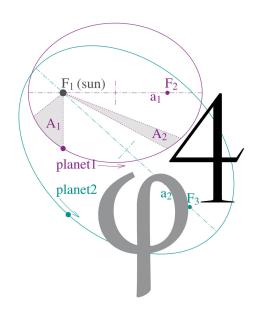


Phase 4 Project Update

For Escondido Amateur Radio Society 10 May 2018 Who are we? What do we do? Why should you care? What are we doing about it? What does the overall system look like? What is the team doing? What do we need? What are the plans for a finished product? What do these radios talk to?

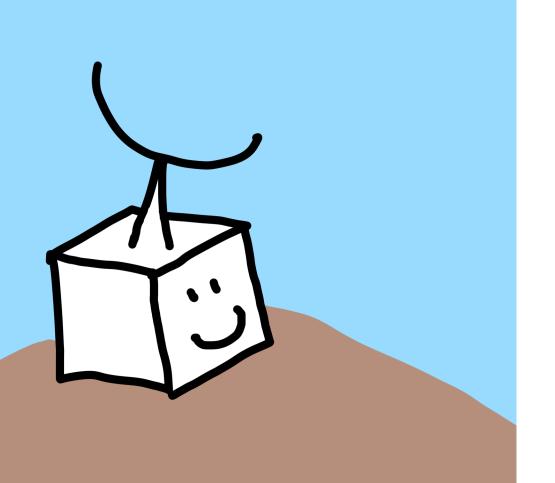
Who are we?





Open Research Institute, Inc. (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.

What do we do?

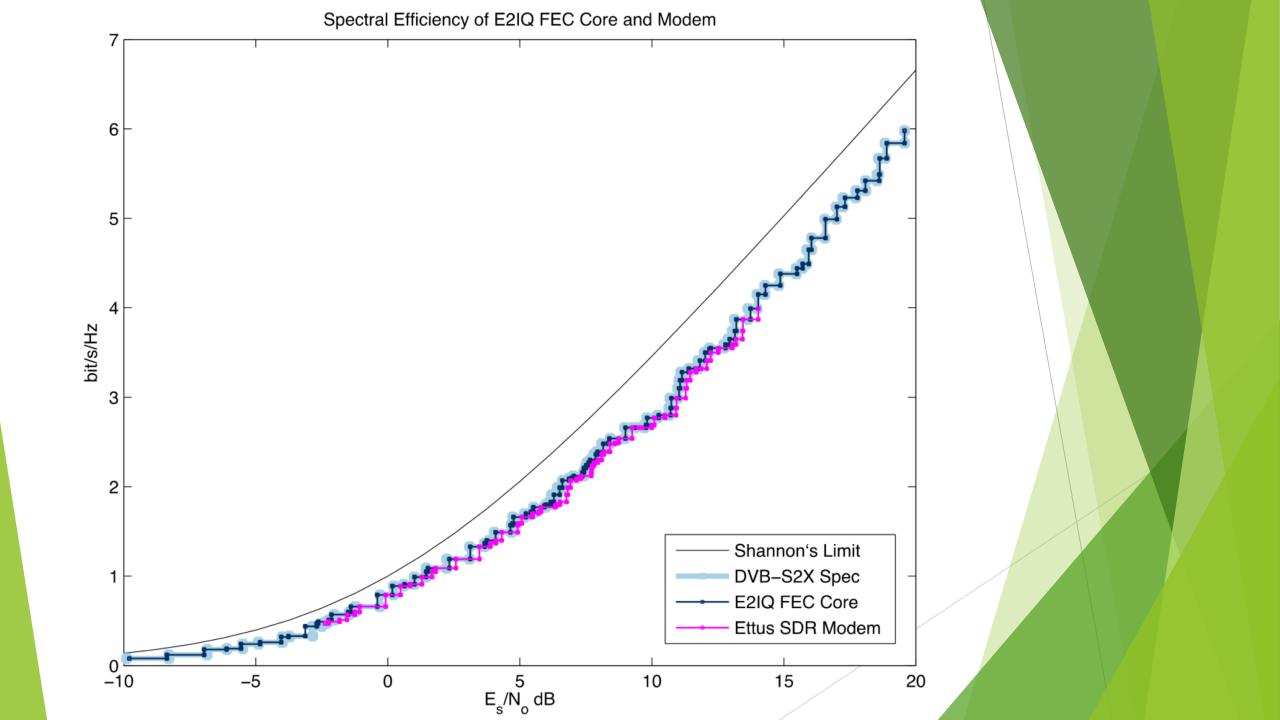


Why should you care?

Because a surprisingly large amount of software and hardware in amateur radio is closed, proprietary, or licensed in ways that make it very difficult to improve, learn from, or adapt.

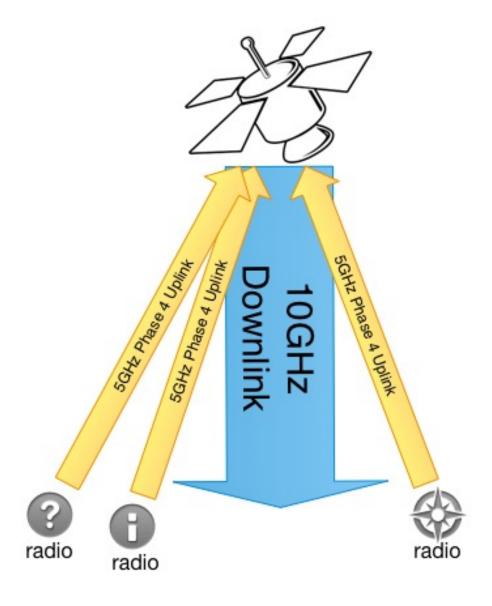
What are we doing about it?

Liberating DVB-S2 and DVB-S2X for amateur radio use!

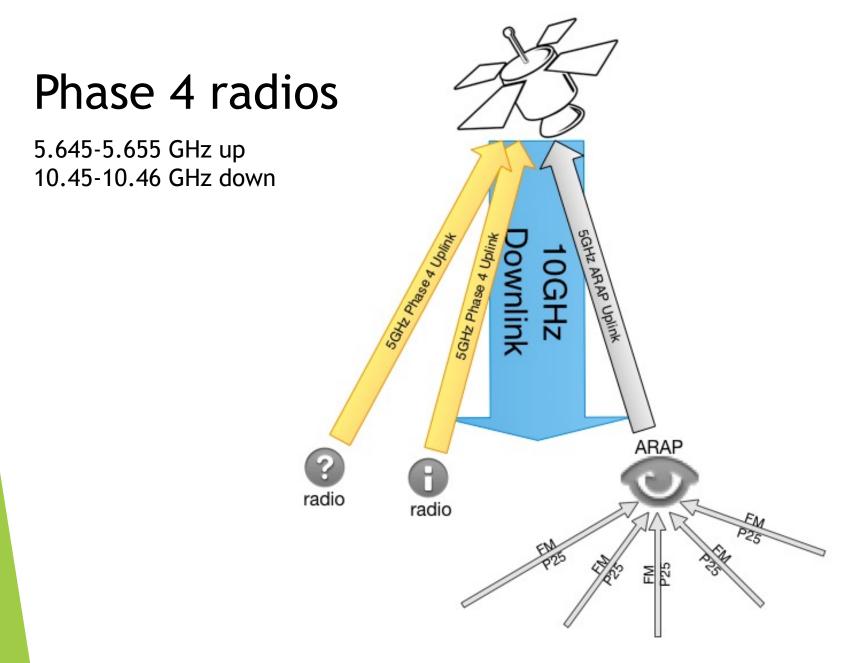


Phase 4 radios

5.645-5.655 GHz up 10.45-10.46 GHz down



What does it look like?



What does it look like?

What is the team doing?

RTP multicast innovations **DVB** correlators Open Source LDPC **Dual Band Feed** Filters! 5GHz amps! **ARAP** demonstrations Having tons of fun Buying every SDR dev board

What do we need?

You!

Volunteers, cheerleaders, documentarians, artists, designers, hardware hackers, software, hardware, firmware, Protocol design, testing, RF design, And on and on!

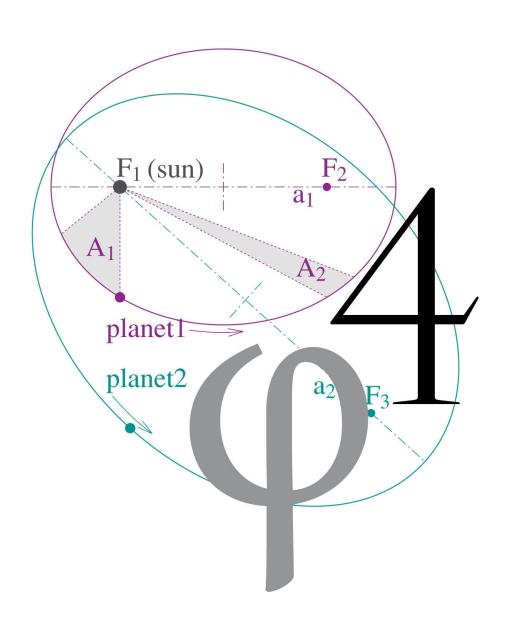
everyone is welcome

Plans for finished products

Reference design in GNU Radio Trans-Ionsopheric hackable badges Trans-Ionspheric Radios 10GHz filters Dual Band Feeds Lots of other possibilities!

What do these radios talk to?





multiday hackfest and workshop multiday hackfest and workshop

DVB-S2/X Block Party GRCon2018

Build and Test

DVB-S2 and DVB-S2X

Receivers in GNU Radio

ready to start now?

contact: @abraxas3d w5nyv@yahoo.com Phase 4 Ground GitHub: https://github.com/phase4ground

Phase 4 Space GitHub: https://github.com/phase4space

Mailing List: https://lists.openresearch.institute/

Open Research Institute homepage: https://openresearch.institute/

GNU Radio Homepage: https://gnuradio.org/

Libre Space UPSat: https://libre.space/projects/upsat/

Digital Video Broadcasting organization: https://www.dvb.org/