

AMATEUR RADIO DIGITAL COMMUNICATIONS

ARDC Community Meeting

16 July 2022


Agenda

- Welcome & Housekeeping
- Staffing Update
- Grants Update
- Hamfests and Conferences
- 44Net
 - Updates
 - Overview of survey results
 - Discussion



*“Operation Hamulanche” (RDRF)
at a middle school, Feb 2021*

Housekeeping

- This session is being  recorded
- Questions in the chat window please!
- All materials will be posted after the call

Staffing Updates

- **Tim Požár**

From TAC volunteer to Technology Management Consultant

- **Now Hiring Director of Technology**

In the interviewing stage

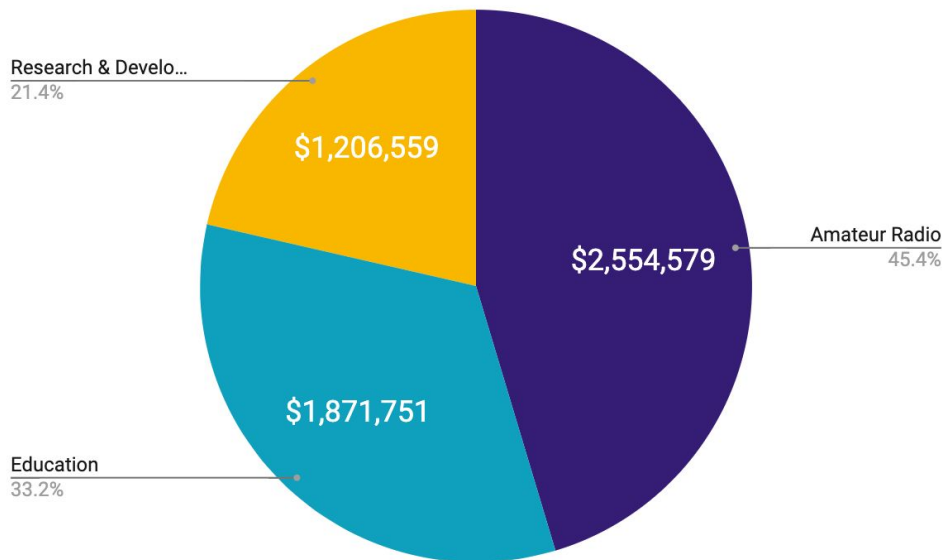


KC6GNJ

Grants Update - New in 2022

- **New Review Process**
 - Allows ARDC to evaluate more proposals
 - Compares similar projects
- **New Web Pages**
 - Updated [instructions](#) on applying
 - More concise/refined [categories](#)
 - Rundown on [what happens after you get a grant](#)
 - You can now [leave us feedback](#) anonymously

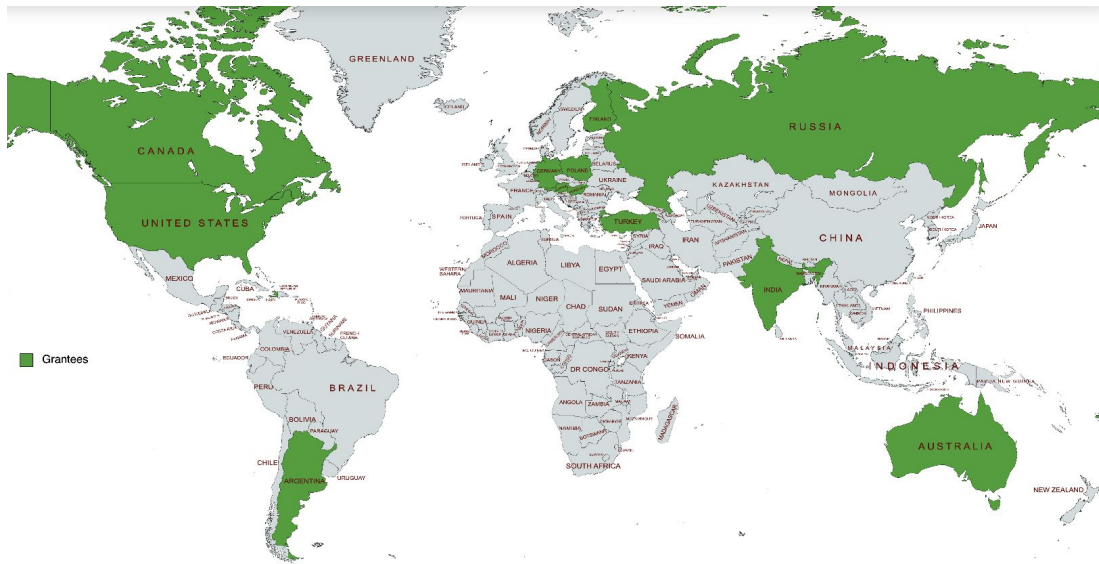
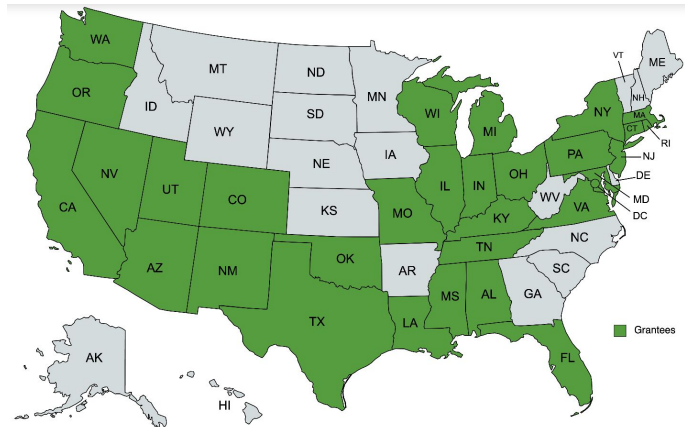
Grants Update - Overview



- **New grants!**
 - A total of 61 new projects
 - \$5,632,889 awarded so far in 2022
- **2022 Request trends**
 - 86 proposals were received
 - We funded 56% of requests

Grants Update - Project Trends

- Amateur radio to new audiences
- Increased capacity for established ham clubs



- Would like to see more R&D proposals
- Still striving for more international projects

Grants Update



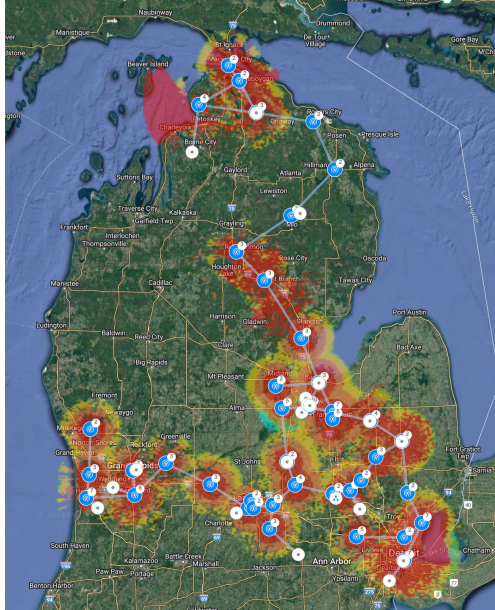
**Growing Participation in
Amateur Radio Direction Finding**
Sangamon Valley Radio Club
\$1,824

Grants Update



Why Ham Radio Matters
National Radio Astronomy
Observatory
\$315,123

Grants Update



**Central Michigan Emergency
Network**
Mi6WAN Project
\$250,945

Grants Update - What's Next?

Upcoming Deadline:

You can apply any time, but applications submitted after October 1 will be reviewed in 2023

Hypha

New, open source grant application system
grants.ardc.net

Hamfests and Conferences

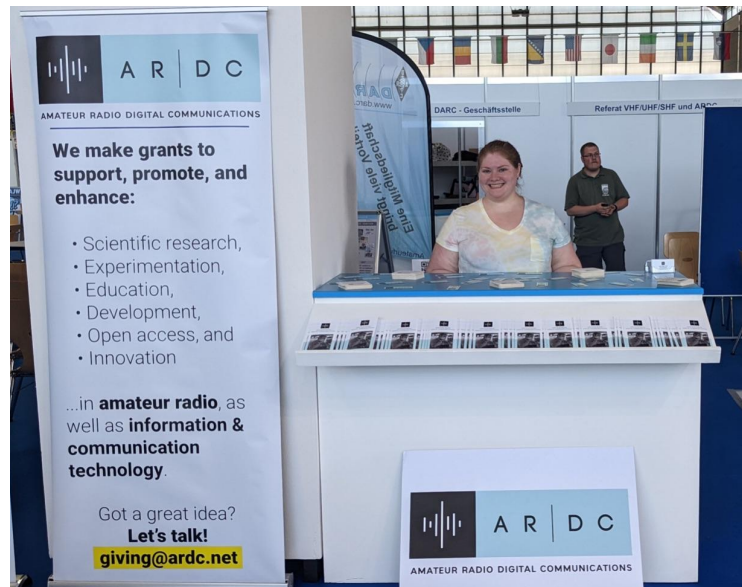


Hamcation, Orlando

Adam, KC7GDY

Dan, KB6NU

John, K7VE



Ham Radio, Friedrichshafen

Merideth, KK7BKI

John, K7VE

Leandro G5LSI



Hamfests and Conferences



Hamvention, Xenia
John, K7VE speaks with
some visitors

Hamfests and Conferences

In the second half of 2022, come see us at:

- DEFCON 30, Las Vegas, NV, August 11-14, 2022
- HamXposition 2022, Marlboro, MA, August 26-28, 2022
- TAPR Digital Communications Conference (DCC), Charlotte, North Carolina, September 16-18, 2022
- GNU Radio Conference (GRCon22), Washington, DC, September 26-30, 2022

44Net Updates



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AMPRNet Portal


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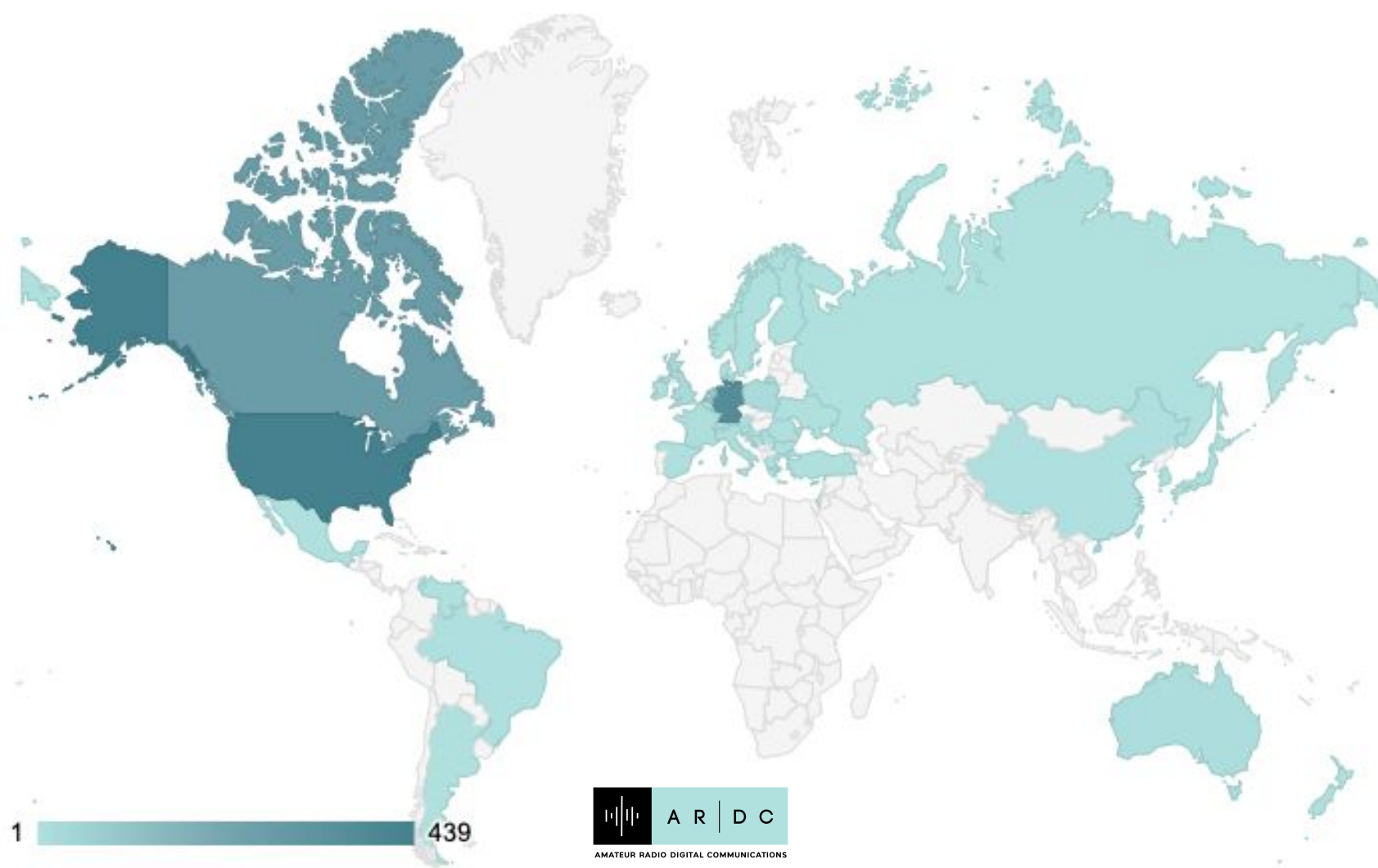
Technical Advisory Committee has been working on a technical requirements document for a new version of the Portal.

44Net Assessment

- Purpose is to detail the **current state** of 44Net as a starting point for **future visioning**
- Contract with TWO  for objective, professional research
- **Next steps** for assessment:
 - Additional quantitative data collection
 - Focus groups
 - Executive write-up presented to Board of Directors
 - Expected October 2022

44Net Assessment

- Released May 26
- **1766** total responses
- **Translated professionally** from English into German, French, and Japanese



1

439



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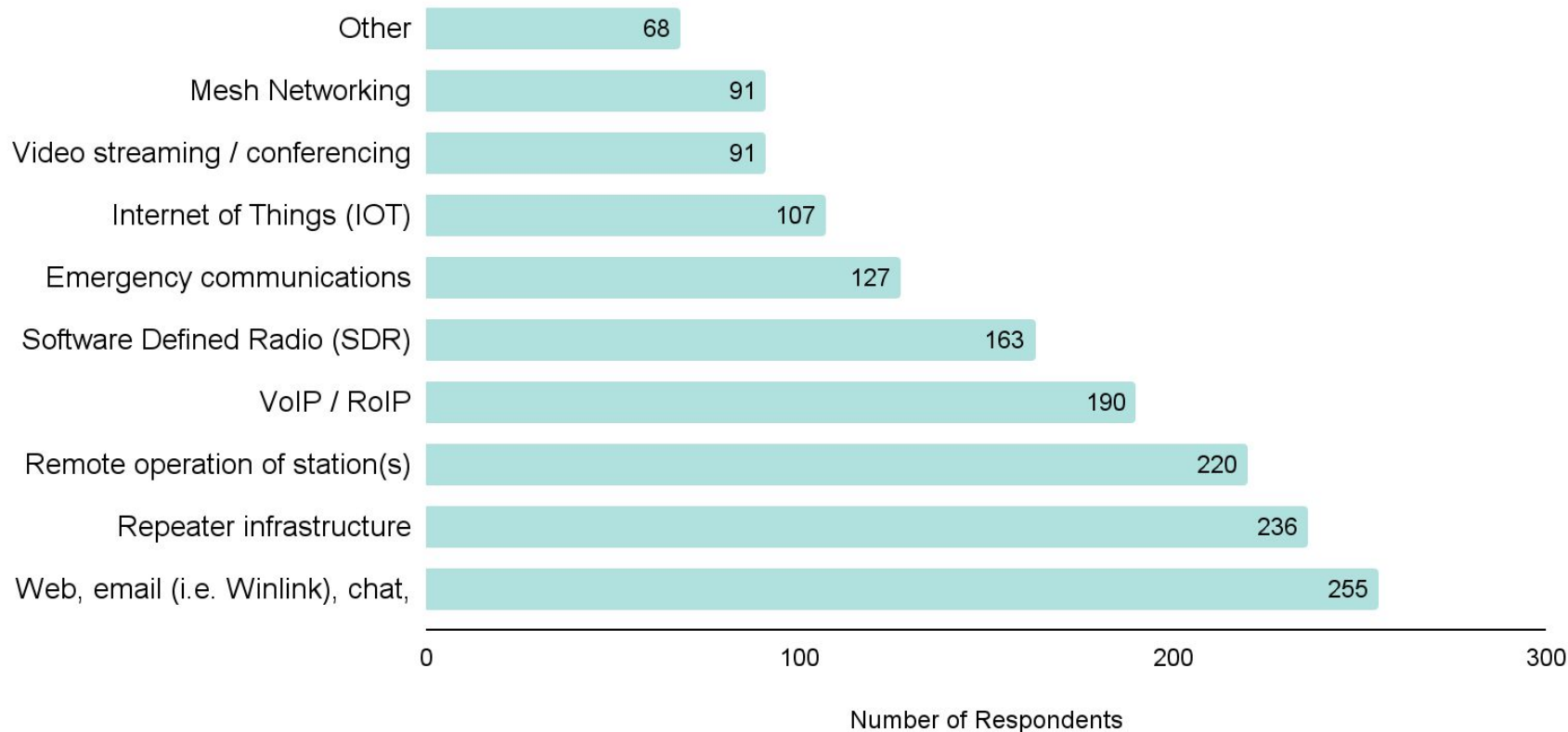
Common Themes

- **Inconsistent regional coordinators**, both policies & response time vary
- **AMPRgw approach with IPIP mesh is challenging in the modern internet**; where CG-NAT is increasingly common and a single California PoP is a latency penalty for many users

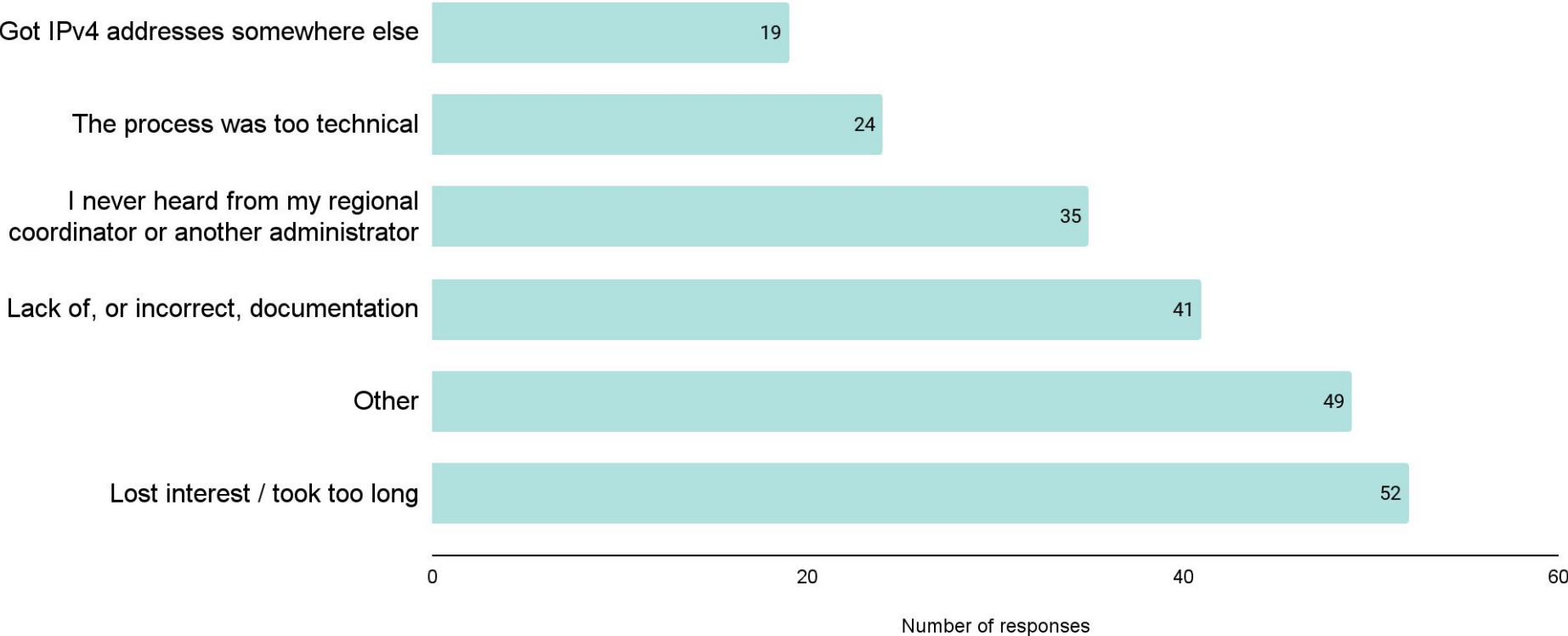
Common Themes

- Applications (*ie: web browsing, Jitsi video conference*) are rapidly going to a trusted security model with encryption required & on-by-default; **this makes operating an “encryption free” network difficult**
- **Need for offering RIR services**, or at bare minimum, RPKI & reverse DNS delegation; participation in the global routing communities
-

What applications or services are you running on your 44Net prefix(es)?



Why were you unsuccessful using 44Net?



Noteworthy Comments

“Make use of that address pool easier - move beyond just administering allocation. Just handing out IPs is only useful in a very small number of very specific use cases and circumstances - these don't apply to most people...”

Noteworthy Comments

“As a sysop/experimenter you need a **counterpart**/other station. It would be nice to have some kind of **IP address book** with used **applications**.”

•

Noteworthy Comments

“ARDC should delegate large subnets (/16-/18) to other non-profits that are within other jurisdictions.”

Noteworthy Comments

“In my opinion global visibility of 44Net has been decreasing for years. **I think ARDC should invest in creation of educational and operational materials for the possible uses of 44Net**, in English and then translations to other local languages around the world.

Also establish some sort of "Academy" for different age groups that local clubs can follow and get new people interested in.”

Connections with Grants

Comment from Survey

Frustrations with the Linux
AX.25 kernel



Related Grant

Hire developers to create a stable
implementation of the stack

Granted December 2021 to DARC

“Essentiell für HAMNET” /
“Essential for HAMNET!”



Expand and solidify infrastructure
of the network.

Granted April 2021 to DARC

Q & A



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What actions or support are critical to making 44Net more accessible?

Examples:

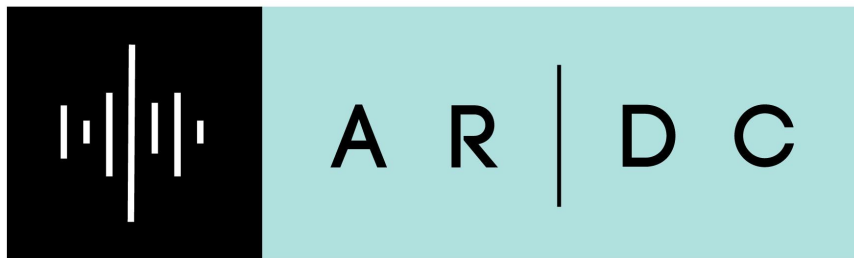
- Improved **documentation**
- Easier to use software (or a pre-configured router)
- **Consistency with allocation** process
- Hardware **recommendations**, documented use cases

What are examples of cool use cases of 44Net?

Examples:

- Experimental **Autonomous System** (AS)
- Remote licensing exams running on **servers using 44Net**

What did we not ask, but should?



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Thank you!

Reach out any time: *contact@ardc.net*