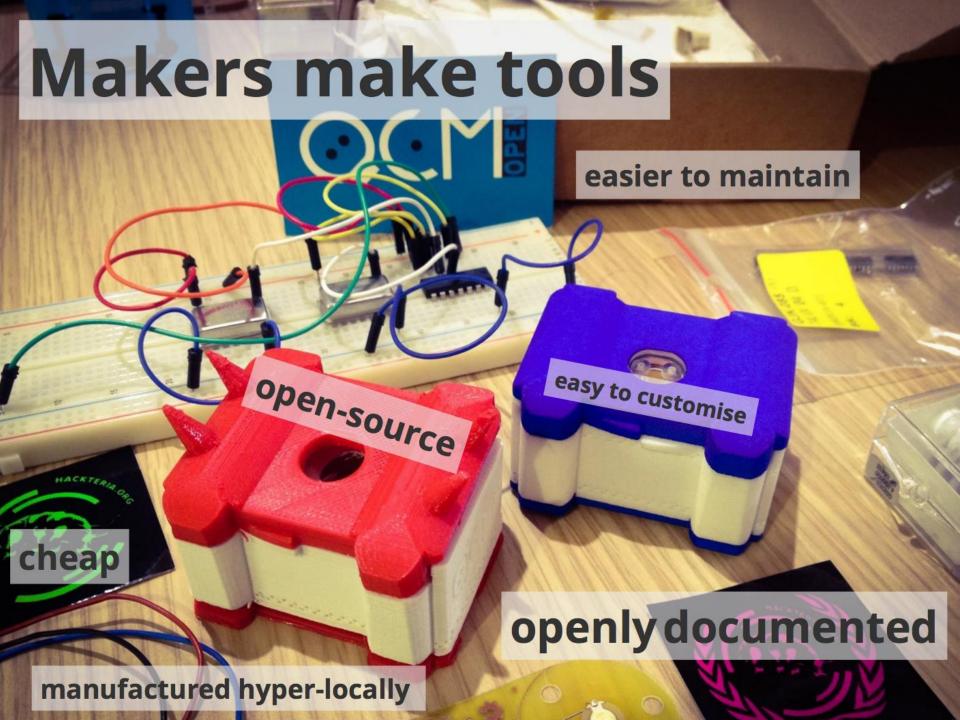


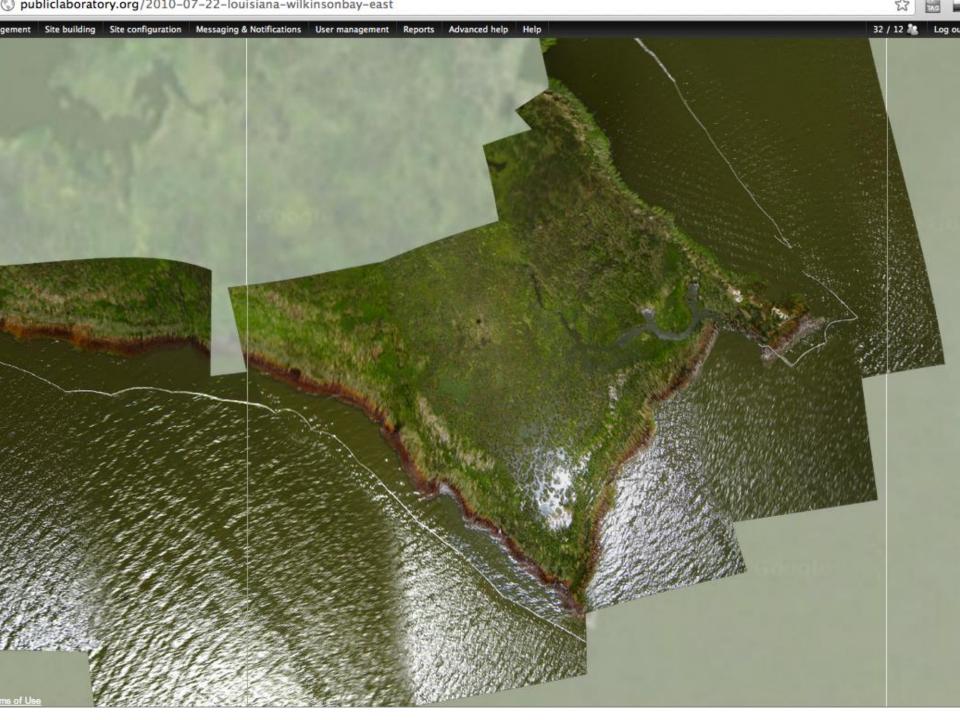
difficult to source difficult to customise

maintain

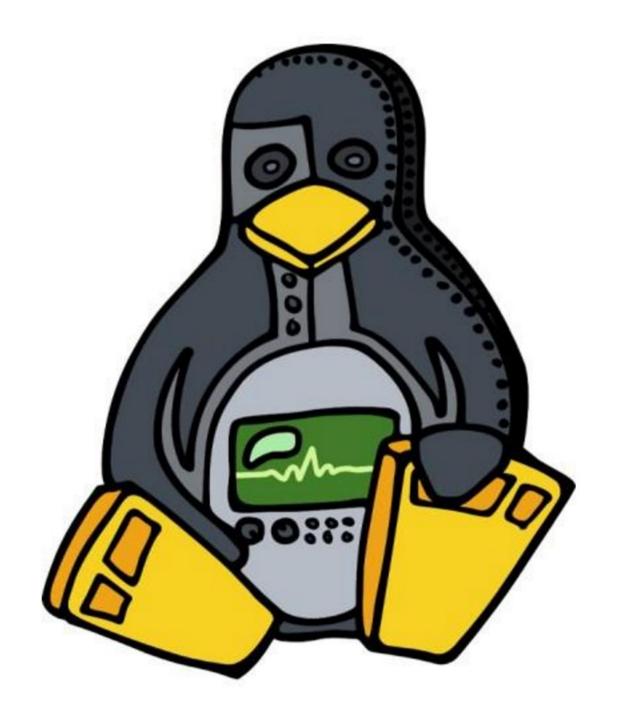












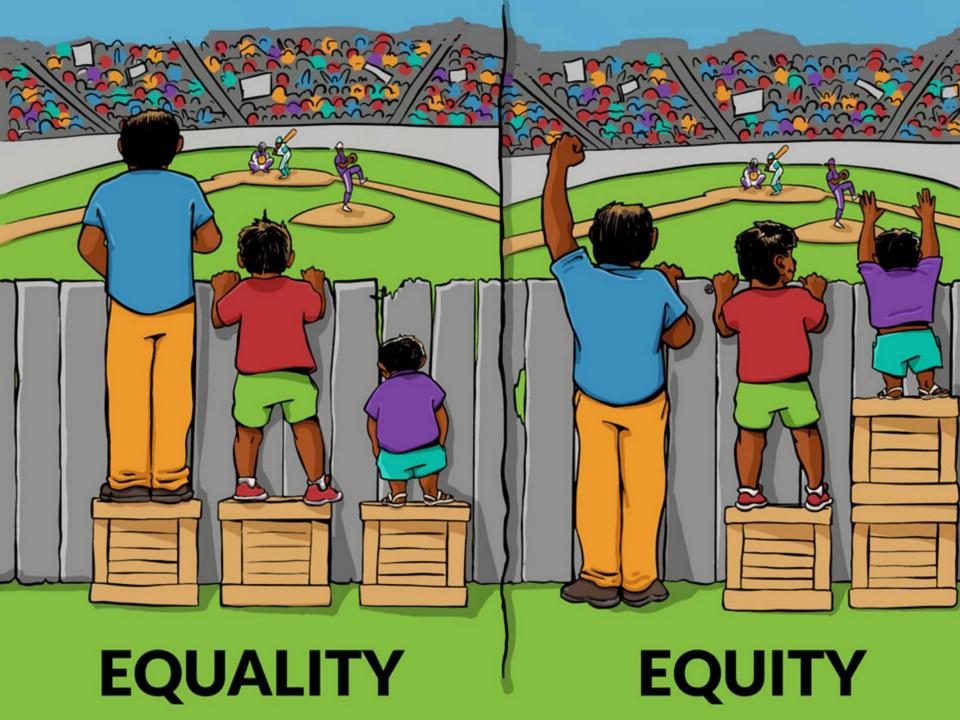


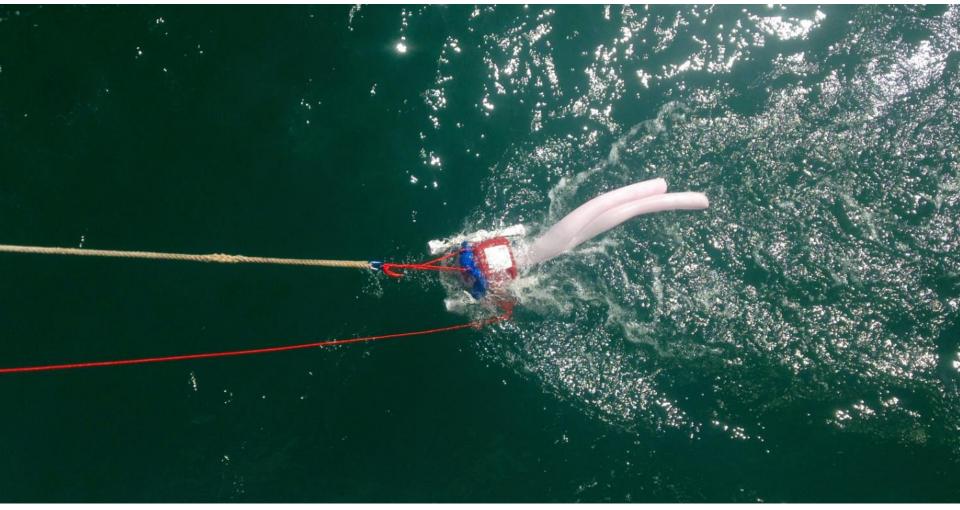
The Global Open Science Hardware
Movement seeks to reduce barriers
between diverse creators and users of
scientific tools to support the pursuit and
growth of knowledge. The principles:

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

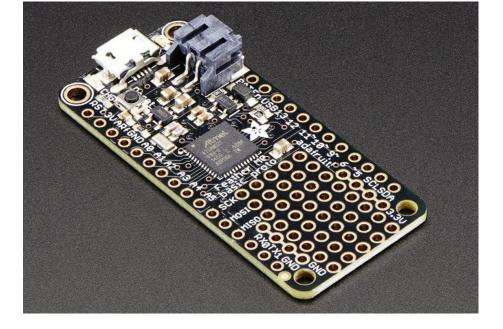
Read the full manifesto and sign on: http://openhardware.science/gosh-manifesto/







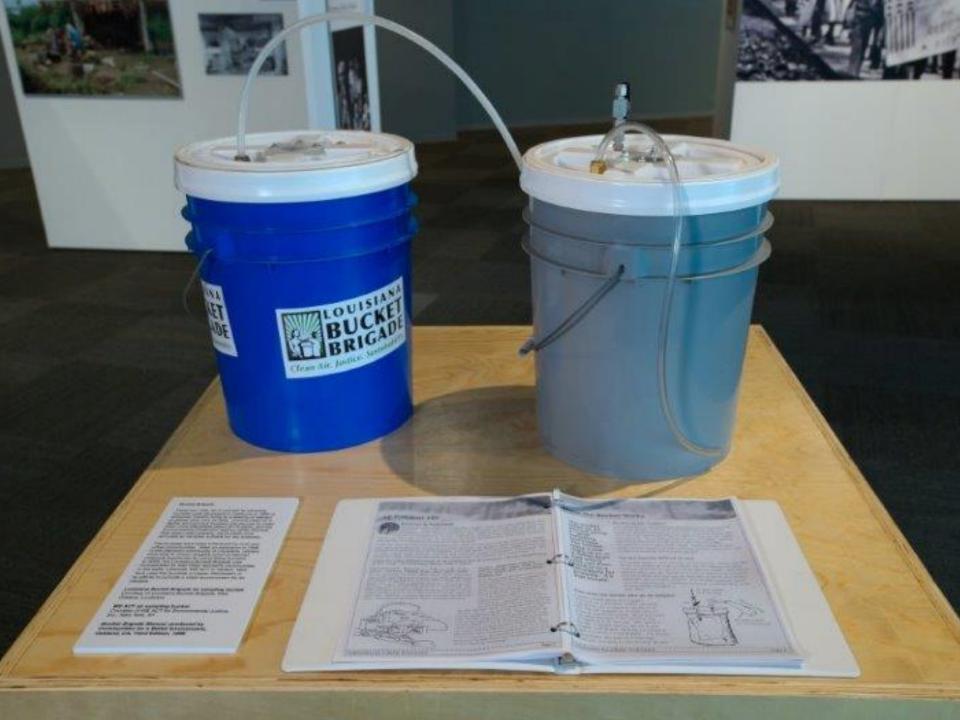
Baby Legs, a DIY citizen science trawl for monitoring marine plastics. Created by Dr. Max Liboiron at Memorial University of Newfoundland where she directs the Civic Laboratory for Environmental Action Research













Challenges to OSciH adoption

- Tensions in what "expertise" means
- Motivations/incentives to participate in tool development and iteration
- Technical hierarchies
- When do we not use open?
- Tool standards

Opportunities with OSciH

- Local knowledge/expertise and cognitive justice
- Equity embedded in tool design
- Locally accessible
- Customizable based on needs
- Larger communities developed around support of technology
- Low cost
- Improved knowledge transfer, international collaboration and accelerated innovation

PublicLab.org OpenHardware.science

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http://openhardware.science/logistics/participants/ and the 2017 documentation team. This presentation and all original content is licensed under CC-BY-4.0