



2023 INTERNET2
TECHNOLOGY
exchange

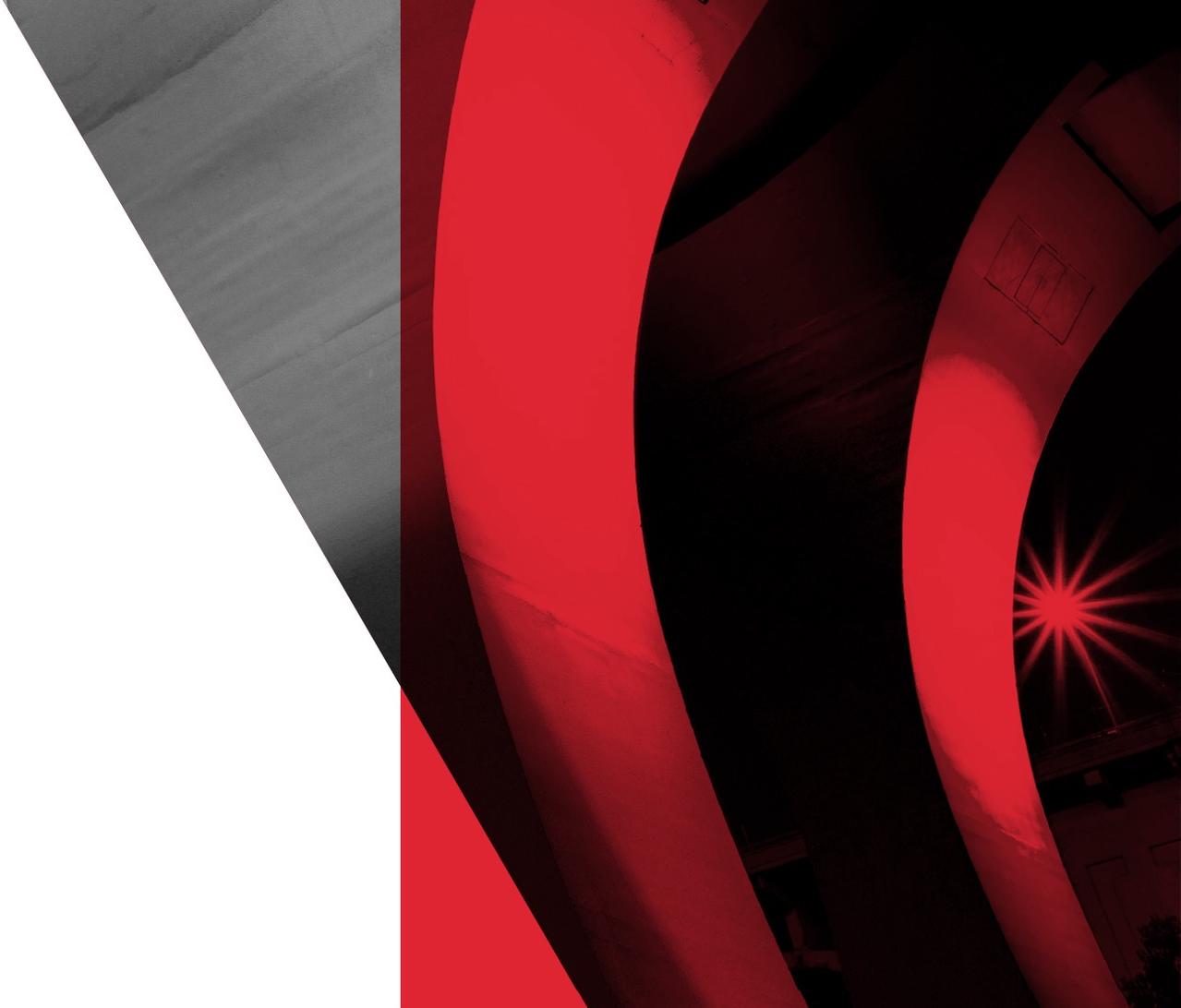
MFA evolution on Campus

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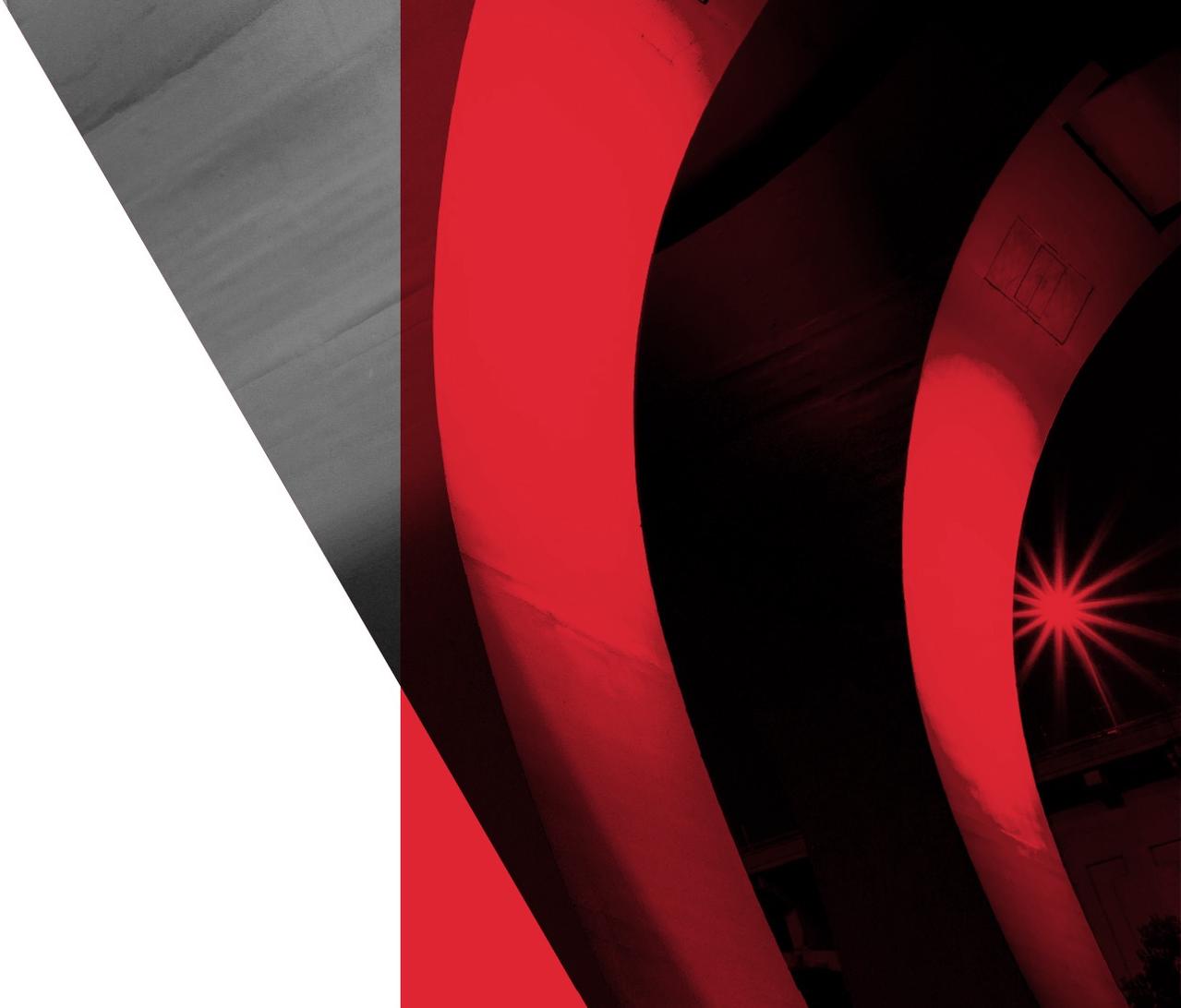
Introductions



NET+ Duo Program

- [NET+ Duo program](#) with 200+ subscribers
- Over 10 years old!
- Last program update in 2018
- Contract and pricing developed working with NET+ Duo service advisory board
- [NET+ Duo Service Advisory Board](#)
 - Provide oversight of the program and vendor management for the community
- Campuses signing up for NET+ Duo directly support the program
- Worked with Duo on product/features
 - Logging, TOTP support, Universal Prompt development, etc
 - Request to work with Duo on InCommon support for Duo SSO

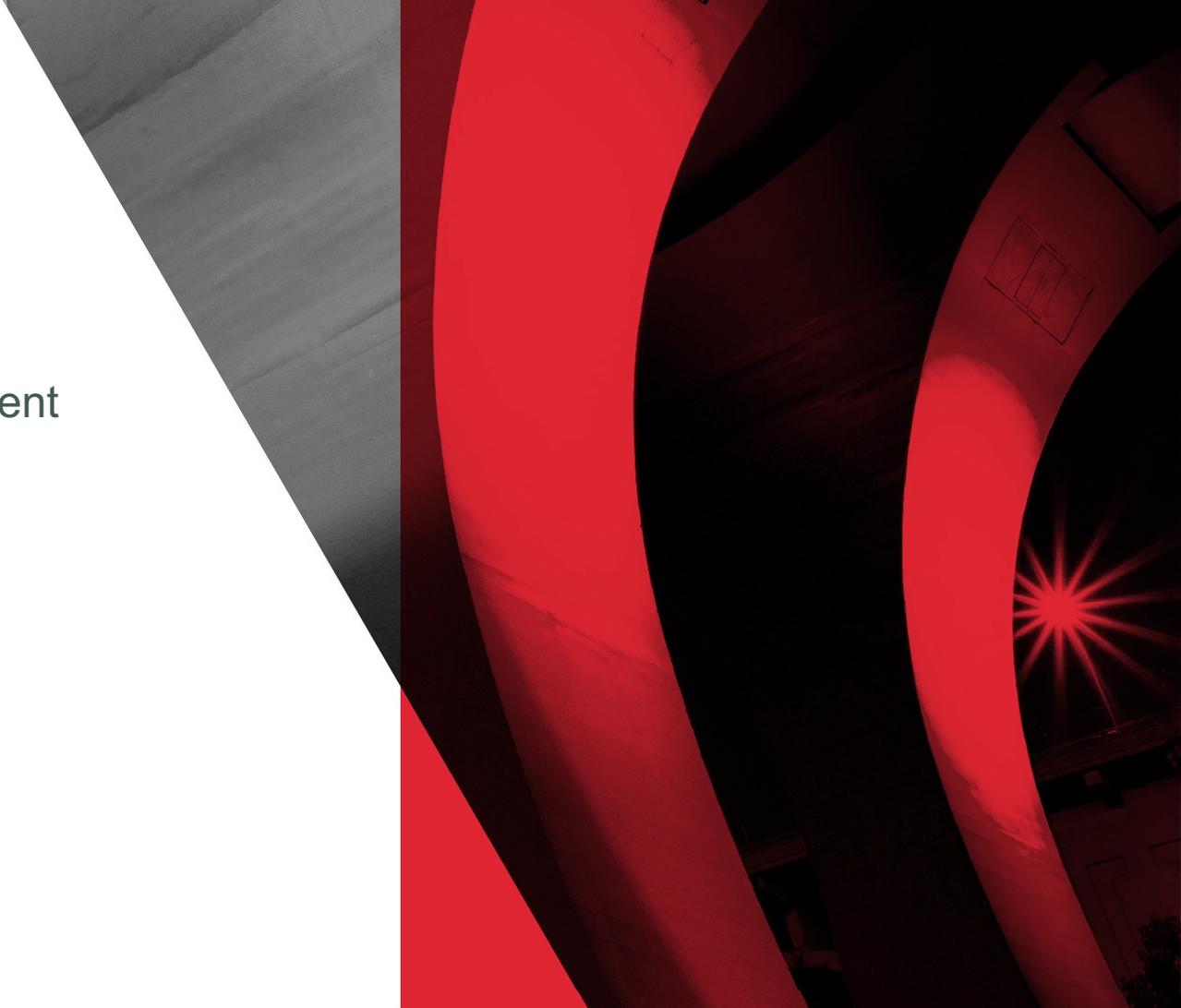
MFA phishing attacks



MFA Phishing Attacks

- [MITM Phishing Toolkit Research Highlighted by Stony Brook University at NET+ I2 Online Event](#)
 - Recording - <https://www.youtube.com/watch?v=rBM4CUWMDp8>
- Discussed in detail on NET+ Duo REN-ISAC Monthly Community Calls
 - Currently 1st Friday of the month and will be changing in 2024
 - Call registration - https://internet2.zoom.us/meeting/register/tJYtfumsqTgsE9yg2IEp_AIWfrAXmh-zEQTW#/registration

The changing environment



The changing environment....

- MFA on campus has changed dramatically over the last couple years as campuses responded to the pandemic
- Cyberliability insurance has been driving changes
- MFA phishing attacks
- Changing requirements from FSA, laws, etc
- Changing technology environments – some campuses moving to platforms vs best of breed
- Budgets

2023 MFA Community survey



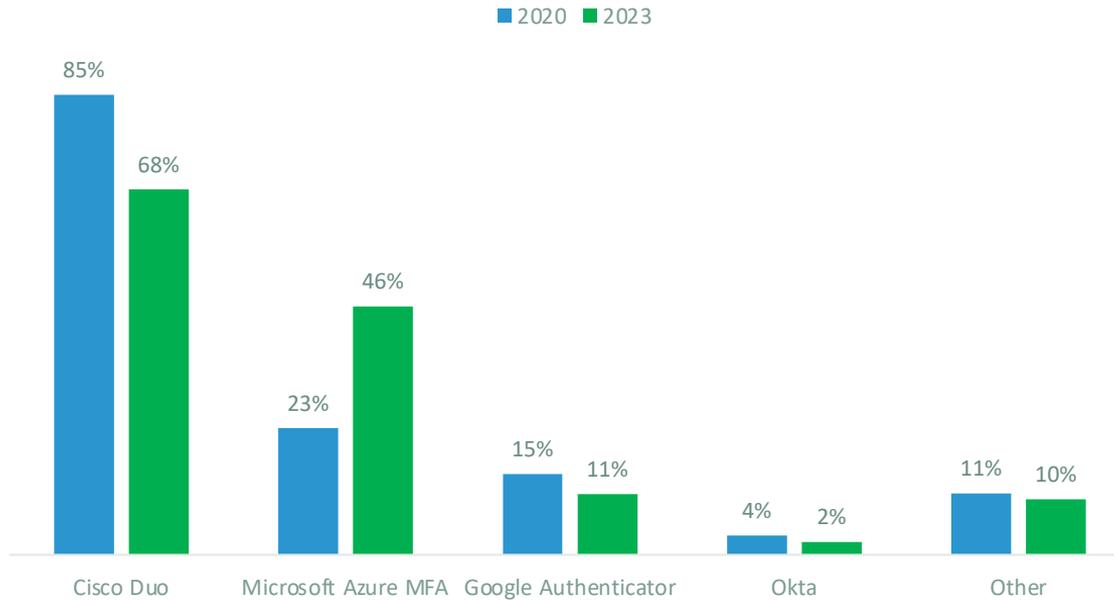
MFA Survey 2023

- Many thanks to RuthAnne Bevier!
- Many thanks to the academic and research organizations that responded
- MFA Community Survey from 2020 [report](#)
- NET+ is gathering data in other programs in a granular way for [Institutional Profiles](#)
- Worked with NET+ Duo service advisory board to develop questions
- Goal was to have it take 10 minutes or less for someone knowledgably about MFA on their campus to complete survey
- Gave campuses a month to complete the survey
- Sent to NET+ Duo users, EDUCAUSE Security and IDM, and REN-ISAC
Discuss email lists
- A public version of the data will be posted as a blog by the end of the year

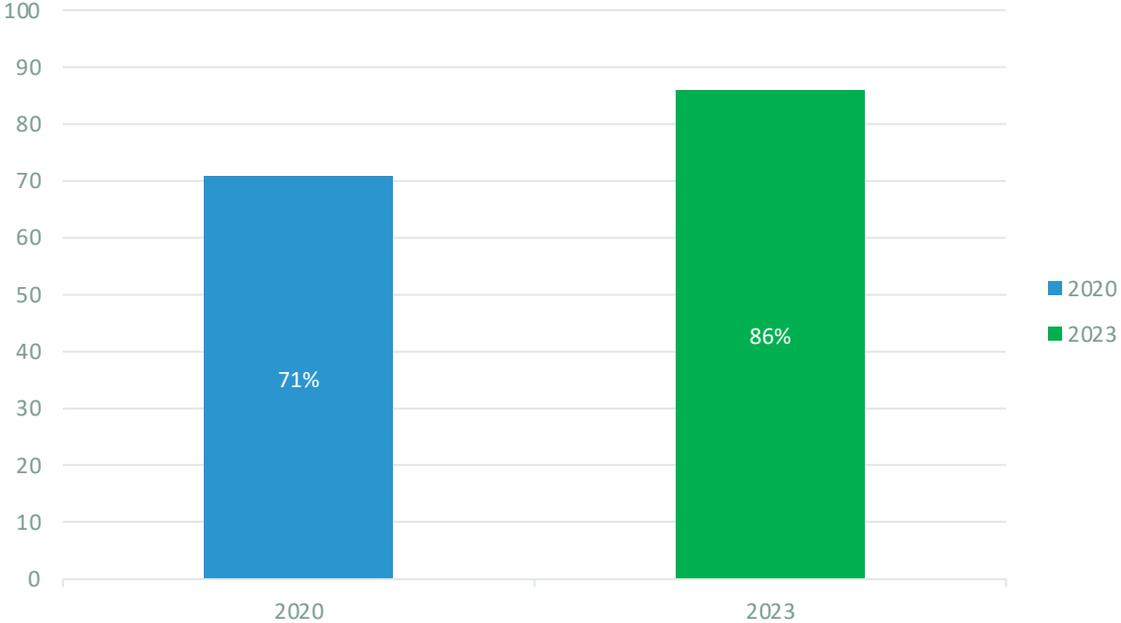
Response Demographics

- 225 unique with 2 anonymous from 10 countries
 - US, India, Mexico, Philippines, Canada, Sweden, New Zealand, UK, Australia, Turkey
 - Participating institutions span a range of sizes, from sites with no students to those with enrollments approaching 100,000 students, across 20 Carnegie Classifications.
 - These include Special Focus schools, 2-year Associates Colleges, Masters & Doctoral Universities, and dedicated research labs.
 - 53% of responding institutions are Doctoral Universities.
 - 45% of those with Carnegie classifications are classified as High or Very High Research Activity.
- Combined, responding institutions' services protect the learning of over 3 million students.

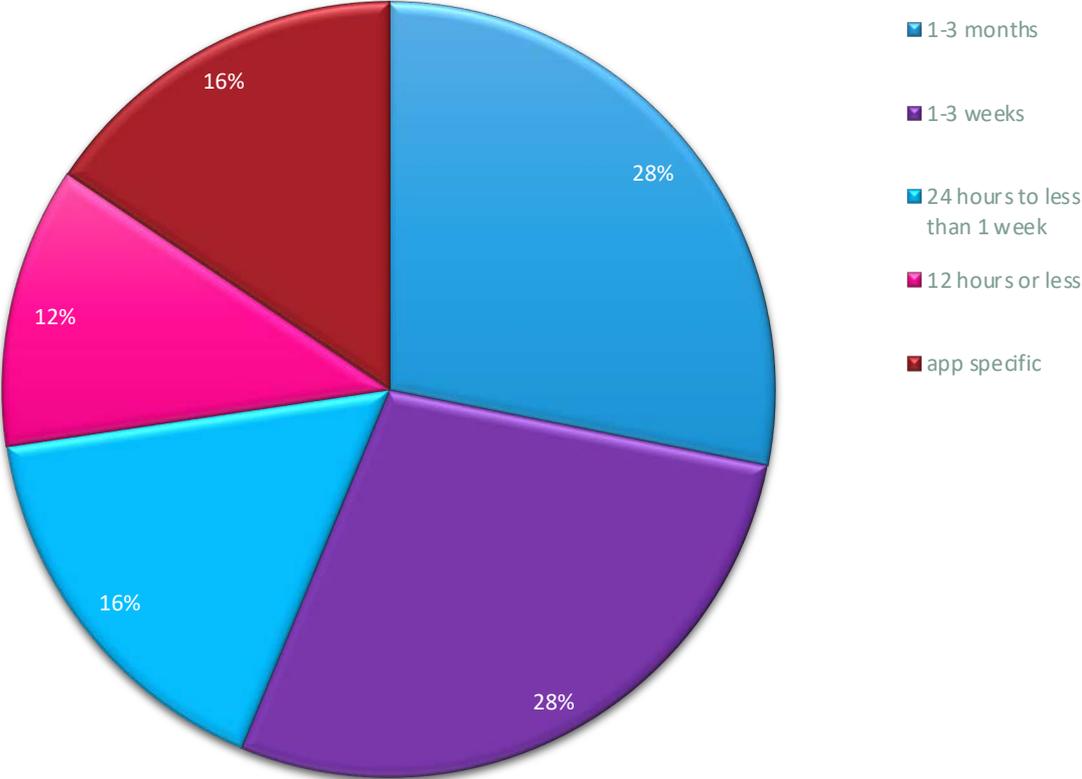
MFA Solutions Supported 2020 vs 2023



Single MFA Solution Supported

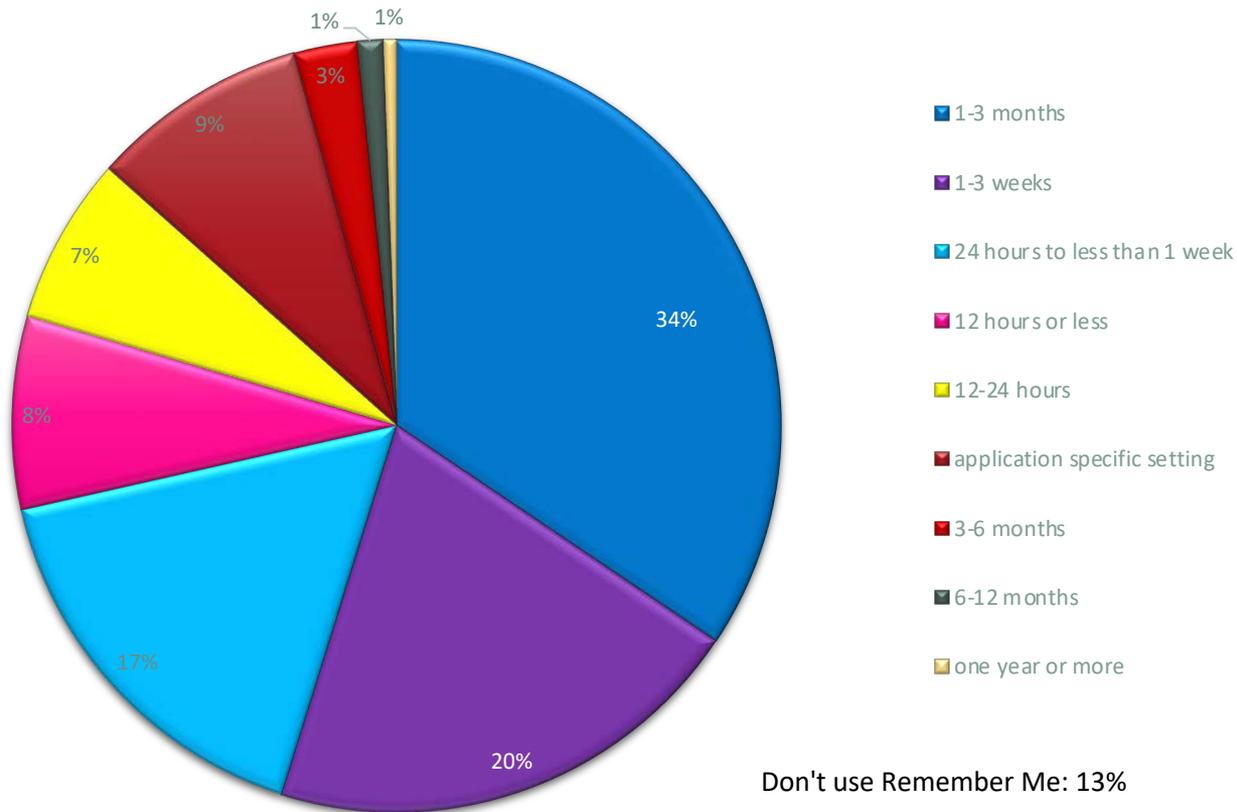


Remember Me Timeframes 2020



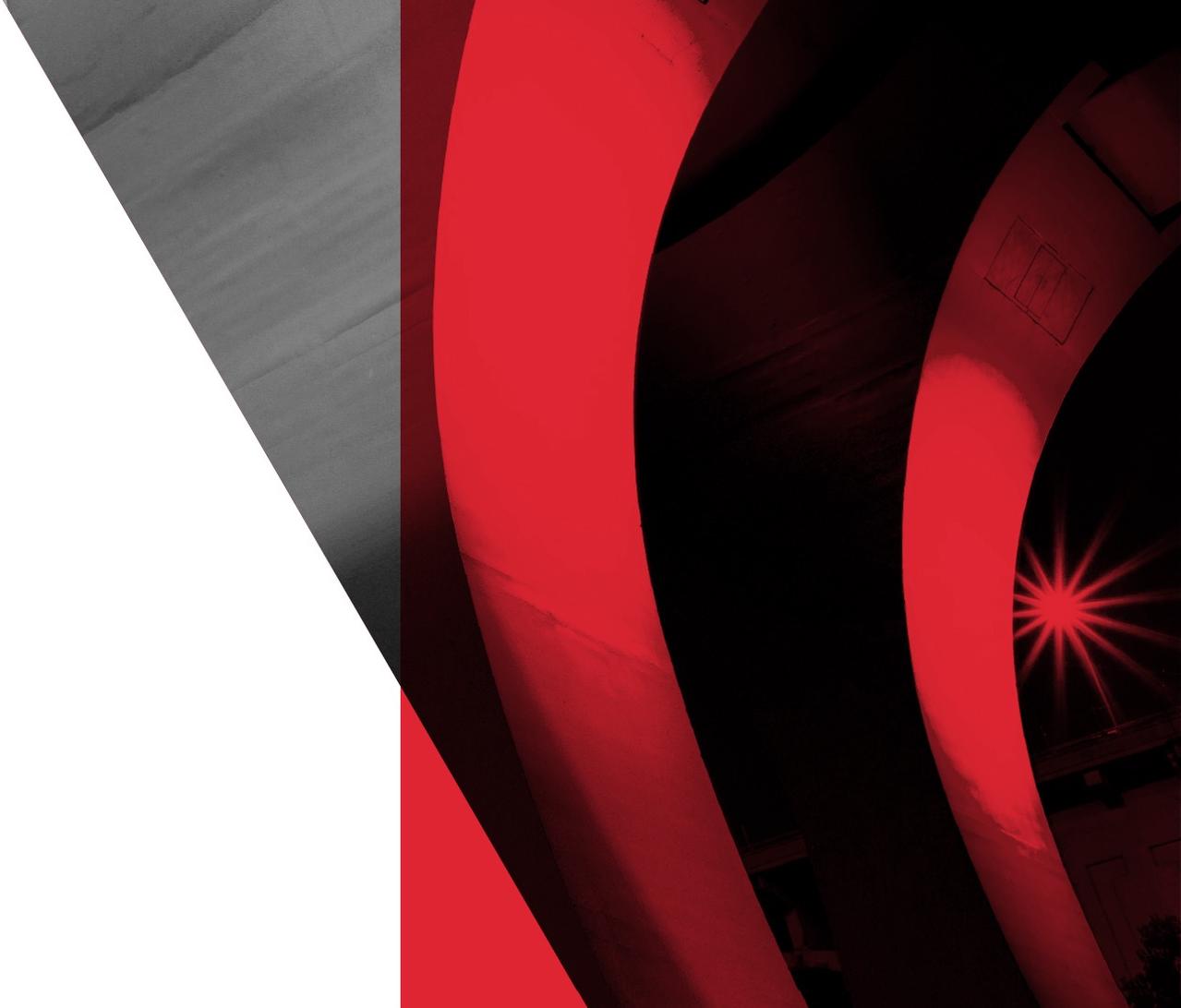
Don't use Remember Me: 10%

Remember Me Timeframes 2023



Duration	2020	2023
12 hours or less	12%	8%
12-24 hours		7%
24 hours to less than 1 week	16%	17%
1-3 weeks	28%	20%
1-3 months	28%	34%
3-6 months		3%
6-12 months		1%
1 year or more		1%
Application Specific		9%
Don't use (not included in %s)	10%	13%

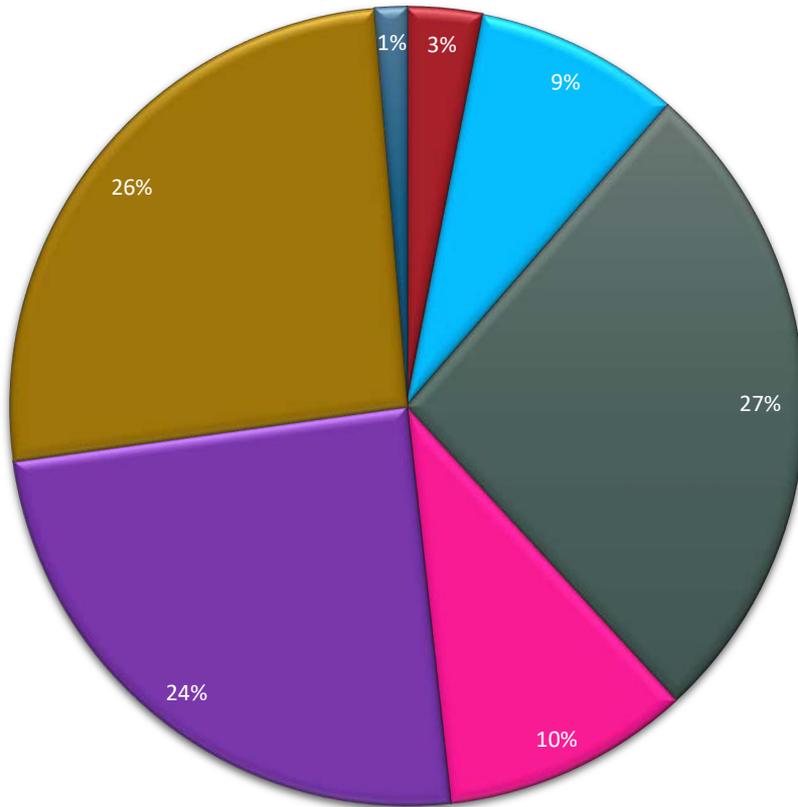
MFA Future Directions



MFA Future Direction

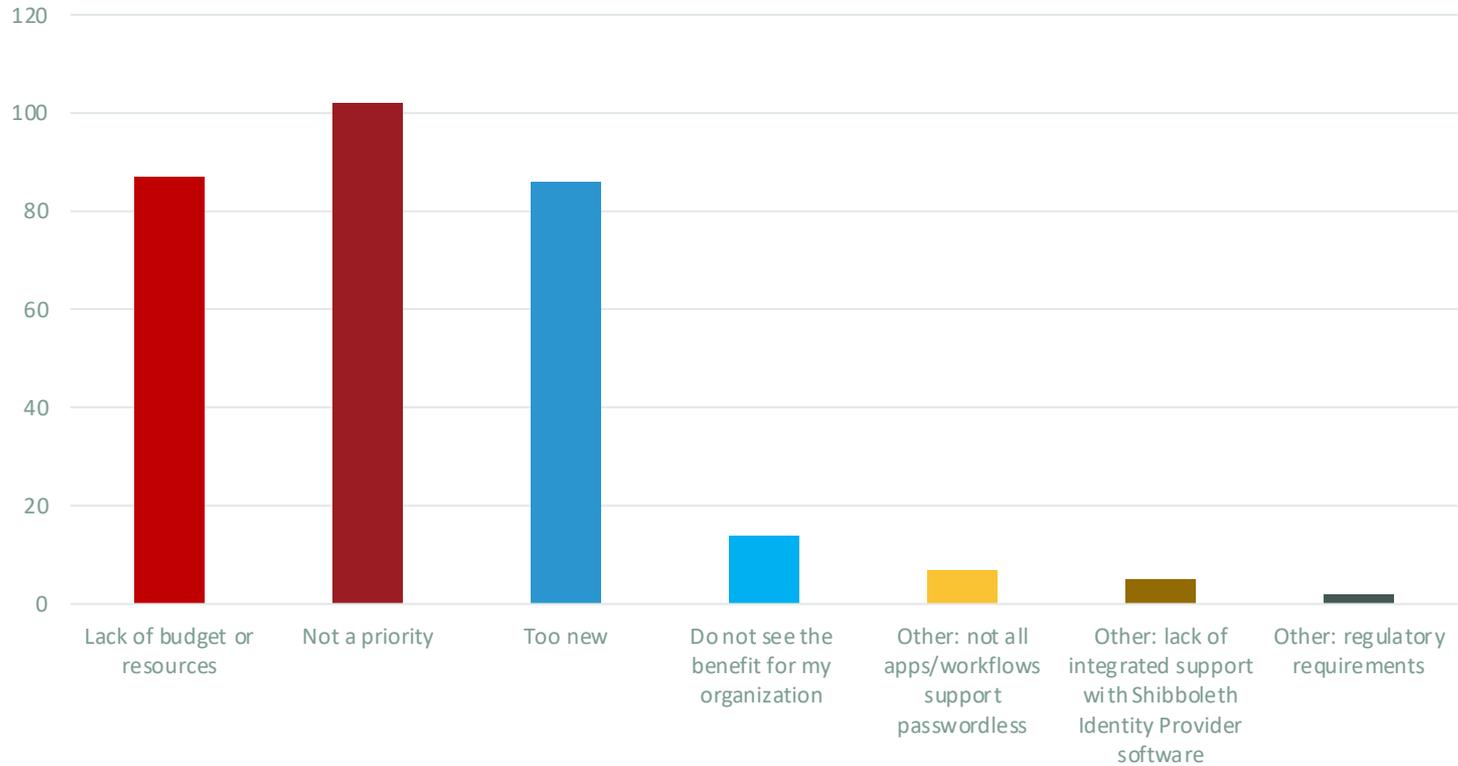
- If you're not already including students, you should be planning to do so
- Risk based auth
- Passwordless
- REFEDS MFA
- Retire telephony

Implementing Passwordless

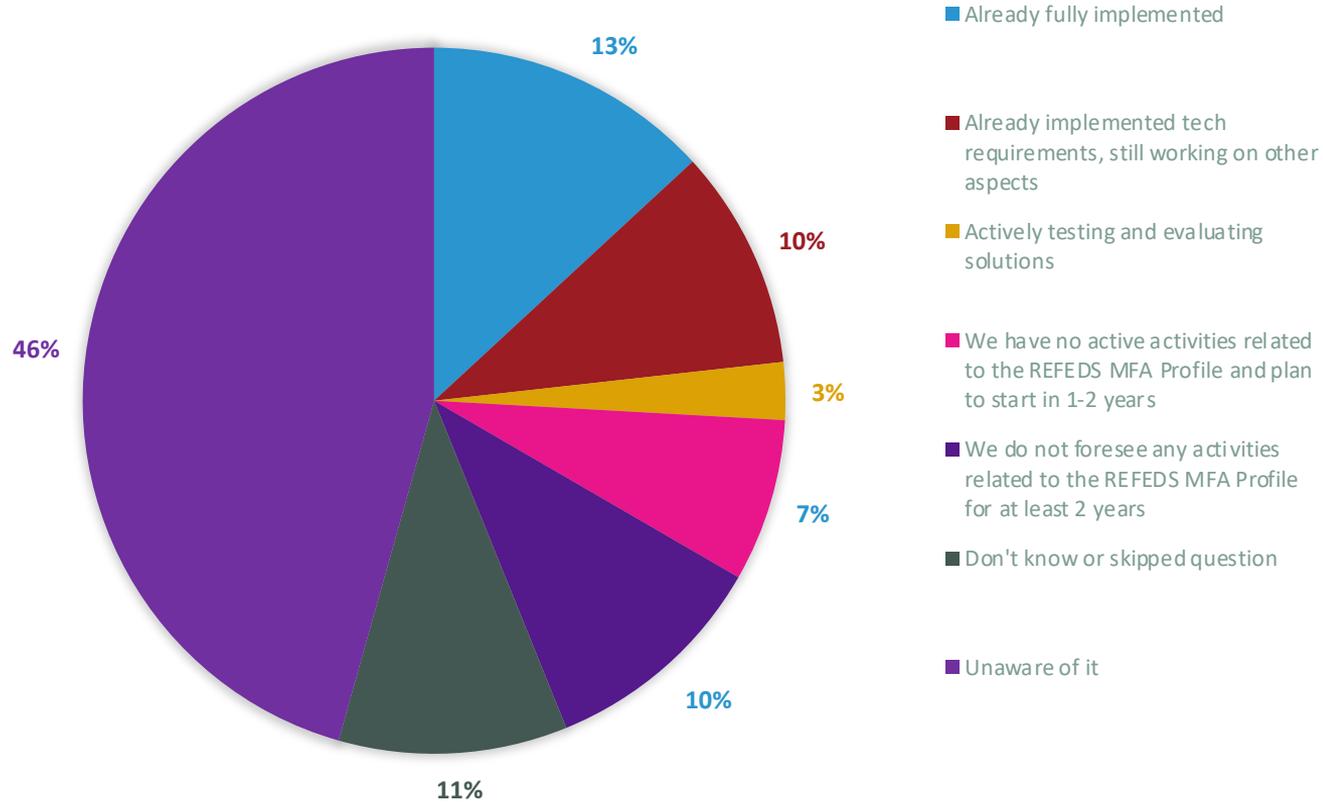


- Already implemented
- Actively testing and evaluating solutions
- Do not foresee any activities related to passwordless
- We have no active activities related to passwordless but plan to start this year
- We have no active activities related to passwordless and plan to start in 1-2 years.
- Don't know or blank
- Other/Waiting for vendor support

Impediments to Adopting Passwordless



REFEDS READINESS



Closing

- Contact: Nick Lewis, nlewis@internet2.edu
- MFA Community Report Blog
- Remember Me graphs in NET+ Duo Blog update
- Contact NET+ Service Management (netplus@internet2.edu) for a copy of the report
- NET+ Duo program - <https://internet2.edu/services/duo-security/>
- NET+ Duo Service Advisory Board - <https://spaces.at.internet2.edu/pages/viewpage.action?pageId=159979009>