

- Tom Gulbransen CISE/OAC

00:00:04Hello welcome thanks for joining us today for this discussion of the access program we've recently awarded to five institutions.

- 00:00:12The way i'm referring to is the opposite of events or infrastructure.
- 00:00:16And SF in our director manage parish ours here, as well as for chatting and how Suarez where the program officers with a processor program to exceed Program.
- 00:00:26like to thank you to the p eyes, who are here with us to have some visitations and then some discussion for preparedness materials like to also thank you to meet and the exceed.
- 00:00:38Seven relations folks for helping us to get the word out so attendance here is encouraging and great my name is Tom go Branson on with the office of advanced of infrastructure program manager from patel.
- 00:00:51Time at the neon observatory and i'm going to lead us off create the context and then launch into some presentations by each of the team leaders.
- 00:01:02The anticipated.
- 00:01:04sequence will be that will do slides in a monologue mode and then I don't know after 16 or so slides will.
- 00:01:12hear some question and answer interactive sessions, if you have any questions along the way there's a Q amp a panel and maybe some of the panelists can respond if you have a question along the way, otherwise we can.
- 00:01:23address it at the end and i'll provide emails for further follow up beyond today.
- 00:01:31Six lively's.
- 00:01:35So really it's a simple.
- 00:01:39progression here want to discuss the program generally the scope of it, why that scope was crafted to be.
- 00:01:46listened to it was, as well as a little bit about the governance, so we understand the leadership is quite a few leaders of key areas.
- 00:01:53But mostly I want to convey this theme of stability continually of services, as well as some new innovative.
- 00:02:03breakthroughs and so we're going to have a little bit of both because that's the intention here is to bring forward the successes that we've had in the program as well as a lunch break into new areas.
- 00:02:17And then I want to also end with a slide that reveals.
- 00:02:23Some of the key areas, five or six different areas where the access program and the teams and the governance looks for an invite and and.
- 00:02:33Actually relies on the research community to be involved, so we will be highlighting opportunities to for you to be influencers and for us to hear and learn of the needs that can keep having to respond to the next slide.
- 00:02:52So, from a top down point of view.
- 00:02:55The access program solicitation was built into strategic manner, thinking about the future advanced computing ecosystem strategic plan that was put together.
- 00:03:09Guided by the National Science and Technology Councils pioneering the future of computing so we've got 2019 document 2020 document.
- 00:03:18This was sitting with put together at the same time, a series of blueprints have been put out by the office of advanced of infrastructure.

- 00:03:25Five version 2019, and these are setting the context for this ecosystem concept and we'll go through how that is being manifest and with the program access program is built on.
- 00:03:40In addition to that, we want to be hopefully will show a thread of democratizing and broadening participation throughout today, as well as through our program and all of the service track.
- 00:03:51But let me do a little bit of context of where we have been so that we can look forward the exceed program extreme science and engineering discovery environment.
- 00:04:01that's what we're building upon and that's about 10 years worth of work where your as researchers receive allocations to use computing cycles and storage.
- 00:04:08On one or more of dozens of HP of high performance computing and high throughput computing system but typically exceed the capacity of on campus system.
- 00:04:19So these resources provided we refer them, for example, yeah expand system San Diego and bridges to Pittsburgh get stream to stampede in Austin Texas advanced computing Center.
- 00:04:30These are the some of the systems, there are many others each has unique strengths and uses or types of research that the best.
- 00:04:41to deploy or tuned for and so these allocations occur, by way of decisions that are made by people who review requests for allocation and then those reviews are put up to the.
- 00:04:54Committee or the Council that decides who gets to elevate and then I was allocations are based on 1015 page recall are launched.
- 00:05:05Some of the people allocations need some help figuring out which machines are best suited to which how to get to the data other people researchers might actually need help building the solution so there's a exceed has provided.
- 00:05:20Support user support to collaboratively put these research programs together and execute them and exceed also has metrics that have been.
- 00:05:32collected by the St mark metrics on demand systems to see utilization all of those components are being brought forward some of them revise some of them.
- 00:05:45expand in an extended so that's what we want to talk about today.
- 00:05:49Today is backwards, like week seven because we just started the access program on may 1 So this is the team is just getting going, but we thought we put this out, so we can hear from the communities as early as possible.
- 00:06:01and get going, we will be in this transition mode for about four months so that.
- 00:06:08September 1 is the is the mark, where access will be up and running in its first generation of operation.
- 00:06:18So that's that's the context and throughout want to just keep emphasizing that it's this ecosystem approaches both hardware, software and then the people's roles.
- 00:06:28Always driven by the research needs, we have to continually be anticipating what those are and then evaluating are we doing as well as working on a ride, we have to make some adjustments.
- 00:06:38And finally, we want to have the ability to be agile and.
- 00:06:43Revised plans as needed and we'll hear a lot about that in the governance that the Coordinating Office is doing with john towns next slide.
- 00:06:56So from the.
- 00:07:00overarching how did access get designed and put together what's the strategy, there are the perspectives of the systems facing.

- 00:07:11perspective which ones are out there, and there are some test been being put up to be brought to production quality soon so there's the where are the systems do.
- 00:07:22And then there are the people facing views, but before I go too far into that, let me, let me give minish parish our our director a chance because he has the largest view and I should offer to give him the chance earlier, thank you.



• Manish Parashar

00:07:38Oh, thank Thank you Tom.

- 00:07:41and good afternoon, thank you for joining and welcome to this town hall as Tom mentioned my name is manish pressure on the office director for the office of advanced cyber infrastructure we see.
- 00:07:56So, building on tom's context right, let me say a little bit about the overarching goals of this program is you know, over the years nsf has funded a diverse set of advanced computing resources.
- 00:08:11Services expertise that are really designed to advance research and education across all areas of science and engineering.
- 00:08:21And democratizing access to these resources, so they can be accessed and effectively used by the broader set of researchers is really essential to our mission.
- 00:08:33So, ensuring this broad access this democratization of services, resources and expertise is the overarching goal of the access program access envisions a fabric of national coordination ci services.
- 00:08:52Tom gave you an overview of some of these that can effectively support broad and diverse requirements of applications and users broad communities of users, our usage modes and really support all areas of science and engineering.
- 00:09:10Right, the access program has been designed with few objectives in mind, the first one is scalability in the size and the breadth of the Community we're seeing a growth in the use of off of.
- 00:09:22ci ci across all areas of science, as well as the applications and the resource requirements So how do we make sure we have a set of services that can scale.
- 00:09:32At the same time, we want to be agile, we are seeing changes in new user communities coming in our new ci needs new technologies and systems architectures being deployed.
- 00:09:44and new ways in which the communities, want to use these resources right So how do we have a structure where the services can evolve quickly in an agile manner.
- 00:09:54To respond to these new opportunities and needs right and then finally have a flexible management and coordination structure that brings these things together, and here nsf in this new.
- 00:10:06program is taking on a major leadership role in making sure these broad objectives are met, as we have done with all our programs so far, and when we execute this vision we want to balance stability with innovation as as as.
- 00:10:25Tom mentioned right, making sure that there's no disruption from the user community that depends on the services, whether at the same time, introduce new.
- 00:10:37approaches new services innovations in how we deliver the services or the types of services to address these emerging science needs.

- 00:10:45As Tom mentioned the access award by the set of five awards are was announced our began on may 1, and this is early days week seven and the access team is working.
- 00:10:59With the exceed team on transitioning to support and compete this transition, by the end of the summer summer early fall right and we're really excited about.
- 00:11:11The new set of services, the new program the new api's and are looking forward to working with them with that, let me welcome you once again and turn it back to Tom was the cognizant program officer for the access program oh back to you, Tom.



• Tom Gulbransen CISE/OAC

00:11:28Thank you, many.

- 00:11:30I, I think that this graphic attempts to reiterate or share that same message with regard to the pressures to be stable and have production, quality and the downward direction what's there now and what needs to be continued to be trusted and reliable and timely.
- 00:11:51while at the same time and that's part of what we wanted to do today is to engage Community input, so that we can drive some of those test beds and some of the data sources and connectivity and instrumentation in the upper.
- 00:12:07right hand side of this project, as well as REACH communities and achieve communications that would be on the left hand side to get more users until have more opportunities to.
- 00:12:20take advantage of these resources some say people just don't always know what the system can do.
- 00:12:27I suggest, in some cases, the systems don't know what the communities need so we see this as a two way communication that we want to broaden out and that's what we'll be doing on an ongoing basis.
- 00:12:41Next slide.
- 00:12:45But I want to break down this access academics, the advanced cyber infrastructure coordination ecosystem services and support.
- 00:12:54it's really the middle two words right the coordination role, this is not a group of people who are going to do all the work, this is supposed to be, first and foremost and enabling and facilitating role, putting together the interfaces putting together the coherent, coordinated.
- 00:13:12connections between and protocols and selection so we'll hear from me shoe on some of the operations and.
- 00:13:18Road mapping that will be done to enable even more platforms to come in and even more people to integrate data resources so just from a very top level touching point of view, again we're building on the successes that have been there we're widening out the resources and the uses i'm.
- 00:13:38trying to get some of these components of access which.
- 00:13:42are becoming more modular to distribute them and have them in a decentralized.
- 00:13:48installations and campuses throughout the country and then the last point I would want to know just a little bit extra here is that we expect the access program in its evaluation to also.
- 00:14:02elevate and amplify the efforts of these cyber infrastructure professionals who are the glue that make much of this happen we've heard quite a bit from the communities that their career paths are sometimes a struggle in these super valuable people are not always recognized.

- 00:14:18access and the user support services will help that occur and strengthen that community in that workforce.
- 00:14:27Next slide please.
- 00:14:30The the the the ecosystem that we want to be showing you from a hardware point of view is shown on the screen here the.
- 00:14:41Green and the Green icons are explaining some of the largest.
- 00:14:47high performance systems, the path or SG leadership in Madison is opening to a community that we want to have further connections to and expansion into.
- 00:15:02Then there are reaches now, we will have will hear about some innovative ways to get cloud resources to become attached to and part of the ecosystem.
- 00:15:11In an allocation mode and then maybe even in the measurement moment, so that we can have that be part of these workflows that are stretching in every direction.
- 00:15:21So the next slide conveys the ecosystem from the people point of view here, we see the green stars depicting the principal investigators, as well the Co op is of the access award of all five of these awards.
- 00:15:37As well as the blue rectangles which are the htc systems that have staff who will be engaged with some of the support of their use as well as the purple.
- 00:15:50diamonds depicting some of the places where the centers of excellence, will be involved and then this theme of leveraging is one that I want to share access wants to establish.
- 00:16:03The ability for networks that exist to become more a part of the access community to provide services to other researchers, or to reach out to more researchers than.
- 00:16:17had previously been taking advantage of these systems, so you can see, six or seven of these research coordination networks cyber teams that are on board with the various awardees.



Unknown Speaker

00:16:30As.



Tom Gulbransen CISE/OAC

00:16:31collaborators we're very excited about how much broader this this landscape is couldn't get everybody on board but it's on the order of 75 organizations.

- 00:16:44Next slide please.
- 00:16:47structurally the solicitation was put out asking for proposals to address these five tracks across the top.
- 00:16:54locations and using support services operations and integration monitoring measurement technology translations and then across the bottom is that coordinating role to make sure that communications are clear.
- 00:17:08Strategic and that those things which are in common, can be addressed with a criminology you governance also happen by way of the visions that are set out by the.
- 00:17:20Access Coordination Office and the components underneath it Executive Council will be the board, essentially, and then they'll be advisors, that will be in panel that's actually one of the places we want to invite.

- 00:17:33 Some nominations or expressions of interest to participate so that's the technology translation track we're going to defer that for a little bit and just focus on these four major services, as well as a CEO.
- 00:17:46 The access Coordination Office.
- 00:17:50 Next slide so their awards were made two teams and the first team is the ramps team, the resource allocation marketplace and platform services to hear from them.
- 00:18:02 rest of upload and company on the second team, the end user support will be the Multi tier assistance, training and computation help and jelly can you will be speaking about that from CU boulder.
- 00:18:16 connect is the core national ecosystem for cyber infrastructure ensure we speaking to that from the right, you see, and monitoring Regiment.
- 00:18:26 decided to leave it very simple with their name down for lani will be expressing that program which largely stands on the excellence that they have seen in serving exceed and seeing that the planted out too many.
- 00:18:41 remote location and then, finally, the open ci team will be discussing the governance and coordinated communications in total it's 52 and a half million dollars over five years to this award specifically.
- 00:18:55 I would want to note and reinforce that that leveraging concept, there are other programs that have already in place and there are other programs that are envisioned and expected to be done, which will be complimentary and supplementary and will also be.
- 00:19:12 helping to achieve the goals of the access program the things that the access program is coordinating.
- 00:19:19 And there was a quick spray of the.
- 00:19:22 Major institutions that are on the across all the teams.
- 00:19:28 The next slide please.
- 00:19:32 From here, I want to segue into the first of five teams and David Hart new car will describe for us some the track one services, David.



• Dave Hart

00:19:44 Alright, thanks Tom.

- 00:19:47 i'm happy to be here today to speak on behalf of the ramps team, the ramps team is led by the Pittsburgh supercomputing Center along with and car where i'm from and the national Center for supercomputing applications, we also have a number of collaborators from across the country.
- 00:20:05 The the centerpiece of the ramps activities is to build a democratized marketplace for allocations, we want this marketplace, to be a welcoming gateway to inspire participation and collaboration amongst the Community.
- 00:20:19 We want this marketplace, to provide equitable access for a diverse community.
- 00:20:24 To that end we actually have a deep diversity equity and inclusion facilitator our management team to ensure that dei permeates this marketplace and all of our offerings.
- 00:20:35 And we also want this marketplace, to be a place where the effort on behalf that required on behalf of the researchers scale what they're increasing needs.
- 00:20:42 This flow chart here shows summarizes our plans for this marketplace right first and foremost the access research community.

- 00:20:51 drives this marketplace offering and we intend to make this a smooth transition for existing exceed projects and the researchers using those resources.
- 00:21:02 The ramps platform that supports this environment is X Ras the eXtensible resource allocation service, this is a familiar, flexible and robust system used today and it will continue to support the Community and all of the future improvements that we have planned.
- 00:21:20 Before allocation tiers this isn't going to be where we take advantage to have these tears to help scale the effort along with.
- 00:21:29 Increasing resource needs the explore discover and ramp up tears are going to be awarded and access credits those that's our name for a universal service unit.
- 00:21:40 and researchers, once they have credits will exchange those for resource specific units directly with the RPS resource providers in the marketplace.
- 00:21:51 On a lower right you'll see the maximize access tier that's the top tier of allocations for those activities and groups that require the largest scale needs the larger scale use of resources.
- 00:22:06 Those proposals will be reviewed by the access allocation review committee or Arc.
- 00:22:11 And this is modeled closely on the long standing extract process under exceeding if you're familiar with extract you'll be familiar with the arc process.
- 00:22:19 I do want to highlight here that this is an opportunity, though, to engage for the Community to engage with us if you're interested in participating on the Ark, this is a great opportunity to join us and and help the Community.
- 00:22:31 With the allocations process in the circle there you'll also see our efforts about around continuous improvement.
- 00:22:39 This is going to guide our evolution of the marketplace, is where we will incorporate Community feedback into the marketplace, make sure we incorporate dei considerations and make sure we collect input from stakeholders, as we move forward through the access project period.
- 00:22:56 Next slide please.
- 00:22:59 So the as part of the access solicitation.
- 00:23:04 It required track one to identify and implement innovative pilots for the allocation service.
- 00:23:11 The ramps team has proposed five of these and we've engaged key partners to help us guide help guide and design these pilot programs.
- 00:23:20 These exploratory efforts will be developed and implemented through continuous feedback and software development best practices.
- 00:23:28 The variable marketplace that's where we'll take the the initial marketplace that we roll out and implement new features such as supply and demand based conversion rate, so allowing the resource providers to to.
- 00:23:41 influence how their resources are used, including incentives for researchers to target specific resources or projects.
- 00:23:50 The second innovative pilot is called summarizes on ramps here's where we want to place the ramps interfaces to allocations out with our partner institutions or other institutions in the Community.
- 00:24:01 In essence, allowing researchers to ask for allocations where they're at their home institution, rather than having to find the access website and learn about it there.

- 00:24:13The third pilot is cloud integration with commercial and academic clouds here, we want to allocate vendor donated cloud credits in the ecosystem, as well as see how that will work, and what that how that affects the ecosystem.
- 00:24:28Pilot for will be looking at allocating ci resource workflow cyber infrastructure workflows requesting where researchers can request packages of resources to support complex workflows so here, it might be a combination of.
- 00:24:42Instruments computation data and other resources that have to be operated in as a unit and, finally, the last innovative pilot.
- 00:24:51involves sensor nets and instrumentation So here we want to incorporate significantly different types of server infrastructure.
- 00:24:59That might require calendar based scheduling and how do we incorporate that into this overarching process so we've got a lot of exciting things planned.
- 00:25:08And we're very excited to have this opportunity to evolve, the allocations environment post exceed and.
- 00:25:14Before I close, though I do want to emphasize that, despite all the changes, our first objective remains, ensuring that the Community continues to deliver top quality science impact from without interruption from the resource ecosystem thanks.



• Tom Gulbransen CISE/OAC

00:25:32Thank you Dave can we have the next slide for me please.



• Shelley Knuth

00:25:37hi everyone i'm shelly knuth i'm here from the University of Colorado boulder and i'm the lead PGI for the match project.

- 00:25:44The multi tier assistance, training and computational help and i'm here with my co P eyes of a deal men from university of southern California.
- 00:25:52john good here from mgh PCC James Griffin from university of Kentucky and Dave who DAC from the Ohio supercomputer Center and there are a lot of people that are behind the scenes that are working on this project as well, and I want to make sure to acknowledge them.
- 00:26:08As I said, our mission here is.
- 00:26:12Supporting the users and so that's really what we're looking at making sure that the researchers and the people who are using.
- 00:26:18The nsf funded cyber infrastructure through access has the support that they need, so that they continue can continue to focus on.
- 00:26:25what's important to them, which is conducting their research.
- 00:26:28And we're really interested in making sure that we maintain the cottony continuity of service for those who were working with exceed but also that we're broadening the net so that we're bringing in an engaging more Community members that perhaps were not involved with succeed.
- 00:26:43And so matches theme is really in line with what nsf theme is, which is to make sure that we're enabling that cutting edge and innovative research to happen.

- 00:26:52And, providing that through equitable and scalable support and the way that we've gone about, that is by is through a tiered model, and you can see the image of that tiered model on the left hand side here.
- 00:27:03If we take a look at the bottom of the tier that's where we're trying to hit the most researchers in the Community.
- 00:27:09without having to slow them down by at by having them have to require a ton of support and asked a lot of questions because they're confused about how to use the system.
- 00:27:18And if we move all the way up to the top of the tier that's where we're hitting fewer people in the Community, but with more of a higher touch.
- 00:27:25So I can take a second to explain each one of these tiers, that would be great So the first year.
- 00:27:32Is where again we're hitting the most users in the Community and we're doing that, by leveraging some amazing existing tools in the Community.
- 00:27:41Some of those are open on demand the Pegasus workflow tool and the connect.ci portal, which is now going to be the access match portal amp.
- 00:27:50And what we will be doing is integrating these tools together and providing them access wide.
- 00:27:55So that they're reducing the barrier to entry for researchers and others who are gaining access to these systems, and so the idea here is if the.
- 00:28:04research community and the community of people who need to access these systems have that lower barrier of entry don't need to.
- 00:28:12Stop in and ask a ton of questions and and are confused about how to interface with these systems, they can again focus on what's important to them, which is conducting the research graduating their students getting more grants, etc.
- 00:28:26So we're really excited to be leveraging leveraging these tools for this part of the tier.
- 00:28:33If we step up into tier two we're looking at providing a curated knowledge base and this curated knowledge base is again really about providing.
- 00:28:41as much information as possible to the community of users who are accessing these systems.
- 00:28:46And what we'll be looking at there is making sure that we're providing resources and information to the communities, so that they can answer any questions that they may have on their own, they can seek out.
- 00:28:58Information about what what is possible for them to be able to do and some will be leveraging existing resources and community in the Community and.
- 00:29:08we'll be looking to our Community, to help us identify gaps, so that we can provide additional resources and a lot of that.
- 00:29:16will come from engagement with the Community which we'll talk about in a second if we move up to the third tier will be looking at.
- 00:29:23Providing short term engagements and so you can imagine a scenario where you have a researcher who has a short term project.
- 00:29:32An effort that needs to be completed, perhaps they need to port their workflow from a local machine to an access machine.
- 00:29:40And they can utilize students to help support that and so we'll be able to provide matchmaking and some supportive the students to enable the projects to continue to to move along.

- 00:29:52 And then the fourth tier This is where we'll be looking at helping provide matchmaking for console or consultants who.
- 00:30:01 may be needed by research projects to do sort of a longer term project request, so you might.
- 00:30:08 Imagine a scenario where a research project needs somebody to help optimize their code or help paralyzed their code and we can provide.
- 00:30:16 Some support to help match make people in the Community that can provide that effort for them so that the researchers can write that into their grants.
- 00:30:26 I want to stress that this probably looks the closest to a CSS as was their matches not intending to support you CSS, but this is.
- 00:30:35 An amazing opportunity that we present to perhaps help that community to move forward and what we're really excited about here is to really strengthen the Community and get.
- 00:30:47 engagement from the Community to help with our efforts, and you know, particularly well with all the tears that you see here we'll be looking for that that helps in the Community, and we all know that we are.
- 00:31:00 You know we're a great community that volunteers, a lot and that's amazing but we wanted to make sure that we're providing financial incentives to the Community to help with match activities and so we've.
- 00:31:10 had the opportunity to write into our our grant the ability to provide grants to the Community to help with some of these efforts, such as resourcing.
- 00:31:21 Information and tools and the knowledge base so we're really excited to be a part of access and really excited to engage with the Community and we're really happy to get input and feedback from the Community as well.
- 00:31:36 So thank you.



• Tom Gulbransen CISE/OAC

00:31:39 Thank you shelly.

- 00:31:41 Can we have the next slide for me sure who will describe the operation integration team.



• Amy Schuele

00:31:49 Thank you, Tom so hi i'm amy shovel and i'm the associate director of integrated cyber infrastructure at the national Center for supercomputing applications.

- 00:31:58 at the University of Illinois urbana champaign and I am thrilled today to talk to you about connect, which is the core national ecosystem for cyber infrastructure also called track three for the access awards.

• 00:32:12 And we bring together five different institutions, so we have the national Center for supercomputing applications, the University of Chicago with argonne national lab.

- 00:32:24 The indiana university Pittsburgh supercomputing Center Florida international university and San Diego supercomputing Center.

• 00:32:34 So we're bringing together professionals from all of those institutions to do exactly what connect says we are connecting this national cyber infrastructure, these systems and services.

- 00:32:46 Through an integrated operational framework in order to really facilitate all of the research that the Community is trying to accomplish.
- 00:32:56 And we're doing this through as you see there's four different areas and connect and the first one is listed here as step and that's the student engagement Program.
- 00:33:08 And this is where we're working on, is what Tom talked about earlier really trying to build this workforce and we're trying to create these cyber infrastructure professionals.
- 00:33:18 That we need in order to be able to meet all of your needs as we move forward.
- 00:33:24 So that's a program that starts with a large number of students and then eventually as it works its way through that's the name step.
- 00:33:32 We end up with a handful of students that are really actively engaged in cyber infrastructure and we will reach out to you as the Community, so that we can have mentors and we can facilitate all of these students moving through this project.
- 00:33:49 Then we have our operational support team, and we are focusing on a seamless transition celebrating all of the great work that was done in exceed.
- 00:33:59 And also enabling all of those resource providers the resource providers are key stakeholder here, enabling them to join the access ecosystem.
- 00:34:11 And to do this, we have some really innovative integration roadmaps that you can think of is like a mini that resource resource providers will step through.
- 00:34:22 step through all the different tracks that you're hearing about today, and then also what is it that they need to do to be fully integrated into the access ecosystem.
- 00:34:32 And this will we're starting with those the applicable by exceed but then we will be moving into some of these innovative resource and including the cloud that Tom talked about earlier.
- 00:34:46 And there might be times that a resource provider might struggle with these roadmaps other we're trying to make them very clear there could be times that their struggles and we do have a concierge.
- 00:34:57 Integration expert team that will help with those when they might reach some of these roadblocks.
- 00:35:04 Okay, then we have our data and networking and we're really looking forward to ensuring that researchers need can move their data as they need to from site to site.
- 00:35:16 And through that we're offering connect net we're offering data transfer tools, some of those you might see some changes in future years of connect we'll be in touch with you as we're working through that.
- 00:35:27 And then, some of our services like DNS and Community engagement this we also are engaging with the monitoring network monitoring and measurement team.
- 00:35:38 To look at what the data and networking metrics might be so we can analyze those and improve our services as we move forward.
- 00:35:47 And finally, cyber security everything needs to be robust and secure so to do that, we do have the cyber security, governance Council that we're running out of connect.
- 00:35:59 And then we're also obviously using the tools and then we're really embracing federated intelligence sharing.
- 00:36:06 We know that those that are trying to access our systems that shouldn't have access they're working together.
- 00:36:13 So we want to make sure that the cybersecurity professionals in the entire ecosystem are also working together so that we can stay ahead of the curve there.

- 00:36:23 And then finally we're offering identity and access management, we need to make sure that everybody can have a smooth one stop shop for how it is that they access all of these services provided by access.
- 00:36:36 And one thing that I didn't talk about here, but we do have a diversity equity and inclusion staff member to ensure that not only just in step, but through all of this we are engaging in as an inclusive manner, as we possibly can.
- 00:36:54 And the focus of this we're focusing on this seamless transition from exceed, but we also want to ensure that we're broadening the communities that we're really reaching out to all of you, and offering these services, however, is needed, so thank you.



• Tom Gulbransen CISE/OAC

00:37:12 Thank you amy the next slide will be, for example, lani to describe the measurement track for.



• Tom Furlani

00:37:20 Okay, thanks Tom thanks everybody excited to be here i'm track for I didn't think of a fancy acronyms so sorry about that stuck with the title of solicitation kind of boring but anyway, in addition to myself i'm at roswell Park, courtesy of.

- 00:37:36 University buffalo but additionally the team from buffalo we have a body Patrick from tufts and we've got a.
- 00:37:42 bunch of other collaborators from universities, we have case Western indiana attack and SDS see, so we have a good team and happy to have them participate.
- 00:37:51 we're the incumbent provider to this for exceed, and so my first moto is first principle is do no harm.
- 00:37:57 xd mads been out there for a while and people are familiar with, that we want to make sure we continue along that tradition and continue to add to its capability and so.
- 00:38:07 In addition to X the metal draw a distinction here there's access xd mad, which is going to my monitor and measure the performance and services provided through the access resources, but then.
- 00:38:19 there's a broader impact to there's open xd mad which i'm summer you're familiar with, which runs at HP centers, including the University of buffalo and provides the same.
- 00:38:29 level of monitoring and measurement services that we offer X access but it provides it on the local resource so that's an.
- 00:38:35 kind of an important distinction and we've been out there for a while and again we're going to continue to develop it whatever we develop an sd mad for the access solicitation we typically developing an open xt might as well.
- 00:38:48 As much as I like the xd mad portal I think it's pretty good, and you can do a lot of analysis, you can look at job level performance, you can look at application level performance.
- 00:38:58 We realized, there is a broader Community out there that we'd like to do their own ad hoc analyses not not you know tethered by the.
- 00:39:06 capability, we provide it in the portal, so one of the things we're going to develop.
- 00:39:10 As part of this process project is an open framework for people to be a little bit more creative to do ad hoc analysis.

- 00:39:17it'll be built on Jupiter notebooks have the capability to incorporate Python for analysis or any other type of analyses you'd like to do.
- 00:39:26we've already have a beta beta release of that beta version of that now to release I should say.
- 00:39:32will probably pretty soon invite some early adapters to test it out, but we're excited about that because we're going to.
- 00:39:39open up access to the rich data repository that's available and in exceed and it will be available and access.
- 00:39:46As well as the rich rich repository of job level information and usage, that you have available to your own resource so again.
- 00:39:52it'll be on top of xd mad but it won't tether you to the particular interface, and the analytic tools that we have available next demand, if you look at the figure on the right.
- 00:40:03nsf funds.
- 00:40:07Strong portfolio of capability capacity class cyber infrastructure novel and innovative as time and money, she mentioned before.
- 00:40:16But if you it's a it's a relative it's important obviously but there's a lot of other.
- 00:40:22Infrastructure out there, supporting research in the country, and we really don't have a global view of that, so if an nsf wants to fund a new a new.
- 00:40:31system, it would be useful information to say, well, how will that impact the research that's going on across the country Given all these other resources that are available for for us, and so we want to have a.
- 00:40:43better picture of the national ci ecosystem, so, in addition to the view you get from access xd mad we're going to aggregate and provide through open xd mad.
- 00:40:53Information on nsf funded public cloud usage if that's a growing and important ci resource campus ci we run it at the University of buffalo I know my they have many other centers.
- 00:41:06If you're willing we'd like to aggregate that data provide a bigger global picture and then I think it's part of the solicitation for CC star awardees on the compute side that they need to provide.
- 00:41:17utilization and metrics and so again we're going to aggregate all this and i'm very pleased to say network has been one of the things that we've left out.
- 00:41:25In the past network traffic knowledge now with Jennifer show and indiana will leverage on that stage and there so again the whole idea behind this is to kind of provide a global.
- 00:41:36picture of the national ci ecosystem, so can help inform decisions that the nsf wants to make about where's the best to to invest their dollars.
- 00:41:45In terms of would it be public cloud resources would it be would it be a new novel in architecture and so again, this is going to go to help to inform that picture.
- 00:41:57One of the things we've been doing over the years is workload analyses for various systems we've done it for blue waters we've done it for the exceed portfolio of hbc systems.
- 00:42:07But we've also done it at our own Center it's useful information we'd like to know what are the applications that are running on them what sort of memory requirements do they have.
- 00:42:17What is their cpu utilization those sorts of things we'd like to make that easier for people a lighter weight approach kind of press the button get a workload analysis for your particular resource.

- 00:42:26 And also continue to provide those types of resources for those types of analyses for the National Science Foundation they're always interested in.
- 00:42:34 What are unmet needs out there and what resources would help us meet those on that needs so we've used that as an important thing to do, we'd like to make it easier for people to do that.
- 00:42:42 i've already talked a little bit about next age and the fact we'd like to be able to monitor network traffic and how well traffic and how well we're doing across the US or.
- 00:42:51 within a given resource at leveraging the network facilities that are available to us.
- 00:42:57 If you're a user of sd mad or open xd mad you know we for a long time we've had the ability to do job level performance.
- 00:43:06 metrics application level performance metrics and they can be used by systems personnel, they can be used by.
- 00:43:13 developers that can be used by the actual end user, to try to improve their throughput improve their their utilization of the resource and we've added capability in that we can give you a.
- 00:43:23 global view now and we're going to continue to refine that for particular resource a global view of how well.
- 00:43:31 The job efficiency for the jobs that are running on there, and you can kind of pinpoint particular jobs that might be from a particular group that are running very efficient.
- 00:43:39 Work with that particular group, and so it just gives you more window into the into the resource that you're providing for the Faculty to do the research.
- 00:43:48 we've also interested in a ci simulator, and this is kind of a REACH, but we have a lot of data that we've gathered over the years in terms of what jobs are running the number what jobs are running.
- 00:43:59 And the systems, how many cpu use they're using what is the performance of these various applications, and it would be nice to be able to predict after you add a new resource.
- 00:44:10 What will be the impact and the user throughput or the research community, and so we think through machine learning and Ai we can develop a simulator.
- 00:44:19 And that would be able to predict some of some of those things, for example, the National Science Foundation might say.
- 00:44:25 We have limited resources should we provide more funding for for public cloud usage, should we provide to smaller class systems, or should we provide.
- 00:44:34 more of a capability class system and and the simulator we hope can help them answer questions like questions like that, and then the last last thing i'll talk about is.
- 00:44:45 We want to look at application and be able to measure the energy usage of a particular application on different resources, you know some of the resources you deploy.
- 00:44:54 are designed to be low energy novel resources and so Leonard low energy consumption, but if the application takes longer to run on a particular resource then you're really not gaining.
- 00:45:05 In terms of the energy and the overall utilization that resource so we'd like to be able to understand, first of all, better.
- 00:45:12 What the energy usage is of the entire resource, but on an application level, and then you can work with that information, you can have the developers and the.
- 00:45:20 engineers try to optimize the performance given on that particular naval architecture so anyway, a long winded way of saying that.

- 00:45:29we're happy to be part of this we're going to take the best parts of open xd mad and sad mad to continue to develop them and then we've got some novel ideas to carry us into the future.



• Tom Gulbransen CISE/OAC

00:45:40anytime and some of those pilots will be coming to fruition, over a period of time.



• Tom Furlani

00:45:47yeah we're looking at.



• Tom Gulbransen CISE/OAC

00:45:48A couple of years, thank you, so the next slide will be two towns, and we will speak about the.

- 00:45:56common interests across in the coordination narrow down, please.



• John Towns

00:46:02Everybody john towns at ncc at the University of Illinois.

- 00:46:08So the open ci project is for the access Coordination Office, this is a bit different character than the for service tracks that you just heard from and, in fact, a considerable amount of our work will be more behind the scenes in coordinating the activities of the overall program so.

- 00:46:25Fundamentally, one of our major roles is to facilitate governance through an Executive Council and.

- 00:46:33The external advisory board.

- 00:46:36To be clear, the open ci staff are not to be directly involved in the governance and management, but we are facilitating that.

- 00:46:44and supporting nsf in a variety of ways and overall oversight of the of the Program.

- 00:46:50So in support of coordinating the activities amongst the service tracks, we will be establishing and collaboration portal.

- 00:46:58To support inner track communications, how we deal with change control how we manage risks at the program level things along those lines we're also in the process of developing coordinated branding while we want to make sure that the.

- 00:47:16independent service tracks have their identity, maintain we want some similar look and feel so that as the Community engages that.

- 00:47:24program and the various parts of it doesn't feel disjointed to them so that's something we're actively working on at this point in time.

- 00:47:32We also have some activities that interface with the Community, namely coordinating outreach the Ai and evaluation efforts across the Program.

- 00:47:44 Although many of these things are not the things that the Coordination Office will lead, we will work to coordinate the efforts of the service tracks into a coordinated set of efforts that that work more coherently than then perhaps they might otherwise.
- 00:48:00 we'll also coordinate on communications to the Community so that's another area in which will directly interface with the Community largely.
- 00:48:09 amplifying things that are coming from the various service tracks, but also again trying to provide a coherent set of communications coming from the program as a whole to the Community and and maintaining that coherence over time.
- 00:48:24 we've also gotten agreements, so it will be coordinating the evaluation efforts in such a program and we will have these external advisory board we've also got agreement with a set of.
- 00:48:38 Individuals running other large programs that have similarities to what we're doing to act as informal advisors to to the Coordination Office to the open ci.
- 00:48:49 So we look forward to engaging with those leaders to help guide how we move things forward.
- 00:48:56 You can see that the TEAM members are the leads myself and to monitor it, do you see shawn sandy at ucsd and laws and stuff no at Georgia tech.
- 00:49:04 We of course have a number of others, but this is a relatively speaking, small award so we'll be doing, as I said before, many of our things that are behind the scenes and helping to try and.
- 00:49:16 present a coordinated set of activities to the Community.
- 00:49:21 We also have a lot of knowledge of what has been going on with exceed so we expect that that will help facilitate a smooth transition many folks in the Community are concerned about things, some of the questions that are coming up in the Q amp a channel are related to that.
- 00:49:37 So we were looking to help smooth that transition as much as possible, so, in the interest of trying to get a little closer back on time, Tom i'm going to turn it back to you.



• Tom Gulbransen CISE/OAC

00:49:50 Thank you very much john.

- 00:49:52 For the final slide of the.
- 00:49:56 introductory part is back to the tracks to just reiterate some of the places where we look forward to engaging and inviting research community participation, the ramps program is looking for.
- 00:50:13 volunteers, of course, to review some of those read allocation requests that some of the explore and discover requests are going to be addressed on a rolling basis so it's.
- 00:50:25 it's good to have a standing any stock approach that can help out with that response in this likewise the ramps team at the at the on ramps which we will be.
- 00:50:35 Placing or allowing campuses to incorporate that into their operations, we like look forward to your feedback with that the match team has plenty of shelley was pointing out the Advisory Board for her team.
- 00:50:50 The training the trainer which will be advocates and cyber infrastructure professionals that's it's a real given take, and we look forward to so much of the collaboration that has been.
- 00:51:02 set up to help out with that tier and then also there's a match team will be relying on ontology of tagging such that we can characterize requests for assistance and characterize and skills and specialties in order to accommodate that matchmaking so that would be interesting.

- 00:51:27semantic exercise that is already been drafted and we'll be looking to refine it and expand it.
- 00:51:34And then likewise.
- 00:51:35Only put on the monitoring and measurement they're open actually my will, the welcome to the place in more water services and then as those.
- 00:51:45optimizer the algorithm optimizing applications and energy usage applications come the pilots come forward to be great to get feedback there as quickly as possible.
- 00:51:56And then I the largest scale the john points out the federal Advisory Board will be panel going sort of a matrix approach there to try to balance out the different disciplines represented different scales and region and such so there's a real mix We look forward to.
- 00:52:15hearing from folks and inviting your participation so with that.
- 00:52:21I want to just.
- 00:52:23Go to the next slide where we'll have our contact information and we can begin to respond to entries that are in the Q amp a.
- 00:52:33session, I know, there was a question earlier about the tier three allocations and the crossover to support has that been answered shelling we want to revisit that.



• Unknown Speaker
00:52:46I am actually.



• Shelley Knuth
00:52:49question in the Q amp a I think i'm caught up.



• Tom Gulbransen CISE/OAC
00:52:54Thank.

- 00:52:57You I like.
- 00:53:00That we want to make.



• Alejandro Suarez
00:53:04Sure, Tom we have a bit of thought on your on your MIC or maybe it's just from my end but yes we're we have several questions that have been.

- 00:53:15already responded to so attendees please take a look at the Q amp a tab if you're curious about other questions that have been asked and and already responded Tom I believe you may have noted, one that you wish to answer, which was.
- 00:53:33Someone had asked if these slides will be made available either to members of the access team or or, more generally.



• Tom Gulbransen CISE/OAC
00:53:41it's like.

- 00:53:44today.
- 00:53:45We have a recording of the session
- 00:53:48And we will place.
- 00:53:54The.
- 00:53:56brand.



• Alejandro Suarez

00:54:03So we're I don't know why suddenly we had a bit of we're getting some feedback on your MIC Tom.



• Tom Gulbransen CISE/OAC

00:54:08or um.



• Alejandro Suarez

00:54:09But we do have a I think we heard that, if there are questions specific to some of the slides or any more information that folks can contact you at your contact information, we also had some folks had commented that some of the.

- 00:54:28questions you may not be able to see if you go into the Q amp a tab you may need to see specifically answered questions, but just to make sure that everyone is able to.
- 00:54:42see some of the answers we can we can go through some of those as well if if folks still have issues seeing the Q amp a tab.
- 00:54:53We do have.
- 00:54:57Just going down the list another question has come in asking While this may be too early.
- 00:55:04Are any gaps already identified between the four or five groups, for example, is there a particular tasks that it is not yet clear where it would fit and I saw a comment I don't know if Tom you wish to answer that or you wish to have one of the guys answer this.



• Tom Gulbransen CISE/OAC

00:55:23You can hear me okay.

- 00:55:25Yes.



• Alejandro Suarez

00:55:28Your little your.

- 00:55:30Your microphones seems to be a little bit.



• John Towns

00:55:34I was gonna take that one.



• Tom Gulbransen CISE/OAC

00:55:37yeah.

• 00:55:39Right.



• Alejandro Suarez

00:55:39Yes, okay.

• 00:55:40Go ahead john.



• John Towns

00:55:41So that's actually a an activity that the the interim Executive Council is engaged in currently.

- 00:55:49As the as the awardees are now known and their plans are shared with one another we're going through a detailed process to to do two things one is to I well three things, maybe.
- 00:56:02identify those elements of exceed that we want to continue into access and make sure that there are detailed transition plans in place in order to get us get that transition done.
- 00:56:13Ahead of the September one switch over to access the second is that a few weeks back all of the projects got together on a fairly massive.
- 00:56:25web discussion and we presented the projects to one another, so we understood what one another's plans are at least at some level, this was followed with a hybrid meeting many of us in person, in which we were working through a lot of the details and we're in the process now of identifying.
- 00:56:45What the interdependencies are between the service tracks and then from that where are there gaps of things that we see not being supported going forward.
- 00:56:55This is a as you might imagine me a non trivial exercise to go through so we're we've been working through this we've made some progress we're also as part of this.
- 00:57:05Developing a schedule of milestones across all of the service tracks in order for us all to get to a production state.
- 00:57:13by September one, so we don't have a specific list of gaps quite yet, but we're we're working towards that, and I think in the in the coming weeks will be identifying those.
- 00:57:24And and working.
- 00:57:25Amongst the service tracks and within itself to address address any of those gaps that we feel need to be filled before we get to September one.



• Tom Gulbransen CISE/OAC

00:57:39Some of the gaps are being naughty that.

- 00:57:43doesn't mean that they're not to be fulfilled that we'd have to determine the best.
- 00:57:51away from something just doing that cross tracking compilation of.
- 00:57:57The next two months will.

- 00:58:00counsel them.
- 00:58:03To fill it in the last.



• Alejandro Suarez

00:58:09question you just.

- 00:58:12We have another.
- 00:58:13question that is asking that all this all quite interesting and exciting.
- 00:58:20Many possibilities for nimbleness and flexibility inclusion as an end user, I go to exceed portal and submit a proposal for compute time and get my work done right papers grants and repeat next year.
- 00:58:30Where will I do that in the future, and how would I do it, even if it's just a rough guide and I see I see Dave had noted interest in answering this one unless Tom you had a comment.



• Tom Gulbransen CISE/OAC

00:58:45Like Oh well.

- 00:58:50Around is.
- 00:58:53Nothing.



• Dave Hart

00:59:00Sure, a brief answer is that in, in short, more or less that same process will exist for you in the future.

- 00:59:10ask for compute time get some work done right paper repeat.
- 00:59:14we're working on the fine details of our policies and procedures and we'll have those ready soon, I think the whole access team is working now actively to answer your question about Where will that happen.
- 00:59:28we're coordinating on that actively as Tom noted we're six weeks in we're still working out some of those details as well and.
- 00:59:34But I think the goal across access and john or shelly can correct me is.
- 00:59:39Around August beginning of August we plan to have our initial information out to start answering some detailed questions like these about where to go and how things will happen so bear with us, but it's it's in the works.



• Shelley Knuth

00:59:52yeah I can.

- 00:59:53I think that's a great answer David and I can add to that, I think that.
- 00:59:59Because i've gotten this question already so you know, there will be opportunities for the.

- 01:00:06The Community to engage with access and in a way that they could similarly to how they were submitting questions for exceed we are actively working out what that means that how that a look.

- 01:00:21But as Dave said bear with us and we're, you know as we march closer to the September one deadline will start to have more of that information available to help you figure out how to do that.



- Alejandro Suarez

01:00:35Thank you Dave Thank you shelley The next question that we have is asking where will what is currently referred to as the campus champions program Where will that fit in in the access Program.



- Shelley Knuth

01:00:54um yes, I can take that the campus champions are an amazing Community that's been really active and.

- 01:01:04i'm a campus champion i'm I was on the leadership team, I think the champions program is great.

- 01:01:11match has been engaging with the campus champions leadership team to figure out what the next steps are and again, while some of the details on that remain to be worked out, I think that the.

- 01:01:25Leadership team has been trying to sort out what it is that they would really need from access and we'll take a look at what it is that we might be able to provide within the scope of.

- 01:01:35Possible and.

- 01:01:39But I don't anticipate the champions disappearing, I think that they'll become part of the Community network, and you know, I think that some of the changes that will happen with the campus champions themselves will.

- 01:01:52be decided internally to the champions team, but know that there are mechanisms in place for the access team, particularly retract to to support some of the efforts that.

- 01:02:06The exceed staff of have been undertaking for the champions in the past, and so we have.

- 01:02:16opportunities to support things like the mailing lists and whatnot and we're continuing with.

- 01:02:23Subsidies for conferences, through our financial incentive ization program so and that will just be for the campus champions, that will be Community wide.

- 01:02:32But I think that you know the champions, as you know it, I can't speak for them and the leadership team and exactly what their plans are but know that access is here to support.

- 01:02:43As we can their process.



- Alejandro Suarez

01:02:48Thank you shelley us since there were some comments from folks that were not able to see some of the answered questions we just wanted to go through summarize some of these.

- 01:02:59to hand it over to some of our other tracks, I know, there was one Tom for Iani for your Group, asking that they were excited about the energy use pilot.
- 01:03:09Would you like to just quickly reiterate the answer about how you if you're envisioning that users will be able to get a per job view of the energy use, so that it can compare different run conditions or if it's something that's targeted more at service providers themselves.



• Tom Furlani

01:03:25know that will your.

- 01:03:27kind of whatever we deploy on the further resource providers, we deploy to open the mad so.
- 01:03:34Yes, the intent is that you'd be able to provide that measure that at your own institution with a caveat that you have to make sure that your.
- 01:03:42servers are capable of collecting that data and so that would be the only caveat but we intend to whatever we develop we intend to be able to deploy at at centers academic centers as well as the national resource providers.



• Alejandro Suarez

01:04:00Thank you, Tom and going back to match earlier, there was a question about whether, if they have if someone has a research allocation.

- 01:04:10Would they have access to the tier three support or match plus as it was referred to, or will access to tier three your teeth tier four match support require a merit based proposal.



• Shelley Knuth

01:04:23yeah the answer I provided was our intention and match to provide support to our communities, so I wouldn't say that.

- 01:04:29Support is limited to those who have research allocations, we are actively putting together the application process for the financial incentive ization program that I mentioned, so I wouldn't call it a merit based proposal.
- 01:04:40There will need to be an application process so that we can make sure that we are distributing our funds in the best way possible, and I hope this helps and if there's any follow up on that i'm more than happy to answer.



• Alejandro Suarez

01:04:52Thank you shelley.

- 01:04:55Going back to some of the live questions that have come in.
- 01:05:01I one, for I believe the ramps projects, what are the approximate cut offs and sizes for the various tiers and access allocations Dave I see you have to do wish to answer that one.



• Dave Hart

01:05:13 Sure, thanks, yes, that i'm going to again defer giving you a very specific answer and just say again, we are actively working out those numbers.

- 01:05:21 We do want to make sure we coordinate those with the resource providers, first I don't want to roll things out without engaging them first I.
- 01:05:30 Think it's safe to say, though, that we anticipate them to be slightly larger than you're used to at the startup level so that when.
- 01:05:37 there'll be opportunities to get more resources with slightly less effort than you do at the at the extract level today, but again look look look for more information around the beginning of August, we will have had some of these details nailed down thanks.



• Alejandro Suarez

01:05:53 Thank you Dave I believe there were a few follow up questions regarding the match allocations, but it sounds like they may be reaching out specifically to you Shelley on follow up for more details on that.

- 01:06:12 i'm looking to see if there any other questions that we may have missed or that may have been answered that we wish to.



• Shelley Knuth

01:06:20 I'm.

- 01:06:22 sorry to interrupt you, there was one.
- 01:06:24 There was one that came in earlier that was from from an anonymous attendee that.
- 01:06:31 said, our issue specifically is that we're pivoting our code from traditional cpu clusters cpu gpu nodes we have allocations at anvil and delta still waiting for Delta.
- 01:06:42 But I feel that we still don't know how to properly utilize and request time on the gpu nodes.
- 01:06:47 And so I want to share this response in case anybody else's facing a similar type of issue and I what I said was.
- 01:06:54 to better understand how to utilize and request times on the gpu nodes i'm certain that you would receive some great support from the individual resource provider so submitting a ticket to them now should work well.
- 01:07:04 If you need support and pivoting your code it's possible that we might fit that with one within one of our tears, we need to have more information on that.
- 01:07:12 And once we are ready to roll out our support models and how you can engage will be ready to more effectively answer that specific question and, if I can sort of add on.
- 01:07:22 Our Community instead of ization program, I suspect, I hope, will be quite popular.
- 01:07:27 And it's important to the match team to make sure that we're moving forward on that, despite the very many, many things that we are moving forward at the moment, so know that that that more information about that will be coming.
- 01:07:42 As we march along in the in the months forward so.
- 01:07:49 Definitely know that will will provide more info on that and how you can all engage.



•

Alejandro Suarez

01:07:55 Thank you very much Shelley.

- 01:07:57 We have another question that has come in, which has asked will anything change in the proposal process for access specifically are we staying with quarterly proposal submissions.
- 01:08:09 And the possibility to do supplemental proposals anytime and I see Shawn you wish to answer this one.



Shawn Brown (PSC, he/him/his)

01:08:14 yeah sure there will be significant changes from the the current extract proposal process for the.

- 01:08:21 The first tier of allocation, there will be no proposals basically just qualified account will get you a small amount of access credits to try to try computing things insights on any of the resources available through access the second tier will require a very brief.
- 01:08:40 submission probably a couple paragraphs explaining what you want to do in the science that you want to do the third tier will actually be a three page proposal.
- 01:08:50 That will focus on the science that you want to do, and it will be reviewed by an asynchronous panel so though all three of those tiers can be submitted at any will be able to be submitted in anytime through the year and be.
- 01:09:03 awarded anytime through the year and then the fourth tier will that one will be very much like.
- 01:09:09 What we currently have in that and and exceed with the X rack where it'll be a 10 page proposal.
- 01:09:15 That will then be reviewed by a panel, which is the people that are asking for extremes extreme amounts of computing resources, so it will be very different hopefully it'll be much easier.
- 01:09:27 We will be doing the set, we will be reviewing and awarding this the last year, the that we're calling maximize at this point.
- 01:09:34 And that will be on a bi annual basis, twice a year, I don't remember it's by any or by any sorry.
- 01:09:42 Does that answer the question.



Dave Hart

01:09:45 Yes, my name is Dave I wanted to add Tom asked me to clarify a couple things about the transition schedule the last exceed allocation meeting will be held in August for annual allocations that will start October 1 and access will be honoring all allocations that are set up under exceed.

- 01:10:03 To maintain a transition to make sure we don't drop the ball, we will hold a December meeting the same cycle as as exceed with submissions.
- 01:10:13 accepted between September and October 15 for allocations to begin January 1 we will start the first of these a biennial or semi annual I guess our communities with the march 2023 Arc meeting and then we'll be on our semiannual schedule at that point.
- 01:10:35 Thanks.



• John Towns

01:10:37I also wanted to.

- 01:10:41clarify one of the responses that shelley gave earlier, I think, mark gagne about support for gpu codes.
- 01:10:49Mark you should know that.
- 01:10:51You can make a request still have exceed to get some of that support up to the end of the operational period of exceed.
- 01:10:59I can't guarantee that we have staff available i'd have we'd have to ask the CSS group, whether they have that but it's certainly worth asking, we can do some short project with you, potentially, to support the transition that you're trying to do with your code there.



• Alejandro Suarez

01:11:18Thank you john.

- 01:11:20There is a another follow up question with regards to match asking if they wanted to clarify whether financial support is available for folks who need to for support.
- 01:11:33Such as many folks in fields like humanities our social science may not have support for this type of technical support their grants don't provide for it there's somehow that they can access to your four if they can't bring their own money.



• Shelley Knuth

01:11:45yeah I think that's a really great question, we are not funded to provide that level of support, so what the mechanism that we've put in place to try and help those that were heavily engaged with the CSS is to provide again that matchmaking effort to help people.

- 01:12:04Who will need in embedded consultants to find them and, hopefully, that would help with their proposal writing process and including them.
- 01:12:17In that I, and I don't want to speak for nsf, particularly when they're on the call, but what I have heard, is that there are potentially other mechanisms for providing that support to look into and i'm going to stop there, and let someone else chime in if they like so.



• Tom Gulbransen CISE/OAC

01:12:40We want to hear about all.



• Unknown Speaker

01:12:46Their.



• Tom Gulbransen CISE/OAC

01:12:47Long term and.

- 01:12:50Just recording.



Shelley Knuth

01:12:56Tom we're having a really hard time hearing you here something's going on with your microphone.



Shawn Brown (PSC, he/him/his)

01:13:00On pause let anybody else follow up with what shelly said but I add an extra thing that I realized I didn't answer in the.

- 01:13:07previous question.



Manish Parashar

01:13:11I may add to what Tom and maybe what Tom was trying to say is that there are other opportunities to get.

- 01:13:19Resources at the campus level at the regional level that can provide that expertise that can then interface with the match Program.
- 01:13:28For example, one opportunity that was just close and they'll be follow on to that is the cyber training solicitation where you can get on campus cyber professionals funded by nsf.
- 01:13:41right for five years, which can provide that expertise at the campus level at the regional level, but also interface and connect with the national that we're leveraging the mat service, rather than just one example.



Alejandro Suarez

01:13:58Thank you.



Shelley Knuth

01:14:01If I can add to that, I think that we're all.

- 01:14:03really interested in hearing you know any pain points that you might have in those areas so make sure that you're servicing them, so we we know about them.



Alejandro Suarez

01:14:16All right, Sean you had another point you wanted to make movies.



Shawn Brown (PSC, he/him/his)

01:14:18yeah I realized that the the previous questioner asked about supplementals and I didn't mention that so.

- 01:14:25 Actually supplementals are really little they're part of the process, so with the first three tiers basically what you do is we give you a fixed amount of access credits.
- 01:14:35 To us, on the the the resources and when you are finished using those you can basically send you'll be able to be able to send to us a progress report, like.
- 01:14:46 It won't be a very long lengthy progress report, but it will be, did you publish any papers, what did you do with the time and then that will release the next tranche within that tier of.
- 01:14:56 have access credit so basically you basically an automatic supplement told top up.
- 01:15:03 Every every year for the the current level that you're in if you need more than that, then, then that then in a year, then you'll move up to the next level, so there are the supplements are not only encouraged they're part of the process now.



• Alejandro Suarez
01:15:19 Thank you.



• Shawn Brown (PSC, he/him/his)
01:15:20 Sean.



• Alejandro Suarez
01:15:21 I see another question has come in asking that there was a reference to Funk X and maybe Pegasus as part of ci research workflows will there be a future list of workflow tools that resources resource providers would need to support, I see Dave you'd like to take that question.



• Dave Hart
01:15:39 I'll take the first crack at it i'm sure shelly will probably want to follow up, but I think it's a great question and it's a really interesting place where.

- 01:15:46 I think potentially all the tracks are going to have to be engaged to answer down the road.
- 01:15:50 For our part, and track one and ramps we're not really planning to look at the innovative pilots until after September 1 in the interest of making sure we do a smooth transition with existing infrastructure.
- 01:16:01 But yes Funk X was a partner on on track, one on our own or innovative pilots about workflows.
- 01:16:07 track to engage Pegasus to involve workflows through their support, as you know, it'll involve track three because it has to engage the resource providers and i'm sure Tom fulanis wondering how we incorporate workflows into xd MOD reporting so.
- 01:16:24 Probably yes, is the answer to your question about the workflow tools will be supported, but I think right now it's going to be an interesting question on how we answer that question it'll be an interesting cross track collaboration to give you that final answer down the road.



• Alejandro Suarez

01:16:41 Thank you Dave any anyone else who wishes to add to that on the workflow question.



• Amy Schuele

01:16:46 Yes, i'd like to add a little bit that we will have some people facing information sharing and track three so that you'll be able to do some searching to find out where these components of your workflow might exist on the different resource providers.



• Alejandro Suarez

01:17:06 Thank you amy.

• 01:17:09 There another question came in asking if the slides are recording will be available for this and Tom posted an answer in texts, but I just wanted to reiterate that the slides and recording will be available at the nsf event web page for this event.

• 01:17:26 And if you have any questions about the slides prior to when they come up at maybe a couple of weeks before they are posted there you can reach out to tom's email address as listed in the slide.

• 01:17:49 Checking now to see if there any further questions.

• 01:17:59 By may have missed any questions that have come in so far that someone wishes to answer.

• 01:18:05 Well, someone also asked where the questions and answers be available in addition to the slides that's one reason why we're going to we're going through the slides verbally, the question and answer verbally here is the Q amp a session will be part of the recording as well.

• 01:18:21 As our quick.

• 01:18:22 Go ahead shelly.



• Shelley Knuth

01:18:24 Oh, I just wanted to know if it's possible to chime in with something and it just to say to the Community that.

• 01:18:30 You know the and I i'm speaking for match but i'm pretty sure i'm speaking for other tracks as well that you know we're really interested to hear what what's working for you and what isn't and getting that feedback, so we can you know figure out how to best.

• 01:18:46 move forward so make sure that you're providing that input to us so that we understand, as I said earlier, any pain points that may arise and and how we can figure out how to make this the best experience for you all, as we can.



• Alejandro Suarez

01:19:04 Thank you shelly.

- 01:19:10Checking it I know Sean you brought up the supplements someone had asked if they're only on an annual basis.



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Shawn Brown (PSC, he/him/his)

01:19:17They you can stay up okay that does sound complicated but it's not let's say you get us the second tier of allocation the discovery allocation.

- 01:19:28And, and you use all that time within within a year, you can then ask for another tranche of the discovery allocation, without having to write a new proposal.
- 01:19:39If you need more than one of those supplements per year, then you'll have to go to the next tier of allocation So yes, it will be basically on it, but, but if you don't need it more than two of those in a year, then you can still stay in the discovery tier as you go along.



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Alejandro Suarez

01:19:59Thank you Sean.

- 01:20:03Also regarding allocations there's the question asking will there be a way to renew a current long running multi year seed allocation into an access allocation, or do you have to make a brand new proposal Dave do you want to take that.



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Dave Hart

01:20:17sort of that one's actually easy yes you'll be able to continue your exceed allocations if you're at that the large scale tier.

- 01:20:24it'll look very similar you'll make a proposal each year to continue at that level so at the lower level tiers there's still some details to be ironed out, but for the most part you'll be able to renew your existing projects, yes.



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Alejandro Suarez

01:20:40Thank you Dave and also with given shelley's comments there's a question asking what is the best way for users to provide feedback.

- 01:20:51That may have several answers actually.



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Unknown Speaker

01:20:53yeah.



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Shelley Knuth

01:20:55i'll Oh, I see Tom i'm muted, let me allow you to say something.



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Tom Gulbransen CISE/OAC

01:21:00 You can you hear me, I would say that those email addresses and start.



• Alejandro Suarez

01:21:05 coming in, loud and clear now Tom.



• Tom Gulbransen CISE/OAC

01:21:08 How ironic, is that.



• Shelley Knuth

01:21:11 yeah I would anticipate that will have a mechanism for the Community to be able to provide that that input once we get going, whether it's on our.

• 01:21:20 webpage or or it will exist somewhere that we will communicate out.



• Alejandro Suarez

01:21:30 Thank you shelley.

• 01:21:34 There any further questions at this time.

• 01:21:40 A moment and just our last couple minutes here.



• Shelley Knuth

01:21:48 I can add to I was just reminded that we do have for match, specifically, we have a feedback mechanism on our.

• 01:21:56 site a mp.ca I I wouldn't present us as access why I didn't want to preclude the other tracks from getting that feedback, but if there's information for match, we can take it in there right now.



• Alejandro Suarez

01:22:13 Thank you shelly.



• Tom Gulbransen CISE/OAC

01:22:15 i'll Thank you very much for picking up in such a great video voice should just keep on mute the whole time.

• 01:22:21 Thank you again to each other, the eyes and the eyes and D members.

• 01:22:26 For today super.

• 01:22:30 super effort to get the basic message out at this formative stage we've got a lot to do in short time to get it going but.

- 01:22:41I think these questions have been helpful in understanding the nature of some of the increase more have more sessions like this will be at Perkins July and.
- 01:22:53If there are additional forum type settings that anybody would like us to speak to you welcome to suggest those and we'd be glad to try to participate.
- 01:23:07My managed to.



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Manish Parashar

01:23:14Know Thank you Tom I again thank you just want to say thank you to the team really excited.

- 01:23:21and looking forward to working with you to.
- 01:23:25execute on this vision that we have collectively laid out here today, I want to take this opportunity to also.
- 01:23:31Thank exceed for just a tremendous job over the past decade right and for john's leadership over the years I think it's provide the right basis on which we can access can build on.
- 01:23:45and move things forward so thank you again to exceed to the entire team and to john.
- 01:23:53Finally, I think, just echoing what everybody said, I think this is going to be a process right, we want to make sure that we.
- 01:24:01build up these new ideas new innovations that are so apt for where we are where science is going, but at the same time, we want to make sure that things are stable and the disruptions.
- 01:24:14are minimized we maintain stability so if you have feedback, please reach out to these email addresses but also.
- 01:24:21You know, let us know at nsf if we can help right it's going to be a process and we need to work together to achieve this, so once again, congratulations to the p eyes and we are so excited to be working to do on this, thank you.



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Alejandro Suarez

01:24:36Thank you, thank you, Tom we did have a few final 11th hour questions come in which we can try to get through, unless you have some final closing comments time and we can follow up offline and.



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Tom Gulbransen CISE/OAC

01:24:47Go ahead.

- 01:24:49The recordings will be provided and slides.
- 01:24:55On that line, as we said.
- 01:24:58Was that was the other question.



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Alejandro Suarez

01:25:01 There was one that I believe amy just answered, but they were asking if exceed logins will be transferred to access logins through credentialed ci login ID at individual centers and I see amy.

- 01:25:15 You had noted that they're.
- 01:25:16 Actively identify or defining the identity and access management services for access as another area will have additional information on August 1.
- 01:25:25 Thank you for that amy and another question had asked what would be happening to the current exceed champion campus champion locations.
- 01:25:35 And I see Stephen Dean said answer that all seed allocations, including the campus champion allocations will be mapped to the new allocation tiers within the access ramps Program.
- 01:25:49 So now, now I think we're caught up.



• Tom Gulbransen CISE/OAC

01:25:52 Thank you Steven for chipping in there.

- 01:25:55 Alright, then that's a wrap again we'll welcome your input on an ongoing basis will have a web presence in coming months, and thank you so much for your time this afternoon.



• Alejandro Suarez

01:26:10 Thank you everyone.