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01:00:00,719 --> 01:00:09,480

Lynda Wayne: All right. Well, first of all, I want to welcome everybody back. As most of you know, we've had a bit of a hiatus on the project, and are excited to be back.

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01:00:10,880 --> 01:00:14,639

Lynda Wayne: I'm getting... I'm hearing some... Feedback.

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01:00:15,559 --> 01:00:20,079

Lynda Wayne: So, if you're not on mute, please do, but feel free to come off of mute at any time.

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01:00:20,280 --> 01:00:25,719

Lynda Wayne: We'll... today we're gonna do a little bit of a welcome, then we'll get some, NSGIC updates.

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01:00:26,039 --> 01:00:32,800

Lynda Wayne: Just to tell you where we are with the project, then we'll get some USGS updates, and then we'll have some state updates, so...

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01:00:32,840 --> 01:00:40,039

Lynda Wayne: Glad to have that. For those of you that are new to the project, my name is Lynda Wayne. I'm the project manager for NSGIC.

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01:00:40,079 --> 01:00:48,039

Lynda Wayne: With us from USGS are Sue Buto and Steve Aichele. They are the USGS Hydrography and

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01:00:48,039 --> 01:01:06,039

Lynda Wayne: 3DNTM and everything else, managers and our partners on this project. And also, I'd like you to know Dennis Pedersen, he serves as the NSGIC 3DHP liaison to the federal 3DNTM working group. So, Dennis is your point of contact for getting to that group.

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01:01:06,960 --> 01:01:08,480

Lynda Wayne: Oh, I have to,

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01:01:09,480 --> 01:01:25,960

Lynda Wayne: Go back one thing. While you guys were working, this winter, I took a trip... I went on vacation to New Zealand, so through this slide presentation, I'm sharing all my photos. My, you have to look at my, vacation photos, so that's where these pictures are coming from.

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01:01:28,800 --> 01:01:43,119

Lynda Wayne: First of all, welcome back. Again, I just wanted to go over some basic parameters. This is a cooperative agreement between NSGIC and USGS. The objective here is to enlist stakeholders in the derivation of 3D hydrography data.

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01:01:43,320 --> 01:01:56,400

Lynda Wayne: to enhance the consistency of the data and conformance to USGS standards, and just in general, to expand the utility of a national hydrography data product. So, that's... that's the intent.

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01:01:56,440 --> 01:02:07,559

Lynda Wayne: How are we doing that? Well, we want to increase 3DHP knowledge using outreach and dialogue. We want to support statewide 3DHP planning and implementation via guidance and education.

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01:02:07,599 --> 01:02:17,760

Lynda Wayne: And we want to engage stakeholders in developing strategies, best practices, and resources that help support that management quality and the application of the data.

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01:02:21,639 --> 01:02:31,079

Lynda Wayne: So, who are we? Well, project management is through National States Geographic Information Council, sorry about that.

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01:02:31,079 --> 01:02:44,400

Lynda Wayne: And then again, USGS is our project partner, and then you all, you as the interest group members, you are the stakeholders, and that's who's in here. And I thought it'd be interesting if we took a quick look at who's in this interest group right now.

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01:02:44,440 --> 01:02:55,679

Lynda Wayne: We have Canada, that's our other nation. We have one regional government. We have four individuals, and you know them and love them. They're retirees who just love this project so much.

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01:02:55,719 --> 01:03:02,320

Lynda Wayne: We have 5 NGOs, 5 federal agencies, 7 universities, that surprised me.

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01:03:02,360 --> 01:03:05,920

Lynda Wayne: 19 businesses and 31 states.

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01:03:06,199 --> 01:03:09,920

Lynda Wayne: And we are going to work on those states this year. We're gonna get that number up.

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01:03:10,840 --> 01:03:20,920

Lynda Wayne: I should also say, feel free to jump in, chat. Oh, Greg Cox was born and raised in New Zealand. I want to talk to you. Just saw that in the chat.

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01:03:22,199 --> 01:03:36,840

Lynda Wayne: So, we've been working with USGS to, come up with a work plan. Now, this is a general work plan, so we have a general framework, and then you all tell us how we achieve these things. So, this group is going to be, you know, the group that kind of directs all of this.

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01:03:37,000 --> 01:03:56,440

Lynda Wayne: First of all, there's a big component, as I mentioned, is communications and outreach, and we're going to do that through our leadership briefings, our newsletters, conference presentations, posting information to the NSGIC Knowledge Base, such as this presentation. This will be posted to the Knowledge Base, and of course, the 3DHP for the Nation info hub.

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01:03:57,239 --> 01:04:09,960

Lynda Wayne: All right, stakeholder engagement. This meeting, and this is a little confusing, stay with me here. In an effort to simplify things and reduce your number of meetings, we have aligned with two affiliate communities

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01:04:10,000 --> 01:04:18,320

Lynda Wayne: to make sure that we're not stepping on top of each other, and more importantly, to have a consistent meeting date. So the fourth Tuesday of each month

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01:04:18,400 --> 01:04:20,519

Lynda Wayne: There is either going to be.

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01:04:20,519 --> 01:04:20,880

Sheena Beaverson (IL): Oh.

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01:04:21,239 --> 01:04:26,360

Lynda Wayne: This meeting, a 3DHP FTN interest group meeting, and those are the months that we have there.

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01:04:27,039 --> 01:04:32,800

Lynda Wayne: A NSGIC state hydrography community, and those are the state hydrography stewards.

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01:04:33,199 --> 01:04:51,000

Lynda Wayne: or a USGS Hydrography Community Call. And they're all on the fourth Tuesday of the month, and they're all at 1PM. So you can just mark your calendar. I would suggest you set them up as three different recurring events. I'll slip this information into

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01:04:51,639 --> 01:04:53,039

Lynda Wayne: the chat.

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01:04:54,039 --> 01:04:59,039

Lynda Wayne: And while I do that, Josh, are you on... Is Josh Greenberg?

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01:05:00,559 --> 01:05:01,440

Joshua Greenberg (He/Him): I'm here.

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01:05:01,599 --> 01:05:04,400

Lynda Wayne: Alright, you want to talk about Esri while I do this?

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01:05:04,719 --> 01:05:19,119

Joshua Greenberg (He/Him): Yes, absolutely, thank you. My name's Josh Greenberg, I'm the hydrography steward for Washington State, and Jane Schafer-Kramer, the steward for California and I, for the last 3 years, have been hosting a lunchtime

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01:05:19,199 --> 01:05:20,840

Joshua Greenberg (He/Him): steward meeting.

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01:05:21,119 --> 01:05:30,360

Joshua Greenberg (He/Him): during the UC, and we're doing that again. We have not got final permission to have food included, but our plan is to have

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01:05:30,360 --> 01:05:44,079

Joshua Greenberg (He/Him): Food included, thanks to our sponsors of NV5, Sanborn, Dewberry, Woolpert, and NSGIC, so they will help provide food. I will put the details into the chat,

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01:05:44,280 --> 01:05:48,039

Joshua Greenberg (He/Him): I beat you to it. We do ask that you,

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01:05:48,280 --> 01:06:04,079

Joshua Greenberg (He/Him): register so we make sure we have enough food for everyone. So it'll be Tuesday, July 14th, from 11.30 to 1230. This is a time for stewards to give updates on what they're doing, and then, try and just get to know each other, face-to-face.

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01:06:04,719 --> 01:06:06,000

Joshua Greenberg (He/Him): Thanks, Lynda.

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01:06:06,639 --> 01:06:12,159

Lynda Wayne: And I see there's a question about being online. This will not be... this is an in-person meeting only, correct?

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01:06:12,320 --> 01:06:19,480

Joshua Greenberg (He/Him): In person only, yes. It's, in the round, it's hard to... it's hard to make it something that's online.

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01:06:19,760 --> 01:06:23,440

Lynda Wayne: Josh, if you want to throw those sponsors in the chat, that would be great.

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01:06:23,760 --> 01:06:25,320

Joshua Greenberg (He/Him): Okay, I can do that too.

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01:06:25,639 --> 01:06:33,280

Lynda Wayne: Okay. Yes, and we will bring updates to this group, and we've actually scheduled the state hydrography community for August.

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01:06:33,360 --> 01:06:45,000

Lynda Wayne: So that they can bring their updates to that community, in August. Also, if you are not a member of any of these groups, please use these links. Two of them are my NSGIC communities.

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01:06:45,000 --> 01:07:08,440

Lynda Wayne: And if you need assistance with that, you can reach out to me separately. The third is the USGS Hydrography community, and what you do is you register with them, and then you'll get direct notifications, and that's how you get your call-in information. So again, if you're interested in the USGS Hydrography community, please go to this website, register for the calls, and they will send you the call-in information directly.

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01:07:10,320 --> 01:07:15,840

Lynda Wayne: I know that was a bit much. Anybody, any questions about how...

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01:07:15,960 --> 01:07:18,760

Lynda Wayne: The odd schedule, or the good schedule?

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01:07:23,400 --> 01:07:25,360

Lynda Wayne: Alright, well, I hope this helped.

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01:07:25,519 --> 01:07:31,920

Lynda Wayne: Helps everybody out, so that you're not... we're not... again, we wanted to make sure that we weren't stepping on top of each other.

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01:07:35,760 --> 01:07:43,400

Lynda Wayne: All right, what else? This is still talking about the work plan. We continue to support 3DHP planning and implementation.

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01:07:43,480 --> 01:07:46,639

Lynda Wayne: We'll discuss, through discussion, address...

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01:07:46,760 --> 01:07:53,320

Lynda Wayne: planning and implementation issues, and maintain the 3DNTM planning guide, if you're not familiar with that.

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01:07:53,400 --> 01:08:03,000

Lynda Wayne: Please reach out, or I can put a link in the chat if you don't know where that is, but you can get it at the 3DHP or the 3DEP, for the Nation Hub.

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01:08:04,280 --> 01:08:24,079

Lynda Wayne: We really want to promote the use of 3DHP data and applications, and this is something that's going to be... I... at this point, we're seeing this as kind of a primary activity this, year. We want to facilitate the coordination and promotion of 3DHP education and application resources. I'm gonna...

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01:08:24,720 --> 01:08:33,560

Lynda Wayne: So, they switched up Zoom while I was gone, and right now, my folks are not in alphabetical order. So, Dennis, are you on the call?

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01:08:36,399 --> 01:08:37,520

Dennis Pedersen - TN: Yes, I'm here.

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01:08:37,880 --> 01:08:49,560

Lynda Wayne: Do you want to talk about this, your thoughts on what you wanted to do with regards to, sort of, leveraging and setting up our education application? Actually, you know what? I'm sorry, I'm gonna put you on the spot in a few minutes, okay?

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01:08:50,760 --> 01:08:52,479

Lynda Wayne: That was just a heads up.

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01:08:52,479 --> 01:08:53,399

Dennis Pedersen - TN: Alright.

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01:08:53,680 --> 01:09:02,920

Lynda Wayne: And then our last portion of the work plan is program development and data development feedback to USGS, and so USGS has been really

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01:09:03,199 --> 01:09:08,880

Lynda Wayne: You know, great about coming to us and saying, you know, what are your issues? What's working? What's not working?

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01:09:08,880 --> 01:09:23,680

Lynda Wayne: They've been very responsive to those things. I know a lot of you were happy to see the NHD data, kind of hard-coded in there until we had 3DHP data. So, that's also part of this, is that dialogue and that feedback.

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01:09:25,920 --> 01:09:30,760

Lynda Wayne: So, we set out a call for topics, I hope you saw it. If you didn't.

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01:09:31,000 --> 01:09:36,399

Lynda Wayne: Sorry. These are the responses we got, and this is where I'm going to call on you, Dennis.

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01:09:36,399 --> 01:09:51,800

Lynda Wayne: There were several folks that wanted to talk about, USGS data development methods, like how are we synchronizing different vintage resolution LiDAR collection? How are we producing seamless DEMs where data's redacted?

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01:09:51,880 --> 01:09:53,640

Lynda Wayne: And how can we...

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01:09:53,760 --> 01:10:02,479

Lynda Wayne: what thoughts are there on aligning 3DEP and 3DHP data production for efficiency? Like, is there... are there opportunities there?

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01:10:03,199 --> 01:10:10,560

Lynda Wayne: And I'm gonna ask anybody that had comments on these. We'll look... go down the first page, and then we'll ask anybody that had comments to elaborate on these.

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01:10:10,720 --> 01:10:24,000

Lynda Wayne: Then there are the state data development methods, and that would be how do we... how are states incorporating 3DHP into their existing hydrography and related products? Like, how are you bringing your culverts in, or coordinating with that?

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01:10:24,319 --> 01:10:27,800

Lynda Wayne: And, this was a specific question,

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01:10:28,079 --> 01:10:35,960

Lynda Wayne: on enhancing unreliable data resources, such as stormwater. What do you do when you've got the best you have, but it doesn't...

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01:10:36,159 --> 01:10:39,720

Lynda Wayne: it's not something reliable, so I think there's some discussion around that.

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01:10:40,079 --> 01:10:56,359

Lynda Wayne: Questions about integrating related data resources, wetlands, estuaries? I know there's a lot of interest in inland bathymetry. And then the WBD, the catchments and the drainage areas. How are we going to work these products, together?

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01:10:56,760 --> 01:11:02,000

Lynda Wayne: And then, of course, applications and tools. There, you know, there is the Esri...

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01:11:02,119 --> 01:11:08,319

Lynda Wayne: ARCH hydro tool, I know a lot of folks use that, and then USGS, is maintaining

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01:11:08,479 --> 01:11:15,239

Lynda Wayne: How do we do data maintenance using something like the USGS markup application, or some other application?

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01:11:15,720 --> 01:11:20,159

Lynda Wayne: Before I go on to the next page, I'll ask anybody that submitted any of these

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01:11:20,640 --> 01:11:25,720

Lynda Wayne: Comments, want to elaborate on them, or...

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01:11:34,800 --> 01:11:39,039

Lynda Wayne: I know you guys are here, and you want to hear somebody other than me talk.

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01:11:46,840 --> 01:11:47,880

Lynda Wayne: Alright.

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01:11:48,239 --> 01:11:50,800

Lynda Wayne: carry on.

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01:11:53,159 --> 01:12:10,399

Lynda Wayne: there were questions about tribal notification process and protocols. What is the USGS protocol for tribal objections to data collection, and the state role in tribal outreach engagement? What, you know, what can the state do in a constructive manner?

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01:12:10,399 --> 01:12:19,239

Lynda Wayne: So, if you're not aware, there is... USGS has... is working with NSGIC to present the tribal notification process. There'll be a webinar

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01:12:19,560 --> 01:12:30,279

Lynda Wayne: Tuesday, June 9th, at 10 a.m. Pacific Time, 1 p.m. Eastern. I will put that information in the chat as well.

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01:12:36,119 --> 01:12:40,399

Lynda Wayne: And I think USGS can answer any questions you may have.

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01:12:43,399 --> 01:12:57,479

Lynda Wayne: about that. We had... so the questions that were submitted, and Jane, I believe you're the one that submitted some questions on this, those have been forwarded to Cindy Thatcher with USGS, so we've given those to her in advance, so she knows what

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01:12:57,640 --> 01:12:59,840

Lynda Wayne: Things you, you had interest in.

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01:13:03,039 --> 01:13:06,600

Jane Schafer-Kramer (CA DWR): Right, yeah, thanks a lot for that. So,

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01:13:07,079 --> 01:13:12,159

Jane Schafer-Kramer (CA DWR): I just want to point out there, in addition to the Tuesday, June 9th.

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01:13:12,239 --> 01:13:23,560

Jane Schafer-Kramer (CA DWR): webinar that I believe NSGIC is hosting, which is great. Yeah, USGS, maybe that's gonna come up. They're... they're gonna host, webinars

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01:13:23,920 --> 01:13:32,520

Jane Schafer-Kramer (CA DWR): with the tribes as the audience, and I believe the first one is tomorrow. So, I'm planning on attending that one as well. So, thank you for this.

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01:13:34,039 --> 01:13:44,520

Lynda Wayne: Okay, Sue, Steve, you have any information about that? Is that something that people... is intended for the tribes? I mean, is it something we should promote to this community, or...

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01:13:44,800 --> 01:13:46,439

Lynda Wayne: Maybe not.

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01:13:46,439 --> 01:14:01,079

Sue B: Yeah, hi, Lynda. Yeah, that webinar really is intended for, tribal members to discuss the recent, tribal notification letter that went out. We do those sort of big national notifications periodically.

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01:14:01,079 --> 01:14:16,279

Sue B: So those webinars are specifically really for tribal members, to attend and ask questions. And as noted, Cindy Thatcher will be presenting to, this larger NSGIC community on the 9th.

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01:14:16,840 --> 01:14:18,560

Lynda Wayne: That sounds good. Okay.

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01:14:19,000 --> 01:14:20,199

Lynda Wayne: The next...

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01:14:22,079 --> 01:14:44,840

Lynda Wayne: Okay, the next, subject, Dennis, you ready? Is training and education, 3DHP related, to educate and inform stakeholders in the application of 3DHP data, and to coordinate and leverage the development

and training and education resources. So Dennis is the one that suggested this as a work plan item this year, so I'll ask him to sort of elaborate on what he's

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01:14:44,840 --> 01:14:45,880

Lynda Wayne: thinking.

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01:14:46,319 --> 01:14:47,640

Dennis Pedersen - TN: Sure, thanks, Lynda.

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01:14:47,800 --> 01:14:54,800

Dennis Pedersen - TN: Good afternoon, everyone. So... We had a history of..

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01:14:55,000 --> 01:15:00,159

Dennis Pedersen - TN: with the LIDAR efforts and 3D, the 3D Elevation Program.

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01:15:00,600 --> 01:15:06,239

Dennis Pedersen - TN: Of, realizing that the worst thing that we could do was spend

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01:15:06,760 --> 01:15:11,640

Dennis Pedersen - TN: Millions of dollars on data development, but not provide,

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01:15:11,920 --> 01:15:16,760

Dennis Pedersen - TN: A mechanism, or a venue, or a format, if you will.

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01:15:17,119 --> 01:15:22,640

Dennis Pedersen - TN: for our stakeholders and our GIS community across Tennessee.

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01:15:23,319 --> 01:15:27,600

Dennis Pedersen - TN: To help them understand what is...

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01:15:28,680 --> 01:15:32,439

Dennis Pedersen - TN: LiDAR elevation data, and how can they leverage it

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01:15:32,800 --> 01:15:38,159

Dennis Pedersen - TN: In their particular use cases or daily activities.

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01:15:38,640 --> 01:15:45,039

Dennis Pedersen - TN: And so we had a lot of success, developing that training program and education and outreach.

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01:15:45,279 --> 01:15:53,439

Dennis Pedersen - TN: For LiDAR, we want to replicate that at a certain level, for hydrography and 3DHP.

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01:15:54,760 --> 01:15:59,720

Dennis Pedersen - TN: Again, we're fortunate that we have some state agency

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01:16:00,000 --> 01:16:07,119

Dennis Pedersen - TN: funding partners to help, fund the development of 3DHP in Tennessee.

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01:16:07,680 --> 01:16:15,479

Dennis Pedersen - TN: But again, we want to make sure that we're maximizing the investment that we're making into the program.

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01:16:15,880 --> 01:16:24,680

Dennis Pedersen - TN: And so, I actually have one of my staff on the call here today, Suzanne White, She,

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01:16:25,520 --> 01:16:27,680

Dennis Pedersen - TN: She is my technical lead.

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01:16:28,600 --> 01:16:30,880

Dennis Pedersen - TN: for 3DHP,

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01:16:31,439 --> 01:16:43,159

Dennis Pedersen - TN: Some of you know Paul Dudley on my team, and a lot of the work that he did with LIDAR and the training program. Well, Suzanne's gonna be my technical lead on the

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01:16:43,439 --> 01:16:48,119

Dennis Pedersen - TN: Tennessee 3DHP training and education, efforts.

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01:16:48,359 --> 01:16:53,199

Dennis Pedersen - TN: And we've started, we're... we just..

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01:16:53,800 --> 01:16:59,760

Dennis Pedersen - TN: We've just had some initial discussions about developing a,

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01:17:02,159 --> 01:17:06,760

Dennis Pedersen - TN: Training, advisory group within our state.

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01:17:07,439 --> 01:17:11,840

Dennis Pedersen - TN: To help craft, the content.

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01:17:12,039 --> 01:17:16,119

Dennis Pedersen - TN: And materials, and structure of how our...

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01:17:16,359 --> 01:17:19,560

Dennis Pedersen - TN: Program is gonna, be developed.

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01:17:19,920 --> 01:17:22,199

Dennis Pedersen - TN: But obviously there's...

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01:17:22,640 --> 01:17:30,359

Dennis Pedersen - TN: overlap, and we want to be able to leverage the work that Lynda is doing here as well for... for...

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01:17:31,199 --> 01:17:36,800

Dennis Pedersen - TN: I guess it's a two-way street, right? Things that we develop for Tennessee, we can share with other states.

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01:17:37,159 --> 01:17:42,359

Dennis Pedersen - TN: And through this, this forum that Lynda is leading.

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01:17:42,680 --> 01:17:47,199

Dennis Pedersen - TN: You know, there may be other states that we can learn from and incorporate

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01:17:47,479 --> 01:17:52,680

Dennis Pedersen - TN: information. So, very excited about this,

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01:17:54,000 --> 01:18:01,439

Dennis Pedersen - TN: And I think that, you know, again, it's all about how do we maximize the investment that we've made

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01:18:01,640 --> 01:18:07,479

Dennis Pedersen - TN: Into the data, and find as many stakeholders and...

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01:18:07,840 --> 01:18:16,800

Dennis Pedersen - TN: you know, GIS users across the country, not just Tennessee, to... to really..

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01:18:17,039 --> 01:18:21,800

Dennis Pedersen - TN: to see where the new 3DHP data model and some of the

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01:18:22,399 --> 01:18:29,640

Dennis Pedersen - TN: unique things about the data model and how it differs from NHD,

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01:18:30,000 --> 01:18:39,039

Dennis Pedersen - TN: How we can promote and maximize, again, the use of these wonderful data products coming from USGS.

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01:18:40,760 --> 01:18:57,880

Lynda Wayne: So, let's talk about this as a group a little bit. How do you see that working? Are we talking about doing some sort of initial inventory? Who's got something? Maybe in a subgroup, a work group, that would like to sort of get the ball rolling, or...

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01:18:59,760 --> 01:19:06,720

Lynda Wayne: I hate to do another Survey 123, but... but that may be, you know, how we start... start the ball rolling.

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01:19:09,560 --> 01:19:17,840

Dennis Pedersen - TN: Yeah, good question. I'll be honest, I'm not a hydrography expert. I'm not a hydrography steward.

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01:19:18,039 --> 01:19:25,319

Dennis Pedersen - TN: I lean on Suzanne for a lot of the technical, elements of 3DHP, but,

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01:19:26,159 --> 01:19:30,159

Dennis Pedersen - TN: Suzanne, I'm not sure if you have thoughts that you want to share, if you want to come off mute.

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01:19:31,439 --> 01:19:44,199

Suzanne White: Hello, thanks, Dennis, and thanks, Lynda. Yeah, I've thought about this, for a while now, and have been putting together an education advisory board

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01:19:44,319 --> 01:19:57,079

Suzanne White: of different subject matter experts, and they may be, in academia, they may be in the private sector, there's state, representatives in there, too, from our different,

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01:19:57,279 --> 01:20:00,399

Suzanne White: State agencies,

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01:20:00,680 --> 01:20:07,560

Suzanne White: And what I was expecting is to work with those subject matter experts to develop topics.

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01:20:07,840 --> 01:20:09,159

Suzanne White: topics that...

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01:20:09,279 --> 01:20:27,880

Suzanne White: how they could use, the 3DHP in their business, in their workflows, and whatever they've got going on, because there's no way that any one of us is going to know every different workflow that comes about. So these things could include

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01:20:27,920 --> 01:20:34,439

Suzanne White: Work cases, different models that already exist for blood plane management, maybe,

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01:20:35,000 --> 01:20:39,680

Suzanne White: For natural resources management, threatened endangered Wildlife and fisheries.

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01:20:39,680 --> 01:20:46,479

Suzanne White: Even cartography, you know, just all kinds of things could be individual topics, and so...

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01:20:46,520 --> 01:21:04,239

Suzanne White: I was planning on, making an implementation of developing short tutorials that would be available online and all be standardized, and maybe either, some sort of a standard blog post or story maps or something like that, that people could get on and be familiar with, and

156

01:21:04,239 --> 01:21:11,279

Suzanne White: Have those, developed by People on this team, and maybe some graduate students.

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01:21:11,319 --> 01:21:17,600

Suzanne White: And if we can get those graduate students involved, that gives them ownership and experience and...

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01:21:17,680 --> 01:21:34,079

Suzanne White: You know, they've got new and fresh ideas as well, and then the graduate students and really anybody else could be part of a training program to where they could teach, you know, one or two modules during a session whenever they can at some meeting or something, or they could have an all day of

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01:21:34,079 --> 01:21:38,520

Suzanne White: you know, several tutorials all at once, or something like that. So that was my thoughts.

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01:21:39,319 --> 01:21:55,840

Lynda Wayne: All right, well, it sounds like we might want to start with the team, so I'll put a call out for folks that might want to work on this. Obviously, Suzanne, you're on the list already. We'll put out a call to see who else would be, like, interested in working on this, and we'll come up with a plan of action.

161

01:21:56,199 --> 01:22:09,439

Lynda Wayne: I did want to back up a bit. I just saw a comment from Jason Dunham. Jason, we were talking about integrating the data earlier. Would you like to talk about the webinar you put in the chat? Very interesting.

162

01:22:14,039 --> 01:22:20,239

Jason Dunham: Yeah, sure. We've got a couple of, what we call feature mapping tools for,

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01:22:20,359 --> 01:22:33,199

Jason Dunham: mapping where stream channels are and their flow permanence characteristics. So, looking for, like, perennial or intermittent or ephemeral, types of streams. And then we've got, a second tool

164

01:22:33,399 --> 01:22:39,000

Jason Dunham: Specifically focused on mapping where, road stream crossings are, so looking at

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01:22:39,119 --> 01:22:50,840

Jason Dunham: road characteristics, characteristics of stream channels, and crossings like culverts, bridges, and whatnot. So, those have been used about 40,000 times here in the West.

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01:22:50,880 --> 01:22:51,239

Lynda Wayne: Oh!

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01:22:51,479 --> 01:23:00,479

Jason Dunham: And just kind of getting the word out there to folks. These are designed to be, coordinated with sort of the evolving, hydroscape.

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01:23:01,439 --> 01:23:03,800

Lynda Wayne: That is great. And Jason, what organization are you with?

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01:23:04,199 --> 01:23:06,119

Jason Dunham: Oh, I'm sorry, I'm with USGS.

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01:23:06,279 --> 01:23:08,760

Lynda Wayne: Oh, Good to know!

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01:23:09,279 --> 01:23:14,720

Lynda Wayne: Great. Well, you're, you're on a list, too, for applications, so, thank you.

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01:23:15,159 --> 01:23:17,359

Jason Dunham: Alright, just signed up for my work, thanks.

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01:23:17,399 --> 01:23:24,359

Lynda Wayne: Okay, yeah, I know you don't have anything to do, I know they just... with all those extra people they hired for you.

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01:23:25,159 --> 01:23:40,840

Lynda Wayne: Okay, well, in addition to training and education, there's also, as you're all aware, programs out there to assess state and federal hydrography programs and products. Both NSGIC runs a geospatial maturity assessment that includes a hydrography component.

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01:23:40,840 --> 01:23:48,960

Lynda Wayne: And COGO, obviously runs an NSDI assessment for the federal program. Josh, do you want to... I know that you kind of

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01:23:48,960 --> 01:23:58,840

Lynda Wayne: took those both on in recent years. You're looking for help, or you want to talk about what you'd like to do in this... in this capacity here?

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01:23:59,800 --> 01:24:04,079

Joshua Greenberg (He/Him): I do think... when the, NSGIC GMA is

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01:24:04,199 --> 01:24:22,439

Joshua Greenberg (He/Him): released, I think it would be great to have a discussion about that. The hydro section is not graded, but we did do a ranking, and so I... it would be great in the future to have an opportunity to explain the... the data we collected and information we got.

179

01:24:22,760 --> 01:24:33,920

Joshua Greenberg (He/Him): The COGO NSDI, the survey is complete. I don't think it's been released yet, but that... that's kind of, a 2027...

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01:24:34,279 --> 01:24:37,199

Joshua Greenberg (He/Him): project. So the survey will go out.

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01:24:37,479 --> 01:24:46,760

Joshua Greenberg (He/Him): This... this summer, and then if... that's open to all users, and then we will work on the documentation of that in the fall.

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01:24:47,359 --> 01:24:51,439

Lynda Wayne: Okay, so if I'm understanding correctly, with regards to the,

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01:24:51,720 --> 01:25:02,439

Lynda Wayne: The GMA, we... you're looking for an opportunity with this group to sort of discuss how... how the, assessments and such, were done and why.

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01:25:02,520 --> 01:25:03,680

Lynda Wayne: And with regard...

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01:25:03,680 --> 01:25:04,399

Joshua Greenberg (He/Him): results.

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01:25:04,399 --> 01:25:10,680

Lynda Wayne: End results, correct. Yeah. And then with regards to COGO, are you... you maybe...

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01:25:10,800 --> 01:25:14,039

Lynda Wayne: Want to enlist more folks in, doing that assessment?

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01:25:15,279 --> 01:25:25,079

Joshua Greenberg (He/Him): In filling out the survey, we already have the... the COGO team has been, put together already, and Dennis, myself.

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01:25:25,399 --> 01:25:31,920

Joshua Greenberg (He/Him): Jenna and, Andrew Brenner are the... are the COGO team.

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01:25:32,279 --> 01:25:33,520

Lynda Wayne: Okay, that's great.

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01:25:33,520 --> 01:25:34,920

Joshua Greenberg (He/Him): I can give more details.

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01:25:34,920 --> 01:25:46,479

Lynda Wayne: Yeah, so this is exactly why we're here. This is the kind of thing that will just make time and space for you guys to keep us informed on how we can participate. That's great.

193

01:25:47,039 --> 01:25:56,880

Joshua Greenberg (He/Him): Oh, good, and it looks like there's some info in the chat, so maybe the survey was... the final survey was released, I guess. I'm sorry, I must have missed that.

194

01:25:58,039 --> 01:26:00,960

Lynda Wayne: Well, I don't know, Jane's saying take the survey, so...

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01:26:01,479 --> 01:26:02,159

Joshua Greenberg (He/Him): Okay.

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01:26:02,399 --> 01:26:03,199

Joshua Greenberg (He/Him): But...

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01:26:03,199 --> 01:26:08,520

Jane Schafer-Kramer (CA DWR): Yeah, I got the link to that from Geospatial Professional Network.

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01:26:08,680 --> 01:26:09,479

Jane Schafer-Kramer (CA DWR): Oh.

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01:26:09,479 --> 01:26:09,840

Joshua Greenberg (He/Him): Okay.

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01:26:09,840 --> 01:26:12,840

Jane Schafer-Kramer (CA DWR): Yeah, a couple weeks ago. Oh, great. So, it's out there now.

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01:26:12,840 --> 01:26:21,199

Joshua Greenberg (He/Him): Okay, and so maybe we can promote that through this group also, Lynda, to have people fill out that NSDI assessment.

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01:26:21,479 --> 01:26:27,439

Lynda Wayne: Jane, do you know how long that is, you don't have... do you know how... happen to know how long that survey is open, the COGO?

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01:26:27,560 --> 01:26:30,760

Jane Schafer-Kramer (CA DWR): I don't know, I just copied that link off their website. Okay.

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01:26:30,800 --> 01:26:31,479

Joshua Greenberg (He/Him): Okay.

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01:26:31,840 --> 01:26:32,640

Jane Schafer-Kramer (CA DWR): Yeah.

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01:26:32,640 --> 01:26:36,479

Lynda Wayne: Hopefully it's open for a while, and we could use next month's meeting.

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01:26:36,640 --> 01:26:38,920

Lynda Wayne: To maybe talk about it a little bit?

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01:26:39,479 --> 01:26:40,199

Joshua Greenberg (He/Him): Yeah.

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01:26:41,119 --> 01:26:41,720

Joshua Greenberg (He/Him): If it's...

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01:26:41,720 --> 01:26:42,680

Lynda Wayne: Still open.

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01:26:42,680 --> 01:26:46,760

Joshua Greenberg (He/Him): Yeah, and it's, admittedly a little short, and...

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01:26:47,199 --> 01:26:59,159

Joshua Greenberg (He/Him): Also, it's... we appreciate that we're in a transition from NHD to 3DHP, and so it's hard when...

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01:26:59,239 --> 01:27:02,640

Joshua Greenberg (He/Him): It's hard to do evaluations when you know a lot of states

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01:27:02,800 --> 01:27:06,359

Joshua Greenberg (He/Him): Haven't had a chance to fully embrace or get up and.

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01:27:07,000 --> 01:27:18,359

Joshua Greenberg (He/Him): towards 3DHP, so... But yeah, we certainly... it would be great to go over some of the questions, of that, if it's helpful. And people can reach out to me if they have questions about either of those.

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01:27:20,119 --> 01:27:26,000

Lynda Wayne: Great. All right, thank you. And Lindsey, thank you for putting in the GMA link as well. Appreciate that.

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01:27:27,880 --> 01:27:30,760

Lynda Wayne: Oh, 15th of June. Okay, well...

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01:27:32,119 --> 01:27:40,800

Lynda Wayne: please, take the survey. So grab that... grab that link that Jane put in there, and that... this is the community they're talking to, so,

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01:27:41,399 --> 01:27:48,439

Lynda Wayne: please grab that survey, take a look at it, and contribute your information. That'd be good... good to know.

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01:27:50,039 --> 01:27:52,840

Lynda Wayne: Alright, and then, one of the last,

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01:27:53,079 --> 01:28:03,960

Lynda Wayne: items we had was general, 3DHP planning and DCA requirements, and one of the topics that was suggested was how do we value existing data as a state contribution? So.

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01:28:04,000 --> 01:28:15,439

Lynda Wayne: I'm sure there's a lot more, so just in general, DCA requirements, Sue, I assume there's a webinar in August for the new... for the, 2027?

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01:28:16,720 --> 01:28:22,840

Sue B: Yeah, that's correct. Not, scheduled yet, but that's the timeline that we're looking at.

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01:28:23,159 --> 01:28:42,560

Lynda Wayne: So USGS has been great about providing those info webinars, and that is a place, if you do have questions like this, we can bring that up. But we can also talk among ourselves, because a lot of people have a lot more experience with the DCA than some others, so I think talking among ourselves would be very helpful for folks as well.

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01:28:44,199 --> 01:28:52,319

Lynda Wayne: Well, that is the work plan. That is the NSGIC update, so with that, I'm going to turn it over

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01:28:53,000 --> 01:28:53,920

Lynda Wayne: I think.

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01:28:55,159 --> 01:28:57,319

Lynda Wayne: To USGS,

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01:28:57,479 --> 01:29:03,479

Lynda Wayne: to talk about, to provide an update on where they are with the federal 3DHP program.

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01:29:04,039 --> 01:29:06,760

Lynda Wayne: Steve, are you the one speechifying?

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01:29:07,359 --> 01:29:10,159

Sue B: I'll start, and then Steve will jump on.

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01:29:10,159 --> 01:29:10,680

Lynda Wayne: Okay.

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01:29:10,680 --> 01:29:26,159

Sue B: So, first, I want to say, yay, I'm so glad that we finally got this going again. It was... it was a bit of a long, hard slog, so I'm very happy to, have our cooperative agreement back in place with NSGIC for 3DHP.

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01:29:26,159 --> 01:29:43,039

Sue B: This is the... just a quick status of data acquisition for 3DHP for this fiscal year. We have, selected 15 DCA projects for funding. 12 of those are GPSC and 3 cooperative agreements.

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01:29:43,039 --> 01:29:52,720

Sue B: We did have one last application come across our door before we closed the FY26 DCA on the 15th.

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01:29:52,720 --> 01:30:11,439

Sue B: So we're reviewing that, and we'll get back to the applicant, as soon as possible. But as noted in the last bullet, the FY26 DCA is now closed. We aren't accepting any more applications, but as Lynda alluded to, we are anticipating the FY27 DCA.

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01:30:11,439 --> 01:30:17,159

Sue B: To open in August. We're still working on the timeline for that, so we'll keep this group

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01:30:17,199 --> 01:30:19,720

Sue B: And NSGIC updated.

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01:30:20,119 --> 01:30:24,039

Sue B: One other note is, two other notes, I guess, is that we have

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01:30:24,039 --> 01:30:40,399

Sue B: One state, that is, contracting directly with GPSC for 3DHP. Cy, if you're on, thank you. That's Massachusetts. He's moving forward at a pace that we can't keep up with, and we're very happy to see that.

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01:30:40,399 --> 01:30:49,920

Sue B: buy-in from Massachusetts for 3DHP. And then, we are working on 6, USGS-funded projects in Alaska.

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01:30:49,920 --> 01:31:06,479

Sue B: We're getting very, very close to, getting towards completion of contracting for Alaska. So that'll be a great milestone once we reach that, probably another year, before we see all the contracts done for, the state of Alaska, 3DHP.

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01:31:06,920 --> 01:31:10,720

Sue B: And I think that's all I have. We can go to the next slide to Steve.

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01:31:14,520 --> 01:31:15,159

Nicholas Fishburn: Hmm.

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01:31:17,159 --> 01:31:26,399

Steve Aichele - USGS: Alright, so this is not as blue a map, and this is, like, the number one thing, keeping me awake at night.

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01:31:26,600 --> 01:31:29,880

Steve Aichele - USGS: This is where... this is where we are in terms of publication today.

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01:31:30,039 --> 01:31:33,720

Steve Aichele - USGS: And a lot of that has to do with...

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01:31:33,920 --> 01:31:46,520

Steve Aichele - USGS: losing most of our production staff, last fiscal year during our various staffing challenges. You know, we've been rebuilding that capacity, over the last year.

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01:31:46,640 --> 01:31:56,199

Steve Aichele - USGS: You know, April 2025, after... after things had gone bad, we had one person who was learning the process, left.

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01:31:56,520 --> 01:32:13,279

Steve Aichele - USGS: So we've pulled in people from other activities, including HydroAd, including the watershed boundary data set, and we've hired, you know, at least part-time from, several water science centers to try to fill that staffing gap. So we're now.

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01:32:13,880 --> 01:32:14,279

Nicholas Fishburn: cows.

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01:32:14,279 --> 01:32:16,960

Steve Aichele - USGS: Absolutely. Most of the way back to where we were.

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01:32:17,119 --> 01:32:35,159

Steve Aichele - USGS: I'll point out that, so this year, we... this year in the Q2 release, earlier, we published 5,300 square miles of new data, but we have 18,000 in work. So, I mean, there's a lot of... there's a lot of,

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01:32:35,399 --> 01:32:41,359

Steve Aichele - USGS: Processing happening now that, just wasn't, you know, wasn't happening before.

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01:32:41,640 --> 01:33:00,800

Steve Aichele - USGS: Our goal for, our goal for the fiscal year is still, 50,000 square miles. That said, you know, that is impacted by having 6 weeks hiatus at the beginning of the fiscal year. So actually grinding stuff through the process here has been a little challenging this past year.

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01:33:01,920 --> 01:33:11,199

Steve Aichele - USGS: But making this map bluer and a lot closer to Sue's map is, you know, basically what I, you know, what I wake up and think about every day and some nights.

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01:33:15,159 --> 01:33:17,199

Steve Aichele - USGS: Okay, let's flip that over.

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01:33:26,199 --> 01:33:31,560

Steve Aichele - USGS: There we go. And then another major development, we've...

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01:33:31,840 --> 01:33:45,399

Steve Aichele - USGS: Many of you were... some of you were HEM users, the Hydrography Event Management Tool, way back in the day. Many of you were HydroAd users, working on the ATOL platform, more recently.

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01:33:45,479 --> 01:33:57,239

Steve Aichele - USGS: And then, right now, we don't have a thing to do that. That AGOL capability had to be retired for security reasons at the end of the last calendar year.

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01:33:57,319 --> 01:34:05,159

Steve Aichele - USGS: And so, again, told you we just pulled people off of HydroEd to make, to make data, publish data.

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01:34:05,359 --> 01:34:10,720

Steve Aichele - USGS: So the, I want to talk a little bit about where we are with that.

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01:34:11,119 --> 01:34:26,960

Steve Aichele - USGS: First off, we're basically three different major requirements use cases here. One is people out in the field collecting, you know, samples, observing slugs or snails or fish or something. Folks like Jason.

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01:34:27,079 --> 01:34:33,039

Steve Aichele - USGS: Need to be able to address data to the network, and so we need a new address, capability.

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01:34:33,239 --> 01:34:45,399

Steve Aichele - USGS: We also know there are a lot of people out there with a lot of data that has been tied to the NHD over the years, and so we need a capability to be able to convert that to a main STEM address.

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01:34:45,600 --> 01:34:50,079

Steve Aichele - USGS: And then now there are a few of you out there that have, like.

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01:34:50,479 --> 01:34:54,159

Steve Aichele - USGS: Very large quantities of data that need to be converted.

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01:34:54,319 --> 01:34:57,760

Steve Aichele - USGS: And so we want to have a capability to do that as well.

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01:34:58,119 --> 01:35:05,439

Steve Aichele - USGS: In the past, we've really tried to have, like, an all-encompassing tool, right? Again, the HEM or the HydroAd tools.

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01:35:05,600 --> 01:35:15,640

Steve Aichele - USGS: But that's not something we're going to be able to support with, the staff that we have left, and we don't really anticipate that situation getting better soon.

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01:35:15,800 --> 01:35:25,720

Steve Aichele - USGS: So with that, we've really tried to shift gears on this and, go to a more, admittedly, some assembly-required approach here.

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01:35:25,880 --> 01:35:37,680

Steve Aichele - USGS: But, putting up an API that does the addressing and addressing conversion, for you, you can build this into workflows of your own, whether that's, you know.

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01:35:37,880 --> 01:35:42,840

Steve Aichele - USGS: QGIS, or Esri, or whatever are.

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01:35:43,239 --> 01:35:59,920

Steve Aichele - USGS: build it into your own workflows. We will have a basic interface that, you know, takes a CSV file, allows you to review, approve addresses, and then pull down a new CSV with the appropriate address data.

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01:36:00,119 --> 01:36:11,079

Steve Aichele - USGS: And then we also have a version of the API that runs on a Linux HPC environment. That does require a little more support and tweaking.

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01:36:11,199 --> 01:36:18,960

Steve Aichele - USGS: But, for the people that have, like, hundreds of thousands of addresses to migrate, that may be the path to pursue.

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01:36:19,199 --> 01:36:34,000

Steve Aichele - USGS: We talked a little bit about this in the, in the Hydro Community Call in April, and I guess I just... those are... that's a good resource, available through our website, which I'll paste in here.

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01:36:34,680 --> 01:36:38,760

Steve Aichele - USGS: And then,

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01:36:39,279 --> 01:36:54,880

Steve Aichele - USGS: We're working with, a few users who expressed interest last year when we were getting close to a release, to try to, you know, iron out any sort of last-minute bugs in this minimum viable product, and get this moved on to, you know, public consumption.

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01:36:58,880 --> 01:37:11,920

Steve Aichele - USGS: And actually, I apologize, there was one other link I should have dropped in on that... on the previous production map, and that's a presentation that a number of folks from our technical operations center did

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01:37:12,079 --> 01:37:24,399

Steve Aichele - USGS: for NSGIC, I think back in February, related to what is involved in the production process to go from Sue's map to the less blue map.

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01:37:24,520 --> 01:37:30,640

Steve Aichele - USGS: And that's a... that's a fairly... that's a very good presentation that, describes

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01:37:30,720 --> 01:37:34,680

Steve Aichele - USGS: All the different pieces and parts in the process.

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01:37:35,960 --> 01:37:51,800

Steve Aichele - USGS: one of the analogies I've been using recently, to try to explain that is, sort of what we get into the process is sort of like a bag of flour. I mean, there's a lot of work that goes into making a bag of flour, right? You know, farming and tilling and milling and processing.

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01:37:51,800 --> 01:38:00,439

Steve Aichele - USGS: But we still need to bake it, and this is sort of the baking process, down the line to actually turn it into, you know, I don't know, bread or noodles or something.

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01:38:01,720 --> 01:38:14,279

Steve Aichele - USGS: So if you want to walk through that a little bit, you'll have a little bit better sense of what we're doing in conflation and flow network derivatives and catchment generation and DEM production.

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01:38:15,760 --> 01:38:21,119

Steve Aichele - USGS: And I... with that, I think that's everything I had to say.

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01:38:23,319 --> 01:38:26,279

Lynda Wayne: Thanks, Steve. Any questions for USGS?

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01:38:26,840 --> 01:38:29,680

Lynda Wayne: Yes, perseverance is the word.

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01:38:37,640 --> 01:38:51,039

Lynda Wayne: As most of you know, this presentation will be posted to the, NSGIC Knowledge Base. I will also... I'm grabbing these links and descriptors, and I think I'll also send out a message to the,

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01:38:51,159 --> 01:39:01,680

Lynda Wayne: to the community that has just these little nuggets that everybody's throwing into the chat, we'll send that out as well. So if you're not a member of the community, I highly recommend you go join.

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01:39:02,520 --> 01:39:05,079

Lynda Wayne: One last call. Questions for USGS?

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01:39:11,000 --> 01:39:11,960

Lynda Wayne: All right.

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01:39:13,279 --> 01:39:29,479

Lynda Wayne: Most of you are aware, one thing that we're trying this year is putting out a call for present... not presentations, but call for updates from individual states, rather than... we used to just kind of have a general, hey, who's doing what. We thought we'd structure it a little... try... try structuring it. If it doesn't work, we don't work.

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01:39:29,479 --> 01:39:38,880

Lynda Wayne: We put out a call to... so there's gonna be, basically 10 states, there were 11 this time, 10 states, each meeting, and we're gonna invite them to present.

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01:39:38,920 --> 01:39:39,479

James Seay: writing.

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01:39:39,479 --> 01:39:48,279

Lynda Wayne: And, I want to say thank you to Alabama, Alaska, and California for responding, and with that said, is it...

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01:39:48,600 --> 01:39:50,159

Lynda Wayne: Let me see, is it Shelby?

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01:39:54,680 --> 01:39:56,199

Shelby Hutcheson: Hello, can you hear me?

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01:39:56,640 --> 01:39:58,520

Lynda Wayne: We can! Go ahead, take it away.

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01:39:58,520 --> 01:40:00,760

Shelby Hutcheson: Right, I may start my video.

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01:40:01,119 --> 01:40:02,800

Shelby Hutcheson: If you wanna see me.

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01:40:03,039 --> 01:40:03,439

Lynda Wayne: We do.

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01:40:05,359 --> 01:40:12,960

Shelby Hutcheson: I'm Shelby Hutcheson, I'm the 3DHP Coordinator for the 3DHP Working Group.

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01:40:13,319 --> 01:40:17,079

Shelby Hutcheson: We're part of the Alabama Geographic Information Council.

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01:40:17,600 --> 01:40:23,880

Shelby Hutcheson: We're progressing with the development of a second 3DHP project in the Tuscaloosa region.

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01:40:24,039 --> 01:40:27,079

Shelby Hutcheson: And targeting local interests for support.

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01:40:27,520 --> 01:40:32,399

Shelby Hutcheson: We're building local support and seeking funding partners.

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01:40:32,600 --> 01:40:42,479

Shelby Hutcheson: with committed government champion and early partnership meetings are underway. Initial funding commitments serve as critical catalysts

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01:40:42,880 --> 01:40:46,800

Shelby Hutcheson: In our experience, once initial stakeholder commits.

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01:40:47,039 --> 01:40:51,760

Shelby Hutcheson: Additional investments tend to follow more readily, so we need that first.

311

01:40:52,119 --> 01:40:53,279

Shelby Hutcheson: Investor.

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01:40:54,199 --> 01:41:00,199

Shelby Hutcheson: Leveraging each dollar contributed with significant return from additional partners is important.

313

01:41:00,479 --> 01:41:07,640

Shelby Hutcheson: But, as y'all know, trying to explain the return on investment is challenging at this point.

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01:41:07,960 --> 01:41:16,800

Shelby Hutcheson: So, Dennis, I saw you out there. The education would be very important in explaining 3DHP to stakeholders, especially.

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01:41:18,359 --> 01:41:29,479

Shelby Hutcheson: So we're actively building local support and currently seeking our first stakeholder to invest in the project. Right now, we have Tuscaloosa County very interested in

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01:41:29,680 --> 01:41:35,039

Shelby Hutcheson: Putting their, you know, Putting their... they're very interested, first of all.

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01:41:35,479 --> 01:41:41,680

Shelby Hutcheson: So we think that, other agencies will follow suit after the initial investment in the project.

318

01:41:42,800 --> 01:41:46,439

Shelby Hutcheson: So, how we came upon,

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01:41:47,560 --> 01:41:53,279

Shelby Hutcheson: Tuscaloosa's a... as our first or second project, is we... we're prioritizing

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01:41:53,800 --> 01:42:05,079

Shelby Hutcheson: Acquiring LIDAR data collected within the past 5 years to keep up with the current 3DHP current and to minimize accuracies from human or natural landscape changes.

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01:42:06,319 --> 01:42:08,520

Shelby Hutcheson: But I think I've had a...

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01:42:08,920 --> 01:42:15,520

Shelby Hutcheson: I asked Susan if there was a rule about, you know, having LiDAR

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01:42:15,920 --> 01:42:19,439

Shelby Hutcheson: Being 5 years old or newer to the

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01:42:19,920 --> 01:42:25,600

Shelby Hutcheson: As a requirement, but it's not. But we're also trying to align with the 3DIPS

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01:42:25,840 --> 01:42:29,079

Shelby Hutcheson: 5-year refresh cycle, and are exploring

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01:42:29,399 --> 01:42:33,880

Shelby Hutcheson: Ways to synchronize collections by HUC and county boundaries.

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01:42:34,720 --> 01:42:38,039

Shelby Hutcheson: So we kind of are... we're trying to follow a...

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01:42:38,640 --> 01:42:41,520

Shelby Hutcheson: I guess you'd say a self-imposed guideline.

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01:42:41,720 --> 01:42:46,840

Shelby Hutcheson: That 3DHP should use LiDAR data with it flown within the last 5 years.

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01:42:47,319 --> 01:42:56,680

Shelby Hutcheson: We do this to keep 3DHP as current and up-to-date as possible, and what you're talking about earlier, staying aligned with the official 3D

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01:42:56,960 --> 01:43:03,039

Shelby Hutcheson: 5-year refresh guidelines, so... That's kind of where we're at, and

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01:43:03,239 --> 01:43:07,199

Shelby Hutcheson: You can see from the next slide the...

333

01:43:08,520 --> 01:43:13,640

Shelby Hutcheson: area that we're focusing in on, the western portion of

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01:43:14,439 --> 01:43:23,840

Shelby Hutcheson: the... on the left map, the western portion, the three Huck 10s, represent... One of the Huck 8?

335

01:43:24,039 --> 01:43:27,960

Shelby Hutcheson: And then... And then the rest of it is another Huck 8.

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01:43:28,960 --> 01:43:35,680

Shelby Hutcheson: But we're trying to... we did an intersect with where LiDAR and hucks

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01:43:36,239 --> 01:43:41,880

Shelby Hutcheson: intersect as far as a... I came up with a model for 5-year... 5-year-old

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01:43:42,119 --> 01:43:45,720

Shelby Hutcheson: age LIDAR and where the intersect would be.

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01:43:45,920 --> 01:43:53,239

Shelby Hutcheson: for the hucks, and we came up with this area, and the... we added additional huck 10s to try to get more...

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01:43:53,479 --> 01:44:01,920

Shelby Hutcheson: Municipalities... And in the investment, as you can see on the right, the more municipalities involved.

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01:44:02,119 --> 01:44:09,840

Shelby Hutcheson: It covers a large, a much larger portion of area, but also includes much more

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01:44:10,159 --> 01:44:14,560

Shelby Hutcheson: stakeholder investment, so it bring... what could bring the cost down

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01:44:15,079 --> 01:44:21,319

Shelby Hutcheson: Immensely, if we could get a lot more stakeholder investment, but... Right now.

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01:44:21,880 --> 01:44:27,119

Shelby Hutcheson: We... the county wants to cover If they can step in.

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01:44:27,479 --> 01:44:34,640

Shelby Hutcheson: they want to cover their whole county, so we're kind of focusing right now on Scenario 2.

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01:44:35,119 --> 01:44:41,399

Shelby Hutcheson: But, we're trying to reach out to those municipalities in, in, Scenario 3.

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01:44:41,840 --> 01:44:49,479

Shelby Hutcheson: But that's... that's the... it's a tough sell, so we're trying to... again, education and showing the value of 3DHP.

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01:44:50,119 --> 01:44:58,840

Shelby Hutcheson: It's hard right now, since there isn't much published, but, in explaining that, the importance of 3DHP.

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01:44:59,239 --> 01:45:03,560

Shelby Hutcheson: is... is... that's what we're trying to communicate to folks. So that's where we stand right now.

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01:45:06,039 --> 01:45:08,359

Lynda Wayne: All right, any questions for Shelby?

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01:45:14,560 --> 01:45:17,520

Lynda Wayne: Any commiseration for Shelby?

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01:45:17,520 --> 01:45:23,399

Shelby Hutcheson: Yeah, it's nice to see everybody. I'm starting to recognize folks on the call, like Dennis and..

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01:45:25,520 --> 01:45:30,800

Shelby Hutcheson: And, others I haven't seen in a while, so it's great to see everybody on here.

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01:45:31,760 --> 01:45:32,600

Lynda Wayne: Alright.

355

01:45:32,880 --> 01:45:40,039

Lynda Wayne: Well, yes, I'm certainly with you, Shelby. I love... I'm looking at the names going, yes, we're back.

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01:45:40,279 --> 01:45:49,479

Lynda Wayne: And I did want to follow up with that as well. Just, you guys, the extra work that both NSGIC and USGS put in to make this happen,

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01:45:50,119 --> 01:45:52,239

Lynda Wayne: It's pretty remarkable, so...

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01:45:52,640 --> 01:45:59,960

Lynda Wayne: Kudos to Lindsey and Sue, and Steve, and I'm sure 73 other people that, that made this happen.

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01:46:01,199 --> 01:46:08,159

Lynda Wayne: Alright, next up, we have... Alaska... And...

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01:46:08,840 --> 01:46:14,159

Lynda Wayne: I don't think that Leslie's on the call. Leslie, are you on the call by any chance?

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01:46:16,239 --> 01:46:19,399

Lynda Wayne: Anybody from Alaska that wants to...

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01:46:21,920 --> 01:46:27,479

Lynda Wayne: Because USGS, just a heads up, if they're not, you're probably the best people to speak to this, so...

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01:46:28,880 --> 01:46:33,640

Lynda Wayne: All right, Sue, Steve, can either of you kind of fill us in on these?

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01:46:33,640 --> 01:46:34,239

jhayden DPP-GIS: Boom.

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01:46:34,560 --> 01:46:35,840

Lynda Wayne: Sorry for...

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01:46:36,239 --> 01:46:38,800

Sue B: Sure, surprising you.

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01:46:38,800 --> 01:46:41,000

Lynda Wayne: slide, so I figured...

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01:46:41,000 --> 01:46:58,960

Sue B: Yeah, this looks kind of familiar. Yeah, and this is actually, somewhat dated. We don't have the planned, FY26 projects on, which will fill in a large part of the area, both in the southeast and in the Yukon and Kuscoquim, deltas, so those

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01:46:58,960 --> 01:47:11,640

Sue B: those big yellow, areas are what, largely, we plan to cover this, fiscal year. So you can see the stats, I won't read those. I will note that,

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01:47:11,640 --> 01:47:30,960

Sue B: USGS, particularly our previous Alaska program manager, who, left last year, Tracy Fuller, was working with Forest Service, in southeast Alaska, where, it's a rainforest, and it's very heavy, dense vegetation, so the IFSAR data, that we have for Alaska 3DEP

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01:47:31,520 --> 01:47:53,079

Sue B: is a little bit limited in some areas in that portion. So, Forest Service has been working on, delineating some data from, LIDAR resources

in those areas, and we're still working with them to determine how, if we can bring those data into the 3DHP. It'll probably be somewhat long-term.

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01:47:53,079 --> 01:48:03,880

Sue B: project that we need to work on, given that there's, a mixed DEM, and the rest of Alaska is based on, the 5-meter li- IFSAR data.

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01:48:03,880 --> 01:48:13,600

Sue B: So, but that data, at a minimum, will be a resource for, Forest Service in the state of Alaska until we can bring it into 3DHP officially.

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01:48:13,960 --> 01:48:32,840

Sue B: And I think, Steve's not Blue Map, we are working, to get the, accepted data, published as 3DHP, with some dedicated work, from our Utah Water Science Center folks, kind of focusing on, on publishing Alaska data.

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01:48:33,479 --> 01:48:35,399

Sue B: I think that's it? Yeah, there's...

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01:48:35,399 --> 01:48:37,560

Lynda Wayne: One more slide she had, hold on.

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01:48:40,479 --> 01:48:43,119

Lynda Wayne: A forestry project? I mean, a USF?

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01:48:43,720 --> 01:49:02,319

Sue B: Yeah, this is that, project I mentioned that, Tracy Fuller was working on with, Forest Service for them to do some delineations based on... I think they're doing... it's LIDAR, but there's also, potentially, some, resampled IFSAR data.

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01:49:02,319 --> 01:49:06,920

Sue B: That's being used as well. So these are the, the data sets that.

380

01:49:06,920 --> 01:49:19,199

Sue B: We, hope at some point to... to be able to bring into 3DHP, and or use as a reference, for IFSAR-based mapping until we can get these data into the 3DHP.

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01:49:19,760 --> 01:49:20,920

Lynda Wayne: Alright, great.

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01:49:21,159 --> 01:49:23,520

Lynda Wayne: Any questions for Sue on Alaska?

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01:49:27,039 --> 01:49:34,399

Lynda Wayne: All right, and then our last date today is California, and Jane, I'm going to apologize in advance, I was not able to get that last slide in, so...

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01:49:34,600 --> 01:49:35,279

Lynda Wayne: Just a heads up.

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01:49:35,279 --> 01:49:44,079

Jane Schafer-Kramer (CA DWR): Okay, that's fine. If anybody wants a visual, they can contact me, and I'll share it. But, okay, so...

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01:49:44,359 --> 01:50:05,199

Jane Schafer-Kramer (CA DWR): Our California hydrography stewardship Team, led by the California Department of Water Resources, with some funding that we get from the state's general fund, is actively developing elevation-derived hydrography for the fiscal year 25 DCA project, called the Feather River Headwaters, under a cooperative agreement.

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01:50:05,199 --> 01:50:07,640

Jane Schafer-Kramer (CA DWR): With California DWR.

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01:50:07,640 --> 01:50:20,520

Jane Schafer-Kramer (CA DWR): This project area is 3 Huck 8 units, covering 3,604 square miles, overlapping parts of 6 counties, 3 U.S. Forest Service units, and a portion of Lassen Volcanic National Park.

389

01:50:20,520 --> 01:50:33,920

Jane Schafer-Kramer (CA DWR): This is 85% funded by DWR and 15% by USGS. We selected these watersheds because they are the primary headwaters of our state water project.

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01:50:33,960 --> 01:50:42,079

Jane Schafer-Kramer (CA DWR): Which provides water to nearly two-thirds of the state's population and irrigates a lot of our farmland, 700...

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01:50:42,159 --> 01:50:59,640

Jane Schafer-Kramer (CA DWR): 50,000 acres, 750, yeah, 1,000 acres of farmland. So we did submit two proposals for, fiscal year 26, and, the one that was accepted is 5

392

01:50:59,680 --> 01:51:10,920

Jane Schafer-Kramer (CA DWR): Huck 8 units adjacent to these three Feather River headwaters units, but we're still awaiting the grant information, to get things moving on that.

393

01:51:11,199 --> 01:51:29,760

Jane Schafer-Kramer (CA DWR): These Sierra Nevada mountain and Foothill subbasins cover 4,501 square miles, extending into parts of the Sacramento River Valley. They overlap 6 counties and 4 U.S. Forest Service units, and the funding is DWR 70% and USGS 30%.

394

01:51:30,159 --> 01:51:42,720

Jane Schafer-Kramer (CA DWR): On that. And the LIDAR coverage for both of these projects is largely from a 2022 collection, which is QL1, but a mix of older QL2 collections.

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01:51:42,960 --> 01:51:45,439

Jane Schafer-Kramer (CA DWR): around the edges. So...

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01:51:45,600 --> 01:51:59,560

Jane Schafer-Kramer (CA DWR): The work is being done by our university partners. There's the California State University Northridge Center for Geospatial Science and Technology, and the California State University at Chico.

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01:51:59,680 --> 01:52:09,560

Jane Schafer-Kramer (CA DWR): North State Planning and Development Collective. So, they have production shops, and we work under inter... they work with us under interagency agreements.

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01:52:09,720 --> 01:52:16,199

Jane Schafer-Kramer (CA DWR): Building... building tools and workflows that we hope to share publicly eventually.

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01:52:16,279 --> 01:52:24,439

Jane Schafer-Kramer (CA DWR): We did submit another proposal that would have covered Los Angeles County and Channel Islands, but,

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01:52:24,439 --> 01:52:37,760

Jane Schafer-Kramer (CA DWR): USG has decided to wait until we've delivered on our first project before they invest in us anymore, which is, you know, understandable. So, we'll probably resubmit that one for next fiscal year.

401

01:52:37,760 --> 01:52:39,239

Jane Schafer-Kramer (CA DWR): Okay, next slide.

402

01:52:41,479 --> 01:52:51,319

Jane Schafer-Kramer (CA DWR): And, so independent of our stewardship team, there are two other, fiscal year 25 DCA projects that were proposed and accepted.

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01:52:51,319 --> 01:53:09,119

Jane Schafer-Kramer (CA DWR): And the work is being done under the geospatial product and services contracts by NV5. One of them is the North Bay Regional Hydrography Program. The project partner, Solano County, took the lead on that, covering 4,092 square miles, and

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01:53:09,119 --> 01:53:11,840

Jane Schafer-Kramer (CA DWR): All or parts of seven counties.

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01:53:12,199 --> 01:53:17,960

Jane Schafer-Kramer (CA DWR): And then, a little bit to the south of that is the Santa Cruz Mountain Stewardship

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01:53:18,079 --> 01:53:27,920

Jane Schafer-Kramer (CA DWR): network hydrography program covering 2,369 square miles, and includes 3 complete South Bay counties.

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01:53:28,039 --> 01:53:34,279

Jane Schafer-Kramer (CA DWR): The project partner, and lead on that is the San Mateo Resource Conservation District.

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01:53:35,159 --> 01:53:52,000

Jane Schafer-Kramer (CA DWR): Additionally, a small pilot study was conducted by DWR and the CSU partners last year to compare QL1 and QL2 elevation-derived hydrography features in response to statements and questions that we've

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01:53:52,000 --> 01:53:55,560

Jane Schafer-Kramer (CA DWR): We hear from the user community, including some folks

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01:53:55,560 --> 01:54:03,560

Jane Schafer-Kramer (CA DWR): that might be on the call today. One thing we've heard is, well, our data that we got done,

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01:54:03,680 --> 01:54:18,439

Jane Schafer-Kramer (CA DWR): is better than the USGS specs, because it was done with QL1 data. Can't we just resample our QL1 data to QL2? What do we lose in... in the

412

01:54:18,640 --> 01:54:32,760

Jane Schafer-Kramer (CA DWR): you know, do we lose something in the process of doing that? How much better is QL1 EDH data compared to QL2? And is there a path to conflate a fully derived QL1 product to meet USGS standards?

413

01:54:33,039 --> 01:54:50,560

Jane Schafer-Kramer (CA DWR): So, this project was presented at the 2025 Esri User Conference last year, and earlier this year at the CalGIS Conference. Slides from those presentations are posted on our, agency's open data site.

414

01:54:50,640 --> 01:55:06,279

Jane Schafer-Kramer (CA DWR): And so you're welcome to take a look at that. We presented the findings to Sue and Steve recently, and are in the process of incorporating their comments into our technical report, which we will release when it's ready.

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01:55:06,840 --> 01:55:26,119

Jane Schafer-Kramer (CA DWR): There's another independent project underway, which is not a DCA project, covering a large area of the North Coast and Far Northern California. The partners include, the North Coast Resource Partnership and U.S. Forest Service, and they've contracted directly with NV5.

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01:55:26,119 --> 01:55:28,920

Jane Schafer-Kramer (CA DWR): So, they're doing it this way

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01:55:29,479 --> 01:55:37,479

Jane Schafer-Kramer (CA DWR): probably because they need the data right away, and they don't want to wait for it to have to go through the USGS process. However.

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01:55:37,640 --> 01:55:48,119

Jane Schafer-Kramer (CA DWR): as I understand it, with the data... information shared with me by NV5, they are doing it to the 3HP standards.

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01:55:48,119 --> 01:56:01,920

Jane Schafer-Kramer (CA DWR): That USGS has published, and the plan is for this elevations right hydrography to eventually find its way into the

3DHP. Hopefully there will be a process for contributed data at some point.

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01:56:02,399 --> 01:56:20,600

Jane Schafer-Kramer (CA DWR): And then last week, our CSU partners presented some of the EDH tools that they've developed at the American Water Resources Association 2026 Geospatial Water Technology Conference, and those slides are also posted at the link I shared.

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01:56:20,880 --> 01:56:26,960

Jane Schafer-Kramer (CA DWR): And so that's... that's all I've got for now. Happy to take questions.

422

01:56:28,720 --> 01:56:30,000

Lynda Wayne: Questions for Jane?

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01:56:33,680 --> 01:56:44,159

Lynda Wayne: I'm gonna go ahead and advance to the closing slide, but, I am catching up here. Stuart offered to provide a little update on Connecticut. So, Stuart, go ahead.

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01:56:44,520 --> 01:56:57,399

Stuart DeLand, CT DEEP: Hey all, I'll keep this quick. I'm kind of covering for, Alfredo Herrera and the lead of our project, DeAva Lambert, for Connecticut for, 3DHP, but, we are wrapping up,

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01:56:57,439 --> 01:57:21,479

Stuart DeLand, CT DEEP: LiDAR collection for, the entirety of Connecticut, as... well, it's done, so we're getting into QA/QC for 2026, and we'll be using that in conjunction with our 2023 LiDAR collections for, getting into the, project that we... that the USGS selected, us for, for, for integration into the Connecticut and New England,

426

01:57:21,479 --> 01:57:35,520

Stuart DeLand, CT DEEP: DCAs. Sorry, I can answer email... I can forward questions, if there are any, for Connecticut, to the proper people, but, happy to, happy to take any questions through email or, or here.

427

01:57:35,880 --> 01:57:50,800

Lynda Wayne: And thank you, Stuart, and as most of you are aware, that this was a regional project, and I know a lot of us, putting together our DCA and worry about working across state boundaries and things like that, so Stuart and team are a good resource for that information.

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01:57:51,119 --> 01:57:52,319

Stuart DeLand, CT DEEP: Thank you.

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01:57:52,880 --> 01:58:10,960

Lynda Wayne: Yeah, so real quickly, upcoming activities. We're gonna start some outreach. If you're interested in this training materials outreach, or the training materials, maybe collaborative, working together, please contact me directly. We'd love to get a small team, moving forward on that.

430

01:58:11,000 --> 01:58:18,000

Lynda Wayne: Reminder, June 9th is the USGS Tribal Notification Presentation. That does require registration.

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01:58:18,119 --> 01:58:32,119

Lynda Wayne: We'll meet again here, June 23rd, the interest group meeting. If you have thoughts or something in particular you want to cover during that meeting, please contact me, and the state reports will be Hawaii through Maryland, so we'll reach out to them.

432

01:58:32,239 --> 01:58:46,439

Lynda Wayne: July 14th, of course, the State Hydrography Stewards Meetup at ESRI, and then July will be a USGS Hydrography community call on that fourth Tuesday. And again, you need to join to get that call in.

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01:58:46,439 --> 01:58:54,159

Lynda Wayne: information. I introduced the characters earlier. Here is their contact information if you need to reach out to anybody.

434

01:58:54,159 --> 01:59:06,359

Lynda Wayne: And with that said, I just... I cannot tell you how glad I am to be back, and looking forward to getting some work done, and I'll just leave it open. Anybody else have any closing comments they'd like to share?

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01:59:10,840 --> 01:59:11,720

Phil Worrall (IN - Retired): Hey, Lynda?

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01:59:11,960 --> 01:59:16,439

Joshua Greenberg (He/Him): Phil has his hand, sorry. He's, he's more, he's more polite than me.

437

01:59:16,439 --> 01:59:18,520

Lynda Wayne: Yes, Phil.

438

01:59:18,520 --> 01:59:32,680

Phil Worrall (IN - Retired): A question for the states, not only the ones that have talked today, but are also on the call. I'm just curious, has any state taken the initiative to designate

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01:59:33,000 --> 01:59:41,600

Phil Worrall (IN - Retired): The new 3DHP data as their state or local government authoritative, data source.

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01:59:41,680 --> 01:59:55,640

Phil Worrall (IN - Retired): Because many of them are... I know in Indiana is the case, you know, many of our regulations and policies and laws are still written back in the blue lines on the quad map, and it seems like

441

01:59:55,840 --> 02:00:00,560

Phil Worrall (IN - Retired): That has to change here, and it might be the...

442

02:00:00,800 --> 02:00:16,880

Phil Worrall (IN - Retired): the... the motivation to, to find funding and find support for this program if... if... if that were to happen, as this data is also being developed. I'm just curious if any state's already taken that... those steps.

443

02:00:23,199 --> 02:00:23,640

Joshua Greenberg (He/Him): Washington.

444

02:00:23,640 --> 02:00:24,560

Lynda Wayne: Go ahead.

445

02:00:24,560 --> 02:00:41,319

Joshua Greenberg (He/Him): Washington has, we have adopted new language to replace... NHD used to be the data standard from our GIO. We have moved it to 3DHP, but we had to kind of do a grandfathering clause to say you have

446

02:00:41,319 --> 02:00:46,159

Joshua Greenberg (He/Him): Some time to adopt, because we have one small huck.

447

02:00:46,199 --> 02:00:49,760

Joshua Greenberg (He/Him): that's been updated. So, we have not...

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02:00:49,920 --> 02:00:55,640

Joshua Greenberg (He/Him): it's supposed to, I think, really go into effect or become a demand in 2030.

449

02:00:56,800 --> 02:01:02,800

Lynda Wayne: I... it's a little late for this discussion, but understanding that, and again, USGS can correct me here.

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02:01:03,640 --> 02:01:19,760

Lynda Wayne: There's, you know, this is... data was not developed for policy purposes. I'd be really interested in the careful language you all are using to say this is the data you should be using, but maybe not the data you have to be using. Sue, Steve, would you like to chime in on that?

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02:01:23,560 --> 02:01:24,920

Steve Aichele - USGS: I think maybe I...

452

02:01:25,159 --> 02:01:31,720

Steve Aichele - USGS: to say it's not for policy purposes is maybe not quite right, but it is... I mean, it is not a regulatory data set.

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02:01:31,720 --> 02:01:32,319

Lynda Wayne: Okay.

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02:01:32,319 --> 02:01:41,239

Steve Aichele - USGS: It is... it certainly can be used to inform, you know, regulatory decisions, but we really want to try to keep it

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02:01:41,600 --> 02:01:47,199

Steve Aichele - USGS: away from... You know, being a strict indicator of

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02:01:48,479 --> 02:01:52,199

Steve Aichele - USGS: Someone has to do something, or someone doesn't have to do something.

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02:01:53,840 --> 02:01:58,720

Lynda Wayne: All right, well, I think this would be a good discussion. Thank you for bringing this up, though. We can see how people are,

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02:01:58,920 --> 02:02:02,439

Lynda Wayne: How they're implementing NSD as an authoritative data source.

459

02:02:05,359 --> 02:02:07,560

Lynda Wayne: And then, Josh, you had something else you wanted to share?

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02:02:08,760 --> 02:02:09,920

Jose m acosta: Exactly.

461

02:02:09,920 --> 02:02:19,960

Joshua Greenberg (He/Him): I typed it in the chat, but we are still working with the Esri Archhydro team to develop tools to help connect your data to..

462

02:02:20,279 --> 02:02:37,520

Joshua Greenberg (He/Him): Either elevation-derived Hydro or 3DHP. We'll be rolling out our Phase 2, which are the snapping tools. We hope to do that at the Esri UC, and we will be putting a lot of that information on our webpage shortly.

463

02:02:37,520 --> 02:02:50,920

Joshua Greenberg (He/Him): So the first set of tools is creating linear reference networks off of EDH or 3DHP. We have a 60-page cookbook on how to do that, and then hopefully soon we'll have the snapping tools to accompany that.

464

02:02:50,920 --> 02:02:52,960

Jose m acosta: United States, but as a fan of the.

465

02:02:52,960 --> 02:02:53,680

Lynda Wayne: I'm sorry.

466

02:02:53,680 --> 02:02:54,399

Jose m acosta: Bye.

467

02:02:54,399 --> 02:02:58,039

Lynda Wayne: Can't figure out who's... talking now.

468

02:02:59,720 --> 02:03:01,960

Lynda Wayne: Go ahead, Josh, I didn't mean to interrupt.

469

02:03:01,960 --> 02:03:17,039

Joshua Greenberg (He/Him): That's okay. So that's... if you are able to attend the UC, please, look me up. If not, I'll announce shortly, those, those new tools. But I also posted them to the interest group, that 60-page document.

470

02:03:17,039 --> 02:03:17,560

Lynda Wayne: Excellent.

471

02:03:17,560 --> 02:03:24,680

Joshua Greenberg (He/Him): is in the... I don't know if it's in the discussion or library, but it's... it's in, the 3DHP,

472

02:03:25,640 --> 02:03:26,479

Joshua Greenberg (He/Him): link.

473

02:03:26,600 --> 02:03:30,359

Joshua Greenberg (He/Him): Or whatever we call that. The NSGIC Discussion Forum.

474

02:03:30,560 --> 02:03:46,520

Lynda Wayne: Right, and again, you all, that's for you all to talk. It's not a one-way mechanism, so I like seeing when folks are posting their... their information. So again, I want to thank you all for participating. I appreciate your input.

475

02:03:46,760 --> 02:03:56,600

Lynda Wayne: And, oh, I did want to mention, after hearing all of these applications and stuff, we have pitched, it has not been accepted, but we have pitched to have a

476

02:03:56,600 --> 02:04:12,960

Lynda Wayne: 3DHP Happy Hour at the NSGIC Annual Conference, whether that'll be expanded beyond 3DHP, whether it'll even happen. So, just a heads up, things like this, we'd love to have people sit down and play with these incredible res... these great resources, so...

477

02:04:13,840 --> 02:04:18,479

Lynda Wayne: All right, with that said, last call, fill your hands up again, or still, or...

478

02:04:18,640 --> 02:04:19,960

Phil Worrall (IN - Retired): No, sorry.

479

02:04:19,960 --> 02:04:23,520

Lynda Wayne: That's okay, I... I'm getting confused in.

480

02:04:23,800 --> 02:04:36,760

Lynda Wayne: All right, sorry to go a little over, debating whether we need to make this an hour and a half meeting, if we have more than three states show up for, presentations, but thank you all, good to see you all, and we'll talk to you next month.

481

02:04:37,640 --> 02:04:38,600

Phil Worrall (IN - Retired): Thanks, Lynda.

482

02:04:38,640 --> 02:04:39,840

Sue B: Thanks, Lynda.