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good luck deep alright. thank you. ed it's recording right now, we'll wait for a minute or so before we start

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I'll wait for a few seconds before

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Alright, I think i'll get started welcome everyone to this webinar.

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It's a mid-scale resource infrastructure for one.

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And this one is yard for the size primarily, although they are general information.

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Yes, we are helpful to

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I'm Dick Mary I'm the program director in the computer and network system.

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Director division in the direct along with me. My colleague, Ed Walker, is also on call, is a program director in the office of Advanced cyber infrastructure.

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He has also joined how we may have a couple of months click join in later on.

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So i'll get started with the presentation and I Want to mention 2 things the the webinar page where you register to attend webinar will have hic copy of this presentation.

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Soon as well as the recording of this present will be available in the next.

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We or so so. midskirts, research infrastructure actually is the foundation wise program.

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And this is the member, this these are the members of the working group at the foundation level.

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It is actually managed by primary, by office of integration activities.

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Ya brandy, Phelps is the lead, that one. and then you can see the name of different program managers who are on this working group as well as a member from Hops app score and office up in terms

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So I will. This is the overall outline of the presentation today, and I will go over Hps.

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First, I want to give you a very high level idea about you know, research infrastructure.

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What we have, and this is primarily from the perspective.

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The size, resource, infrastructure, And but there are a couple of pieces.

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We saw more foundation. like as you can see if you kind of look at what we have.

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We have project. Those are for individual or institutional level and those which are working.

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Okay, that's on the X-axis on the y-axis. it's based on the size from my show it from 1 million to 20 million plus range, as you can see at the lower left corner there are programs such as

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Cc start campus software infrastructure. Mri: part of it is more individual.

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Oriented track one csi and so on so that's what you can see.

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Some examples. What do you have then? lower right conver. You see the program like such a Ccr.

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Which is the size community resource infrastructure that you can request up to 5 million dollar rates at the grand category.

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And but that's for the community that's why it's on the right hand side, and the top right corner what you see is that you see the advanced computing services such as the SPC's was our foundation why actually activities and

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you'll see those 2 oval for mid-scale one and midsky.

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So I'm going to talk primarily about Bitskill one today, and then you'll see that.

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But you know, with a couple of examples, one example of this skill to talk about one important thing for the size community to understand the infrastructure is just not.

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How but think about infrastructure. Very broadly. it can improve software data and people to build the infrastructure.

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So keep that that in mind

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So then, research infrastructure already funded by size communities.

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These are what I wanted to show you. There is that we have projectwise in the range of 5 to 20 million dollars.

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You have a cloud bank for? cloud resource it we have to resource cloud, chameleon, and cloud lab.

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We have then, the power program for the the advanced wireless resource.

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Cosmos Father Airpan Alright, that you can see right.

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The frontier is the high end computing system and then you'll see in the purple is that setup projects.

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Got that got funded under with scale one so I will talk about each of those later on in my slide, and you also see something called a fab, or i'm, like fabulous fabric across border that's all funded

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original funding to get free

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The mystical resource infrastructure was initially created because, that, there were what is called the major multi-user facilities beyond 100 million dollar and anything below 4 million dollar was color mri major resource

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infrastructure. And so there is nothing in between until a few years ago, and that's when that gap to to to to bridge that gap 2 programs work create the the the the bit scale.

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All I want, and i'll like to and in that sense, we might say the mid scale sounds like a very funny name, but that's probably the when you have a measure on one side, and 4 million and and also over 100 billion and major also

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there, so you need the sum name to be able to bridge the naming.

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Also. So, without using the what major again in particular confused at the so. and so with skill, while it's really that's as I said.

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It's trying to bridge the community it was divided into 2 categories.

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One up to 20 million dollars. This scale one and which is what I would probably today, and it's kill 2 which is, you know, from 2,200 million dollars.

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So what is the resource? infrastructure definition in terms of ?

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All right. it's any combination of facilities equipment, instrumentation, hardware, software and the necessary human capital to support the same thing.

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I want to make a important distinction is not for the operational purpose, but for to build the infrastructure.

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What human capital, and there are a number of examples on a very broad level.

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You can see what it is there. you know you can see it.

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There are 2 categories i'll talk more about it there we're in mid-skill Ri.

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One implementation versus the design. The design is an afford that leads to eventual implementation of a mids can process, and that makes your project doesn't need to be Ri.

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One it can be our way to also. when it comes to midskill. I like to it.

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Our only implementation project. Okay, That's all you just hello the important thing for the community to notice the preliminary proposal which is coming up January fifth, which is a little over 2 months from now.

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and and after we do our, you know, initial review process, we are going to invite a subset of them for the full proposal.

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So submission, which is a Mayfree deadline, and this is only by invitation.

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So the mythical project at the very broad level needs to emphasize the scientific miracle of it needs to fill a gap in the resource.

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Community needs, and with the aimed at this national research priority very important to keep that in mind.

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It enables research to to remove competitive in the global.

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And you want to involve the training of diverse workforce.

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Of course, in the context of stem, so this is something.

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These are the 4 sort of the pillars that you want to keep in my planning to put together.

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Yeah, a proposal do some citation midskill falls under the panel of 10 big ideas that big ideas has a categorize into a different thing called resource ideas and process ideas and midskill pulse

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under the process ideas, as you can see from my as a this system image at the bottom of it, harnessing data.

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Revolution is a resource idea that fits it in into there, for example.

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And so we distinguish between What is resource?

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Ideas and processes. ideas. Someone that didn't like what does it not support.

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Very important to right. First thing, science and engineering research is not part of the up.

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And that's not part of the operation of richness very important, based on what we have seen in the last run one in major.

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Issue. I saw with pre proposals is that many of them talk about research, to build the infrastructure as a primary thing that cannot be that poor part of this thing.

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It's a this infrastructure pro program so so you want to think more from the what the infrastructure is needed for that.

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You may need to do some workups up with some amount of science and engineering research, but that's okay participant. It doesn't support the post implementation, resource, operation, and maintenance.

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Those we expect to be so funded by some other programs.

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So that we difference between what the roll of this solicitation versus others who will use the do there?

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Research the project cause. Obviously, if it is beyond outside of the limits that it cannot be considered it doesn't support general purpose building required for the implementation, it doesn't support construction, I want to add a footnote to it

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saying that if you want to enhance a part of a building that can be supported, So another team, not supported, just kind of a hotspot of instrument that you put together to say hey?

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This goes into the budget in the midst right that's not going to be supported.

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And finally, this is not a solicitation for resources centers.

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And so there are other programs. I use Crc and whatnot or research centers that you can submit to confuse the center with this.

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Solicitation, so cyber infrastructure project.

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I wanted to talk a little bit about. sorry I hit it.

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To buy a mistake project should significantly enhance a new science and engineering resource.

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The subcommunity, reason, and international scale it can be serving must be strongly given by identified resource needs in what it is needed and advances the holistic research cyber infrastructure, such or equal system, so I

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highlighted data software networking cyber security can spend one or many of these components.

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There it comprised of a very innovative focus.

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Technical an operational objective so it's very important to keep that in. and it's primarily focused nearly on data.

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Okay, finally focused married narrowly and the data storage or 6 support for, or a species will not be supported by. because sometimes when you think about cyber infrastructure, you'll try to lock them together, So

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keeps that in mind

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Okay. So I already talked about that implementation projects acquisition as family construction commissioning, and the project needs to be between 4 million 20 million dollars.

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A very important it's a strictly less than 20 million dollars.

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You can go 24 million point 9, 9, 9, but cannot go to finding in the mid scale. R. I want the design project allows you to go all the way down to 600,000 600,000 for requesting a design but it can be up to 20

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minutes 1 million dollars again for the part of it. And so, if you kind of look at a type of project, you can, as I say, acquisition, assembly, construction and commissioning for the implementation part it definitely has to enable well

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defined, limited term resource, experimented, broad community thing.

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It has to be shared, is very, very important to understand that design present.

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They cover activities that lead to preparation and implementation of a future midskill project.

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Those who are not quite sure up to this point about design.

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It. I want to add that the size, community, resource, infrastructure, solicitation. See? All right.

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If those are familiar, it has a planning track within the planning track.

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You can request up to \$250,000 for planning for a mid-scale research infrastructure project.

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So keep that in mind if you want to do initial planning, if before, if anyone want to go to design, or if the planning is sufficient to take you to direct implementation, step, So keep the program in mind ms Kl: I what it is looking

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for. So if you're writing the proposal you want to hit 2 very, very important thing.

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Why the project is up nationally important. What does it enable?

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In terms of you know, being able to do the research that we cannot do it right now.

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So second thing you test to have a broad community buying our shared use for mid-skill for broad community.

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So you have to make those 2 very upfront when you write the proposal to prep proposal, and because that's going to be critical for the in the evaluation of the so keep that in mind when you

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actually think about it. I I will add one other thing that comes very important in the context of research, infrastructure in the size community.

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Because one command thing we sometimes hear is that well is in that available somewhere else, like maybe one of the companies can provide it or whatnot. so you'd fall on you as the pi to make the case.

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Why the particular company or other project other infrastructure available doesn't support what you are aiming to do.

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So please explain that, so that the the panel the reviewers can understand.

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The uniqueness of what you are proposing, and so that you know it is, you know, easier to evaluate.

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So keep that also in mind. an important part of a new scale.

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Resource Infrastructure project is a project execution plan

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In short, we call it Pp. It describes the management and project execution that is to be ensured.

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It must define the project. scope, the organizational framework overall management rules and responsibility. We describe the formal chains process, because if you're going to make some chains down the road what is this going to be and

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so change can. There has to be a change control board to go with it.

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And for Pp. for the construction Ted. it required the performance measurement of manuscript.

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But is the as or the metric we're looking for and how it is going to be manage this is important for that.

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So they're rig or the resource infrastructure guide that Nsf release which is 21 desk, 0 one, and so 21 just one or 7 you might want to download and look at it in

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particular. It talks about Section 5 related to me skill resource, infrastructure.

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So you know I strongly encourage you to look into and go from there.

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Not the payp must be appropriately skilled for the complexity of the project, and so that's very, very important to be able to keep that invite

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So and then the other thing I wanted to point out is that there's a template associated with it.

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So the that there's a project template that is available for missile Pp.

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And so you wanted to be able to. look at that.

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We give you the link there for the purpose

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So f score also. you know, you know that several States folder underdab school categories. So they are jurisdiction are highly encouraged to submit.

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We have a project funded last year and you know so that's something to with mine. they're involved. I want to give you some high-level idea about the that kind of got funded in the last to run this

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solicitation occurs every 2 years the last 2 runs for fiscal year, 19 and fiscal year 21 fiscally are 19 10 awards for a bit foundation. right?

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I want to make it clear. So 6 were in the implementation, for in the design, and the average amount for the implementation was awarded was 14 point, 8 billion dollars, and for the design it was 7 1 million dollars for the 21 competition it

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was, happened to be just a coincidence again, 10, awards, 6 implementation, and for design project, and the average was, considered very similar to fiscal year.

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1914 point, 9 million dollars, and design is 10 point, 2 million dollars.

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So that's what you can in the context of size related to active awards.

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There were a number of awards project got awarded in the last 2 round, so i'm gonna go into each of them a little bit.

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Give you the sense of the flavor of it. by no way.

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This means that it is the full scale of what size covers.

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This is what got funded, based on what was, how they were viewed and everything.

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So do not think about. This is all we are looking to find.

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So the one of them was. This is about almost at the top of the missile project. A 20 million dollar fabric is a in network computing network test bed with stores, compute and programmability. available.

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This is phase. One has been rolled out very recently.

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It is how University of North Carolina has the liquid Tilia Baldin, and you can see the network for this very high.

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And network tasbet for distributed system, cyber security, MI.

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As well as the main side resource that's being actually built on it's under still constructs on stage.

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It has about a year left, or to be good, that another one funded in the first cycle of the fiscal year 19 award.

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The sage project is about 19 million dollars it's a very interesting software before sensor network.

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It's called cyber infrastructure for Ai at the edge. you can see what it is trying to do in terms of the benefit to the resource community.

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How, the measurement from the different nodes being deployed across the country, they will be able to get area of Kings and Newon.

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These are other project kind of stuff that funded how they're encompassing to be able to build this safe project.

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This earlier fiscal year 21.

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We got design project for it on the on a global measurement infrastructure.

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To improve internal security is a 7 point, 8 million dollar project.

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And you know with I guess it coffee at Uc.

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San Diego is the lead for this project, and you can see what they are trying to do.

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And hopefully they will go for a larger implementation project download what once this design part is actually.

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Now this is a very interesting project. it's an implementation of product funded in the last cycle.

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It's a 5 year, 40 million dollar product called reduce lab it's really goes to the infrastructure for next generation.

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Heritage science. we're very excited about this instrumentation.

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We, It really needs a trans user disciplinary mindset.

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And how they have this different What is they called the bench for Mobile and the flexible to be able to do?

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Look at him, related to the heritage science it's house that invested with the branch, too seals as the leadpi.

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For this one

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This one. although size is not the lead for this one size is the secondary for this one, as the Directory associated Behavioral and economic science is directed, is the lead for this one.

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But it's a great interest to the size community this is called the National Internet Observatory.

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This. So they're looking at how online behavior of users you know, chains over time and what sort of infrastructure social implication.

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You can understand, the Vidlas are from in Northeastern University is the Leadpi for this one.

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It's a 15 point, 7 billion dollars their project and that just got funded, you know, fairly recently, obviously. and so the this is very, very interesting, because it brings out data.

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Whereas in part 2 distributed andality analysis cluster different things you can actually do, and that they wanted to go to very large sample size what they would be able to collect and what what they want to do what for you know large scale.

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wealth and mobile based applications. And so this is very, very interesting to all of us, even on our size.

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Direct right? I want to give an example of a mid-scale resource, infrastructure to just for the benefit of the size community.

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Again, as as B is the lead on This one it was a resource data ecosystem, Id that's known.

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This is actually the University of Michigan with Margaret Levinstein is the pi for this one, and they have that the entire university consortium for political and social research.

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It's a the largest social science archive in the world, and they got, let's say, 38 million dollars in mid-scale 2.

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So the top hard break, really big put something together. What sort of and new infrastructure they need to go to.

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How we do make it easy, much easier for the resource community to use it.

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And so this is very, very impressive. in terms of what they put together.

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They will have accuration tools credential system for facility access to restricted data, you know, which is also sometimes very important, you know, depending on the type of data, because not all data may be publicly available so this is

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really really important. the project that has a not a problem let me see how's up?

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So i'm gonna revisit again. the guidance on the proposal for cyber infrastructure project getting to remember it could be data.

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It would be software. You already saw examples of what has been directed, related to data got funded to example.

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So I talked about it could have a software, is possible, of course, networking.

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You already saw the example of fabric and sage cyber security. and, as you can see, we don't have a specific cyber security research infrastructure funded so far and that doesn't mean it cannot be funded.

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We just need the community to submit proposal so that it gets gets selected through that review process to it.

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So you can actually contact us if you have more questions about it.

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But very important to understand is that we have a very broad way when we look at our Ai for the computer science community.

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Yeah. So and and and they keep touch in mind. we did create a Dcl.

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At 20 desk 0 91 to enforce the community to understand what they've want to do for you know, in the context of C cri, major research instrumentation and mid scale and you can actually see

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what we want to see in terms of the science driven clearly, identify the target size area.

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What you are going to try to do. It has to be holistic and integrated, integrative.

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How you look at it, and surface performance, sustainable, oriented.

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It should be led by team to demonstrate technical, you know, and project management expertise.

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All of those are very, very important. Earlier I talk about Ppp.

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Pp. is extremely important, because that's also part of the review process that evaluated by project management experts to to look into discussed all the real well with the man as well.

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And then the event in the evaluation piece we can do

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Site resource needs infrastructure again. I wanted to put this slide up there.

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If you think about In the fourth more area, there's some my conductor facilities, access to quantum computing Ai is a big thing for all of us, access to lots of compute cycle and in the excess and then access to data

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repositories designed to benefit socio technical system connectivity across folks looking tes with smart Xensor platform data.

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You got some example about a a stage project for it to cloud the ability to reach the interconnect research.

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And yeah, last year, prototyping. So so you want to keep this perspective broad perspective in mind when you submit the proposal.

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I mean you have a lot of questions, and that will try to answer.

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But I do have a I created the Faq.

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With the help of my colleagues in the foundation level working group.

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And so that I want to go over it. a few things, maybe that answer some of your question to this part.

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Research, dot Com: Yes, you have to use resource to Have got to submit it when you're submitting the preliminary proposals to select, prepare new preliminary proposal.

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When you are doing it. The solicitation. Talk about major multi user facility.

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Instead of using the term rfc there there's a reason for using the L.

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This is approved during the Congressional appropriation initially.

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But these projects, you know, to a separate solution, or funded through that.

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So along with miserable, So, brother? there are large projects.

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So why are we limiting our limited to I didn't want the single pi, and up to 4 api the thing is that nsf cover pays only allows up to. So you can always add your if page with this you know

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senior personality information and you know. And then you want to add also biography sketches for all of them.

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So and

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So that's something you know you wanted to sort of keep in mind.

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And additionally, any collaborator and the Flema is separately provided, as usual.

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We have a project that spans multiple multiple, direct, direct.

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And how do I do it? So this is a good question.

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You want to to say you want to do the project, I mean the infrastructure, as you are proposing to do.

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And then and then, and then make sure that, based on what you are the right director to be involved in this your project, You can specify that in your project summary, and so you can kind of go with that how how do we

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handle the pre proposal in the interdisciplinary. we are actually covid by different directors.

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So I would not worry that it won't be properly evaluated.

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In fact, we do end correct, you know.

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What level of details should be in that proposal?

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So this is obviously you want to follow the solicited on guidance, and you know you're limited to 10 pages.

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You want to make sure that you do it properly you know to be able to make a compelling story about what's the infrastructure I talked about national importance, and and able to cover those things in

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there. How details should the cost estimate be? I mean, for pre proposal probably is not as critical.

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But when you get invited for the program proposal in terms of the So, so you want to be as clear as possible.

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So this question is about: If I write a prepo port close to 20 million, I recipe and invitation.

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Can I? And that has more than 20 million dollars.

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Can it be considered for Miss Kill one? The answer is, No, because the budget goes over.

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So you have to submit under Miss Killer. I want to add that, Miss Scale one and 2 or 2 separate some recitation.

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So then it to be done. so protein up review process, select submission program

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The solicitation, says Design awards are intended to facilitate progress.

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Progress to our read limit design proposals to that will not exit.

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What it is. Well, I mean, events will think can be obviously bigger than that, but only for the part designing one to okay to separate between

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We need to support. what about the support letters from stakeholders?

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Do we need to mention the list in the prep proposal Let's start letters or some collaboration that prominent pre proposal.

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But you want to. but this is going to be more important for the phase when you go.

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Could full proposal, but there is so that's keep that in mind because we had to keep that preposal face a little bit simpler.

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Obviously. when will you be the decision be made for the proposal?

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Vice, so we expect it to be sufficient time before the May deadline.

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If i'm not invited can I actually submit are not allowed to do the and positively far, maybe ongoing operations and maintenance, how do we end?

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Sure did. the port is available. and so this is a you know.

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A good question, but that operations maintenance is not part of what it is supported by the mid scale.

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It's guilty. But there may be some operations to get to get the yeah research infrastructure.

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Maybe so as long as you justify that

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There are some other general questions about the hardware purchase.

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The law software allowed operations, you know as long as you didn't that limit of what it is initialized activities, you know.

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Yes, for all the use of access to a building you know some access that's possible.

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Are you users of research commissionings that research use for the before commissioning.

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So that that is also

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Brick and motor construction ms kla live one doesn't. So fund building a new building improvement to all of the existing facility, or been positive

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So this is a question They need to then talk to.

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You know, program managers about the this thing comes after.

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I think you want to worry more about the submitting the so I already sort of give you an idea about how many awards between 2 to 10.

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That's what you saw in the last 2 months we got 10%.

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Can I submit to both scale all I want to do?

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You want to? no the rule property, so that to follow that proving and all this information the scope of deposit, do I need to be exactly the same.

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It doesn't have to be between preliminary reasons of what you submitted and preliminary and food.

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For example, if in the preliminary you put a 5 million dollar project, then you put a 15 million dollar full proposal, then there's a huge disconnect.

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Why? that question?

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We'll miss scale submission count for some director. They have limit on number proposal submissions submission.

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That, proposed Con. Only 2 is you different activities than something to miss.

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Will this be offered again at least so far we see a pattern on every 2 years? But there is no guarantee.

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So that's what i'm going to do leave it there?

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What type of student training? You expect The will support the train as soon design assembled. Tests and commission right, if not all support training soon.

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How to utilize is important distinction, and what are I support?

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Kind of proposal, request support for train resources to use it.

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To know the any training activity should be associated with the you know. so you have to be properly done for what is there?

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So I think we're getting almost to the end of it our technician allowed to set up the equipment.

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It will be support for a commission, of course not for the maintenance and kind of proposal.

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Local faculty. Is there a culture salary to complete may be requested, but request for more than 2 month must be justified.

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Part of Apache guidelines there that doesn't change?

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Can I include ship time in my budget? It really depends on what you are shipping and what are doing in terms of that.

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So keep up. Yeah, a proposal request, support. The answer is no problem.

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So with that I'm going to stop it here for What I have portable presentation, and I will go to Q. A.

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In a second

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Alright. So I will try to some questions are already answered Probably I'd already did it.

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Thank you, Ed, for answering us. so. let me look at this one.

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This first, Con. if something is being shared i'm not sure I can I don't.

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So this is just this, with only 4 months between preliminary.

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And what time frame do you have? by transcript?

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You know, as I said earlier. you know we have to get it out for around in March plenty of time at least 6 weeks, so that

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Another question. Do we need to think about the plan for post implementation support at the time of submitting a proposal?

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Some discussions are needed for that what we're planning to do.

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Yes, that may be for don't everyone to evaluation problem cannon are I design project include some conference information confirmation, testing, and purchase of hardware or does it have to be restricted to

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this design task only it's a it's a good question.

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It depends what exactly we're doing in the design so if you need some testing pro as long as properly justified in the budget.

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Then it will be okay. So you know.

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Question is, is, are there any restrictions on project that have helped real events?

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And there from might be seen as a more appropriate and nice, while the as you know, National Science Foundation is for non clinical science and engineering so depends on what exactly you are thinking about.

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So if it did a very health relevant, heavy, that may be difficult to justify under here. and and I it might be an appropriate if you have any thing that is thinking, please send me a one page or we have folks in

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our director at who smart health, for example, area that I can ask them their opinion on that.

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What are reviewers looking for as far as team composite presentation?

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Of course, we want a strong to team team team, as some guarantee, you know, has that coherence in terms of the day.

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They work together that may be helpful. They have described how they are going to manage things together.

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So those things are going important tool factors in you know, deciding so.

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You have to kind of pointed out. Yeah. Can you discuss the proposal? Change board?

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More specifically, what type of people should this be made up of?

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You know, versus the faculty University industry. Okay, the change port actually could be your pi and coppi and couple of senior person.

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It doesn't have to be enabled it totally outside. we leave it to you to define that, and then go with

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It seems that our present calls are not part of the funding.

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Can you say how, when an infrastructure is built, how the infrastructure is supposed supported so that it can be used by the community?

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So once that construction phase is done. that

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Because because, remember, the directors are also invested on creating the investor infrastructure, because they think that's important to they are research community.

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The director is this particular director itself sports. so they have a stake in the ground in that sense.

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So they are looking at then funding the operational part.

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But how they are going to do it beyond the construction phase, and there could be budget for that.

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How long it is going to do, how much that could be probably negotiated, based on the scale and the scope of

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Earlier i've mentioned that a planning run for preparing my skill propeller.

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Was that a different program? or was it in the part of the all I want program?

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That one is a Ccri it's called size community resource infrastructure program that has a planning M.

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Category since planning for mid scale, and you can request up to \$250,000.

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If you're not ready to submit to this solicitation.

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Yet I am backing out on the solicitation number.

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The next deadline. The kind solicitation is the next deadline to be third Friday in July.

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So you got a bit of time with that, can you commented in any possible way between Csi framework, and and that's how I scooped Cssi framework.

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You know that's a software those were not familiar with software oriented scientific software infrastructure.

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You could see some potential overlap. but budgetary part is probably the biggest one depending on what you're trying to build and whatnot.

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So. And and other 2 things is that mid scale probably focuses more on national importance.

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You know, and then you know the community buying probably More so than probably required for having said that I want to put the disclaimer that I don't know all that details about Csi.

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So hope i this can we provide an upgrade from existing infrastructure?

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Bitter covers and wider application. d answer is, it depends What exactly the upgrade you mean.

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What does it bring in terms of value to the infrastructure value to the resource community?

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So that's for you to justify that instead of saying I just did a small announcement to it.

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So it has to be of the budgetary, wise of significant size that you know and

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So again. it depends from project to problem. Yeah. now, there's a new page, 23 desktop for the premium.

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Should we? And And so we are following 22, the last one or 23.

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You always follow the 20, the latest 1, 20,

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Their salaries are not supported for it is no that's not true. You, Pr.

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Salary can be supported. You just have to justify why you need the Psl.

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Or for the you know, building the infrastructure implementing the infrastructure.

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What exactly being done, so use for them of course it cannot be used for doing research.

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You know that's that's? for clear because it's a research infrastructure would it make more more sense to put together a team of size resources? or is it common to have interdisciplinary again, this really

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depends on the project. I gave a couple of example where of social science and computation involved, because maybe there are some attendants today who might benefit from knowing about that.

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But that's not required you have to just look at your project to see, and it could be a complete size infrastructure.

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You know that you're building but maybe some domain size 5 benefit Accordingly, you can position it.

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What and how you are trying to do that other than monetary value.

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Can you please compare and contrast this support to suit and satellite program?

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Yeah, Mria, is the major research instrumentation is a smaller baby of this one that's a small this way to compare it, and it has it.

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Emma has 2 tracks track one and track 2 track.

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One is up to a 1 million dollars, attract one it doesn't have to have been used by community at all track. 2.

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It has to be as better community. So That's one important distinction, especially in terms that Umri is not necessarily always looking for the national importance per se. so.

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But mid scale is so that's another important distinction

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When will applicants be notified or preliminary result?

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Again. I said it's about the march Timeframe.

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What happened If the Lpia changes their instrument?

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Could there be transferred to their newest tradition?

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I assume it depends on the type of dance infrastructure.

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And in a sense, You're right you answered the question correctly exactly. If the infrastructure was going to be at a particular institution, the Pr.

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Changes. Then you have to probably get a new P. hi

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From that institution, and remember any Nsa. reward is given.

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We respective hopper to meet skill or otherwise. Actually, although there is A. P.

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I was submitted to put, Jacques actually goes to the institution.

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So this tradition always has the right to change period. Yeah, that there is a proper justification

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Can you talk about more? budget companies contains a very, very good question.

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Miss Carlos expects you to have budget contingency, and that has to be, you know, properly done.

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But the contingency can be, You know. up in the context of latest thing that we have seen with supply chain issues. could be that equipment. You Let's say budget for 100,000 make us 140

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1,000, so it could be something like that. And then so that you can actually cover that part, you know.

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With the contents of when it comes contingency can be spread out of what the duration of the project, or it could be not needed until maybe the third year. or 40 year of that project.

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So it's completely up to you what what do you need for the company.

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What you do. but typically, you know, if you put a very small amount for budget content contingency.

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That's because the budget let's help 20 million dollars. if not having enough in contingency, makes everybody worried because there's always slips in the project, you know, and just you know again going back to supply chain

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costs can increase. So we have to be careful to I mean to know that there's enough for contingency.

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That be there to be able to supported Thursday?

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Those situation. Can you give example of allowed science and zoom?

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Non resource permits an enabling student both dock and Pi support.

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Oh, man, that's a tough question give example some allowed I don't know if add is here.

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We had an answer to that question. Ed, Are you still around?

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Yes, sorry, Dick. Can you repeat the question? Yeah. The repeat.

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The question is, can you give examples of allowed science and engineering non research for mid-scale allow one grants enabling student, postdoc? non, I don't know how to answer that Sorry, Exactly.

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I'm having So maybe we just passed this one with proposals for research infrastructure to support data interoper across social science, computer science, natural science fall under the per view i'm having a hard time, different sitting in the

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trust resources, resources, resource, center distinction. research center, you know, is computers, science community like the as to create.

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Those are research center infrastructure is what you are building it.

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So I gave to the example that's cost disciplinary one is that Internet observatory that you saw earlier as well as you know. the one, the Id that the University of Michigan.

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So maybe you want to talk to those Pis to get an idea about what and how they are. You know.

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What you have in mind. You know whether it is small, simple infrastructure is interest texture.

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Give that in mind, you know So it's not a research or said, That's going to be separate funded by the infrastructure

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For implementations and companies will be involved in the design and concern.

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The proposal Have budget for those companies. What overhead rate is applied?

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So I think it will be the project specific that we can see that being part of what it is needed, and you just have to

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So any so on one of the folks you kind of answered my question.

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Can you give some example of how existing my skill process supported operation?

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I mean, was there a communion How it's gonna be on comingon?

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Is, those were not familiar with size supported resource infrastructure not funded under mid scale.

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Just wanted to make that yeah budgetary wise. It is in the mid scale rings.

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So so that one what's differently than the the ones we have.

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So probably i'll stop it here in terms of not to mix it up or confused the attendees for listening to this.

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Will the video be made available of today's webinar and slides.

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Yes, that's plant, and it may take about a week to 10 this before this available

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What critical question are you based acceptance? and what are the minimum requirement for?

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That's very hard to say you know high level like as I said.

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National importance. community Brian. Okay, of course, on top of that your standard intellectual merit criteria, for you know,

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So you the team is good. Can they put it together?

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All of those can be so high to say what is the minimum or say. And obviously you want to think about that it's an infrastructure that allow us to do much better science that you cannot do right Now, i'm definitely

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important that is absolutely critical.

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Will a resource are doing decision be considered for proposal, or we do not make any differentiation between all one or 2 instances.

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As long as you put a prop, is what emphasis that this is not Mri.

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And this scale never had cost sharing the core man that's correct.

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Missile has no costume. Requirement Can different institutions submit as a collaborating yesterday?

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No, we have to submit there's a one Professor from one institution would sell their work from the example Cdw.

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Appears, the all multi-institution will single institution proposal route instrument that's basically considered.

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Yes, can we consider? Remember, the examples I gave are more sides related.

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I am aware of a couple of missile project awarded.

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Those are single it has been, but this is in different one. in Bio.

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I think i'm blanking out there was one buying violin and i'm off to Ohio state so.

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Yes, yeah. it has been done for under been funded.

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How many proposal do you expect to see for one or you can?

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Good question we're depending on we're waiting on you to submit the proposal, so it's hard for us to tell what will get it.

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So we hope to get a lot more. We want the community to be submitting more proposal to miss.

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And all right.

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Time. Okay, So I have one another 5 min or so. would this project support? see?

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Going infrastructure that supporting large vessel or at at sees system, sensor network it's possible.

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No, we funded in the very first round on the airplane for related to climate change. So I don't know I think it's University of Wyoming that got funded so you know throw your ideas in here let's

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see what where it goes, what ballpark percent of chains is allowed in the positive between.

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There's no there's no specific guideline I said you could go from 5 to 15 min.

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You know people are going to where the eyebrows and say okay, what's going on there?

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But you know you make a distinct, and it may want to add a note saying that this is why you need to so go up in the budget, you know some justification.

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Provide from if miss, scale doesn't support brick and mortar or research for implementation track project. what are the sun a lot cause other than seller? No.

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What we want to say is that you cannot do. Build up facility.

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We can do. you can do change in the room or facility.

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You have that may be covered. it's possible and obviously Besides, celery hardware.

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You can do the hardware you know that you wanted to purchase for your infrastructure that would be supported by that.

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So it's not all salary many internal personally be mentioned, may in turn, if a person will be mentioned.

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The pre proposal is committed to performing some design tests with their own funding.

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I think boys are not allowed correct what about the most part I don't remember to be honest time or use for for if I get an answer.

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I will update the Faq Page information

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With brick and mortar immense on no building but improvements are allowed.

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How about expenses of existing? physical space? Can you add space to an existing system?

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It depends I think it's very very tricky don't know a good answer to that you know changes possible.

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I think it is not allowed to be honest. when will the record even slides be available?

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In about a week to 10 days let's say is it allowed that didn't see a collaboration The Federal legend on the proposal

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I do not know the answer to that question. What are the annual progress, support requirement?

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Very, very good question. it's. more than you are to stand out and sf awards because there is a project execution plan, and there could be not just enroll.

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There could be depending on what the agreement is. it could quarterly update, or by early update, you know.

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And so those things are there, and many projects I know.

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There are bi-weekly meetings with the the pis, and I infect man is one of them.

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The fabric project I'm a mets and earlier I have bioclick also with the Pi.

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So a lot more involved this question raises something that I forgot to mention already.

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It's absolutely important to have a really you know budgeted for a project manager and have a really good project manager.

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It is very, very important. Project manager should not be the pi we want to make that very clear.

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There's so many companies wanted to Do for an instrumentation or arrive of the size that project management can coordinate everything, and that's very, very important.

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Don't know what that is, can you comment on the distinction between research infrastructure and research. center.

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I sort of did it before in case the size community the planning group.

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Yes, this is the planning group. 22 does you know 5 o 9.

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I think that's the correct how to reflect scientific merit without research.

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No, it's a infrastructure you want to be able to say what is the infrastructure building it?

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You are building that is going to provide enable the science to want to perform.

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So that's how you want to. focus what is the innovation in the infrastructure that you need to do that or not existent currently that you want to. So that's sort of dango We want to play on that will you

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last facility Co-managing dancer is correct.

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The Lafayette was involved. It managing this project from early on.

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What are the envelope? progress, support? I only answer that question.

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Can they affect you, Link. We shared here. I don't have a separate way to submit it here.

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So it will be be available as a part of presentation when it is over.

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Can you? It can include a few trial positive for test processes.

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It may be possible to the trial, because you have to still give some example of what resource that would be enabled.

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It may. It may be so. you know researchers in other Institute who are going to use it.

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So you can just say we're gonna be able to do and if doing through the test makes you to fine tune the instrument or the infrastructure

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Can you comment more on the cost estimation preliminary program proposal?

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It doesn't have to be detailed But you know you want to give an enough information that you know. when somebody looks at it. they can actually get an idea that is within the i'm almost coming to the end of it.

01:03:57.000 --> 01:04:01.000

I will, I think I see calling a couple of more questions that's very good.

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You mentioned that broadly configured a specific resources will not be supported in this, but has about.

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But how about especially with that tune to perform general community access to particular capability?

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Yeah, that leverage, the resource work being proposed. So the thing is that and I, what do you want to understand Is where and how is that going to be different?

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And the supercomputers that's Why, that distinction is made purposefully there.

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So you have to justify. Why, what you are doing is not going to be done with the species available to the community right?

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So that's sort of where you wanted to position and midst there, you know.

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Maybe send me a one page, or I can look at

01:04:49.000 --> 01:05:04.000

Alright, looks like I am A design track proposal will include the proposed design, but it is also funding a design process.

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How complex should be the design that is outline that's a very, very question designed the doesn't have to be obviously all complete.

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We may have some part that you still need to design as long as you can articulate that well, that'll be helpful.

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And with that I have come to the end of the time as well as the questions that I could see that.

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Try to answer it. and if You're, still around you have anything Parting thoughts from Audrey, talk to something I know.

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No, thank you, thank you for all the engaged questions as well.

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So it was terrific. Yes, I I I that it's very very good.

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I saw the I really delighted to see so many people participating.

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At the display, or not. thank you very much I'll conclude the webinar.