

WEBVTT

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Okay, Good afternoon, everyone. I hope you can all hear me back into that.

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CSSI webinar, and do get started shortly

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Okay, so let's get started. my name is Veron Chandola.

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I'm here with my colleagues from and that's the office of Cyberinfrastructure.

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Park and i'll show you my last program directors from several of the divisions who are here to have us out and answer your questions.

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During the Q. A. session. So we are the program directors from OAC

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Who manage the the cyber infrastructure for sustain scientific innovation proof.

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And today, in this webinar i'm going to provide a brief overview of the CSSI program, describe the changes to the solicitation that this fiscal year and highlight, some of the most important points that

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you need to know, to submit a proposal to this program.

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So let me just go over some of the logistics here.

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So the purpose of this whole webinar is to orient the research community, which is you all to the new solicitation, summarize the program and have you criteria and answer questions that you might have our goal.

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Here is to help you on improve your understanding of this new solicitation, and help to improve the quality of the proposals submitted to this program.

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This is the outline of the presentation today. We will start with the description of the program followed by the overview of the new solicitation which is Nsf 2, 2, 6, 3.

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2, and I hope you all are aware of the of how to get to that, and we we will also take questions from the participants at the end of the webinar.

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So if you have any questions, please you can start putting them in into the Q.

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And a box on zoom. but we will answer them.

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At the end of the webinar, and you can also answer ask questions through the Q.

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And a feature at the end of the presentation as well.

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And I should also note that a recording of this webinar as well as the slides, all the materials associated with this webinar will be made available to you all through the program. page.

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So and i've been told that this will be done by coming Monday.

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If not sooner. so please wait until then to get access to this.

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So before we start I would like to invite our office director of manufacturer to give a few introductory amounts.

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My shoulders. Thank you very much, as far as said my name is manish parachute.

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I'm. the office directive for the office of advance ib infrastructure, which called the Csi Program.

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As for also mentioned, this is an nsified program that really includes participation from all the directors and offices across the foundation.

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So, my big Thank you to the program directors, both from Oec as well as across the foundation, who who put in a lot of effort in this program?

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Just to give you a few words of introduction here, or always see, is an office which, whose mission is to support the cyber infrastructure, ecosystem to enable science and engineering research and education across all areas supported

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by the National Science Foundation and software and data is an integral part. That's all this ecosystem and Csi is a flackship program that looks at the development and deployment.

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Of this software and data cyber infrastructure it it's really emphasized a science-deven approach.

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And so it looks at software and data cyber infrastructure that is driven by science needs and enables science right.

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And so, as you think about your proposals talking to the program directors to make sure that that these aspects are addressed is important.

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It's a long-running program has been running some time and has invested significant resources enabling software which has had a lot of impact.

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But I think more interestingly, it has supported a lot of cyber infrastructure, professional software developers.

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Dana experts right, I think, somewhere on 2 to 3,000 and a large number of students, and that's an integral part of it supporting the the mentoring.

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The professional development of the Ci professionals is in integral part of it.

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And finally, I make a point is I would like to note that we are always looking for feedback from from the community, and and we evolve the program.

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You'll see some changes that we have made in response to the feedback that we have received.

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So we appreciate any imports of feedback you may have.

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With that, let me welcome you once again, and hand it back to our own.

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Thank you back to your Thank you, Manish. for the introductory comments.

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And with that I think we can get started with with the the rest of the presentation.

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So the plan is that I will go right and i'll i'll overview of this program also.

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Tell you a little bit about new things that you've included in the solicitation this time around, and then my colleague J.

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From Oac. he will talk about some of the things that you need to know about the preparation of their proposals, and then it'll end with the Q.

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A so a little bit about the csi program. as minish that this is one of our flagship programs in the field of in the area of software and data, right?

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It's a long running program, it's an interdisciplinary program that involves many direct rates at Nsf. and you can see many of the program director from different divisions, and we're very thankful that

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they they're able to attend today and access some of your questions the focus here of this program is to support the development and deployment of robust, relayable and sustainable data and software cyber infrastructure

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or ci, that will support and advance sustain scientific innovation and discovery.

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So there's a focus on the emphasis on sustained scientific innovation and discovery in this program.

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So that said so, Csi does not intend to support. research and new Ci. But it aims to support the development and deployment of new and innovative cia.

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So there's a there's this very subtle difference there that you need to be off The proposal submitted into this program are strongly encouraged to this

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Jay, would you like me to load the presentation So you can continue, hey? Can you do that?

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Or I can take it over. Oh, I think Let me try one more time.

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Apologize for that share screen

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Okay, let's see if this works

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So i'll be back on the

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Is it visible? i'll tell you about that We had a minor technical issue here, but okay.

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So I just wanna talk about some of the changes in the current solicitation.

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As I said, the number is, I have to do 6, 3, 2, so you can find it on Nsf page.

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The main things that have changed from last year are we have revised the Ci professional mentoring and professional development plan, right?

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So we have a increase. The page limitation for the plan to 2 pages from one last year.

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We've also updated the program synopsis and the program description sections to include clarification about the extensions of existing C&S.

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And I elements of framework projects and this is something that i'll talk a little bit more shortly.

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We have device, the proposal, preparation and submission, instruction sector to clarify the expected content of the prior support section.

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If the team has received passes the programmatic areas of interest section of the device to reflect the most recent programmatic priority areas for the collaborating and set directories and divisions with respect to the c&S solicitation

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and we have also, clarified the criteria for proposals to be returned without living.

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So please. look at these in the in The solicitation to make sure that you're available.

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These changes. So now let me talk about the different award classes that we have in the in the solicitation.

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So be accept proposals under 3 classes. the first one is elements.

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Second is framework implementations, and third is transition to sustainability proposals, which is a relatively newer track that we introduced last year.

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Elements, proposals our projects support small groups where the ideas will develop and deploy robust software and data capabilities for which there is a demonstrated need that will advance one or more significant areas of science.

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And engineering. So these are works are you can ask for up to 600,000, and you can budget for 3 years at the Max framework.

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Implementations are larger, internally teams which are organized around development.

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An application of common software and data infrastructure aimed at solving common research problems in one or more areas of science and engineering.

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And we expect that this will result in a sustainable community framework that will serve diverse communities.

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So these are works can be between 600,000, over 600,000 up to 5, 5 million in size, and between 3 to 5 years.

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In during the last track is transition to sustainability.

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This is, as I said, a relative renewed class of awards, and this aims to support groups who will execute a well-defined sustainability plan and for existing cia with demonstrated impact in one or more areas

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of science and engineering the sustainability plan should enable new avenues of support for the long term sustain impact of the Cr.

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The award size for this class of awards is up to 1 million dollars, and the duration can be up to 2 and these the the numbers that I just quoted.

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These are total budget limitations for projects which may include multiple collaborative proposals.

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So the total amount should be under these these numbers projects, and the upper portions of these ranges must be exceptional in terms of scientific impact.

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And as with all proposals in an except they should be discussed with program offices from the divisions that fund, the researchers that would be impacted.

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So i'll talk a little more bit more about this shortly The proposed funding amount should also be commensurate with the work being proposed, and the size of the community definitely affected, and the level of impact that's anticipated

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from this activity. Oh, I want to talk a little bit more about the transition to sustainability class of awards that are newer.

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And the idea here is that we want to these are what's your target groups who would like to execute a very defined sustainability plan for existing Ci with demonstrated impact in one or more areas of science and engineering

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supported by Nsf. The goal of this award is not to cover the daily operation.

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Cost of projects to sustain them. So this should be.

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This. I want to emphasize this, so we are not.

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You should not ask for phones to cover the daily cost of some project that you already have.

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But rather we want these to help implement a well-defined sustainability plan that will need to self sustainability of these projects over the long term.

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So remember, these transitions of sustainability are, only for up to 2 years.

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So. But what we want is to from these awards is define sustainability plan, so that these Cmi projects can sustain over the long term.

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So just expected that the projects funded under this project class will identify and transition to other avenues of support.

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And we don't necessarily advocate one model for this. So this could include open source, community support, revenue from memberships, subscriptions of donations funding from industry or other federal agencies for the operation of

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a Ci to be sustained. So this is what you need to articulate, and in the proposal, if you are targeting this class, the competitive proposals that clearly demonstrate the current level of adoption of the

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Ci: So remember that this is focused around the current.

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Ci: So you have to first demonstrate what is the current level of option in the community and its impact on science and education.

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So far and then justify the need to sustain these impacts and describe how this project will help to achieve the long term sustainability of the Ci, and with clearly defined metrics of success

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So the type of things that you can request funds for under the transition sustainability class of awards, maybe include funds to support activities such as further community outreach and engagement user training documentation technical

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support improvements of court quality, scalability and accessibility, and any other activity that you might need to achieve.

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The long term sustainability. These awards are not limited to process previously supported by Csi necessarily, but the proposals need to clearly demonstrate the impact of the target Ci, in one or more areas of science

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and engineering supported by Nsl. And in the solicitation we also highlight that projects funded to through this program should reserve in data and software.

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Ci innovations essentially to address disruptive changes in applications, adaptability to new technologies and to changing requirements as well as the emergence of new concerns in data and software.

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Ci. design and development, and some of which are listed here, including privacy, trust, transparency, Look reducibility support for Ai.

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And machine learning and energy efficiency. So what do we look for in a competitive proposal?

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And this isn't the solution as well we expect that these pro. the project that you're proposing are science driven and innovative.

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They are expected to establish close collaborations among stakeholders, build an existing recognized capabilities, and, clearly articulate the services and capabilities that will be delivered to this project with well-defined

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metrics for success, and should have a clear plan for long term sustained impact beyond the lifetime of the system.

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As I said earlier, Csi. is a cross cutting program, and it is enabled by the collaboration of divisions and offices across all scept director rates, and most of them as a black rates and we have

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listed the participating organizations here. we also have several program directors from many of these divisions here as well.

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So who could help us answering questions that are specific to those those areas?

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Right. so, Osc. the officer advanced. have an infrastructure, manages Csi.

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But we have designated representatives from all of these divisions that are participating as once a contact for this presentation, and you can also find a list of the cognizant program officers on the Cssi program Web page as well as on

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the solution. So solicitation has details on specific priorities at division and office levels across various directors.

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So if you look at solicitation, you will see the a section called programmatic Areas of interest.

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We we have actually revised it to reflect the most recent programmatic priority areas for the collaborating Nsf direct rates and divisions.

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So we highly recommend that, if you are planned to address or target anyone of these areas to go and visit the solicitation and get familiar with these priority, some of which might have changed this year, this is something that we strongly

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encourage, and I think the manish also you it to this as well, is that Pis are strongly encouraged to contact program officers from the list of cognizant program officers in the divisions that typically support the scientists and engineers

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who would make use of the proposed infrastructure, so that you can gain insight into the priorities for the relevant areas of science and engineering to which the proposals may be responses.

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So this is highly recommended. So if you have not done that already, we strongly encourage you to contact the program officers in these divisions as well as an Oac, so that you can you know check if what you are

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proposing aligns with the current pattern so Now let's talk about the proposal preparation.

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Some of you might already have experience in this, but for those who are new in this I just want to highlight that. we have.

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Well, you know a new way of submitting proposals right?

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And this has been there for. for for a year or so.

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So please note that the proposal submitted in response to this program must be prepared and submitted. Via either research all brand stuff. So we'll we no longer accept submissions through fast lane so and any information about

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preparing your proposals. you can refer to the Nsf proposal and a work process which is detailed in the proposal and award policies and procedures Guide or Pat G and the link for that is

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on this slot. Now, in the subsequent slides, I will discuss some of the aspects about proposal preparation that are specific to Csi.

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The first thing is eligibility. So who can submit a proposal for this program?

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So the pro and these are listed in solicitation as well.

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But I I don't want to just I like these Proposals may only be submitted by universities and colleges.

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Nonprofit non academic organizations and Nsf sponsored, federally funded research and development centers of F of Rdc's provided that they are not including costs for which federal funds are already being

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awarded, or are expected to be awarded. the number of proposals that you can be on as a principal, as a pi or a copl, or a senior person. now is limited to one so a any individual may participate

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in a proposal as a pi Copl or other senior personnel, and at most one proposal for a given deadline. and in the event that any individual exceeds this limit. if we see multiple proposals with the

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same individual. Then any proposal submitted to the solicitation with this individual listed spi, opia, or senior personnel.

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After the first proposal that is received at nsf will be returned without review.

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So we'll only consider the first proposal that has your name on it, and any subsequent proposals will be returned without review, without any exceptions.

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I think, as I said, that I think I lost again

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Hi: So So in the cover sheet, you you should list software institutes as a program in the cover shape in the section under and a set unit of consideration the proposal title should begin with either elements frameworks or

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sustainability, followed by the Colon, followed by your title proposal title depending on which I track your targeting.

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So, for example, if you are putting in a proposal for the element strap, then you're proposal title should start with the word elements Colon, and then the title of you project, and same thing for the other award classes as

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well.

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In the description of the project in addition to the guidance that's specified in the patch. G.

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You. You also have to address these things. for the the signs driven, and the innovative aspect of your proposal.

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You have to highlight cycle infrastructure plans.

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So project plans and system and process architecture. How are you building on existing recognized capabilities, and how are you going to ensure a close collaborations among stakeholders?

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And finally, you you should have a section on measurable outcomes where you list.

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The deliverables of this project. how are you going to ensure that this has sustained and sustainable impacts?

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And then what are the metrics that you will use to to assess the success of this project?

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Again, as we said, the project might explicitly discuss which Directory to division or office.

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This proposal is aligned. one more thing that I want to highlight is that if the pi or copy, as I received prior see inside funding, including programs that preceded Csi like dips, or aside, too, then the proposal

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should briefly discuss what software and data services resulted from their prior works as well as the significant outcomes and impacts.

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And this can be done as part of the results from prior and support section.

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If appropriate. If you're proposing so one thing we should also note is that Nsf.

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Supports for projects funded in Cssi Elements and framework awards.

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All of 3 desktop programs are intended to be a finite duration.

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Right, so we do not expect funding to more than 10 years.

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So, if appropriate for transition to sustainability, the teams may request further one time support to transition to sustainability.

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Class of our works. If the proposal is an extension of a previous Cssi.

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I funded a framework project, then you should clearly justify the need for such an extension.

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You should clearly articulate Why, you are going for another framework project, instead of transitioning to the transition to sustainability. award class and the justification should briefly describe the outcomes of your The project

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that you are seeking extended for the status of the Ci that was that was developed as part of the project.

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The current level of adoption of the Ci in the community and the outcomes of the efforts of the project team to translate the Ci to a sustainable community.

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Frame. So these are the things that you need to be you should clearly emphasize in in your proposal.

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So I will now invite my colleague

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Jay to discuss additional proposal preparation aspects.

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So jay on yours. So thank you, Baron. Next slide

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So we inertion to those are required documents, including proto, summary description, data management, plan, etc., needs to prepare following supplementary documents specific to the Cssi program.

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First delivery mechanism and community usage matrix matrix.

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Because the Cssi program emphasizes integrated Ci services to community.

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This document should address how to deliver services and capability to communities, and how to measure and assess the success of delivery, using quantitative metrics and specifically targets.

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Second managing coordination plan for framework proposal.

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It should be a separate document, with 3 page limit for element and transition to sustainability.

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Proposal. It should be included within that 15 page project.

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Description. Third, Ci. professional mentoring or development plan. If you have budget to support.

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Ci professional, such as research software engineers, programmers.

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It professionals, data, scientists, etc. Then 2 pages limit.

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Documents should describe the mentoring career path or professional development activities, such as career counseling, training, grand proposal, writing, etc.

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You should include that information in that document for hydroput computing resource.

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If you request those resources, the document should describe details with 2 page limit, more detail will be discussionly, cloud computer resources.

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If you request resources through a cloud bank for

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Commercial public cloud resources. The document should describe details in 2 page limit.

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We will discard more detail shortly, and there are a lot of collaboration.

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If you have, and also a project personnel and Partner Institute, you need to list that information in your performance.

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Okay, next, please.

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So community usage metrics, so Pi needs to, provide a quantifiable main metrics to measure the community, adoption, usage, and engagement for each year.

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Those metrics should be appropriate for the programs, specific areas and the type of proposed Ci infrastructure.

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If the project is funded, the lead Pr. should report those metrics in the each.



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In annual reports. Next, please.

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Alright Next: Okay, Thank you. So supplementary documents specific to Cssi.

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Any proposal that request funding or budget to support the Ci professional and Pi should upload this document and see, I proportional, as I mentioned, that someone who actually developed deploy, manage and support effective use of the Ci

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that document must describe the mentoring or professional development activities that will be provided for such an individual professionals

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Yes, I will

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So use it to visit them now. yes, it is now.

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Thank you. So this mentoring and professional development activity will be evaluated under the broad impact.

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Tagery for review, criterion, example of mentoring and professional development activity.

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Not but an unlimited to career, counseling opportunity to prepare a grand proposal, paper, publication and presentation, guidance on find the opportunity for professional training and a career advancement, etc.

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Next, please

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And another document for sub cssi proposal.

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If you request a hyperput computing. Htc.

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Resources. Pi should include this description of the request Not limit to, but not limit to 2 pages as a supplementary document that include title, institution, name anticipated, total Hpc: resource.

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Amount would, Ely breakdown, a technical description and justification for that request more information.

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The detail on the technical description. Please report the solicitation.

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Pi should include that Htc access. One word without space is a keyword between the overview and that intellectual merit on that project.

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Summary pi may digit the the link at the bottom of this line for more information on the available Hpc.

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Resources, and it's Tc. resources that can be allocated through the program.

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Next, please

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If you request a commercial cloud, we served through Cloud Bank website.

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2 page limit document is required, and that description must include title, institute, name and estimated total cost.

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And the specified. the commercial cloud provide that will be used, and also technical description and justification of the request. Npi or so, should include a keyword, a cloud excess, one more without a space between overview section

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and in the intellectual merit in the project. Summary page next, please.

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Regarding this commercial cloud computing mysterious document, we need to, be careful, because, the pi should make sure that the Nsa.

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Budget should not include any such cost for accessing a public commercial cloud.

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Computing resource via a Cloud bank or website, and the total cost of the project which include Nsa.

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Budget and the cloud bank budget should not exceed the budget limit.

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Describing the solicitation, for example, can see a proposal to submit to element class, which has a total proposal budget limit of \$600,000. If A. P.

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I wish to request \$20,000 in club computing resource through Cloud Bank.

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Then, then the proposal should not require should request, as part of the proposal budget, no more than 580 \$1,000.

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The remaining 202,000 \$20,000 for Cloud Bank.

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A research should be specified in the supplementary document. If a proposal is a collaborative project with 2 pi from 2 different institution, then each pi may request Cloud computing resource separately through that independent supplementary document

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as long as the total budget does not extend \$600,000 limit. P.

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I may visit the link at the bottom of the slide for more information on available cloud computing resource which can be allocated through this program.

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Next, please

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So inertia to that high throughput computing and commercial clock computing resource.

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And that step has funded heterogeneous computing project through hike, Popmers computing resources at Franta and Bill Delta Stem, P. 2, etc.

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And also cloud computing resources at just stream 2, and also bear computing resources at Cloud Lab and Chameleon Project.

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Pis can request resources through access Project website access Ci dot org.

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After the the project is funded. Next, please.

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As for all proposal, we see by Ansab, Cssi reviewers and panelists will be asked to consider the intellectual merit and broader impact for each proposal for their individual reviews.

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Panel discussion and panel summaries. In addition to that standard criteria, Cssi reviewers and panelists will be asked to consider additional review criteria that are unique.

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To this Cssi program. more information. Next, please.

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So in an effort to assist that both Pi and reviewers.

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This 8 criteria are grouped into 3 themes.

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The first theme is project motivation and impact. the The project outcome must feel well recognized.

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Science and engineering needs of the research community. and also the project can reject in data and software.

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Ci. innovation, such as abductibility to new technology and the emergence of new concern on privacy, transparency, reproducibility, etc.

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The second theme is cyber infrastructure plan.

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Since I program support development proposal. So panel will evaluate proposal based on questions such as we.

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What is the proposed architecture, and what engineering process will be used for?

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Is design, development, documentation, testing, valuation and release. How will that project build on, and liberty existing?

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Nsf: Cis. What are the community engagement mechanisms like that?

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And third team is measurable outcomes at the proposal.

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So proposed services and delivery mechanism defined clearly how the project plan don't come impact as sustainability.

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Does it project articulate quantifiable metrics to assess the success of development.

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And these 3 teams and the A criteria must be explicitly discussed in the proposal, and will be evaluate as part of panel review process.

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Next, please. All proposal to this salutation have same deadline.

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December sixteenth, 2,022.

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We expect the review process to take place in early 2,023, and anticipate making an honest amount of award in spring or summer, of 2,023, based on the availability of fund next please

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So I actually go go back to Baron. You can take over.

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Thank you very much. Jay. So this continue the presentation part of this webinar.

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We want to thank you for your attention. I don't apologize for the technical issues.

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But at this point what we will ask you to do is to post any questions that you might have to the Q. A.

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Feature on zoom, and of course you can continue sending us questions that you might have after the webinar as well.

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To the this email Csi queries at Nsf Dot Gov: And we will respond to those

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Accordingly. Again, I want to remind everyone that all Csi proposals have to you.

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December sixteenth, and this year, and for more information, please.

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Visit the solicitation page. Then you'll find all the details that we have discussed during the present.

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I also want to note that people send out a panelist survey in early December, because we also need your help in reviewing many of these proposals during our panels.

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So please look out for the panel and the survey, and we hope that you can all join us for some of those panels and help us with reviewing this proposal.

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So this will be done on December, so the Panelists will be out December one, and again the the the proposal deadline for all classes is December, 1622.

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So with that we'll we'll now move to the Q.

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A session, and I also want to note that when you receive these slides by coming Monday, you will see that we have also included some of the common frequently asked questions as part of these part of the slide deck so

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you can refer to those as well. if there are questions aligned with these.

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But now I will will start monitoring the Q. A.

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Feature and start answering the questions that you might have

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So I would just start from the top so there's a question about

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I may have missed the definition of when the Ci Project will be considered too new.

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So i'm guessing this is connected to the to my earlier comment about the fact that this program does not miss.

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Research into Cr: Right? So what we are looking for our proposal goes there what you're proposing is, in a way there for the for the target signs.

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And in Internet domain. right? So if you say that i'm i'm building this software that will be used to to solve these kind of problems in this particular setting doing, then we want to see why is it innovative, is there anything else that

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can be used for the same kind of work. But is this something that will be your

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What will any of you like? But if you end but things that we do not fund our activities where you include efforts of creating new methods to do that kind of which would go into the into your side infrastructure So it would

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be software. it could be data, But we do not expect we do not fund activities that go into building. the the you know the the methods and the methodological research that goes into that would eventually get translated into the software.

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So I go, move to the next question, and feel free to follow up. if you have any, Follow up questions, though, or any of our answers.

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So there's a question that i'm gonna answer line it's regarding prior support.

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So is this information provided to viewers? and if so, how are viewers instructed to use this information

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So then, you good you and it's a proposal together.

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There's a section there require section about prior and a self support, and this is where you list.

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What relevant projects have you been Api or Api on?

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And and you also list what what have been the outcomes of that particular project?

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So this will be part of the proposal so the part of the between pages and the reviewers.

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Will. let's see this and the main reviewers look at this is, have we?

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They look at it in terms of you're tracking record in in in doing this kind of research, and if your prior support also includes a discussion or description of your and he passed Csi funded activities, then we Look Look

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at. Have you been able to? you know develop something that would be such that sustainable, that had has had an impact to the community.

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So things like that would also be, see a look for in in that section.

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So make sure that you include that when you prepare the price support such I'm gonna go to the next question.



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And this is okay, I think a shoot book is answering on So I'm gonna go to a question that's not being answered right now.

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So the question, it says, for the transition to sustainability. does the Ci have to be funded by Css sign the phone or is making an existing private ci public and building the community.

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Around it and eligible activity. So that's good question So, as we, as I noted earlier, we do not expect that for transition to sustainability, the target Ci

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Was funded through c aside, for it could be but not necessarily.

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And what we are looking for is that there's a need to first of all, to meet that sustainable. And then what are your plans?

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Where you would come up with the mechanism so that it could.

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Transition was sustainable. for

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Okay, let me go to the next question.

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We would support. oh, computer science, engineering, math arts and science and medical institutes.

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Since we are supporting this diverse group, it could be helpful to know this division program offices.

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We should reach out to Okay, So if you are not sure of which, you know what your target community would be, what I would suggest is sending a one page description of your proposal, a summary of your proposal to the

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Css like when you set an Sf dot email address, and then we can take a look at that and then forward your your description to any element program officer.

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So please go ahead and send it across

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So there's a question about can national labs or Federal government organizations, such as Nest join universities as a quote behind.

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And so, as as we mentioned in the solicitation, oh, other federal, legal, funded laboratories like doe labs or other similar labs are not eligible to quite a bit as a individuals from such

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organizations are not eligible to participate spi or copies.

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You can be part of it as a through a letter of collaboration.

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Right, but not part of the of the investigator team.

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So we go to take another question, which is can You give us information on how to write the close collaboration.

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I'm gonna stakeholders for example what partners will need including.

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So. So what we are looking for in Csi proposals, and I would also, request, if any other of my colleagues would like to answer any of these questions.

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Please. you can join in my take is that what we're looking for in a season.

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High proposal is that you have you're developing a cyber infrastructure with a target community, or added communities in one.

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Those are your stakeholders right? you could also have other collaborators depending on what kind of infrastructure you're developing.

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So you have to first clearly identify Google state one and then you have to spend how during the course of this project, you will maintain a close collaboration with with these stakeholders.

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So if you're, just going to list them But not talk to them at all for the for the 3 or 5 years of the project, and then at the end deliver something to them that does not up here as a very close collaboration

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right. What we expecting is more closer engagement between these different communities and the stakeholders right?

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And where you you are. taking it, the input from those stakeholders as well, while you develop your develop your ci as well as kind of other activities.

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And that is something that You would like to see and this I mean we don't advocate any one way of doing it.

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But this could this could be done in different ways. So we we, we look forward to your creative things of how you would.

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Okay.

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Okay, So I think J. is answering the next question so I'm gonna move to the next question.

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That's not being answered yet. there's a question about could you elaborate more about the loon capabilities.

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What criteria i'll apply to see if the capability is known.

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So i'm guessing this is connected to one of the solicitation criteria about building on known capabilities. right?

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So what we are expecting here is that you are not necessarily developing things from scratch.

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And you are leveraging some of the other Nsv investments, as well as other investments from other agencies.

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That has already been done, and that that's something that you can build on top of right, and that would make you know, make use of this existing capabilities.

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So, for example, like you're you're putting together out a software that you know, for the physics community.

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And you are also using some of the known Matt packages that have already been developed. right?

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So that would be making use of the normal capabilities But if you say, oh, i'm gonna develop everything from scratch.

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Then there needs to be a good justification for that.

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Otherwise it would seem like you are. you know, reinventing the view

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Okay, So there's a question here. It says the distinct the distinction between research into new Cr and development of New Ci is not creating.

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It seems like technical innovation and software that makes her the basis of new Ci is not in school.

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So follow up question is what's a good example of project activity that the program would like to fund.

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So again, as I said, you know, if if what you are proposing involves research into Ci.

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So, as you said, maybe you're developing a new programming. I don't know right, or working on a new method for training deep neural networks.

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So those are things that are not part of not funded through this program. right?

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So we have other programs at Nsl. for those kind of activities, including the Oec core program as well.

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But for Csi, what we expect is that the focus is on developing the the infrastructure, the software, or the data infrastructure.

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Whatever you are planning to do vit the target community in mind, and the technical innovation is in that aspect.

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So what we are looking for is a cyber infrastructure which is new for that kind of scientific effort. right?

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So maybe you're so again I could go back to a example in physics.

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So let's say you have you you are proposing a software that would enable

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You know, physicists to solve a certain problem, right? So the innovation would be if there is no other software that could solve the problem in the way that you are proposed. right.

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So it could be just that there's nothing out there to solve the problem. Or maybe it cannot be solved efficiently, or cannot be used very easily. Right?

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So the innovation lines there. but North in the in the underlying methods or through software development, fundamentals

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It's a question that I can answer live here which is is it possible to download the application?

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Template, so we can prepare everything before submission or before logging into research.

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Dot com. So for this, what I would suggest is for you to contact your sponsor, to search office at your organization, and they should be able to provide you with guidance here.

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But for for any instructions about what should go in the proposal, please?

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Read the station carefully, and also look at Patching.

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Got guys

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Okay? Is that another question here which is for Cssi sustainability track?

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Are you looking for sustainability? plans that need to technology, transfer to industry and profit driven entities and or more of a focus on sustainability?

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But not necessarily profit generating entities. So I wanted to see that is, from Nsf.

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We do not, provide any one way of doing this right.

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We expect the community to tell us what are the different ways that this could be done. So it could be a sustainability plan.

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Could involve technology transfer industry. It could be an open source model. right?

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So we don't necessarily advocate one over another. But we would like you to provide a case of why this would be the best way to do it right, and the focus here would be that the the target Ci would continue to be

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useful and impactful for the target science and engineering community. So as long as that is there the the the exact type of sustainability, model, good way

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This is one more question that I can take here, which is the development and maintenance of an open database state of bank of experimental data in a science field being scope of Csi.

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And the answer to that is, yes. so we do encourage, proposals that talk about development of databases or data banks with, you know, of course, all the other things. Still, or which is it should be in a

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way to it should be useful and impactful for the target community.

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And you know it. Sure, I mean the proposal should also satisfy the other criteria.

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But we do we end. I would at this point also.

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Encourage you to look at the past projects that have been funded out of this program.

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So if you go to the nsf awards, database, you can search for the past year aside funded activities, and you will see that we've also funded many of data related infrastructure product thanks

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to.

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Okay, So at this point I do not see any other open questions, but we still have time.

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So I would encourage you to ask any other questions that you might have through this Q.

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And a feature, and I would also, at this point invite any other of my colleagues to add anything that I might have missed

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So there's a question here that I can answer like can the target community.

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The academic communities. so i'm not sure if I understand it, or perfectly.

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But if you're referring to the target coming to you of the Ci that you're in, we're preparing, and if that would be useful for academic communities, I mean it would be great if you could send

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us a description that we can no more and comment on that.

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But we can all but at some level. Yes, as you might have seen in the in our the list of participating organizations.

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We also had division from from education and education, human resources, Vhr: And this is so.

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You, I would encourage you to look at the division of priorities that have been listed in the solid solicitation under that, and that might provide you some guidance.

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But again, if you have further questions about the alignment, please, I strongly encourage you to send us one pager, so that we can comment on that

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Okay, I think Richard is asking is answering one of the questions I'll move to the next one which is with the creation of tools and procedures to help it.

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Data management be in scope. So again the the Ci.

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That I can believe you are. The proposing here would be in scope with. but I would like to add that you also need to.

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Provide, What communities would that benefit? And so why that kind of tool or procedure would be an innovative Ci for that community.

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And how would you engage with that community and make sure that it's impactful?

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And so so yes, at one level. Yes, but again, it needs to be tied to to the science.



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Alright, I can answer one more question here. Do the target communities need to be in the research and educational fields?

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Or can they be for communities addressing real world publications and hazards?

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Mitigation, like state and local agencies. And the answer is, Yes, it is you.

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You could target communities that are working with the real world applications.

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And at this point maybe I could ask Mark, if you are there.

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If you could comment on, you know, things like, yeah, and the suitability of projects there by anyone else, go off.

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So the question is about Howards, and is it applicable?

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Is that Well, it may be I mean I would suggest if you, if you're gonna go down the route of hazards. and it depends on what kind of hazards you should just talk to the program managers

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you know what kind of Geo hazards are we really talking about here? right?

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So more into engineering. But it just depends on on what they're looking at as far as a geozoner.

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Just add to what Mark is saying, is there? do we?

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From that second. just this sciences division.

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We're generally interested in projects that that kind of benefit the scientific community.

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When you start getting into Geo. hazards.

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You know a lot of you you might be thinking about, you know, how to help Fema with, you know.

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Kind of a hurricane evacuation, or how to do various sorts of

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You know, life and property types of things, and I think you know, there really ought to be a focus on the scientific research. that Addresses Geo has is right.

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Thank you. So there is a another program called Smart and Connected communities.

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So that is more like public community that need some some kind infrastructure.

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So you know, cluster that program for your interest. And also, if I might add, this is rehearsal from Cmi.

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There is a program, I mean programming Cmi called Hazard Humans disasters in the built environment Hdbe, which my colleague, Don Liang wrongs which my will also be a venue for this kind of

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thing.

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Thank you. Yeah. So I think if I hope that that was useful, and if you still would like to see you know, like us to comment on the specific ideas that you might have, I would I mean I encourage you to send a

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one page to to us, and we can take a look at that.

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But, as as others pointed out, there are some other programs as well.

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So you, you can take a look at that, too.

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Okay, there's a question here the next year Csi, and set panels.

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We have virtually or in person, so I don't think that's not been made public yet.

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So we'll we'll hold off 100 still agent

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Alright. So the while I wait for any last minute questions.

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I just want to go through the Well, I won't go through this frequently.

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Ask questions, but just scan through these, so you please. when when you get access to these slides, feel free to.

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You know. Look at these questions. They have very useful information, including, you know, connections with some other programs that we we have.

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That might that you might find. you know what you are proposing.

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So again, so that's this will be available to you no later than Monday coming Monday, and then you can take it to the so it looks like we're not seeing any any more questions.

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So we can certainly bring the webinar to a close i'll give maybe another minute to see if someone is still typing a question.

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But while that's happening, I just wanna thank you for your time, and thank you for your questions again.

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We look forward to your queries, do the?

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And Csi \* is at an Sf.

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Dot web site. please, you know, send us any questions questions that you might have, or if you have an idea, you could put it into a one page, and it's ended up to us, and then what we will do is we will respond to

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It will also talk to other colleagues in other participating divisions to see if there's any alignment there, and can give you some feedback there.

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Just a reminder that all censorship proposals are due on September sixteenth, and and we will be sending out a panelist survey.

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I don't know december first and we would really appreciate.

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If you can, contribute to this program by serving as panelists.

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So if there are no other questions I I would bring this webinar to a close.

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I would again Finally: thank you all. Thank you to all my colleagues for participating in answering questions, and we look forward to your emails and your proposals.