Brittany (Guest)

 joined the meeting

**PA**

Propp, Alan (EOM)0:33

Uh, cover the the first few items.

So number one, I wanted to give the opportunity to introduce some of the new AV program staff and Stephanie, can I just have you mute for now just cuz I'm getting some background noise?

To get to introduce some of the new program staff in the V team at TD dot, give some updates there. I know we have other folks who either are new or have joined in new roles and new capacities. We're not gonna go through introducing everybody, but I do want to focus on the AV program. Staff at CDOT will then move into an update on the autonomous vehicles rulemaking and give some time for questions there.

Umm. And then I know it's definitely wanted to cover coordination leading up to driverless testing, so about 10 minutes for discussion there.

And then we have cut out some time for the mobility innovation district to give a presentation and update on their progress.

And with AVAV work in the Southwest bid and then we have about 15 to 20 minutes at the end, if we stay on track here for questions, open discussion. Anything else folks wanted to cover? So if you have questions or comments or concerns, please feel free to bring them up at that time. But to start with, I will go ahead and turn it to Stephanie. Do you at D dot to introduce the new AV program staff?

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Matthew Lesh

 joined the meeting

**PA**

Propp, Alan (EOM)1:59

And I'll stop sharing my screen here.

**DS**

Dock, Stephanie (DDOT)2:00

Great.

Well, hello everyone again.

**SJ**

Scott, Jamie (DMPED)45:07

What's that?

**LA**

Lexie Albe45:07

Uh, that you're muted.

They I think you're muted.

**DF**

Dastgheib, Faye (DFHV)45:17

I was talking for a minute or two. I see a question that Susie raised and the chat. Hi, Susie. Good to see you again. It's been six years, but I still remember our conversations when we were working on the web top meter program about accessibility.

Could you like talk about a little bit about what percentage of these are accessible to lose your users, but also not only just wheelchair users but electric wheelchair users?

**LA**

Lexie Albe45:46

Yeah. So for the rollout, it will just be one vehicle that will be on demand. We have some flexibility to revisit that.

Basically immediately. So that's kind of a a large unknown for us. And so we are planning to to alter that as needed, but it will begin with one that will be on demand to flex in to meet those needs.

**ZB**

Zachary Baldwin46:10

Yeah. And as I put in the chat, I believe it holds one wheelchair at a time. And then there's a system for securing the.

Yes. And then James answer your question, the app is accessible it it's like I don't know the specifics of it, but it was, it was definitely pitched to us as a, as an app with with.

Uh accessibility features built into it. Not 100% sure about vision disabilities though.

**DF**

Dastgheib, Faye (DFHV)46:37

Yeah, this is great. Thank you. And I think there's a lot of opportunities in the future to partner.

Umm. Especially because the FHP runs enabled Connect program that operates in two zones now, and I think there's there's a lot to discuss and share that we could benefit from because we haven't seen each other in a way and in the future I'm not sure like we should talk about.

Ways to figure out how we can offer like 1 app instead of like different apps to people to use different apps for hailing vehicles in different parts of the city. But that's a longer term conversation.

**ZB**

Zachary Baldwin47:11

Absolutely.

**LA**

Lexie Albe47:11

Yeah.

Any other questions from folks?

If not, Alan, I will turn it back over to to you for the open discussion piece, I guess.

**PA**

Propp, Alan (EOM)47:34

Yeah. Thank you. I appreciate it. That was a great deep dive. I I hadn't I I'd read about it a lot and I hadn't seen that deep of a dive ever. So I appreciate it.

Well, that's that's the sum total of our agenda today. I know we have 10 minutes left, so I wanna cut out some time for questions here. Still the the two things I will mention just.

Umm, before we we open it up to questions #1.

I know we had been kind of on on the last few meetings going and and planning the next meeting after we have our meeting. My goal is good to gonna be to plan all of the meetings for 2023 out in advance. After this meeting just so we have null and everyone's calendar. So I will be sending an e-mail after this probably early next week to get your all's preferences for timing of those meetings. So that's #1. #2 is every time I there's like you know 50 to 70 people on this.

And every time I send out an e-mail, I get more and more bounce backs from folks who have moved on from organizations. So just asked y'all what, when you hop off to take a look and see if there's anyone on the list who has moved on from your organization or should be replaced.

Just so that I I'm keeping the list as up to date as possible because some of the bounce backs don't have any information on who it bounced back from. It is just a generic message so please do let me know if there's anyone who should be added to this list or removed if you take a look at the invite.

Beyond that, I will just go ahead and open it up for questions. In our last 9 minutes. So is there anything else folks had that they wanted to address today?

Yeah, Charles, go for it.

**GC**

Guddemi, Charles (HSEMA)49:23

Alright. Thank you, Alan. Good afternoon everyone. My name is Charlie bademi. I'm work for DCH. Seema. I am the statewide interoperability coordinator, otherwise known as the SWIG.

I haven't really heard any connectivity.

Requirements. So is the goal to use cellular technologies for our AV or ARCTOS DC net Wi-Fi and the reason I ask, I don't know if Mr Wolf is still on there, but you could hear frustration from industry. I deal with the cellular carriers all the time and there's a lot of industry frustration for expanding capability within the district. So my first part of the question, I guess Stephanie, to you from a data perspective, are you working with the D dot folks in charge of the small cell?

A project to get 5G to running throughout the district and then for some of the other people that are looking at these AV projects.

Do you know what your requirements are for bandwidth for these vehicles? Do you plan on using LTE or you're hoping to get to 5G? Have you done some drive testing for upload download? Because AV requires a you know perfect latency in order to operate. Otherwise we're gonna have a big mess out there, so that's just my concern. Is the DC Swick has connectivity been taking into consideration? Thank you Alan, over.

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Marshall, Kathryn B.

 left the meeting

**DS**

Dock, Stephanie (DDOT)50:48

I can start Charles.

I think it's certainly been thought of in some regards within D dot certainly.

Any kind of agency supported deployments, we would certainly be looking at that.

Would also be looking for the operators to talk about what they need.

Umm, right now we are not running much in the connected vehicle space, which is where on the D dot side I think we tend to most as far in this is you're dealing with someone who's technical. Technical, technical limits are about to come very visible.

But on the connected side, we would absolutely need to be talking about interoperability and and band. You know the the the spectrum question we have kind of not in almost intentionally not really pushed into the connected vehicle space very much. We don't have roadside units that are communicating in part because we're waiting to see where the industry was going to fall on DSRC versus 5G.

So that's that's been a question there I think on the industry side, I have not had that conversation. So would defer to folks like API as to how much is actually needed. I know we have lift and forward on the line or had them on the line.

So that's kind of where I am, I don't know.

If anyone else has particular thoughts on that but.

How much the vehicles actually need ongoing connectivity, I think somebody asked earlier about teleoperation.

I am very this is just my personal opinion, not dead. That's full opinion, but very concerned about teleoperation in an environment where we don't necessarily have where we probably do have latency issues.

**GC**

Guddemi, Charles (HSEMA)52:25

Yeah. The other concern is and you know, we brought up the nation's capital from a jurisdiction standpoint, we kind of lead the league in mass gatherings and the mass gatherings impact the cellular congestion network performance. So when we're talking about latency, that will be the first to go. So if the requirements are just to push data, that's one thing. But if we're talking about full stream video from all of these vehicles, that is a huge bandwidth consumer and then you're testing has to take into consideration.

Uh. The time period, you do it. So we got the presentation from the Southwest bid or do you plan on doing any testing when the national Stadium Ball game lets out and you have 42,000 people now hitting the streets and trying to Uber and trying to tell their loved ones on my on my way home? And what's it gonna do for those cell towers in that area? So these are just some of the points I'm bringing up. You know that we have to worry about connectivity in the future.

So it's kind of my world. I am a DC resource for all of you. Just consider me. I'm the DC Swick, so keep me in mind. But those are some of the questions because we definitely need to get the cellular industry involved in some of the stuff. And then DoD, DoD holds a big card because they're in charge of a small cell program for the district. So, you know, you guys are looking at it from overseeing the.

UV program but also you have somebody under your shop there that's in charge of the small cells, which is a big part of it though.

Thank you.

**PA**

Propp, Alan (EOM)53:54

Thanks Charles.

Well, if there's nothing else.

I will go ahead and wrap this up here and just say thank you both. Well. I'll say for three things. Thank you for your your attendance, for your engagement with us on this and for your patience as we deal with the turnover and roll out rulemaking and the formal program. We really appreciate continuing to engage on this. We are excited about this and looking forward to moving ahead and it is not for any lack of trying, it is for lack of.

Of staffing right now, but we're really optimistic that that is gonna like shift basically as we speak into fuller gear. So thank you very much for for joining appreciate all the presentations. As I said, I will be following up with scheduling for 2023, but because we probably won't speak again before then, I hope everyone has a wonderful holidays and a happy New Year and and looking forward to seeing you all in 2023.

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Marisa R-M (Lyft)

 left the meeting

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Brandon Schall

 left the meeting

**PA**

Propp, Alan (EOM)55:06

Thanks everybody.

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Cocuzza, Christopher (DGS)

 left the meeting

**KA**

King, Angela (DISB)55:07

Thank you.

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Brittany (Guest)

 left the meeting

**DS**

Dock, Stephanie (DDOT)55:08

Thanks Alan.

**SJ**

Scott, Jamie (DMPED)55:08

Thanks.

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James Elliott

 left the meeting

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Cameron Rohall (Ford)

 left the meeting

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Guddemi, Charles (HSEMA)

 left the meeting

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Scott, Jamie (DMPED)

 left the meeting

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Schwartzman, Rebecca (OP)

 left the meeting

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King, Angela (DISB)

 left the meeting

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Propp, Alan (EOM)

 stopped transcription