TOWARDS BETTER SCIENCE: THE CASE FOR OPEN SCIENCE HARDWARE

Arancio, Julieta Pearce, Joshua Morales Tirado, Mayra







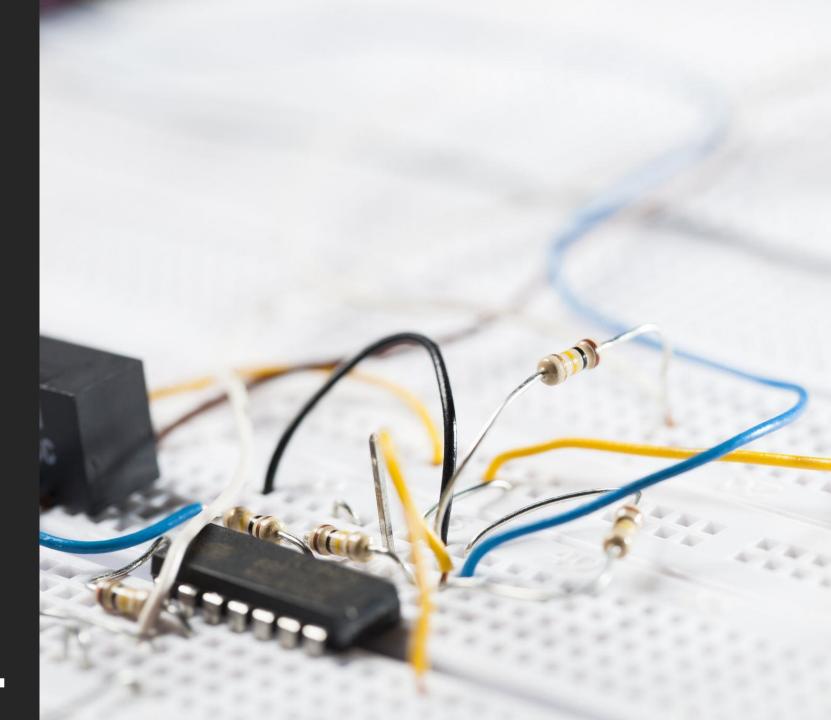
DR. JULIETA ARANCIO

JCA88@DREXEL.EDU

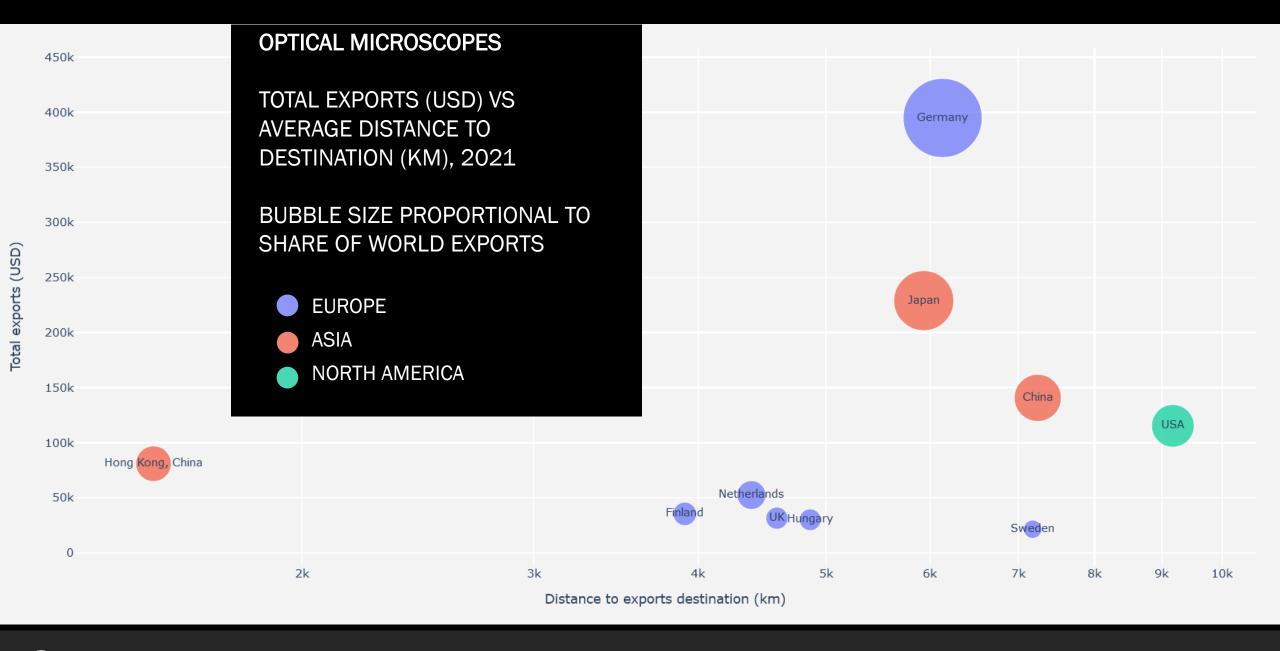
@CASSANDRECES

OPEN SCIENCE BEYOND OPEN ACCESS

SCIENTISTS MODIFY THEIR INSTRUMENTS AS PART OF THE RESEARCH **PROCESS**



SCIENCE HARDWARE IS **COMPLEX BUT** INFORMATION IS NOT ACCESSIBLE









UNEQUAL

UNSUSTAINABLE

NON-ADAPTABLE



AFRICA OPEN SCIENCE HARDWARE





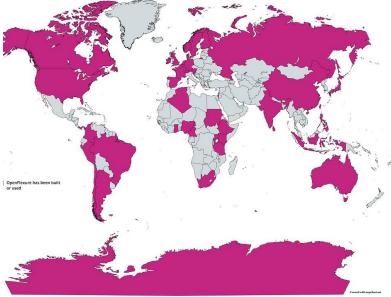
OPEN SCIENCE HARDWARE



UNLOCK ONE DESIGN

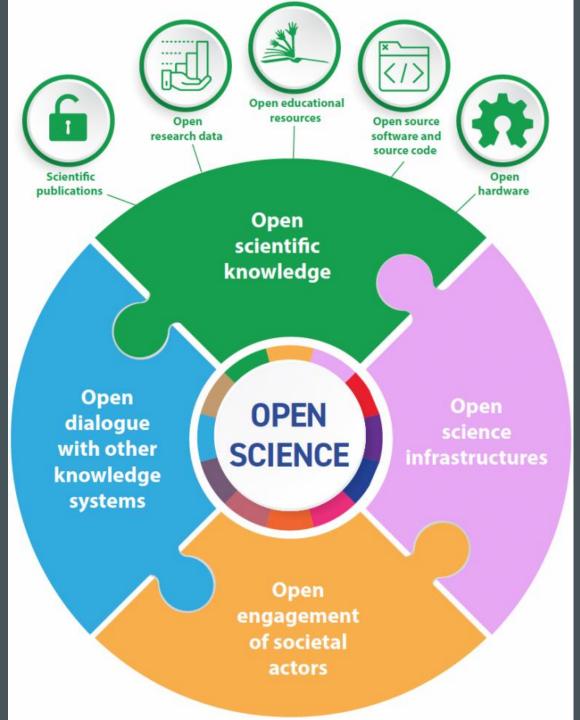
GET MULTIPLE FUTURES







HOW TO ENABLE MORE OPEN SCIENCE HARDWARE?



INCORPORATE OPEN HARDWARE INTO OPEN SCIENCE POLICIES

OPEN AS AN ALTERNATIVE FOR TECH TRANSFER AND PROCUREMENT MECHANISMS

BUILD LOCAL CAPABILITIES FOR OPEN SCIENCE HARDWARE

TODAY...







UNEQUAL

UNSUSTAINABLE

NON-ADAPTABLE

BETTER SCIENCE



MORE EQUAL



SUSTAINABLE



LOCALLY RELEVANT

WHICH DISCOVERIES & LOCALLY USEFUL KNOWLEDGE WE COULD **UNLOCK?**

THANK YOU!

For further detail please see:

Arancio, Julieta, Mayra Morales Tirado, and Joshua M. Pearce.
"Equitable Research Capacity Towards the Sustainable Development Goals: The Case for Open Science Hardware." In Journal of Science Policy and Governance, Vol. 21, Issue 02, December 2022.

https://doi.org/10.38126/JSPG210202

Dr. Julieta Arancio jca88@drexel.edu @cassandreces



