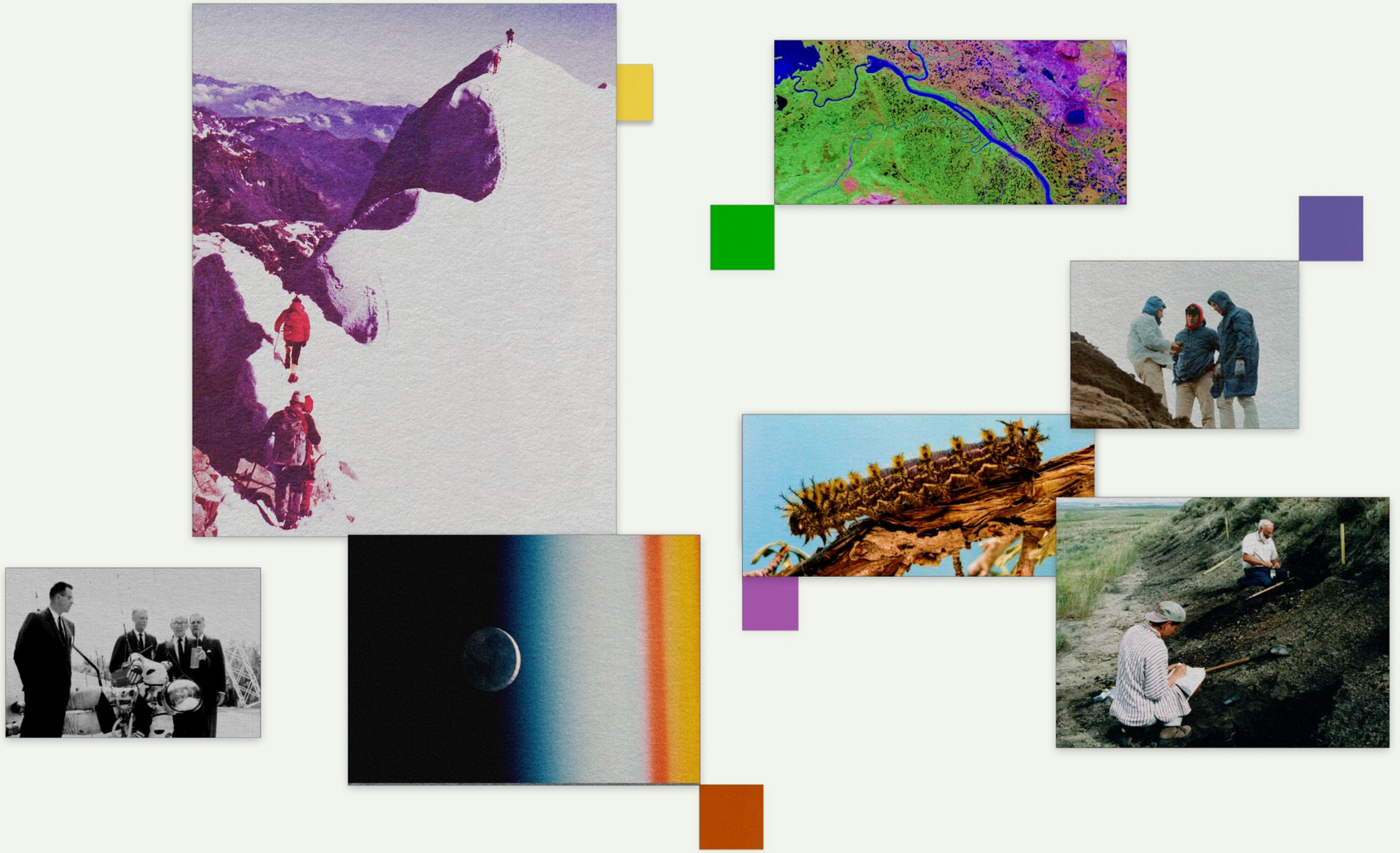
field building*

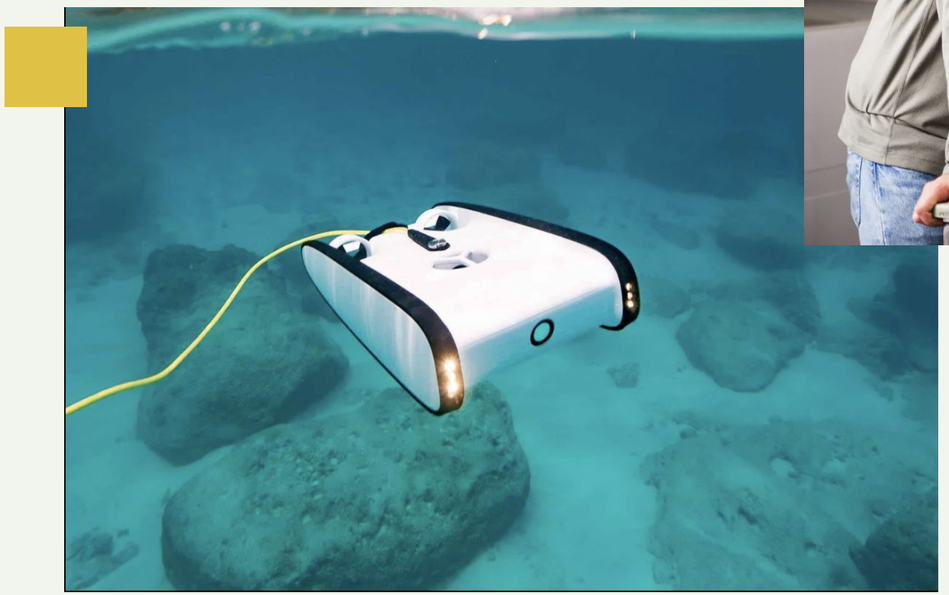
Technoscientific Field Building Protocols



David Lang

September 23, 2026

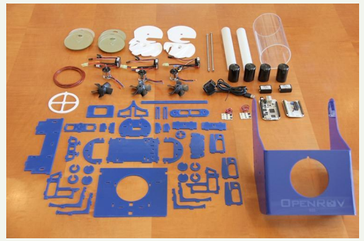
Background - OpenROV





Technological Life Cycle

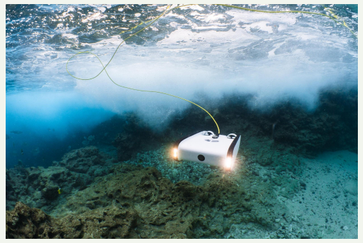
N = 1
Prototype



N = 100s
Kit Product



N = 1000s
Commercial Products



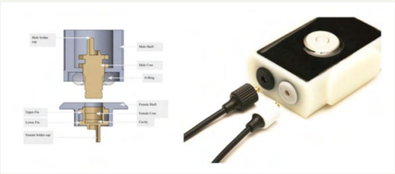


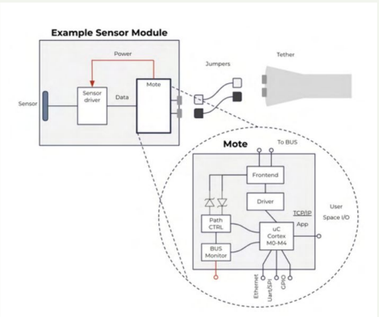
Industrial Modularity





Enabling Standard





6-12M

2-3Y

5-10Y

David Lang, Experiment Foundation

Background - Experiment Foundation

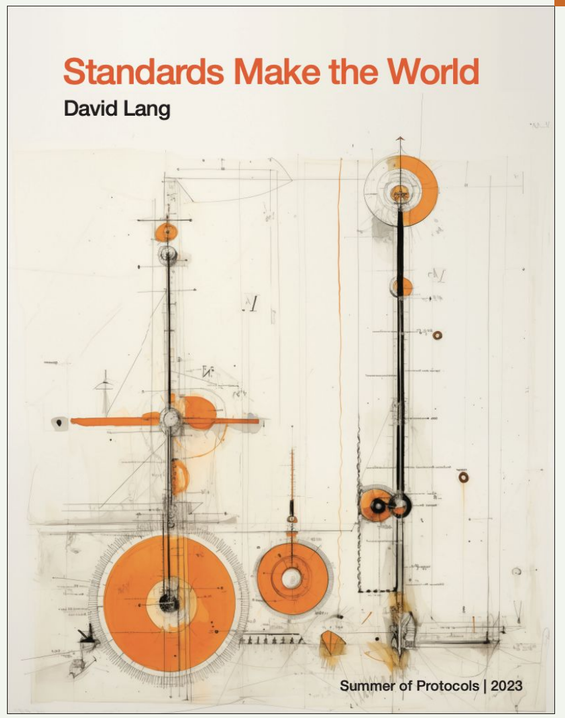


David Lang, Experiment Foundation

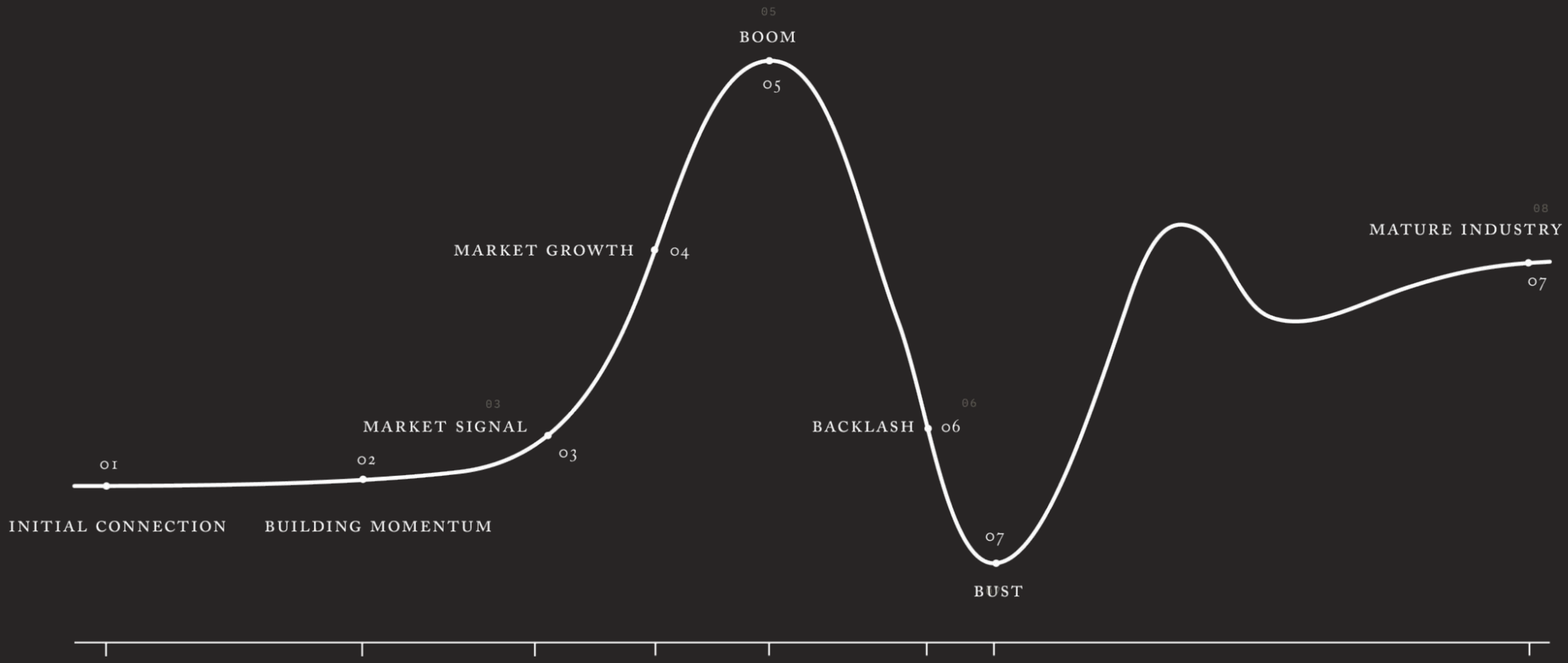
Background - Experiment Foundation

Cellular Agriculture
Ocean Solutions
Indigenous Futures
Augmented Discovery
Mycological Innovations
Conservation Biotech
Community Science
Negative Emissions Technology
AI for Interspecies Communication
Living Thresholds
Metascience
Marine Protected Areas
Plant Bio
Coral Tech
Microplastics
eDNA Innovation
Ocean Sensors
Frugal Science
Community Biology
STEM Education
Low-Cost Tools for Science
Hyperspectral Biology

Background - Protocol Studies



Field Building Journey



view the full map

The Conditions

A new techno-scientific field is viable when:

- **Technology trends** make something possible [DIY Drones]
- A **new scientific discovery** opens possibilities [Miller/Urey Experiment]
- A group of people create **a compelling subculture** [Synthetic Biology]

Why to start a new techno-scientific field



Why to start a new techno-scientific field



When an idea needs more minds.

Why to start a new techno-scientific field

When an idea needs more minds.

Outcome: An *industry* or a *discipline*

When to start a new techno-scientific field

When to start a new techno-scientific field

Myth: “*There’s no one working on this.*”

When to start a new techno-scientific field

~~Myth: “*There’s no one working on this.*”~~

Reality: “*There are a handful of people working on this, but they aren’t talking to each other.*”

Who makes a good field builder

Who makes a good field builder

An entrepreneur—has the will and experience of crafting a culture and creating opportunity.

A cataloger—has the stroytelling skillset to inspire action.

A philanthropist—has the resources to fuel momentum.

A *team*—the most productive new fields are a combination of personalities.

Field building tactics



- Grants
- Journal or periodical
- Workshops
- Roadmapping
- Meetups
- Competitions and prizes
- Facility/place-based
- Tool-building/Kits
- Language-making
- Thesis refinement
- “Vision papers”/book/artifacts/social objects
- Recruit “keystone individuals” who can lend social capital and legitimacy

Field Building Accelerator

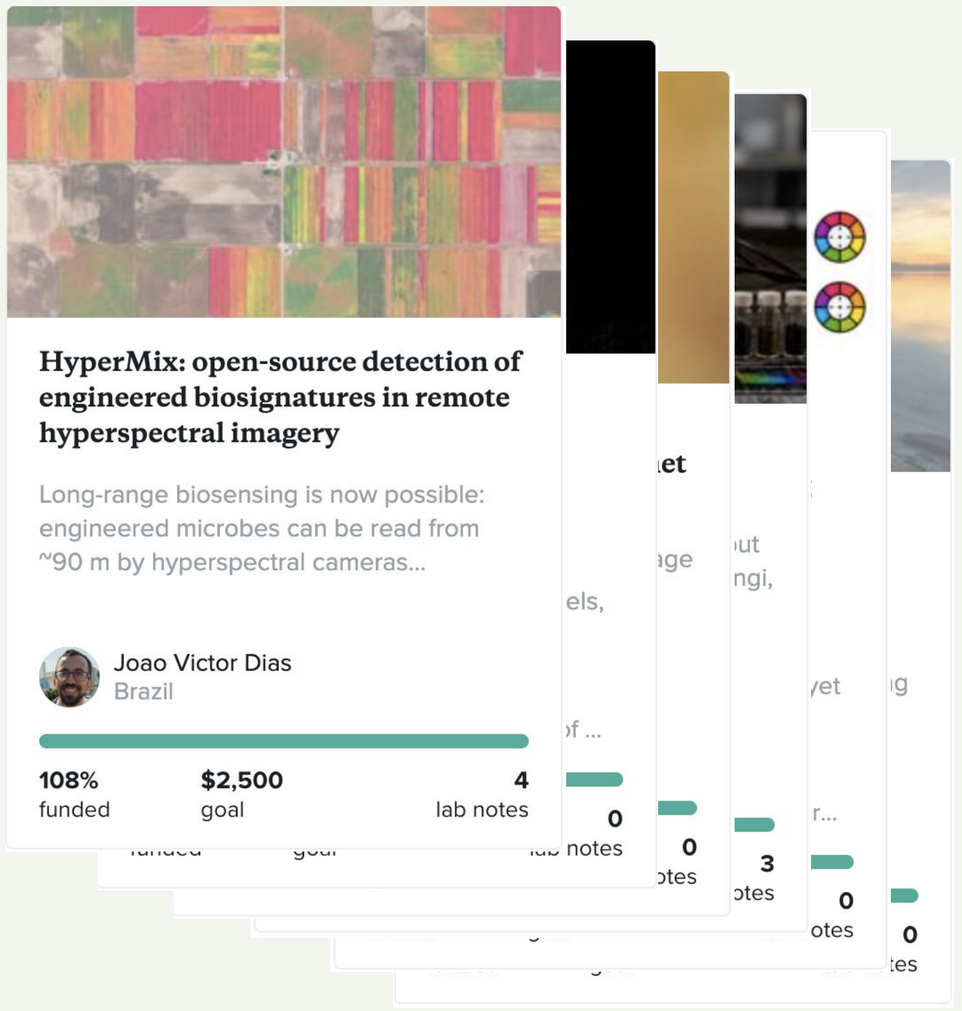


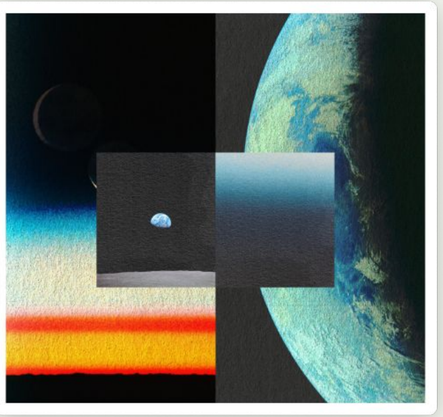
Hyperspectral Biology

Using many wavelengths of light to read biological activity at a distance, instead of under a microscope.

Program Lead:
Niko McCarty

Portfolio:
experiment.com/programs/hyperspectral/

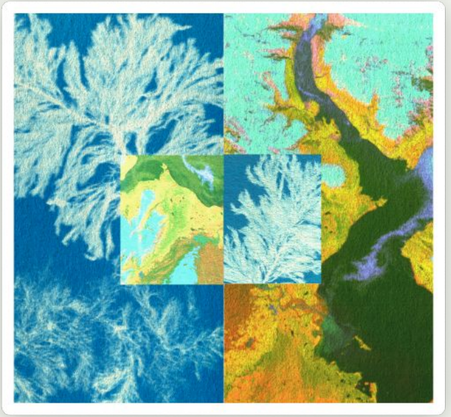




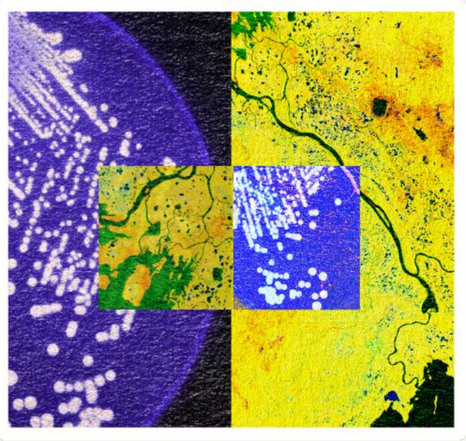
FRONTIER SCIENCE



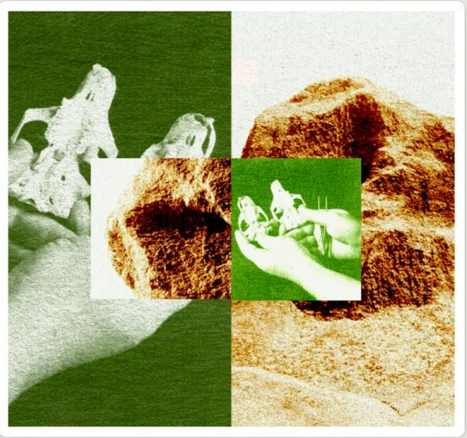
CONSERVATION TECH



OCEANS



TOXICITY



NEGLECTED CLIMATE OPPORTUNITIES

Interested in participating?

Sign up: experiment.foundation

Email:

