

## WEBVTT

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00:00:01.920 --> 00:00:04.890

Joanna Shisler PIPP@nsf.gov: i'm fixing my screen right now just give me a couple seconds here.

2

00:00:23.910 --> 00:00:33.210

Joanna Shisler PIPP@nsf.gov: Alright, my name is Joanna Shisler and I am a program director at the National Science Foundation and i'm also a member of the PIPP working group.

3

00:00:33.810 --> 00:00:44.160

Joanna Shisler PIPP@nsf.gov: And I really want to thank you all for coming here today and I appreciate your participation, today we are really excited to bring you this new funding opportunity.

4

00:00:44.850 --> 00:01:05.280

Joanna Shisler PIPP@nsf.gov: And so the the layout for this next hour for this webinar is as follows, I have about 15 slides that I will present that tells you a little bit about the tip working group and then we'll talk about solicitation specific criteria, because this is such a unique solicitation.

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00:01:07.080 --> 00:01:22.590

Joanna Shisler PIPP@nsf.gov: We will open up the session to question and answers you have a question and answer panel and zoom where you can send questions and and we will then answer them to the best of our ability, the session is recorded.

6

00:01:23.850 --> 00:01:24.450

Joanna Shisler PIPP@nsf.gov: and

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00:01:25.710 --> 00:01:42.300

Joanna Shisler PIPP@nsf.gov: This will be on the PIPP site within a couple of days, we will also have a list of frequently asked questions that are going to be coming soon, and if you need further clarification you can always email us at pipp@nsf.gov.

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00:01:46.080 --> 00:01:48.600

Joanna Shisler PIPP@nsf.gov: And so what I'm going to do now is go to the next slide.

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00:02:02.880 --> 00:02:12.540

Joanna Shisler PIPP@nsf.gov: So I want to tell you a little bit about how our group got started so PIPP stands for predictive intelligence or pandemic prevention, we call it pipp.

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00:02:13.740 --> 00:02:23.430

Joanna Shisler PIPP@nsf.gov: You know it cannot be understated that prevention and early detection of disease are cornerstones of strategic investments in public health.

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00:02:24.000 --> 00:02:33.180

Joanna Shisler PIPP@nsf.gov: And in addition to public health, these are cornerstones for the resilience of other animals, including wildlife populations and agricultural animals.

12

00:02:33.570 --> 00:02:45.120

Joanna Shisler PIPP@nsf.gov: And in that of sustaining agricultural crops and other plants and what we know from recent past pandemics, is that there are costly consequences of not containing a pathogen.

13

00:02:45.750 --> 00:02:58.320

Joanna Shisler PIPP@nsf.gov: And that mitigation of outbreaks require multiple disciplines to collaborate, and so the NSF response to this has been to initiate predictive intelligence for pandemic prevention or PIPP.

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00:02:58.950 --> 00:03:10.800

Joanna Shisler PIPP@nsf.gov: As a way to seed and catalyze fundamental research to develop trans disciplinary capabilities needed to inform future infectious disease outbreaks.

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00:03:12.690 --> 00:03:28.380

Joanna Shisler PIPP@nsf.gov: And so I, what I want you to be aware of is that earlier this year there were four key PIPP workshops that brought together interdisciplinary experts in the biological engineering computer and social and behavioral.

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00:03:28.950 --> 00:03:44.850

Joanna Shisler PIPP@nsf.gov: sciences and the reason to have these workshops is to have scientists begin conversations and catalyze ideas on how to advanced scientific understanding beyond the state of the art and pre emergence and emergency forecasting.

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00:03:45.450 --> 00:03:54.180

Joanna Shisler PIPP@nsf.gov: in real time, monitoring and the detection of inflection point events to prevent and mitigate the occurrence of future pandemics.

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00:03:55.230 --> 00:04:04.350

Joanna Shisler PIPP@nsf.gov: And the link is is down below, you can see it here and, within that link you'll have external links to each one of these workshops and you will see.

19

00:04:05.010 --> 00:04:22.230

Joanna Shisler PIPP@nsf.gov: links to two agendas and to some of the talks and what I want you to realize, is it was sponsored by CISE, BIO, ENG, and SBE directorates and this was done so purposefully to start building collaborations.

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00:04:25.020 --> 00:04:39.690

Joanna Shisler PIPP@nsf.gov: And so what came out of that was this key key initiative, and this is an initiative that focuses on fundamental research in biological sciences, social sciences, computer and information sciences and engineering.

21

00:04:40.230 --> 00:05:00.690

Joanna Shisler PIPP@nsf.gov: And it's a fundamental research that is needed to tackle grand challenges related to the prediction and prevention of pandemics and so there's two phases to this phase one is a solicitation for planning grants and that's going to be discussed here and there's also a phase two.

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00:05:01.980 --> 00:05:12.090

Joanna Shisler PIPP@nsf.gov: And phase two, NSF is anticipating releasing a phase two Center grant solicitation and that's going to be around 2023.

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00:05:12.450 --> 00:05:22.080

Joanna Shisler PIPP@nsf.gov: we're not going to discuss that here today, but what I want you to note and i'll say this again later, is that you do not have to submit to this phase one.

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00:05:22.650 --> 00:05:43.920

Joanna Shisler PIPP@nsf.gov: or be funded by this phase one funding announcement to participate in this anticipated phase two Center grant so really the whole goal of this phase one solicitation is to help you get groups established so that you can submit competitive grants for phase 2 Center grants solicitation.

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00:05:47.250 --> 00:05:59.580

Joanna Shisler PIPP@nsf.gov: So, as I said, what we're interested in looking at our grand challenges well, so you probably want to know, or what are some examples of grand challenges and we listed for them and and these four.

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00:06:00.390 --> 00:06:11.790

Joanna Shisler PIPP@nsf.gov: Were from the workshops that were held earlier this year, and these are just examples they're not intended to be limiting they're just intended to spark you thinking about.

27

00:06:12.660 --> 00:06:25.170

Joanna Shisler PIPP@nsf.gov: predicting pandemics and where we're thinking about things so, for example, a grand challenge could be pre emergent studies that predict rare events in multi skill, complex and dynamic system.

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00:06:27.150 --> 00:06:41.160

Joanna Shisler PIPP@nsf.gov: and other grand challenge could be developing technological innovations in sensing and data collection that allow you to sense or collect data in people or in wild animals for predictive intelligence.

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00:06:42.870 --> 00:06:59.640

Joanna Shisler PIPP@nsf.gov: Another grand challenge is exploring the interdependence of biological and behavioral mechanisms across scales from the molecular to the global so that can be understanding how humans and animal and other animals or even different animals.

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00:07:00.720 --> 00:07:03.930

Joanna Shisler PIPP@nsf.gov: have an action and reaction effect.

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00:07:05.100 --> 00:07:16.440

Joanna Shisler PIPP@nsf.gov: And then, a final example is the relationship between human behavior and disease, development and transmission in either the natural or built environment or in communities.

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00:07:17.640 --> 00:07:23.850

Joanna Shisler PIPP@nsf.gov: So once again these slides will be made available to you this isn't an end all be all these are just examples.

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00:07:26.670 --> 00:07:36.870

Joanna Shisler PIPP@nsf.gov: So the next thing that I want to talk to you about for the next two slides are what are the key characteristics that we think will make the competitive proposal.

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00:07:37.470 --> 00:07:46.020

Joanna Shisler PIPP@nsf.gov: And the first is explicitly stating what a scientific grand challenges, and we want it to be ambitious and forward looking.

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00:07:46.530 --> 00:07:59.430

Joanna Shisler PIPP@nsf.gov: And this should be a grand challenge program a problem that's motivated by PI keep up with a clear justification for the choice of the problem with respect to a future pandemic landscape.

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00:08:00.180 --> 00:08:11.970

Joanna Shisler PIPP@nsf.gov: So this grand challenge to be centered around a critical and broad question and pandemic predictive intelligence and should be poised for breakthroughs by collaboration across disciplines.

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00:08:13.440 --> 00:08:27.270

Joanna Shisler PIPP@nsf.gov: Another key characteristic is going to be a high level view of the project, so a description of how the identified sub projects and other pieces fit that grand challenge that was selected for the project.

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00:08:27.690 --> 00:08:37.830

Joanna Shisler PIPP@nsf.gov: What we're looking for is something that gives us a bird's eye view of the Center scale project that's visioned and I think the visual description is is often helpful.

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00:08:39.540 --> 00:08:50.310

Joanna Shisler PIPP@nsf.gov: Another characteristic we're looking for is a research agenda, and this can be for one or more targeted projects that include a range of objectives and research approaches.

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00:08:50.670 --> 00:09:09.000

Joanna Shisler PIPP@nsf.gov: That are clearly integrated under that coordinated vision of the grand challenge so we're not encouraging proposals in which their specialized research group but they're all in there all pursuing independent projects that somehow aren't going back under that grand challenge umbrella.

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00:09:10.080 --> 00:09:17.250

Joanna Shisler PIPP@nsf.gov: We want these research approaches for some projects to be innovative, with potential to dance the involved disciplines.

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00:09:18.330 --> 00:09:20.880

Joanna Shisler PIPP@nsf.gov: And there's a couple more characteristics here.

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00:09:22.530 --> 00:09:32.490

Joanna Shisler PIPP@nsf.gov: Another characteristic is the team itself a competitive proposal will have a diverse multi disciplinary and potentially multi organizational team.

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00:09:33.510 --> 00:09:41.010

Joanna Shisler PIPP@nsf.gov: There should be evidence of a collaborative culture that values and benefits from these shared research and interdisciplinary training.

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00:09:42.150 --> 00:09:57.090

Joanna Shisler PIPP@nsf.gov: The team should be designed to achieve the goals of the grand challenge and to demonstrate commitment to diversity and inclusion in composition and leadership we expect the budgets will be commensurate with the project role and goals.

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00:09:58.530 --> 00:10:06.570

Joanna Shisler PIPP@nsf.gov: We also expect that a competitive proposal will have the role of each team Member to be clearly described a justified.

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00:10:07.140 --> 00:10:16.770

Joanna Shisler PIPP@nsf.gov: And also, just so you know these team members may be from a single organization or multiple organizations and i'm sure that'll be some of the questions that you all have for us today.

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00:10:17.760 --> 00:10:29.280

Joanna Shisler PIPP@nsf.gov: And then, finally, a key characteristic is a discussion about a plan for scaling to Center opportunities so we're looking for activities that outline.

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00:10:29.700 --> 00:10:37.350

Joanna Shisler PIPP@nsf.gov: develop that outline how they're going to develop communities and capacity for a full Center operation through a diverse activities.

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00:10:37.800 --> 00:10:47.430

Joanna Shisler PIPP@nsf.gov: Such as visioning workshops, education and training to overcome disciplinary boundaries development of partnerships and engagement of stakeholders.

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00:10:48.060 --> 00:11:00.180

Joanna Shisler PIPP@nsf.gov: So, once again, if we go back to this other slide you know we're looking at key characteristics for competitive proposal that has this ambitious and forward looking scientific grand challenge.

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00:11:00.750 --> 00:11:13.440

Joanna Shisler PIPP@nsf.gov: A high level view of the project that shows how all of the sub projects underneath this goes back to that grand challenge a research agenda that also includes.

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00:11:14.910 --> 00:11:25.740

Joanna Shisler PIPP@nsf.gov: The the range of objectives and the research and how that goes back to the grand challenge a team that's diverse and multi disciplinary can be multi organizational.

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00:11:26.220 --> 00:11:33.600

Joanna Shisler PIPP@nsf.gov: And then, a plan for scaling to Center operations and so those are things that are key characteristics of a competitive proposal.

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00:11:37.320 --> 00:11:46.560

Joanna Shisler PIPP@nsf.gov: There are also some things you know, so this is a planning grant that's new and and it could have potentially transformative capabilities.

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00:11:47.220 --> 00:12:01.800

Joanna Shisler PIPP@nsf.gov: What we want you to understand is that this is not simply a funding opportunity that can be an extension for research projects on infectious diseases that can be submitted to an existing core.

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00:12:02.130 --> 00:12:12.600

Joanna Shisler PIPP@nsf.gov: or special programs in single directorates or divisions across nsf there are four directorates here that are a part of PIPP.

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00:12:13.200 --> 00:12:24.870

Joanna Shisler PIPP@nsf.gov: And so proposal should span research across bio the CISE Directorate the engineering director and SPE directorates and also be compelling.

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00:12:25.620 --> 00:12:40.380

Joanna Shisler PIPP@nsf.gov: Across the sub discipline span so specifically proposal submitted in response to this applet in this solicitation should address critical problems relating to predictive intelligence for pandemic prevention.

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00:12:40.830 --> 00:12:56.070

Joanna Shisler PIPP@nsf.gov: And they also must integrate a combination of innovative biological computational engine nearing and systems level techniques or tools so we're really looking for something that is integrated and that is a larger scale Program.

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00:12:56.490 --> 00:13:11.850

Joanna Shisler PIPP@nsf.gov: And in addition, there should be intellectual merit and broader impacts that are commensurate with the size of award and so we're looking for these multi disciplinary teams and a convergence research approach that's focusing on cam dimmick prevention.

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00:13:15.480 --> 00:13:26.490

Joanna Shisler PIPP@nsf.gov: So sometimes it helps to also see what kinds of investigations would be outside of the scope of this PIPP announcement, and that includes the following.

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00:13:28.020 --> 00:13:33.360

Joanna Shisler PIPP@nsf.gov: projects that are limited to specialized research groups that are pursuing independent

projects.

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00:13:34.080 --> 00:13:51.420

Joanna Shisler PIPP@nsf.gov: Where there's no clear vision for how these go back to the grand challenge, so this isn't something that that this is something that would be outside of the PIPP announcement also projects that not do not identify an overarching grand challenge problem that's motivated by PIPP.

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00:13:52.770 --> 00:14:08.700

Joanna Shisler PIPP@nsf.gov: projects and do not engage teams with balanced participation from computer information sciences biology engineering and social behavior and economic sciences as relevant to the identified grand challenge would be outside of the scope.

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00:14:09.690 --> 00:14:27.870

Joanna Shisler PIPP@nsf.gov: projects that fail to delineate the role and expertise of the participants would also fall outside of the scope or projects that do not discuss associated risks and mitigation plans, so this is a good list of things to make sure you do not do.

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00:14:31.320 --> 00:14:37.860

Joanna Shisler PIPP@nsf.gov: So I just want to remind you that there are four directorates that are part of the solicitation.

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00:14:38.520 --> 00:14:49.740

Joanna Shisler PIPP@nsf.gov: they're listed here biological sciences computer and information science and engineering engineering and social and behavioral and economic sciences.

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00:14:50.160 --> 00:15:03.750

Joanna Shisler PIPP@nsf.gov: And we put this out on a separate slide to really emphasize that that we are asking for proposals that are taking this multi disciplinary approach at handling pandemic prevention.

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00:15:07.560 --> 00:15:17.130

Joanna Shisler PIPP@nsf.gov: So there are a couple of nuts and bolts things that I want you to know about the solicitation that you can see the solicitation in detail for more instructions.

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00:15:17.760 --> 00:15:31.470

Joanna Shisler PIPP@nsf.gov: Remember, this is a planning grant so you'll want to identify your grand challenge you'll want to identify the fundamental research and show how it's multi disciplinary and integrated research and education, these are 18 month grants.

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00:15:32.490 --> 00:15:37.950

Joanna Shisler PIPP@nsf.gov: We are asking you, we expect no more than a million dollars per project.

73

00:15:39.030 --> 00:15:52.620

Joanna Shisler PIPP@nsf.gov: The expectation is that awarding of this planning grant would put you in a good position to submit a phase two proposal a Center scale proposal.

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00:15:53.490 --> 00:16:04.590

Joanna Shisler PIPP@nsf.gov: But remember you do not have to submit a phase one proposal or have a phase one proposal recommend awarded to compete in the phase 2 Center scale proposal.

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00:16:05.880 --> 00:16:16.800

Joanna Shisler PIPP@nsf.gov: When you submit this proposal for phase one make sure that the title of your proposal begins with PIPP phase one, followed by a colon and then the title of the project.

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00:16:17.670 --> 00:16:33.690

Joanna Shisler PIPP@nsf.gov: Please be aware, this is one of the more important things here a person can be a PI or co-PI on only one proposal, so please make sure that you are not accidentally having yourself as a coPI more than one proposal.

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00:16:34.770 --> 00:16:55.620

Joanna Shisler PIPP@nsf.gov: And last after submission of your proposal, you are not done, we want you to send an email to PIPP@nsf.gov with a single Microsoft PowerPoint slide summarizing the vision of your PIPP planning grant proposal, so please don't forget that extra step.

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00:16:58.380 --> 00:17:09.540

Joanna Shisler PIPP@nsf.gov: So i'm sure you guys are all interested in the timeline here, we probably should have said this to begin with the proposals will be due back on October 1 2021 5pm local time.

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00:17:10.230 --> 00:17:22.260

Joanna Shisler PIPP@nsf.gov: The most important thing here for you to know is, is that, even if you have multiple institutions we want it to come in as one proposal with sub awards.

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00:17:22.800 --> 00:17:44.190

Joanna Shisler PIPP@nsf.gov: Right, so you cannot do a collaborative proposal with multiple institutions and have multiple proposals within one project we want one proposal with sub awards, if you have questions you can email us no letter of intent is required, and we aim to make awards, by the end of March 2022.

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00:17:49.740 --> 00:18:02.790

Joanna Shisler PIPP@nsf.gov: When we talk about merit review criteria what we're trying to show here is how these proposals will be reviewed, of course, we have the intellectual merit and broader impacts that.

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00:18:03.420 --> 00:18:16.950

Joanna Shisler PIPP@nsf.gov: Review criteria that nsf is well known for. There will also be solicitation specific criteria and here are the questions how well does the proposed project aggressive the grand challenge.

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00:18:18.000 --> 00:18:26.640

Joanna Shisler PIPP@nsf.gov: Does the proposal bring together complimentary expertise, does it build on leading edge research across multiple disciplines.



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00:18:27.120 --> 00:18:41.400

Joanna Shisler PIPP@nsf.gov: As it connecting contribute to a broader intellectual context of work, and does it develop synergistic links to relate to related efforts, as appropriate, so those are the types of questions that will be asking the panelists to look for.

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00:18:42.420 --> 00:18:58.560

Joanna Shisler PIPP@nsf.gov: will also be asking if the project management plan addresses all the required elements you'll be asked for a project management plan for the mission see the solicitation for detail proposals without a project management plan will be returned without review.

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00:18:59.730 --> 00:19:09.600

Joanna Shisler PIPP@nsf.gov: And just so that you know we will have reviewers that included educational and social science experts to complement the text technical expertise as well.

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00:19:12.930 --> 00:19:18.690

Joanna Shisler PIPP@nsf.gov: And this is also listed in the solicitation just know that there are some conditions of award.

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00:19:19.410 --> 00:19:28.500

Joanna Shisler PIPP@nsf.gov: If you're awarded a phase one planning grant one or more of your project representatives must attend to meetings during the active award period.

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00:19:29.340 --> 00:19:34.320

Joanna Shisler PIPP@nsf.gov: The first one, will be a virtual kickoff meeting during the early phase of the award.

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00:19:34.950 --> 00:19:51.000

Joanna Shisler PIPP@nsf.gov: And the second meeting will be at the end of month 15 and that will be held in Washington DC area if that's possible or virtually otherwise, and the proposal budgets must include appropriate amounts for travel to these meetings.

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00:19:52.920 --> 00:20:02.700

Joanna Shisler PIPP@nsf.gov: And this is just my last slide here so remember that we have a funding opportunity page with links to the solicitations and announcements and it's shown here.

92

00:20:03.390 --> 00:20:13.440

Joanna Shisler PIPP@nsf.gov: This will also be the same page, where we have the recording of this webinar where we have a list of frequently asked questions and where we.

93

00:20:14.100 --> 00:20:30.660

Joanna Shisler PIPP@nsf.gov: also have other communications, if you have questions about the solicitation or you want to send a one page prospectus to us, please use the following email that's PIPP@nsf.gov.

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00:20:31.710 --> 00:20:45.030

Joanna Shisler PIPP@nsf.gov: Of course, as program directors, you can you can look us up and you can find our individual email addresses we're asking you to use this PIPP email address, so that we can keep track and make sure that we're responding to you in a timely manner.

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00:20:46.590 --> 00:20:55.860

Joanna Shisler PIPP@nsf.gov: Recording and the transcript of the webinar and the slides will be accessible will have an FAQ that will be published soon after the seminar on our website.

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00:20:56.820 --> 00:21:08.640

Joanna Shisler PIPP@nsf.gov: And that's just an introduction to this announcement, so what i'm going to do is stop sharing my screen i'm going to thank you for your attention and we're going to start answering some questions.

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00:21:15.480 --> 00:21:16.800

Scott Acton PIPP@nsf.gov: Thank you so much Joanna.

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00:21:17.130 --> 00:21:18.210

Joanna Shisler PIPP@nsf.gov: yeah you're welcome.

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00:21:20.580 --> 00:21:23.430

Joanna Shisler PIPP@nsf.gov: Scott, do you have a couple of questions that are coming in.

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00:21:23.820 --> 00:21:32.670

Scott Acton PIPP@nsf.gov: I do, I do um hi everyone i'm Scott Acton and I gonna ask Joanna question to lead off here.

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00:21:34.170 --> 00:21:48.720

Scott Acton PIPP@nsf.gov: Is it required in the PIPP phase one that the envision Center be multi organizational and how important is this and how many organizations should be involved in the Center.

102

00:21:49.320 --> 00:21:57.570

Joanna Shisler PIPP@nsf.gov: yeah that's a great question, so this program actually encourages multi organizational efforts it's not required.

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00:21:58.320 --> 00:22:07.920

Joanna Shisler PIPP@nsf.gov: But the team should be designed to achieve the goals of the grand challenge, and if that means you need 10 organizations or seven organizations, then that's that's perfectly fine.

104

00:22:08.280 --> 00:22:27.180

Joanna Shisler PIPP@nsf.gov: Make sure that you're demonstrating commitment to diversity inclusion in composition and leadership and that you have a plan to show that there's going to be trans disciplinary training and education, and I should say, of course, one of the questions will be and i'll stop there.

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00:22:30.090 --> 00:22:40.470

Joanna Shisler PIPP@nsf.gov: Another question I see Scott actually i'll turn around and ask this to you um do all for nsf

directors, need to be represented in the team Scott, do you want to say something to that.

106

00:22:40.710 --> 00:22:49.830

Scott Acton PIPP@nsf.gov: I do in and i'll say Joanna that three or four people in the Q and A asked this the same question, so it must be an important question.

107

00:22:49.950 --> 00:22:56.700

Scott Acton PIPP@nsf.gov: yeah, so I would beg the Community to think first about the grand challenge and to calling the GC.

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00:22:57.210 --> 00:23:08.700

Scott Acton PIPP@nsf.gov: So think first about your grand challenge and your problem, and as such the proposals are encouraged to integrate across the four directorates mentioned file.

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00:23:09.150 --> 00:23:15.960

Scott Acton PIPP@nsf.gov: CISE, which is computer information science and engineering, engineering, BIO and SBE which is social behavioral.

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00:23:16.380 --> 00:23:29.430

Scott Acton PIPP@nsf.gov: Economics sciences so we're encouraging the idea to certainly span integrate across those four broad areas and to be compelling across those sub disciplines span.

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00:23:30.390 --> 00:23:36.210

Scott Acton PIPP@nsf.gov: If i'm a project we're not to engage the four areas.

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00:23:37.050 --> 00:23:55.560

Scott Acton PIPP@nsf.gov: with adequate of participation, to address the grand challenge that could be a problem, so we're encouraging the teams to consider a multiple multitude of disciplines spanning from computer and information science biology engineering social behavioral and economic sciences.

113

00:23:57.600 --> 00:23:59.370

Joanna Shisler PIPP@nsf.gov: Okay, great thanks.

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00:24:00.480 --> 00:24:02.910

Scott Acton PIPP@nsf.gov: And i've got one for you Joanna.

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00:24:03.930 --> 00:24:16.080

Scott Acton PIPP@nsf.gov: um but sort of an interesting question about going between phase one and phase two can these teams that are doing the development grants and phase one.

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00:24:16.980 --> 00:24:30.930

Scott Acton PIPP@nsf.gov: On these teams that include coPIs and PIs can folks add to them after the development grant is submitted, and possibly after a development development grant actually funded.

117

00:24:31.320 --> 00:24:42.390

Joanna Shisler PIPP@nsf.gov: yeah yeah yeah we get asked that question yeah that's that's that's a really great question so of course you can add or remove PIs.

118

00:24:43.440 --> 00:24:53.250

Joanna Shisler PIPP@nsf.gov: After the development grant has been submitted and funded, I mean one of the reasons for this development grant is because you have an idea, but that you may know that you need certain.

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00:24:53.700 --> 00:25:03.810

Joanna Shisler PIPP@nsf.gov: Certain expertise in certain areas that you don't have and that can be one of your goals and so of course filling gaps and expertise is is encouraged.

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00:25:04.620 --> 00:25:16.830

Joanna Shisler PIPP@nsf.gov: You know, in a similar manner, you may realize that the original scientific direction that you had isn't quite where you want it to go, you have a new direction now and that's that's fine if you need to remove people to.

121

00:25:20.670 --> 00:25:29.100

Joanna Shisler PIPP@nsf.gov: Okay, so another question for you Scott is the focus of the PIPP phase one program on the covid pandemic?

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00:25:31.740 --> 00:25:50.040

Scott Acton PIPP@nsf.gov: it's about a fair question I would say that pandemic certainly can occur in humans, animals, plants were encouraging research down each of these avenues the PIPP phase one.

123

00:25:51.060 --> 00:25:55.230

Scott Acton PIPP@nsf.gov: On can certainly cover any of these areas, but is not limited to covid.

124

00:25:56.520 --> 00:26:15.330

Scott Acton PIPP@nsf.gov: And so I would encourage the researchers that are listening and perhaps researchers that are going to put forth proposals do October one to focus on the future and and and to take a broad vision arm of the future, which would include.

125

00:26:16.530 --> 00:26:19.170

Scott Acton PIPP@nsf.gov: A broad vision of pandemics yeah.

126

00:26:19.260 --> 00:26:21.690

Joanna Shisler PIPP@nsf.gov: that's good advice good advice.

127

00:26:22.860 --> 00:26:26.010

Scott Acton PIPP@nsf.gov: One more, this is a tough one job and i'm going to give you a tough question.

128

00:26:27.600 --> 00:26:34.920

Scott Acton PIPP@nsf.gov: You mentioned grand challenge several times, what is the grand challenge constitute a grand challenge.

129

00:26:35.520 --> 00:26:43.110

Joanna Shisler PIPP@nsf.gov: yeah so that that's a struggle for a lot of people, so we define it as or the way I think about it is it's an ambitious.

130

00:26:43.950 --> 00:26:50.430

Joanna Shisler PIPP@nsf.gov: it's difficult but achievable goal with important invaluable impacts when it's achieved.

131

00:26:50.970 --> 00:27:02.100

Joanna Shisler PIPP@nsf.gov: So it's it's something that's going to require coordinated strategies between different team members and also integrated collaborations from multiple disciplines.

132

00:27:02.730 --> 00:27:12.420

Joanna Shisler PIPP@nsf.gov: And and it's this idea that at the end of the day, you're going to have outcomes that have a larger impact than if people were just working independently alone.

133

00:27:13.320 --> 00:27:23.430

Joanna Shisler PIPP@nsf.gov: And remember, on the slides I gave examples of what some grand challenges are but those are not meant to be limiting Those are just to start spring discussion.

134

00:27:26.460 --> 00:27:45.750

Joanna Shisler PIPP@nsf.gov: And let me look oh yeah here's a really good question that somebody asked our team is focusing not on pandemic prevention, but on the prevention of other disasters such as energy shortage natural disasters food supplies is this permissible for this planning grant or for PIPP.

135

00:27:47.880 --> 00:27:51.270

Scott Acton PIPP@nsf.gov: or join a wide was simple and clear answer to this, one which is no.

136

00:27:52.080 --> 00:28:12.150

Scott Acton PIPP@nsf.gov: i'm the PIPP program the PIPP program excuse me, is focused on pandemic prevention, with a particular focus on those caused by disease, causing organisms So although energy shortage natural disasters food distribution and supply are really important they aren't the focus of this program.

137

00:28:13.980 --> 00:28:14.250

Joanna Shisler PIPP@nsf.gov: Okay.

138

00:28:16.110 --> 00:28:16.680

Joanna Shisler PIPP@nsf.gov: And I want to.

139

00:28:16.740 --> 00:28:32.160

Scott Acton PIPP@nsf.gov: Introduce on Joanna another member of our team meet her best Sue and asked me if she's seen any questions, possibly questions that have answers that that she wants to bring forward.

140

00:28:33.990 --> 00:28:36.690

Mitra Basu PIPP@nsf.gov: Well i'm looking through them right now.

141

00:28:38.190 --> 00:28:41.580

Mitra Basu PIPP@nsf.gov: So as soon as I see something i'll bring it up, but.

142

00:28:42.600 --> 00:28:55.500

Mitra Basu PIPP@nsf.gov: One question a lot that can be you, and they have participation from to develop expertise kind of engineering that asked for examples ENG and CISE.

143

00:28:56.610 --> 00:28:59.430

Mitra Basu PIPP@nsf.gov: Will that disqualify them to apply.

144

00:29:01.890 --> 00:29:04.770

Mitra Basu PIPP@nsf.gov: For do they need all four directorates.

145

00:29:04.860 --> 00:29:23.580

Joanna Shisler PIPP@nsf.gov: Right, so I think the intention of the PIPP working group is is to start breaking down those silos and to really build trans disciplinary interactions and research across these four directorates so.

146

00:29:24.750 --> 00:29:34.650

Joanna Shisler PIPP@nsf.gov: You know, I think that proposals that do this will are probably those that are really responding to the spirit of this solicitation the best.

147

00:29:36.720 --> 00:29:39.120

Joanna Shisler PIPP@nsf.gov: Scott, do you have any other follow up nuggets.

148

00:29:40.200 --> 00:29:41.820

Joanna Shisler PIPP@nsf.gov: of wisdom for that.

149

00:29:43.320 --> 00:29:52.050

Scott Acton PIPP@nsf.gov: justin you know when I mentioned earlier, the Grand challenge is perhaps more important than the list of personnel, although the list of personnel is certainly important.

150

00:29:52.320 --> 00:29:58.920

Scott Acton PIPP@nsf.gov: So, think about a grand challenge we're encouraging you to think about a ground grand challenge that would have social behavioral or economic.

151

00:29:59.700 --> 00:30:17.010

Scott Acton PIPP@nsf.gov: implications that would have interest in computer science or engineering and certainly we're talking about pandemics, that would apply to something in the biological sciences so that's my encouragement to think about a problem that that would span the entire gamut.

152

00:30:18.540 --> 00:30:27.180

Joanna Shisler PIPP@nsf.gov: Okay, and I see a question here that says that all I'll go ahead and answer right now, does the grand challenge include areas in agriculture.

153

00:30:27.600 --> 00:30:41.400

Joanna Shisler PIPP@nsf.gov: Crop biosecurity spatial temporal analysis, etc, and the answer is is yes, you know, there are there are pandemics and epidemics in in animals and plants and so that would be perfectly acceptable.

154

00:30:45.330 --> 00:30:56.490

Scott Acton PIPP@nsf.gov: Another question that Dmitry answered in the Q amp a was regarding the number of these phase one grants that will be funded.

155

00:30:56.910 --> 00:31:14.070

Scott Acton PIPP@nsf.gov: And we are shooting for 25 to 30, as you can see in the solicitation and i'm going to post the websites, one more time in case someone joined late and wasn't able to see the chat and you can check that out on your own through the solicitation.

156

00:31:18.690 --> 00:31:20.280

Joanna Shisler PIPP@nsf.gov: And I yeah okay.

157

00:31:21.210 --> 00:31:26.190

Mitra Basu PIPP@nsf.gov: So there is a question which probably should be answer live.

158

00:31:28.110 --> 00:31:33.210

Mitra Basu PIPP@nsf.gov: And how does it planning grant differ from a research Center.

159

00:31:35.730 --> 00:31:45.150

Mitra Basu PIPP@nsf.gov: And shoot the proposal included preliminary results promise publications and other deliverables within a few months.

160

00:31:47.910 --> 00:31:53.310

Joanna Shisler PIPP@nsf.gov: yeah that's a great question me to do you want to give any thoughts i'm happy to give mine.

161

00:31:54.720 --> 00:31:55.380

Mitra Basu PIPP@nsf.gov: and

162

00:31:57.450 --> 00:31:58.440

Mitra Basu PIPP@nsf.gov: So.

163

00:31:59.700 --> 00:32:14.670

Mitra Basu PIPP@nsf.gov: As I think Scott and Joanna pointed out that you're looking for grants and problem right, so you need to think about the grand challenge problem around which you are going to build in a proposal our new activities.

164

00:32:17.280 --> 00:32:36.570

Mitra Basu PIPP@nsf.gov: And we are not asking you to solve the rental and problem at this point, but we are asking you to look at a small portion of it which fits into this bigger scheme and solve it on proposed solutions to that.

165

00:32:37.800 --> 00:32:49.230

Mitra Basu PIPP@nsf.gov: So that is how it differs from the Center scale lesson dustin is going to take a more holistic field from end to end this is not the 18 month.

166

00:32:50.280 --> 00:32:59.010

Mitra Basu PIPP@nsf.gov: This cannot be done 18 month preliminary results are helpful, of course, and.

167

00:33:00.120 --> 00:33:09.780

Mitra Basu PIPP@nsf.gov: applications are in a sentence his own body, though, a lot of complications, so I and dad Joanna and Scott can add to that.

168

00:33:10.740 --> 00:33:15.420

Joanna Shisler PIPP@nsf.gov: I I think you're right on the money, I think, of course, one of the things that.

169

00:33:15.960 --> 00:33:33.330

Joanna Shisler PIPP@nsf.gov: That this planning grant do is give you the opportunity to work together as teammates and that may lead to publications or past publications are always great evidence that there's already trans disciplinary research that's occurring and that's that's obviously seen as a positive.

170

00:33:36.780 --> 00:33:50.370

Scott Acton PIPP@nsf.gov: And there is some questions in the Q amp a regarding what types of organizations could apply and one such question was can a small business, be a KPI or a sub award.

171

00:33:50.940 --> 00:33:59.460

Scott Acton PIPP@nsf.gov: And the answer is certainly yes it's allowable for for profit organizations to be a sub awardee on the planning grant.

172

00:33:59.970 --> 00:34:19.380

Scott Acton PIPP@nsf.gov: And we're just going to point you to the PAPP website that I posted in the chat which is true for any nsf proposal you're going to want to consult the PAPG, excuse me and, and so the answer to that question is yes.

173

00:34:22.440 --> 00:34:35.370



Joanna Shisler PIPP@nsf.gov: I also see a lot of questions about budgets that perhaps we can kind of handle these on block and meter I might I might defer to you here, so is there a Max budget for phase one.

174

00:34:35.940 --> 00:34:43.530

Joanna Shisler PIPP@nsf.gov: Are there budgetary restrictions and other words can we include student in faculty salary or research or travel.

175

00:34:45.960 --> 00:34:55.200

Joanna Shisler PIPP@nsf.gov: or should it only be used for team and proposal development, and so, for at least for the first one, remember that that we're expecting.

176

00:34:55.590 --> 00:35:06.240

Joanna Shisler PIPP@nsf.gov: To have about 25 proposals funded with a pot of about 25 to \$30 million we want you to submit a proposal.

177

00:35:06.930 --> 00:35:22.890

Joanna Shisler PIPP@nsf.gov: And a budget for that proposal, the budget should be commensurate with the amount of work that you're proposing to do the guideline is that, as you saw on the slides was was that we're expecting around a million dollars per proposal.

178

00:35:27.960 --> 00:35:33.660

Mitra Basu PIPP@nsf.gov: And there are there are several questions also on the Center scale.

179

00:35:35.340 --> 00:35:43.440

Mitra Basu PIPP@nsf.gov: in phase two, I want to say at this point that we can like really comment on that because it is not yet.

180

00:35:44.580 --> 00:35:48.540

Mitra Basu PIPP@nsf.gov: solicitation has not been yet posted and.

181

00:35:49.560 --> 00:35:52.560

Mitra Basu PIPP@nsf.gov: We can recommend highly to send us going.

182

00:35:54.330 --> 00:35:55.530

Mitra Basu PIPP@nsf.gov: To the size of it.

183

00:35:56.940 --> 00:35:58.500

Mitra Basu PIPP@nsf.gov: You can only talk about the finish.

184

00:36:03.570 --> 00:36:13.620

Joanna Shisler PIPP@nsf.gov: I think there's some other questions about how we're defining PIs vs co-PIs vs senior personnel so.

185

00:36:14.970 --> 00:36:27.780

Joanna Shisler PIPP@nsf.gov: it's my understanding that the the cover page for nsf allows for one PI and then for coPIs and then any other so-PIs, you want to put on you'd have to put on his senior personnel.

186

00:36:28.320 --> 00:36:40.590

Joanna Shisler PIPP@nsf.gov: But, but any co-PIs that are as senior personnel would still be considered co-PIs that would be there one there one shot at a PIPP planning grant did I understand that right.

187

00:36:41.940 --> 00:36:42.930

Mitra Basu PIPP@nsf.gov: yeah yes.

188

00:36:43.110 --> 00:36:44.670

Joanna Shisler PIPP@nsf.gov: Okay, great great.

189

00:36:45.270 --> 00:36:54.900

Mitra Basu PIPP@nsf.gov: And then you can also add that you can be a PI only on a single right, you cannot be in multiple.

190

00:36:56.100 --> 00:36:56.430

Joanna Shisler PIPP@nsf.gov: Okay.

191

00:36:57.690 --> 00:36:58.020

Joanna Shisler PIPP@nsf.gov: All right.

192

00:37:02.370 --> 00:37:16.140

Joanna Shisler PIPP@nsf.gov: What other questions are you guys seeing can the budget exceed \$1 million if it's justified, we really like you to keep it at a million dollars, because we'd like to be able to have as many of these planning grants, as we can.

193

00:37:17.910 --> 00:37:27.330

Joanna Shisler PIPP@nsf.gov: If, for some reason you really think that that you need more funding, you know it might be best for you to email pipp@nsf.gov to talk through this.

194

00:37:30.720 --> 00:37:43.140

Scott Acton PIPP@nsf.gov: So one question I see Joanna in the Q and A that was asked a couple of different ways on is the focus on prediction is the focus on prevention.

195

00:37:44.190 --> 00:37:59.640

Scott Acton PIPP@nsf.gov: What is nsf looking for here in one of our program directors arm essentially answer this by saying that you know we welcome a multitude of perspectives and we're not we're not.

196

00:38:00.570 --> 00:38:16.290

Scott Acton PIPP@nsf.gov: prescribing a priori the science that you're going to do the conclusions that you're going to come to us we're just trying to put out a framework where we can see these multi disciplinary grand challenges addressed by the the broader community.

197

00:38:18.570 --> 00:38:21.900

Joanna Shisler PIPP@nsf.gov: I think that's a really nice way to answer it yeah.

198

00:38:24.870 --> 00:38:26.460

Joanna Shisler PIPP@nsf.gov: So i'm still seeing a lot of.

199

00:38:28.260 --> 00:38:38.880

Joanna Shisler PIPP@nsf.gov: Can investigators be involved as senior personnel and one more and more than one proposal, and the answer is is no because because of the the length limit for the cover page.

200

00:38:39.990 --> 00:38:50.340

Joanna Shisler PIPP@nsf.gov: co-PIs will have to be listed as senior personnel and if you have questions or confusion, because that can be confusing just email us at pipp@nsf.gov.

201

00:39:01.080 --> 00:39:03.210

Joanna Shisler PIPP@nsf.gov: What other kinds of questions are you.

202

00:39:04.470 --> 00:39:11.670

Joanna Shisler PIPP@nsf.gov: Are you seeing Scott can government agencies or labs partner with universities absolutely.

203

00:39:13.560 --> 00:39:30.390

Scott Acton PIPP@nsf.gov: and similarly can FF or DCS participate and, essentially, the answer is that they can in rare circumstances where they're justified on they cannot lead the effort if.

204

00:39:31.410 --> 00:39:38.370

Scott Acton PIPP@nsf.gov: And if you don't know what that acronym is and maybe that question doesn't apply to you, but I think think like the minor Corporation.

205

00:39:41.310 --> 00:39:52.740

Joanna Shisler PIPP@nsf.gov: Oh here's a really nice question, thank you for the presentation well, thank you for coming, is there any policy regarding predominantly undergraduate institutions or research and undergraduate institutions.

206

00:39:54.720 --> 00:40:09.120

Joanna Shisler PIPP@nsf.gov: So so me personally, I think that predicting pandemics intelligently is an amazing platform for undergraduate research, I would really hope that there are.

207

00:40:10.200 --> 00:40:15.570

Joanna Shisler PIPP@nsf.gov: predominantly undergraduate institutions that that submit.

208

00:40:16.710 --> 00:40:17.580

Joanna Shisler PIPP@nsf.gov: proposals.

209

00:40:22.830 --> 00:40:33.360

Scott Acton PIPP@nsf.gov: Another one that's come up is you know, are you all going to require a letter of intent and I believe the answer is no, we are not going to ask for letters of intent.

210

00:40:38.700 --> 00:40:39.270

Mitra Basu PIPP@nsf.gov: So.

211

00:40:39.570 --> 00:40:41.820

Mitra Basu PIPP@nsf.gov: Go ahead Okay, so there is.

212

00:40:43.110 --> 00:40:45.600

Mitra Basu PIPP@nsf.gov: A question they want to know the.

213

00:40:46.620 --> 00:40:47.460

Mitra Basu PIPP@nsf.gov: team.

214

00:40:48.690 --> 00:40:57.630

Mitra Basu PIPP@nsf.gov: Each character, but in the PIs and co-PIs yes, whether the lead PI will be a senior academic or.

215

00:41:01.260 --> 00:41:07.740

Mitra Basu PIPP@nsf.gov: If the quality is getting the assistant professors so that's the question so.

216

00:41:12.120 --> 00:41:13.050

Joanna Shisler PIPP@nsf.gov: So say that again.

217

00:41:15.690 --> 00:41:25.290

Mitra Basu PIPP@nsf.gov: So we have Okay, so they what they're asking is that the lead PI, does he does he have to be a senior academic.

218

00:41:26.220 --> 00:41:33.690

Mitra Basu PIPP@nsf.gov: Oh um and the company is that assistant professors with that you.

219

00:41:35.700 --> 00:41:44.910

Joanna Shisler PIPP@nsf.gov: know you know elite PI can be an assistant associate or full Professor that that's a great question thanks sorry I didn't understand that at first.

220

00:41:45.720 --> 00:42:04.080

Mitra Basu PIPP@nsf.gov: yeah so as as you keep up a grant silence from the back, you can set so you do pick that out of your team, without the expertise, you need, so we are not looking at the seniority of proportion, you of course looking at they they have some expertise.

221

00:42:05.130 --> 00:42:07.140

Mitra Basu PIPP@nsf.gov: expertise in that area.

222

00:42:08.580 --> 00:42:11.940

Mitra Basu PIPP@nsf.gov: Okay, not the rental first yeah.

223

00:42:12.000 --> 00:42:12.480

Joanna Shisler PIPP@nsf.gov: that's good.

224

00:42:13.500 --> 00:42:30.510

Scott Acton PIPP@nsf.gov: And I also see in the solicitation Mitra as your question team should be designed to achieve the goals of the grand challenge and to demonstrate commitment to diversity and inclusion in composition and leadership so that's the guidance, that the solicitation provides.

225

00:42:32.700 --> 00:42:41.310

Joanna Shisler PIPP@nsf.gov: And there's another question that's come up because remember I said hey if you have questions or you want to send us a one page perspective or prospectus.

226

00:42:42.420 --> 00:42:54.060

Joanna Shisler PIPP@nsf.gov: email us at pipp@nsf.gov so i'm expecting our email inbox will be flooded but somebody asked you a format for the prospectus how detailed would be appropriate, and I think you're.

227

00:42:54.390 --> 00:43:05.700

Joanna Shisler PIPP@nsf.gov: You know, you want to spend your time talking about that grand challenge, right up front why you think it's a grand challenge and and the areas.

228

00:43:06.690 --> 00:43:18.600

Joanna Shisler PIPP@nsf.gov: of research and broader impacts that you're going to that you're thinking about investigating to get back to that grand challenge, so all of that is in one page.

229

00:43:19.620 --> 00:43:21.810

Joanna Shisler PIPP@nsf.gov: Please don't use 7.5 font we'll die.

230

00:43:22.410 --> 00:43:22.740

yeah.

231

00:43:24.300 --> 00:43:41.130

Scott Acton PIPP@nsf.gov: Well i've got a great question that just came up for you to um is the goal of the PIPP phase one to solve a problem pandemic prevention a prediction or to establish support and teaming as a phase two Center.

232

00:43:41.880 --> 00:43:54.630

Joanna Shisler PIPP@nsf.gov: yeah that's a great question, so the phase one is really meant to set up the team to go forward to then develop a proposal that's going to be competitive, for phase two.

233

00:43:55.860 --> 00:44:09.180

Joanna Shisler PIPP@nsf.gov: So you know we realized that there are there are some collaborators who might not even need a planning grant because they've been working together for so long and and they have all of these networks and connections and they can do this without a planning grant.

234

00:44:09.870 --> 00:44:22.770

Joanna Shisler PIPP@nsf.gov: However, there may be other PIs, who are new to thinking about trans disciplinary research and this planning grant is is meant for them to be able to to start developing.

235

00:44:24.000 --> 00:44:28.980

Joanna Shisler PIPP@nsf.gov: Their ideas that they have about solving a grand challenge in PIPP.

236

00:44:30.510 --> 00:44:33.150

Mitra Basu PIPP@nsf.gov: Yes, for that move I back that.

237

00:44:35.100 --> 00:44:37.140

Mitra Basu PIPP@nsf.gov: So here is a research component.

238

00:44:38.310 --> 00:44:42.180

Mitra Basu PIPP@nsf.gov: Right, so the Clinton Foundation.

239

00:44:44.010 --> 00:45:02.850

Mitra Basu PIPP@nsf.gov: Are we are not asking you to solve that in a few months, we are asking you to make a small survey and solid, so that when you submit this case to it's writing to the pita pit that's so good easily such.

240

00:45:08.700 --> 00:45:12.720

Scott Acton PIPP@nsf.gov: Great um I have a couple ones for the biologists are.

241

00:45:13.860 --> 00:45:23.490

Scott Acton PIPP@nsf.gov: For one of our dollar just which is is the focus on viral disease or can others genetic diseases a serve as a proof of concept.

242

00:45:24.870 --> 00:45:47.850

Joanna Shisler PIPP@nsf.gov: that's a great question so um you know any any any micro that can cause a pandemic, whether that's animal plant humans that's that's would be appropriate for PIPP doesn't have to be viruses doesn't have to be Cisco V2 there's so much more out there.

243

00:45:50.730 --> 00:46:02.790

Scott Acton PIPP@nsf.gov: And um I see a question that I think I can even answer which is is does nsf and the next few months plan on facilitate the teaming facilitating teaming.

244

00:46:03.600 --> 00:46:15.270

Scott Acton PIPP@nsf.gov: And really our answer to that is that we help for workshops and i'm giving you the Web address for those materials from the for workshops, which I think are still relevant.

245

00:46:15.780 --> 00:46:34.350

Scott Acton PIPP@nsf.gov: Very much so i'm in one of the objectives of the workshops was to facilitate team at this point on, our position is when we're not going to get involved in marrying on groups for for this endeavor so So the answer at this point is no.

246

00:46:37.290 --> 00:46:52.350

Joanna Shisler PIPP@nsf.gov: I also say that there's questions about submissions from institutions, is there a limit on the submission from one institution, the answer's no so one institution could could have more than than one submission that's perfectly fine.

247

00:46:56.970 --> 00:47:08.910

Scott Acton PIPP@nsf.gov: And i'd also like to invite anyone on the nsf team that has seen something that i'm not seeing that's that's that should be articulated for the entire audience to to jump in if, if you like.

248

00:47:16.620 --> 00:47:18.810

Mitra Basu PIPP@nsf.gov: So that is a question um.

249

00:47:20.190 --> 00:47:21.690

Mitra Basu PIPP@nsf.gov: I hope.

250

00:47:23.070 --> 00:47:23.790

Mitra Basu PIPP@nsf.gov: i'm.

251

00:47:25.980 --> 00:47:47.400

Mitra Basu PIPP@nsf.gov: reads files, I assume that there is something that could be addressed by phase one and two and how many years do a summit is to meet you will be held, it will have all the event, and we know that we're about halfway.

252

00:47:48.510 --> 00:47:57.540

Mitra Basu PIPP@nsf.gov: Through Yes, our bodies, so we cannot comment yet on that please to walk his ones, of course, a few months.

253

00:47:58.800 --> 00:48:01.980

Mitra Basu PIPP@nsf.gov: But if you look at a typical Center.

254

00:48:03.720 --> 00:48:11.400

Mitra Basu PIPP@nsf.gov: Center, then it is usually anywhere between five to 10 years.

255

00:48:12.810 --> 00:48:13.110

Mitra Basu PIPP@nsf.gov: On.

256

00:48:14.580 --> 00:48:14.910

Mitra Basu PIPP@nsf.gov: A.

257

00:48:18.060 --> 00:48:18.600

Mitra Basu PIPP@nsf.gov: spot.

258

00:48:20.730 --> 00:48:21.990

Mitra Basu PIPP@nsf.gov: And they.

259

00:48:27.060 --> 00:48:28.830

Scott Acton PIPP@nsf.gov: Are find your script okay.

260

00:48:28.890 --> 00:48:34.740

Mitra Basu PIPP@nsf.gov: So, usually I think the skill that, in a certain light was awesome whoa.

261

00:48:45.990 --> 00:48:53.100

Mamadou Diallo NSF PIPP@nsf.gov: question about public health expertise and not to answer the typing but maybe you want to.

262

00:48:54.120 --> 00:49:07.080

Mamadou Diallo NSF PIPP@nsf.gov: Talk about it because the feedback from anonymous attendee was it's remarkable to still see that the most consistent feedback, I heard at the previous workshop the striking absence of public health expertise.

263

00:49:12.720 --> 00:49:15.150

Joanna Shisler PIPP@nsf.gov: Do you want to read the answer to that mama do.

264

00:49:15.930 --> 00:49:21.330

Mamadou Diallo NSF PIPP@nsf.gov: So the answer is not an Ikea was proposal should focus on identifying a grand challenge.

265

00:49:21.780 --> 00:49:32.040

Mamadou Diallo NSF PIPP@nsf.gov: and propose a solution approach the PIPP initiative focuses on fundamental research in biological science computer in information science and engineering.



266

00:49:32.490 --> 00:49:45.300

Mamadou Diallo NSF PIPP@nsf.gov: P, it would assemble the expertise needed to tackle the grand challenges which would not preclude the involvement of public health expertise bi should recognize, however, the emphasis.

267

00:49:45.900 --> 00:49:56.190

Mamadou Diallo NSF PIPP@nsf.gov: Is on fundamental research in the area, identify and that there are differences in the research funded by nsf as opposed to NIH.

268

00:49:57.660 --> 00:50:07.800

Mamadou Diallo NSF PIPP@nsf.gov: So, so if you have additional question about where nsf and NIH differ, please send us an email.

269

00:50:08.850 --> 00:50:10.920

Mamadou Diallo NSF PIPP@nsf.gov: will be IPP nsf dub golf.

270

00:50:15.270 --> 00:50:15.660

Joanna Shisler PIPP@nsf.gov: 10.

271

00:50:16.860 --> 00:50:30.240

Joanna Shisler PIPP@nsf.gov: there's another question about the slide that will be sent in so remember after you submit your proposal you'll need to submit a single PowerPoint summary slide doesn't need to be any particular formatting or content requirements.

272

00:50:31.380 --> 00:50:40.530

Joanna Shisler PIPP@nsf.gov: You know the whole idea is that it gives a summary of what your group, the Grand challenge that your group is is addressing and how you're doing that.

273

00:50:51.090 --> 00:50:59.550

Scott Acton PIPP@nsf.gov: Question maybe from maitre, are there any time restrictions in terms of the percentage for a ppi associated with this program.

274

00:51:01.980 --> 00:51:02.520

Mitra Basu PIPP@nsf.gov: Oh.

275

00:51:04.470 --> 00:51:17.100

Scott Acton PIPP@nsf.gov: Sure um if if there's a P, I have a phase one phase one development grant does that P, I have a minimum percentage or maximum percentage that he or she devotes to the project.

276

00:51:19.980 --> 00:51:23.970

Mitra Basu PIPP@nsf.gov: That has a problem that you pick and.

277

00:51:25.380 --> 00:51:26.070

Mitra Basu PIPP@nsf.gov: So.

278

00:51:27.870 --> 00:51:31.290

Mitra Basu PIPP@nsf.gov: One or maximum that we can specify.

279

00:51:32.760 --> 00:51:34.710

Mitra Basu PIPP@nsf.gov: It just depends on.

280

00:51:35.790 --> 00:51:38.070

Mitra Basu PIPP@nsf.gov: How much time, you need to be you.

281

00:51:39.180 --> 00:51:39.420

Mitra Basu PIPP@nsf.gov: that's.

282

00:51:48.180 --> 00:51:52.260

Scott Acton PIPP@nsf.gov: Great Another question is is workforce development, a part of this initiative.

283

00:51:57.210 --> 00:52:02.730

Joanna Shisler PIPP@nsf.gov: So, remember that you know there's there's a couple of things that are going on here.

284

00:52:03.030 --> 00:52:15.360

Joanna Shisler PIPP@nsf.gov: So this is, this is a proposal to nsf so we certainly expect you to to be addressing not only intellectual merits but also broader impacts and so, if one of your broader impacts is workforce development, of course.

285

00:52:16.500 --> 00:52:22.920

Joanna Shisler PIPP@nsf.gov: You know that's that's that's going to be important, the and and valued here.

286

00:52:24.030 --> 00:52:36.510

Joanna Shisler PIPP@nsf.gov: I think the other part of this, though, is that in workforce, one of the ways to develop a really strong workforce going forward is to have people who can think and work in different teams.

287

00:52:37.020 --> 00:52:48.930

Joanna Shisler PIPP@nsf.gov: and work with TEAM members, where they may not be all speaking the same language and so showing how you're going to develop your workforce over the planning brand is is going to be.

288

00:52:50.430 --> 00:53:00.840

Joanna Shisler PIPP@nsf.gov: it's going to be useful in you, being able to communicate, how you all, are working as a team to develop that next generation of stem leaders.

289

00:53:02.910 --> 00:53:12.150

Scott Acton PIPP@nsf.gov: well put and another question that surfaced is you know what about medical doctors physicians can they be co-PIs the PI certainly.

290

00:53:12.300 --> 00:53:13.410

Joanna Shisler PIPP@nsf.gov: Sure absolutely.

291

00:53:13.770 --> 00:53:15.660

Scott Acton PIPP@nsf.gov: No action yep.

292

00:53:16.560 --> 00:53:30.960

Joanna Shisler PIPP@nsf.gov: um is there a due date for a prospectus no um but you know these are do October 1, so I would strongly recommend you not turn it in on September 29 and expect us to be able to tell you something So the sooner the better.

293

00:53:31.530 --> 00:53:39.450

Joanna Shisler PIPP@nsf.gov: It gives it gives us time to respond to you gives you guys time to think about and in mature your ideas.

294

00:53:43.980 --> 00:53:44.790

Mitra Basu PIPP@nsf.gov: questions on whether.

295

00:53:46.410 --> 00:53:48.990

Mitra Basu PIPP@nsf.gov: The Members can view all from the same.

296

00:53:50.940 --> 00:53:51.300

Joanna Shisler PIPP@nsf.gov: yeah.

297

00:53:53.160 --> 00:54:09.390

Joanna Shisler PIPP@nsf.gov: So if you just happen to have an institution, where everything that you want and need is in one institution that's that's perfectly fine I would envision that that will probably be the minority of the proposals, but that we certainly will not hold that against you.

298

00:54:11.070 --> 00:54:21.780

Scott Acton PIPP@nsf.gov: So I have a question that I can't answer so maybe the rest of the team can um i've heard during the presentation that it's possible to send a one page.

299

00:54:22.890 --> 00:54:27.210

Scott Acton PIPP@nsf.gov: prospectus to the team is there a deadline for such.

300

00:54:29.730 --> 00:54:33.390

Joanna Shisler PIPP@nsf.gov: Okay, so Scott, I just answered that question, but I think you were scrolling.

301

00:54:36.060 --> 00:54:54.810

Joanna Shisler PIPP@nsf.gov: So there's no deadline, but if you want meaningful substantial feedback do not send it to

us September 28 or 29th The sooner, you can get your group together, think about it, and come up with a grand challenge and send it to us for feedback, the better everything's going to be for everybody.

302  
00:54:55.560 --> 00:54:57.000  
Scott Acton PIPP@nsf.gov: Your answer was even better, the second.

303  
00:54:57.000 --> 00:54:57.240  
Time.

304  
00:55:01.650 --> 00:55:05.400  
Joanna Shisler PIPP@nsf.gov: let's see what other kind of questions that we've been seeing here.

305  
00:55:07.890 --> 00:55:23.340  
Joanna Shisler PIPP@nsf.gov: there's opioid epidemic or substance abuse disorders count as a grand challenge, and the answer is no, what we're looking for because we're we're talking about pandemic prevention's we're really talking about disease, causing organisms here.

306  
00:55:25.860 --> 00:55:45.300  
Scott Acton PIPP@nsf.gov: Okay, what about um join a maitre a potential P is about the education component are is education, going to be part of the review will it be tied to the success of a phase one proposal can can you make any comment on that.

307  
00:55:47.040 --> 00:55:58.350  
Joanna Shisler PIPP@nsf.gov: So i'll just reiterate what I said, which is you know of course we're seeing PIs, who are going to to be trans disciplinary and working together.

308  
00:55:58.860 --> 00:56:11.430  
Joanna Shisler PIPP@nsf.gov: An expectation is that they will have trainees in their labs that would benefit from this trans disciplinary environment and that we would expect to see a vision in the planning grant.

309  
00:56:12.660 --> 00:56:24.030  
Joanna Shisler PIPP@nsf.gov: And maybe initial signs of how this trans disciplinary education would occur to help develop that next generation of of stem leaders for for our country.

310  
00:56:30.900 --> 00:56:43.020  
Scott Acton PIPP@nsf.gov: Any comments about the potential involvement of foreign institutions or even international institutions such as WHO, the World Health Organization.

311  
00:56:47.700 --> 00:56:48.930  
Scott Acton PIPP@nsf.gov: Mitra any thoughts on that.

312  
00:56:51.870 --> 00:56:52.350  
Mitra Basu PIPP@nsf.gov: I.

313  
00:56:55.110 --> 00:56:55.260  
Mitra Basu PIPP@nsf.gov: Have.

314  
00:56:57.510 --> 00:56:57.990  
Mitra Basu PIPP@nsf.gov: To.

315  
00:56:59.310 --> 00:57:00.360  
Mitra Basu PIPP@nsf.gov: Get back to them.

316  
00:57:00.960 --> 00:57:02.670  
Joanna Shisler PIPP@nsf.gov: yeah yeah.

317  
00:57:03.150 --> 00:57:05.400  
Mitra Basu PIPP@nsf.gov: yeah so the.

318  
00:57:06.600 --> 00:57:07.140  
Mitra Basu PIPP@nsf.gov: questions.

319  
00:57:08.400 --> 00:57:10.080  
Mitra Basu PIPP@nsf.gov: Now, who cannot get through it.

320  
00:57:11.640 --> 00:57:12.510  
Mitra Basu PIPP@nsf.gov: Once I see.

321  
00:57:13.650 --> 00:57:19.680  
Mitra Basu PIPP@nsf.gov: And if there are questions that we will not answer people's questions.

322  
00:57:21.480 --> 00:57:30.330  
Mitra Basu PIPP@nsf.gov: Who can provide answering the PDF document in that PIPP program ah, so you listen to this.

323  
00:57:31.710 --> 00:57:32.040  
Mitra Basu PIPP@nsf.gov: Just.

324  
00:57:37.440 --> 00:57:51.360  
Scott Acton PIPP@nsf.gov: Any thoughts on geography, a attendee asked is there any preference on having people from the same region or state or from multiple regions or states or any thoughts from the nsf folks on this topic.

325  
00:57:55.980 --> 00:57:58.950  
Joanna Shisler PIPP@nsf.gov: i'm gonna pump that to meet rob because i'm.

326  
00:58:00.450 --> 00:58:01.680  
Joanna Shisler PIPP@nsf.gov: Having a little bit of trouble here.

327  
00:58:03.030 --> 00:58:09.690  
Mitra Basu PIPP@nsf.gov: Again, as I think we're all saying the same thing that will be the problem.

328  
00:58:12.480 --> 00:58:15.030  
Mitra Basu PIPP@nsf.gov: That you want to picking up song.

329  
00:58:16.680 --> 00:58:20.400  
Mitra Basu PIPP@nsf.gov: And what that you are looking for your next.

330  
00:58:21.750 --> 00:58:22.470  
Mitra Basu PIPP@nsf.gov: So.

331  
00:58:24.030 --> 00:58:38.280  
Mitra Basu PIPP@nsf.gov: That is what is important, not whether in what all of them from the same institution, not that you have with them all over the country, I think that for some point.

332  
00:58:39.630 --> 00:58:45.960  
Mitra Basu PIPP@nsf.gov: But of course consideration of you have been performing helps.

333  
00:58:48.120 --> 00:58:50.130  
Mitra Basu PIPP@nsf.gov: Think of yourself as a review of.

334  
00:58:51.390 --> 00:58:52.320  
Mitra Basu PIPP@nsf.gov: What did you do.

335  
00:58:55.260 --> 00:58:57.660  
Mitra Basu PIPP@nsf.gov: I do badly.

336  
00:58:58.740 --> 00:59:07.410  
Mitra Basu PIPP@nsf.gov: That I pick someone from California and someone from your back end for you, I like people online.

337  
00:59:12.600 --> 00:59:23.400  
Joanna Shisler PIPP@nsf.gov: I also see, I see that there's a lot of questions about international collaborations and foreign institutions like partners or subcontractors and and it's.

338  
00:59:24.210 --> 00:59:32.820

Joanna Shisler PIPP@nsf.gov: You know it's a long answer to the question and so these will be in the frequently asked questions, and these are also in PAP PG so if.

339

00:59:33.240 --> 00:59:44.520

Joanna Shisler PIPP@nsf.gov: The faqs will come up in the next couple of days and you'll have information there so we're not ignoring you it's just it's kind of a long answer and we're just going to save it for the faqs.

340

00:59:48.870 --> 00:59:56.100

Scott Acton PIPP@nsf.gov: sounds good, and I invite any of the other nsf folks to jump in if we're missing an important question at this point.

341

01:00:06.060 --> 01:00:12.690

Joanna Shisler PIPP@nsf.gov: I also know that it's been we started about an hour ago it's 305 now and we started at 205.

342

01:00:13.830 --> 01:00:36.180

Joanna Shisler PIPP@nsf.gov: I am not sure how people are doing in terms of zoom fatigue here, I do want to remind everybody that the questions and answers will be saved and will be added to our PIPP websites, so that you can go back and see them, we will also have faqs out soon, are there any.

343

01:00:37.560 --> 01:00:41.010

Joanna Shisler PIPP@nsf.gov: Scott, do you want to keep on going for another couple minutes to answer.

344

01:00:41.010 --> 01:00:41.580

Scott Acton PIPP@nsf.gov: questions.

345

01:00:41.610 --> 01:00:44.400

Scott Acton PIPP@nsf.gov: Or do you will see it looks like Rebecca may have something.

346

01:00:44.790 --> 01:00:45.750

Joanna Shisler PIPP@nsf.gov: Okay, great.

347

01:00:47.580 --> 01:00:49.350

Rebecca Ferrell: yeah you know, I just wanted to.

348

01:00:50.760 --> 01:00:52.830

Rebecca Ferrell: echo what other people said about.

349

01:00:54.750 --> 01:01:08.010

Rebecca Ferrell: The scope of these grand challenges and the desire of the pip working group to see things that really are spanning these different disciplines and wanted to say to the audience that we recognize that this is not easy.

350

01:01:09.480 --> 01:01:21.540

Rebecca Ferrell: Because we have many different silos and we're not always comfortable or even we don't always even know who we might be reaching out to to work with people in those other research areas, so we know that it's a.

351

01:01:22.770 --> 01:01:40.290

Rebecca Ferrell: Big ask and we just really encourage you in the audience to think about ways that you can bring in people from these different areas of expertise, because we really believe that it's going to make a stronger set of teams and scientific projects.

352

01:01:43.020 --> 01:01:43.500

Thank you.

353

01:01:44.610 --> 01:01:45.060

Thank you.

354

01:01:50.940 --> 01:02:02.490

Joanna Shisler PIPP@nsf.gov: I see a couple of other questions that i'm not meaning to avoid these, but I think that they're more on scientific merit and might be better to address the PIPP, so that includes things like.

355

01:02:02.910 --> 01:02:10.050

Joanna Shisler PIPP@nsf.gov: Does research into developing a local communities response to an emergency, other than a pandemic qualify.

356

01:02:10.620 --> 01:02:24.570

Joanna Shisler PIPP@nsf.gov: And the answer is no, because we're looking for disease, causing organisms and you'd really need to make it clear how developing a local community's response to an emergency is going to.

357

01:02:25.680 --> 01:02:28.260

Joanna Shisler PIPP@nsf.gov: answer a grand challenge that's in.

358

01:02:29.550 --> 01:02:37.290

Joanna Shisler PIPP@nsf.gov: It within the PIPP interests, and if you want to talk about that further just email us.

359

01:02:42.930 --> 01:02:56.910

Scott Acton PIPP@nsf.gov: that's great i'd really encourage you all to look at the workshop websites the for workshops, a lot of great materials there, and a lot of things that might provide some clarity if you're just coming to this for the first time.

360

01:02:58.440 --> 01:03:04.380

Joanna Shisler PIPP@nsf.gov: I think there's one other interesting question how can you can you describe the range of activities you envision is planning.

361

01:03:05.010 --> 01:03:15.780

Joanna Shisler PIPP@nsf.gov: And, and you know it seems obvious to us but we've thought about this for a while, so so



it's it's you know getting your scientific team together.

362

01:03:16.470 --> 01:03:27.750

Joanna Shisler PIPP@nsf.gov: to identify the questions to ask if it's if it's a good question to ask if there's feasibility in the way that you're tackling this grand challenge and so that that may mean.

363

01:03:28.320 --> 01:03:40.770

Joanna Shisler PIPP@nsf.gov: Preliminary experiments, but it's it's also about the broader impacts and and how are you starting to plan to to train your trainees in a transdisciplinary way.

364

01:03:41.700 --> 01:03:52.260

Joanna Shisler PIPP@nsf.gov: So these activities can include meetings that could include bringing in seminar speakers for you to help identify missing pieces of the puzzle.

365

01:03:52.980 --> 01:04:09.540

Joanna Shisler PIPP@nsf.gov: It could involve talking to people at your Center for innovative teaching and learning so that you can understand how to maximize transdisciplinary training for your trainees So these are the types of activities Scott anything you want to add.

366

01:04:11.070 --> 01:04:12.720

Scott Acton PIPP@nsf.gov: I think that was a wonderful answer.

367

01:04:13.740 --> 01:04:18.420

Scott Acton PIPP@nsf.gov: And little over the hour, we may be coming to the end of our time.

368

01:04:19.800 --> 01:04:35.490

Scott Acton PIPP@nsf.gov: But we want to remind you certainly that there's this email channel pipp@nsf.gov for additional questions and for specific questions, maybe that regard your research or your ideas and.

369

01:04:36.540 --> 01:04:37.440

Scott Acton PIPP@nsf.gov: Anything else Mitra.

370

01:04:39.750 --> 01:04:40.260

Mitra Basu PIPP@nsf.gov: Oh.

371

01:04:41.940 --> 01:04:43.230

Mitra Basu PIPP@nsf.gov: yeah somebody that.

372

01:04:46.410 --> 01:04:46.740

Mitra Basu PIPP@nsf.gov: I.

373

01:04:49.980 --> 01:04:55.890

Mitra Basu PIPP@nsf.gov: You for from this webinar and you have questions.

374

01:04:56.940 --> 01:04:58.590

Mitra Basu PIPP@nsf.gov: Please send it to the.

375

01:04:59.640 --> 01:05:00.240

Mitra Basu PIPP@nsf.gov: spot.

376

01:05:02.640 --> 01:05:07.980

Mitra Basu PIPP@nsf.gov: And we tried to respond, and the reason.

377

01:05:09.570 --> 01:05:09.900

Joanna Shisler PIPP@nsf.gov: Welcome

378

01:05:11.010 --> 01:05:11.310

Mitra Basu PIPP@nsf.gov: back.

379

01:05:13.260 --> 01:05:13.650

Mitra Basu PIPP@nsf.gov: Sir.

380

01:05:13.860 --> 01:05:26.520

Joanna Shisler PIPP@nsf.gov: yeah yeah so we appreciate your participation today, I am sure we will will hear from a lot of you are looking forward to meeting you and and hearing your ideas and and with that, thank you very much and we'll wait.

381

01:05:27.150 --> 01:05:28.050

Joanna Shisler PIPP@nsf.gov: that's what we do here.

382

01:05:29.040 --> 01:05:30.570

Joanna Shisler PIPP@nsf.gov: bye bye.