

The background features a light blue sky with scattered white stars and plus signs. In the foreground, there are several stylized, light blue clouds. Five grey rockets are shown ascending vertically, each leaving a white trail. The rockets are positioned at various heights and locations: one on the far left, one in the middle-left, one in the middle-right, one on the far right, and one at the top right.

# Open Research Institute, Inc.



# Greetings!

Open Research Institute  
(ORI) is a non-profit  
research and development  
organization which  
provides all of its work to  
the general public under  
the principles of  
Open Source and Open  
Access to Research.



**ORI**

1.  
**Who?**



# US 501(c)(3) Board of Directors

## **Keith Wheeler KI7PEM**

Principal Engineer at Infineon with extensive corporate and engineering experience.

## **Ben Hilburn KJ4DDR**

Extensive community organizing experience as GNU Radio Project lead, founding CTO of DeepSig, and currently at Microsoft.

## **Steve Conklin AI4QR**

Decades of experience in high-availability distributed safety-critical systems engineering and open source.

## **Michelle Thompson W5NYV**

Co-founder and current CEO of ORI, telecommunications executive, information theorist, and engineer.

## **Karen Rucker KG5GAK**

An RF Engineer at Ball Aerospace, Karen began a master's degree program at the University of Colorado at Boulder in the fall of 2020 in Aerospace Engineering.

## **Bruce Perens K6BP**

Co-founder of ORI and President Emeritus.

*While not currently on the board, Bruce continues to advise ORI.*

# 535

Number of people that have signed up for GitHub, Slack, and the mailing list. These are the most active members of the community. This number has doubled each year over the past two years.

This is distinct from our following on social media. These are people that show up to either do or follow the work.

# Affiliations

ORI ascribes to the Open Space Manifesto from Libre Space Foundation.

JAMSAT, AMSAT-DL, IEEE, NASA, SBMS, a list of Universities and two for-profit space companies, AstroDigital and AIS, are active and supportive collaborators.

Open Research Institute is proud to be affiliated with the following organizations.

We are an Affiliate Member of Open Source Initiative.



**open source  
initiative**<sup>®</sup>

We are a Member Society of AMSAT-NA



We are a Community Member of RISC-V International



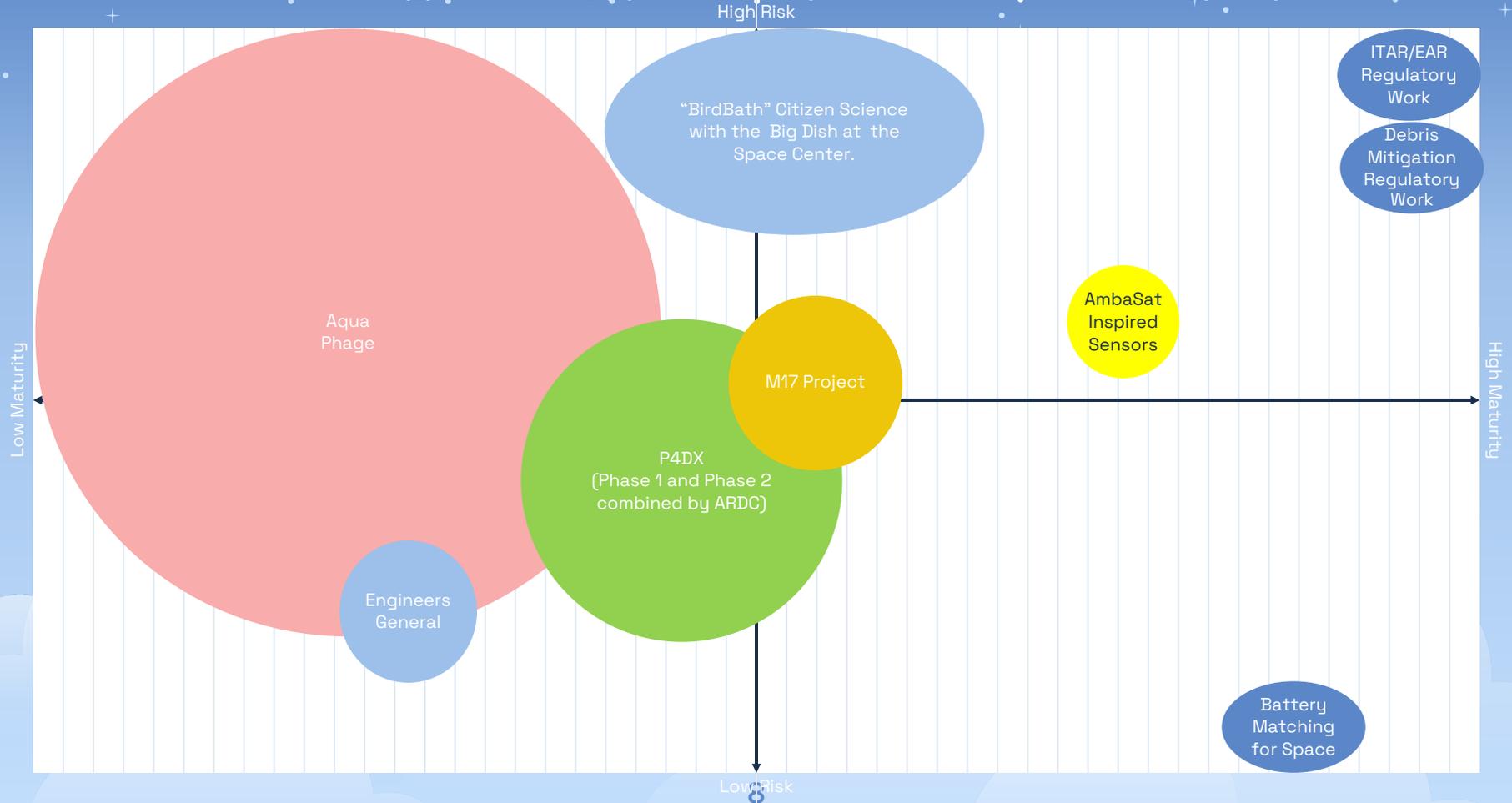
Associate Memberships in Open Research Institute are available to individuals that are interested in supporting the goals of open source research and development for amateur radio. Contact: [w5nyv@arrl.net](mailto:w5nyv@arrl.net)

2.

**What**



# Current Project Matrix: Risk (y) vs. Maturity(y) vs. Cost(size) vs. Relative Stress Condition(color)

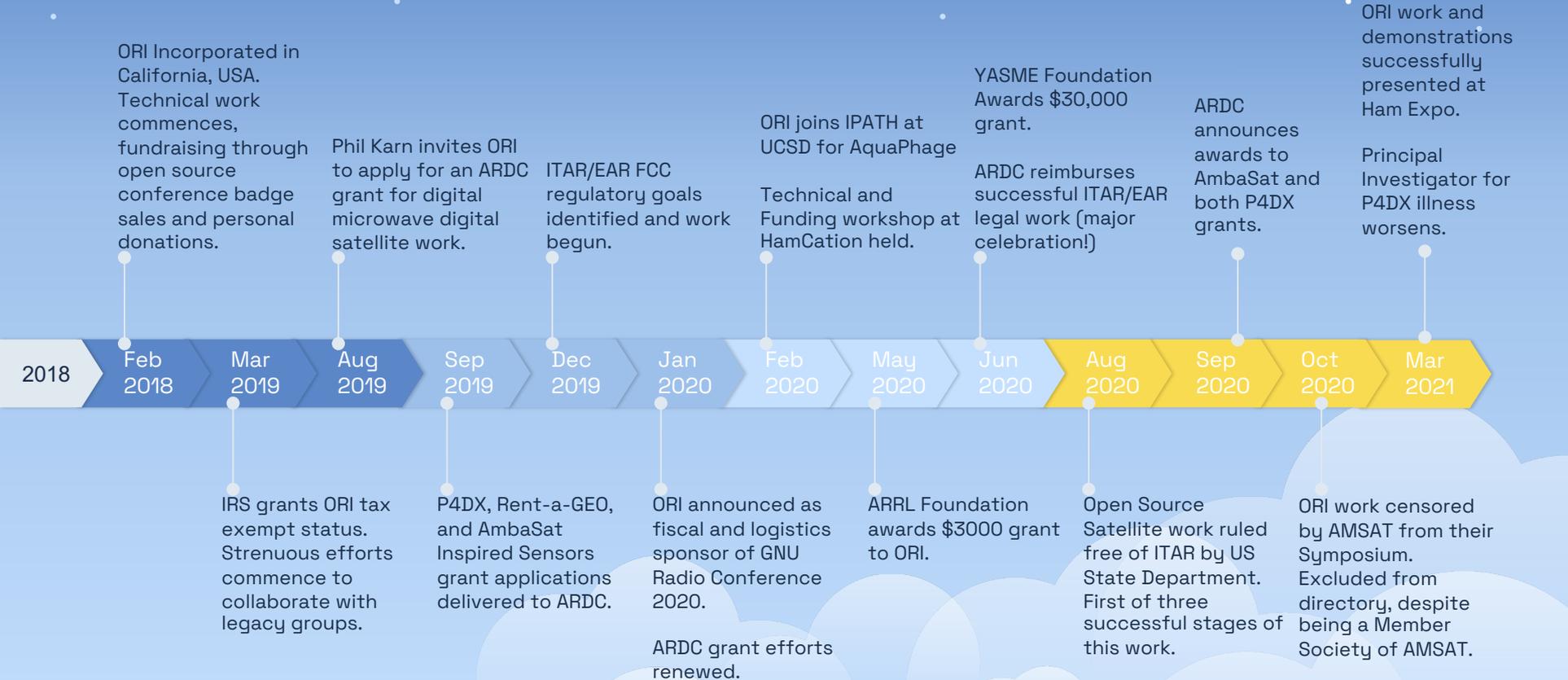


3.

**When?**



# Timeline



# Timeline



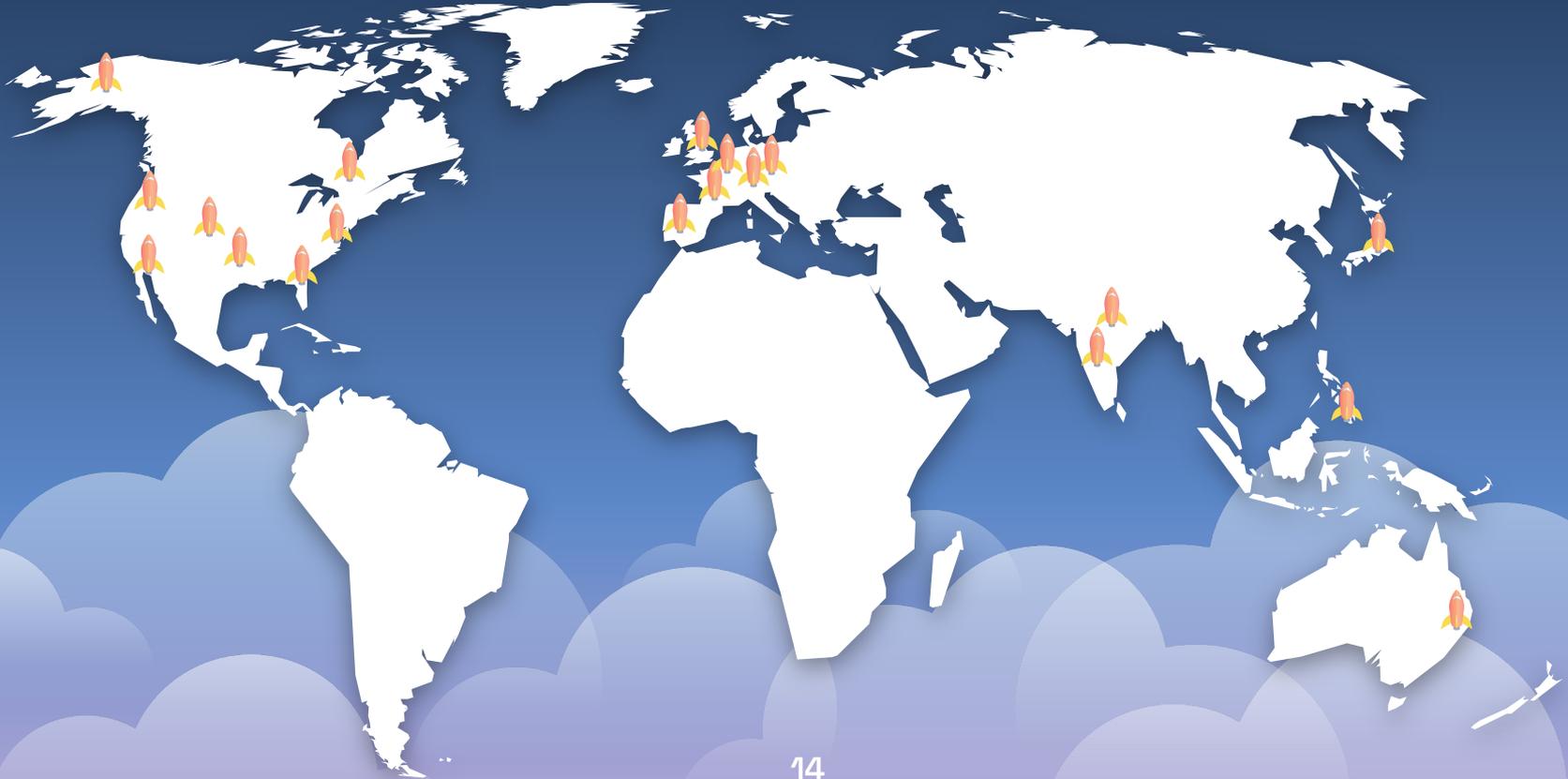
- Individuals and interactions *over* processes and tools.
- Working software *over* comprehensive documentation.
- Customer collaboration *over* contract negotiation.
- Responding to change *over* following a plan.

4.

**Where?**



# International Collaboration



14

Major contributors and participants.

# Physical Sites

➤ Remote Lab East was in Orlando, Florida. It is in the process of being moved to Little Rock, AR and will be relaunched as Remote Lab South. Now includes interferometry site!

➤ Remote Lab West is in San Diego, California. Complete and active.

➤ M17 Lab

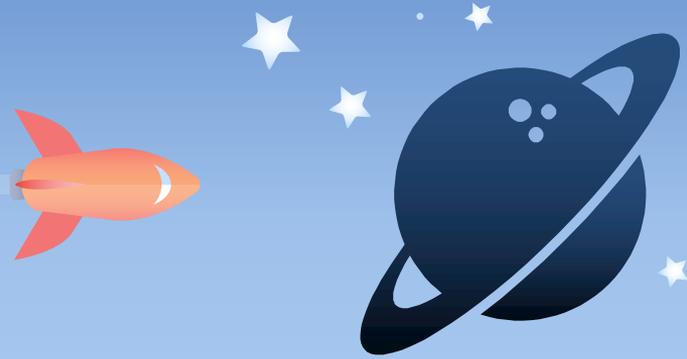
We bought Open Lunar Foundation's laboratory and will use this equipment to set up M17 Project with a fully stocked open source and remotely accessible lab in the spring of 2022.



5.  
**Why?**



We believe that an open source approach to things like amateur digital communications, bacteriophage research, and sticking up for the non-commercial use of space will result in the best possible outcomes for the good of humanity.



# Lightweight Approach

Low overhead, radically participant-focused, internationally accessible work is what ORI does.