



MEETING SUMMARY

Meeting: System Technology & Data Security Subcommittee
Location: Teleconference
Date: May 23, 2022

Attendees:

Name	Organization
Zack Hudgins	WaTech
Brittany Jarnot	Washington Technology Industry Association (WTIA)
Steve Kollmansberger	Washington State Department of Transportation (WSDOT)
Trey Baker	WSP USA
Michael Schutzler	WTIA
Theresa Ramsdell	Tesla Owners Washington
Jill Satran	Washington State Transportation Commission
Omari Stringer	Seattle Information Technology Department
Scott Waller	5G Open Innovation Lab
Jim Brisimitzis	5G Open Innovation Lab

INTRODUCTIONS

Zack Hudgins & Michael Schutzler

- Introductions
- Walk through agenda

Topic closed.

Legislative Items of Interest

Zack Hudgins

- No items identified by the group

Topic closed.

DRAFT AV Pilot RECOMMENDATION OUTLINE AND SCHEDULE

Zack Hudgins

- Staff for the work group meet occasionally and have discussed an AV pilot project in terms of what it should look like.
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- Should the pilot be prescriptive, should it be more open ended in terms of identifying problems that might be addressed.
 - Two draft documents have been released by the group. One is a schedule and the other is an outline of recommendations. Zack will provide both documents to the group.
 - There will be additional reviews and the draft documents will likely be updated relative to their current form.
 - The legislature would likely have to approve it and may put some money aside.
 - Looking at several different pilot options, from trucks to downtown shuttles integrated with Smart City Components.
- No additional thoughts or questions provided by the group.

Topic closed.

5G OPEN INNOVATION LAB

Scott Waller and Jim Brisimitzis

- This topic builds off what the group worked on in January.
 - There is a lot of public and private data moving around and the group needs a better idea of what is out there.
 - Data is not limited to traffic only and includes things like construction data.
 - The 5G lab has done some work examining issues associated with all this data.
- Scott Waller has spent the last 25+ years as a telecom engineer for Microsoft and Cisco.
 - He helped build the platform for Azure and others.
 - He also runs an IOT company focused on air quality.
 - For this presentation, we will summarize some things the 5G lab has been working on and provide some examples in applications like agriculture.
- There is a group of founding enterprise platform providers like Microsoft and T-Mobile.
 - The idea is to be circular with no-equity to work on connectivity solutions for hard to address challenges.
 - The objective is to have a neutral playing field.
 - The lab has seen a lot of traction use cases, such as using edge computing for connected vehicles.
 - However, these applications are biased based on who is providing the service and product.
 - The lab is focused on neutrality for things like machine vision, AI, etc.



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- Scott is responsible for infrastructure and the physical lab for testing sensors, 5G, etc.
- The lab is giving startups exposure to the large enterprise companies and helping to build out testbeds.
 - The physical facilities are in Bellevue, but others will be developed out there in agriculture and other settings.
 - There is funding and financing involved with the labs work but, again, the focus is on being unbiased.
- There are various stakeholder challenges with public / private initiatives.
 - With pilots there are any number of 3rd party providers and it can be a challenge to map out everyone's role, where the data is flowing, and how it can be accessed.
 - There is further complication with the inclusion of local and state agencies who deal with the actual physical infrastructure (roads, utilities, sewage, etc.).
 - These agencies may have capabilities of their own or they may use other third parties.
 - Federal agencies are another partner, as they have funding as well as specific needs for data.
 - Universities are another stakeholder and have their own rules about sharing data, intellectual property ownership, etc.
 - Departments within universities may have their own rules depending on the funding source.
 - The key point is that there are significant differences in capabilities among jurisdictions. Furthermore, there are personal privacy considerations underpinning all of this.
 - Different stakeholders have different sensitivities. There will also be differences in disclosure requirements among partners.
- The lab has done a significant amount of work with wildfire sensors
 - Originally these were developed for use by firefighters. Since then, the lab has engaged a number of other agencies.
 - One new application is the assessing "wine taint." Researchers were interested in looking at how smoke exposure impacts wine. Washington Wine provided funding and there will now be a network of sensors along the coast.
 - Many stakeholders will eventually want to use this data as it pertains to public health as well as farmers and businesses. The audience for data sets like these is growing.
 - Carefully consider who is funding initiatives as that tends to define who gets the data. They may make it available (with stipulations) or just make it open.



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- Clearly define the rules and responsibilities for data sharing or some entities will resist. The more bounds that are placed on the data, the easier it is to go back and make stakeholders share.
- Privacy is another factor to consider. There are contractual as well as litigious considerations.
 - For example, grapes are often pooled for wine making and there are contracts dictating how that occurs. Data on smoke exposure might be useful in settling claims for crop losses.
 - Data sharing agreements need to be placed within a legal framework. There may be a large clearinghouse of data, but it is typically filtered to users based on their need.
 - Consider the needs of core users first, with access by everyone else being “nice to have.”
- Rural Connectivity is a challenge.
 - The state has good connectivity on the Western side of the state, but not the east side.
 - However, there is demand for automated farming applications. Providers are unable to transmit large amounts of data to the cloud in these areas, but farmers are very interested in automating fertilizer application and pesticide spraying processes.
 - The topography of the region complicates things further. Such challenges are not present in other farming areas like Iowa.
- In closing, understanding the stakeholders and complexity of the agencies is the key challenge.
- Questions or comments from the group:
 - Early adopters of high tech appear to be in agriculture.
 - It is not something we often hear but it makes sense.
 - However, there cannot be autonomous vehicles without high reliability, low latency, high volume data connectivity.
 - The notion of “autonomous” is a misnomer. Such systems are more akin to a “hive-mind” of other systems that make it work.
 - This group has been discussing what various entities are doing with their data and addressing specific challenges.
 - The Washington legislature has been trying to come up with data privacy language but has been unable to.
 - This group needs to upgrade and widen its discussions because it has been focused just on the companies and not these other users like the agriculture industry.



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- The group is getting better illumination now as to what sort of solutions are being developed.
- Zack spoke to Scott and Jim and gave them a summary of the working group and noted that this is a good illustration of how to get the word out about solutions and how important connectivity is to being successful.
- In the time Scott spent time doing Smart Cities work with Cisco, the company wanted to empower agencies and companies to build these systems.
 - However, there were way too many stakeholders.
 - Lots of companies came to the agencies with technology solutions and wanted to use their cameras/sensors but could not because of privacy considerations.
 - Not everything is controlled at the state level, which would simplify things but there would still be challenges.

Topic closed.

OPEN DISCUSSION AND TOPICS FOR FUTURE MEETINGS

Zack Hudgins & Michael Schutzler

- Michael has introduced several potential topics for the group to consider.
 - Michael to spend some time offline with the 5G Lab and discuss notion of jurisdictional issues on data interchanges.
 - There's been an open discussion on how to do a handoff.
 - Would like to know what the folks at the lab have found and where they can direct us.
 - We have been myopic in thinking nobody else is considering this but Pittsburgh, for example, is way ahead.
 - Our charter is about data privacy issues, would like to see how others are handling this.
- Arizona is also doing some work. The next meeting is likely 6 to 8 weeks out. We might use that meeting to have Michael come back and discuss these issues.

Topic closed.

MEETING ADJOURNED.
