



NORDTECH Virtual Participant's Meeting

March 28th, 2024

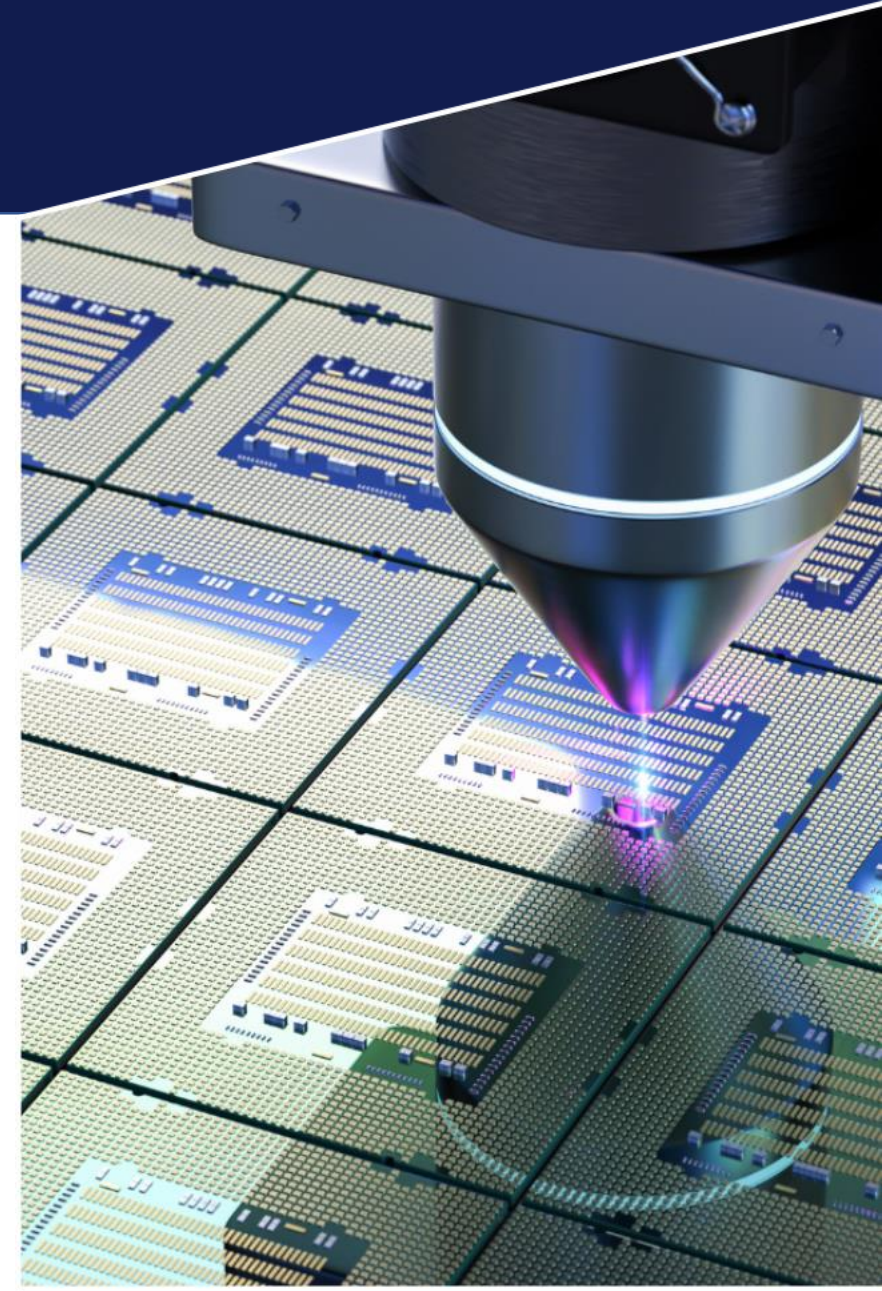
Hub Progress Update, CFP Review, Work In Progress, CFT Prep, Q&A



Progress Update

Progress Since Last Meeting

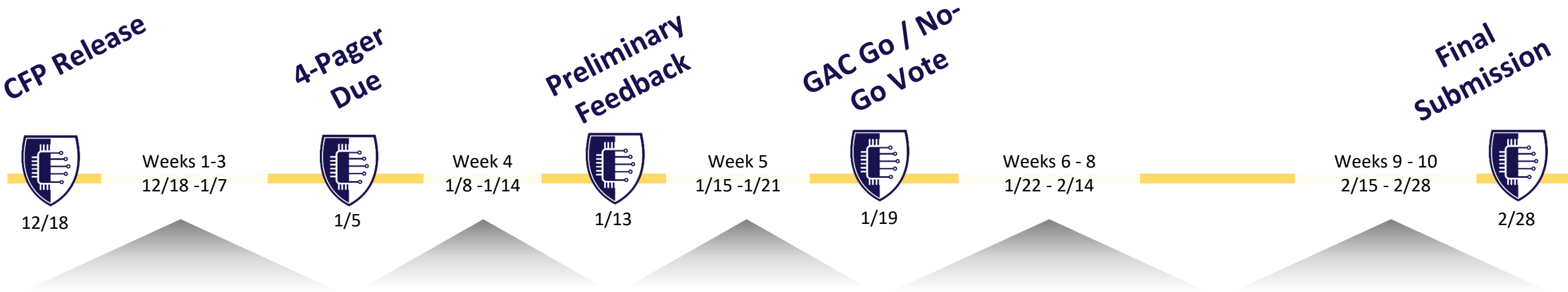
- Contracting
 - All sub-contracts executed
- Staffing
 - New Program Director – Cheryl Kennedy
- Operations
 - Site visit from NSTXL/USG on Feb 1
 - 7/10 hub stand-up deliverables completed
- Projects Submitted!





Call For Projects Review

Call for Projects Timeline



NORDTECH Actions

- Participant email sent out with 4-pager submission instructions
- TAC, WAC, FAC Assessment
- Preliminary Feedback to Leads
- GAC review and selection
- Point of contact assigned for each project proposal
- Peer review/feedback
- Final peer review, white glove treatment, compliance checks
- Submission to NSTXL

Project Lead Actions

- Develop and submit 4-pager via NORDTECH website
- Begin full proposal based on preliminary feedback (at-risk)
- Develop full submission packages including technical and financial volumes based on templates from NORDTECH

Call For Projects Summary

51

**51 White Papers →
15 Projects**

- 5 Quantum
- 5 Commercial Leap Ahead
- 3 AI Hardware
- 2 Secure Edge/IoT

2

**Two joint projects
with NEMC**

8

8 Unique Lead Entities

65

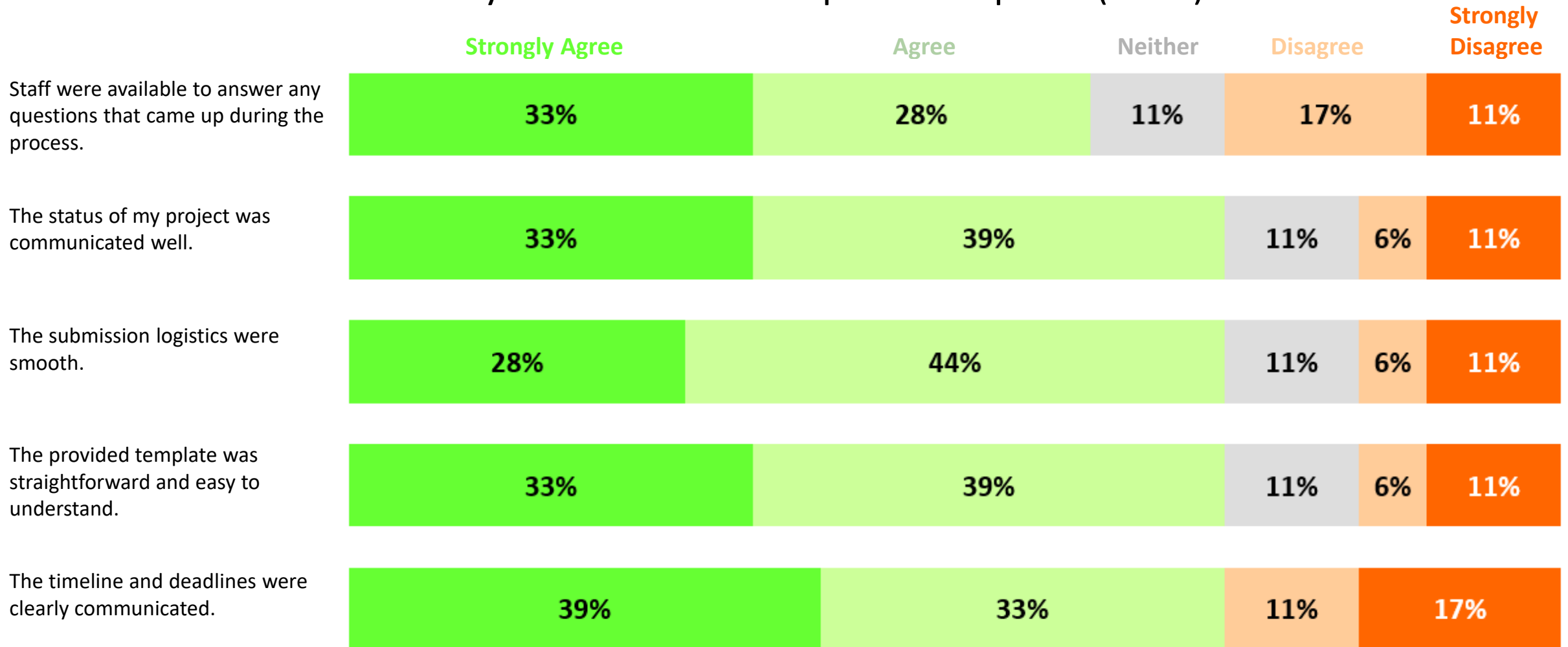
65 Unique Participants

Project Areas:

- Quantum Sensors, Photonics, Superconducting, and Networking
- Magnetic Tunnel Junction True Random Number Generators
- AlGaN, Ga₂O₃, Power Electronics, RF
- AI Hardware for Edge Compute, Edge Sensors, and with Heterogenous Integration
- Security Architectures, with HI

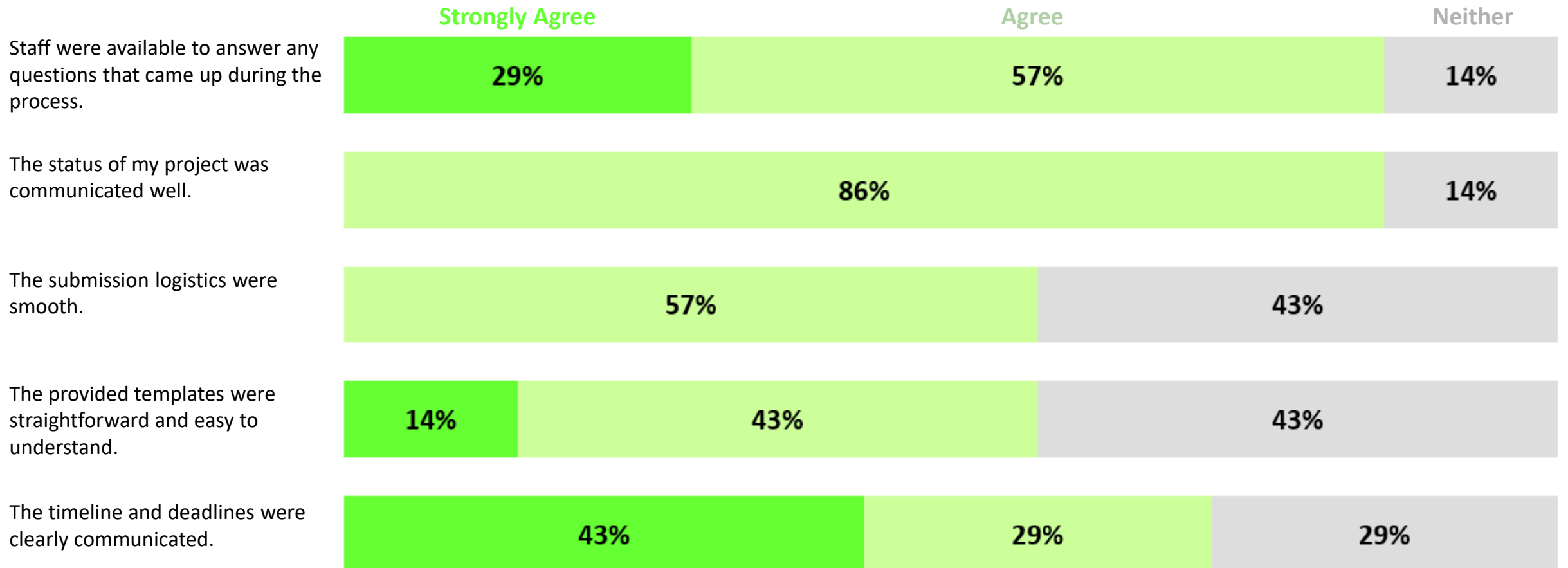
Call For Projects Review

Survey Results – White Paper Participants (n=18)



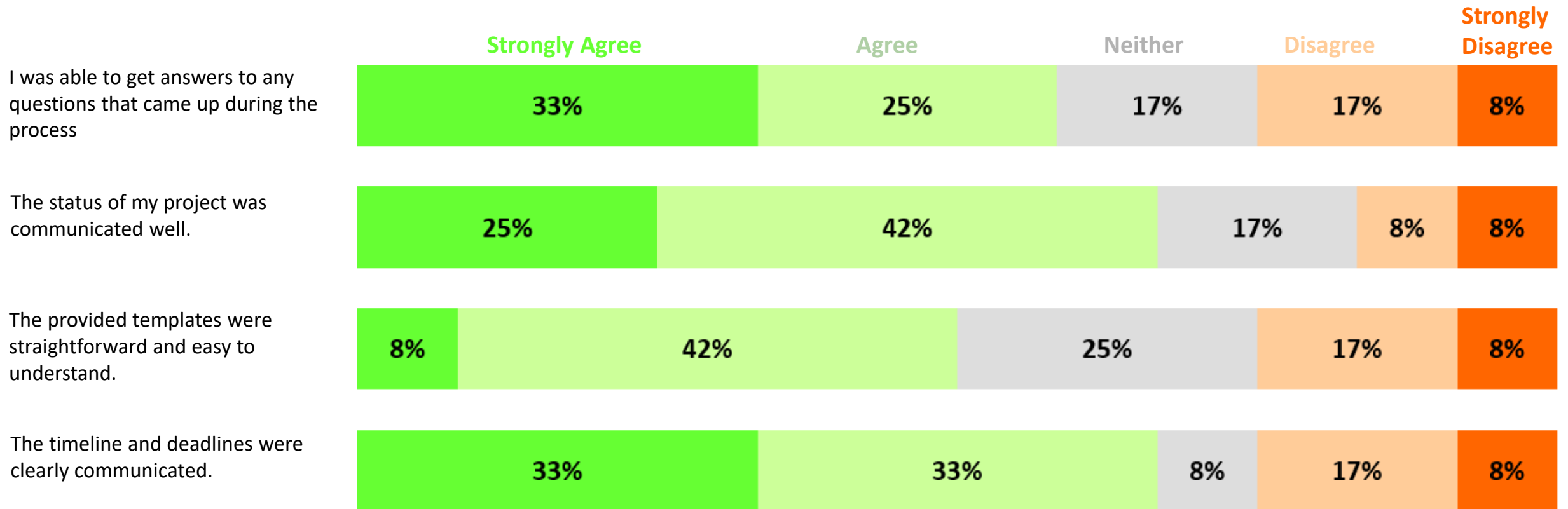
Call For Projects Review

Survey Results – Proposal Leads (n=7)



Call For Projects Review

Survey Results – Proposal Subs (n=12)





Work in Progress

Work In Progress



Contracting

- Bylaws and Membership Agreement being finalized



Staffing

- Staffing IT and Comms being hired
- Will be adding events and facilities support



Operations

- IT Infrastructure ID'ed and being procured
- Capital equipment procurement underway
- Prepping for CFP award/start-up and CFT

Work In Progress

- **Build a regional network**

- Online meetings and periodic in-person events
- Virtual members platform in procurement

- **NSTXL/ME Commons Funded Projects**

- “Call for Projects” answered with 15 proposals
- Expect 5 (+/-) projects for NORDTECH

- **Sustainability by Year 5 TBD**

- Membership fees
- Inter-facility prototyping
- Accelerate lab-to-fab
- Project IP licensing
- Hub funded EDA tools
- Design services
- Unique offerings

- **Education and Workforce Development**

- Amplifying and expanding regional microelectronics educational efforts across the hub institutions



Call For Topics Plan

Call For Topics Plan

- Goal: Identify technical gaps/opportunities
 - Government to select topics to close their gaps
 - Will inform future Call for Projects (CFPs)
- Anticipate late June/early July release
 - Responses due to NSTXL in ~30 days
- All ideas will be put forward
 - CFP 4-page White Paper template as base
 - Modified per CFT requirements
 - NORDTECH may be asked to prioritize topics
- Stay Tuned!



Upcoming Events

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- **April 10th-11th in DC** – Commons Hub Board Summit/Annual Review
- **May 7th-8th in Yorktown Heights, NY** – In-person Member's Event @ IBM
- **Week of June 3rd in Ithaca, NY** – In-person Member's Event @ Cornell
- **June** – Call for Topics Expected
- **July 29th-30th in Indianapolis, IN** – Microelectronics Integrity Meeting
- **ME Commons Annual Meeting** – October 28th-31st in Washington, DC
- **November in New York City, NY** – In-person Member's Event @ NYU





Question and Answer Session

Recap

- If you haven't already, get added to our public members list by completing the membership application at <https://nordtechub.org/contact>
- In-person events planned; tentatively:
 - Week of May 7-8th @ IBM Research in Yorktown Heights, NY
 - Week of June 3rd @ Cornell University in Ithaca, NY
- Stay tuned for the Call for Topics and a Membership Agreement!



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NORDTECH

Northeast Regional Defense Technology Hub



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