

News From and For the Washington GIS Community

# THE SUMMIT

## President's Column

Tami Faulker, Thurston County, WA

Spring... flowering trees, green leaves, lawn mowers running in the distance, and the Washington GIS Conference just go together (along with rain, but we can't have everything).

That's right. It is time for our annual conference. For the second year this conference will be a remote event. There are advantages and disadvantages to hosting the conference remotely, but the WAGISA Board had to make the decision for how to do the conference months ago and this was the decision reached with the information we had at that time. One advantage we have this year is the experience gained from last year and all of the great feedback we received from you.

Several traditional features of our annual conference will continue, even in a remote forum. The first of those is the opportunity to hear an interesting keynote. Our keynote will be John Nelson of Esri. His talk is called Cartography, Hackology, and Geoshenani-

gans. John Nelson is a map maker, software experience designer, and writer at Esri creating fringe geographic data, curious web experiences, moderately-educational blogs, and marginally-instructional videos (his words, not mine!). He works in a small woodshed in Michigan and relishes the opportunity to chat with other map folks.



For more information please check out his work here: [https://www.esri.com/arcgis-blog/author/j\\_nelson/](https://www.esri.com/arcgis-blog/author/j_nelson/)

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**It's Here!**  
 2022 Washington GIS Conference  
 May 24-26  
 See pages 6-7 for highlights

(President's Column; [continued](#) from page 1)

Adventures in Mapping blog: <https://adventuresinmapping.com/>

Other continuing features include our annual board elections, the Summit Award, the Dick Thomas Student Competition award, as well as our annual board meeting with the members.

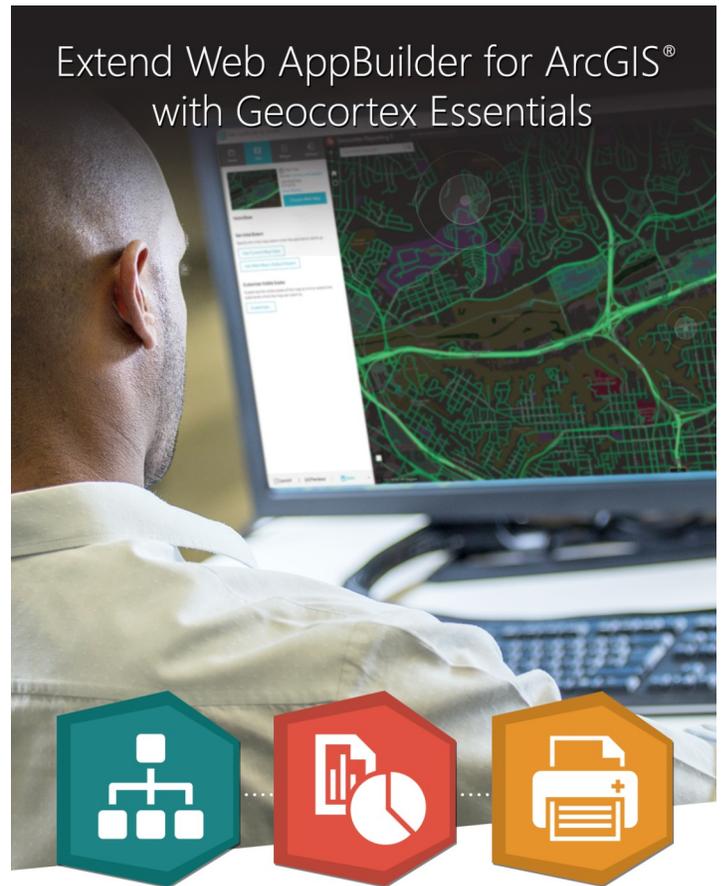
One of the biggest disadvantages, in my mind, to having a remote conference is the difficulty getting together with each other in person and network. I have a GIS friend I only see at the conference every year and I met him at my first conference over 20 years ago. It has been three years since I have seen my friend and I miss that (shout out to you, Rick Lortz!). I miss seeing so many of you.

This year we are adding a hybrid aspect to the "gathering" so we won't completely miss out on all of the networking benefits of the conference. There will be in-person socials in various locations across the state. They will be conducted either Tuesday, Wednesday or Thursday evening (May 24, 25th or 26th) in Tacoma, Wenatchee, Seattle, Mount Vernon, and Ellensburg. Board members have already committed to attending in various locations. You can find out about all of these socials on our website: <https://wagisa.wildapricot.org/socials>.

A couple of advantages to a remote conference is the cost, which is lower and the proliferation of virtual event platforms. This year, we're using Zoom Events. It is an all-in-one platform offering plenty of opportunities to interact and network with industry experts. Attendees will be able to access the virtual conference hub a few days early to create and personalize their own itinerary and bookmarks.

We have an excellent group coordinating the conference this year, including an energetic conference coordinator, a fantastic board conference liaison, and a great and committed conference committee, bringing all of this to you. I want to take this opportunity to give my first expression of my deep appreciation for all of the work they are doing to bring this great event to you all. I know they are working hard and committed to providing you with the best event possible. I look forward to enjoying the conference with all of you! 🌊

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# 2022 Portal Summit Brings Regional Agencies Together to Share Knowledge

*By: Stephen Beimborn, City of Seattle  
and Christina Chelf, City of Tacoma  
Co-hosts of the 2022 Portal Summit*

**G**IS Professionals from over forty different organizations across Washington State gathered on May 21st in an online forum to discuss their experience implementing and operating Esri's ArcGIS Enterprise Portal software. The participants and speakers represented cities, counties, state agencies, tribes, utilities, small businesses, and colleges, all of which are operating "a Portal", are in the process of implementing one, or are thinking about it very seriously.

The Washington Government GIS Leaders (WGGL) group, a special interest group of WAGISA, organized the program and hosted the 2022 Portal Summit on the Zoom Events platform. This year's 2022 Portal Summit was a follow-up to the 2020 Portal summit, an in-person event held two years ago, with a standing room only crowd in a conference room on the top floor of one of King County's office buildings in downtown Seattle.

Joshua Greenberg, who organized the first event, kicked off this second Portal Summit by recalling that back in February of 2020 "we were packed shoulder to shoulder. You don't see that as much anymore. We were standing room only. It was a huge success. I think everyone enjoyed it, but there were a couple of folks who could not make it because they had fevers. There was this weird thing going on overseas and we weren't sure what was going to happen here. Sure enough, everything shut down." Indeed, later that same month, the first wave of pandemic deaths in the United States occurred just across Lake Washington in Kirkland.

"A lot of things have changed since then", continued Greenberg. "A lot of you are working from home. That used to be something you had to get all kinds of permission to do. Zoom and Teams have become commonplace. And use of the word 'pivot' has increased by 2000%. During that original meeting, we said we were going to follow-up with answering questions, but that got a little bit delayed. I am so excited that we've got a lot of people here today that are really interested in what's going on with Portal.:

Josh organized the event with help from members of the WGGL group, which he chaired at the time, but the concept for the event originated at Josh's house a year earlier, in 2019. "After a social, Peter Keum, Ed Whitford and I just started talking in my driveway and realized that a lot of people would probably want to talk about this Portal stuff. Everyone was scratching their head about how to do it. With Peter's help, we reserved a space at King County and thought we'd have thirty or forty people, but we maxed out the place with over one hundred people." The rest is history. This year's event was equally popular, with over one hundred participants once again.

While it was not apparent in early February of 2020 what was about to happen, it was clear that most agencies in our region were drawn to the exciting capabilities of ArcGIS Enterprise Portal, yet few of them had "gone live", and even fewer felt they were well versed in the configuration and administration of the software. Clearly it would be helpful for all the aspiring Portal gurus to get together and compare notes, rather than scratching their heads in isolation.

Aside from the fact that the second Portal Summit was conducted as a virtual event, both Portal Summits had much in common. Both provided a full day of presentations and panel discussions on such topics as Portal architectures, policies and best practices, implementation approaches, tools for monitoring performance and managing data, and approaches to keeping track of users. Questions from the audience were addressed by experienced speakers and moderators, each a leader from agencies both large and small. Each of the speakers shared what they had done and what they had learned as they have implemented the software, the architectures they have chosen, the obstacles others should avoid, and their plans for the future. Also contributing to the discussion were senior technical advisors from Esri, who attended to support and inform the GIS community by providing their perspective.

While in 2020, few agencies felt they were fully operational with "their Portals", by 2022 most were... much further along. Over two years had passed between Summits and the speakers from Kent, Tacoma, Seattle, King County, and Snohomish County, all of whom had presented in 2020, provided updates on their progress. All had all advanced steadily forward, yet were still learning, honing their operations, and tweaking their systems. Much of the work was now behind them, they were all proud of their progress and positive about the directions they were heading. They and the other speakers, as well as the rest of the partici-

*(Continued on page 5)*

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King County

*(Continued from page 3)*

pants (using the chat), were eager and willing to share any information that would help each other successfully navigate the complexities, and unleash the impressive capabilities, of the software.

This year's event included speakers and moderators from several additional agencies, including the cities of Bellingham and Arlington, Pierce County, and three state agencies (WATECH, the Departments of Ecology, and the Department of Social and Health Services). The hosts of the event, Christina Chelf and Stephen Beimborn, made it clear that none of it would have been possible were it not for the technological wizardry of Taylor Dixon from the City of Seattle and Professor Gregory Lund from the University of Washington – Tacoma, who configured and operated the event software. Taylor and Gregory pointed out with humility that conducting a Zoom Event is not quite as complex as maintaining a Portal instance, but nevertheless they should be commended for pulling off the event without a hitch.

A survey conducted during the Summit revealed that the individuals attending played a wide range of roles as supervisors, administrators, analysts and technicians, each with its own functions and responsibilities. They also came from a variety of types of agencies, each with its own needs, characteristics, architectures, frustrating realities and unique complexities. Each of their agencies had made their own choices, or were about to, and would have to live with them. Fully two-thirds of the attendees had their Portals up and running, with another quarter of the group had implementation projects underway, and six agencies were seriously considering making the move. Each came away with one or more insights that they did not have before.

The Portal Summits have been well attended, from beginning to end, because they have provided our profession with a forum to connect with colleagues from nearby cities, counties, utilities, state agencies, or tribal organizations who might have some insight into each of our own particular circumstances, challenges, customer needs and system architectures. All agreed another Portal Summit would be useful in the future, and given that the survey results revealed that a quarter of attendees are ready to speak at a future event, and 40% said they might possibly be persuaded to speak, any future event would promise to broaden the conversation even further. 🌀

#### 2022 Portal Summit Agenda:

Welcome on behalf of WGGL and  
WAGISA

Updates on Two Years of Progress

Lightning Talks

State of the Portal in Washington

(a review of survey responses)

Architecture at Various Scales

Tools for Administering the Portal

Tools for Managing Users

Closing Remarks



Not sure if you are a WAGISA member? Visit [www.waurisa.org](http://www.waurisa.org). If you are a current member, you'll be able to log in and see the additional "Member Resources" tab. If you have questions or troubles logging in, please email the membership committee for assistance.

# It's Here! The 2022 Washington State GIS Conference Presentations & Social Activities

By: WAGISA Conference Planning Committee



## Presentations:

1. Adopting Web GIS Everything
2. CADD+GIS Integration at the City of Seattle
3. Tracking ADA Transition Progress using Interactive WebGIS
4. 3-D Mesh: A Tangible Approach for County Government
5. Building and Deploying Native Apps with ArcGIS AppStudio: The Good, The Bad, The Ugly
6. Coastal Flood Analysis using Global Mapper
7. Asset Management and Rate Setting
8. What's new in ArcGIS Field Maps and Survey123
9. Integrating the REST and Python APIs with ArcGIS Workforce and Survey 123 Connect to automate Building Inspection Scheduling and Routing
10. The Secrets of the ArcGIS Parcel Fabric
11. Cloud IT for GIS - A Case Study in Azure
12. Leveraging ESRI's Geoplanner for Suitability Modeling
13. Washington State-Wide Ortho Imagery Program
14. Panel Discussion - Drones for Spatial Data Support with Successes and Challenges.
15. Site Scan for ArcGIS: A complete UAS\UAV Solution
16. Sound to Summit Regional GIS Status Report and Implementation Plan
17. How Snohomish County is Improving Field Data Collection Methods with a Mobile Mapping Solution
18. Managing Over 100 Events and 2700 Volunteers for One Seattle's Day of Service using ArcGIS Online Dashboard, Experience Builder, Webhooks & Power Automate
19. Utilizing Esri Hub and Experience Builder for Emergency Response at the City of Puyallup
20. Critical Facilities Framework in ArcGIS Online for Emergency Management and Response in the City of Puyallup, Washington
21. Natural Resource Asset Management Strategy in Kitsap County
22. GIS-Mo - Connecting Everyone with Roads
23. Spatio-temporal analysis of road traffic injuries in Ghana from 2005-2020
24. From Information to Insights: Using a Dashboard to View, Measure, and Manage Parking Pay Station Performance
25. Strategies for improving the Washington State National Hydrography Dataset (WANHD)
26. Challenges and Solutions for Testing Spatial Data
27. High Resolution Land Cover Mapping Through Artificial Intelligence and Economies of Scale
28. Using ArcGIS Dashboards and Experience Builder to optimize the climate mitigation potential of a statewide agricultural grant program
29. How Two Years of Challenges Invigorated Support for GIS at the State
30. Online, Hybrid and In-Person educational opportunities at the University of Washington Tacoma"
31. Transforming Web AppBuilder for ArcGIS widget development
32. Mapping the Harbor and Empowering Staff
33. Integrating High-Accuracy GNSS (GPS) with ArcGIS Field Maps

## In-Person Socials

*Tuesday, May 24 5:30 pm—Incline Cider, Tacoma WA*

*Wednesday, May 25 5:30 pm—Optimism Brewing, Seattle, WA & Lynn Art Gardens, Wenatchee, WA*

*Thursday, May 26 5:30 pm—Farmstrong Brewing, Mount Vernon, WA & Cornerstone Pie, Ellensburg, WA*

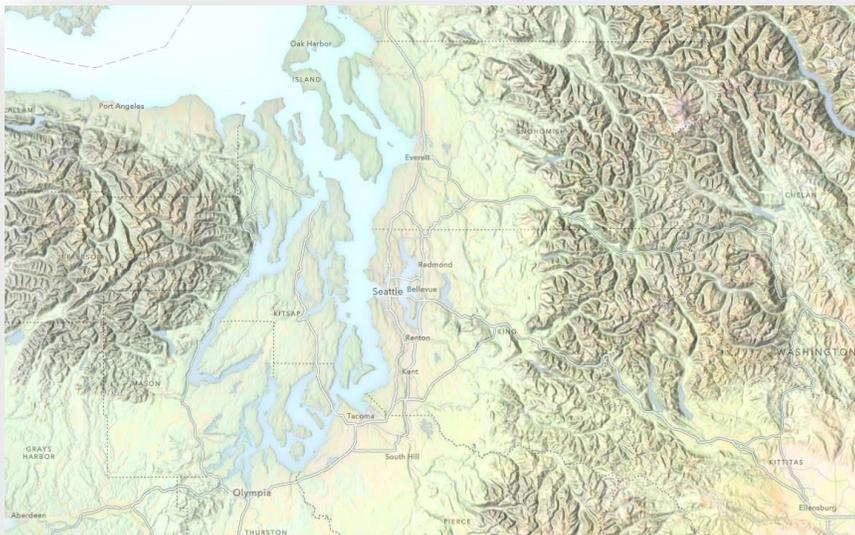
**All the details here: <https://wagisa.wildapricot.org/Socials>**

# It's Here! The 2022 Washington State GIS Conference—Keynote

By: WAGISA Conference Planning Committee

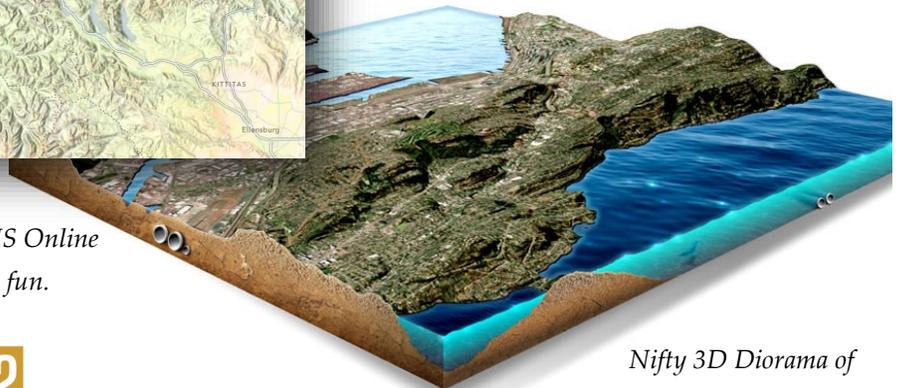
**H**i there, my name is John Nelson and I am unreasonably excited to have the opportunity to chat with you at the conference next week! Not only have you found a profession in easily the coolest trade out there -the realm of maps and data and analysis- but you also happen to live and work in the second most beautiful state in the union! What a glorious intersection. While I'd love to meet you and nerd out on maps together there in person, being virtual opens up opportunities for folks who might not otherwise get to travel to a conference, and that probably includes me. So I'm very happy to have this chance.

You might be asking yourself, what could a Michigander possibly have to say to folks already making wonderful maps in the achingly beautiful Pacific Northwest? Actually, that's a pretty good question and I don't fault you for it. But I'm going to try to cook something worthwhile up! Maybe we'll go over how, and why, to make a charming (and surprisingly practical) little 3D diorama, right in a GIS. Why let photoshoppers have all the fun? Speaking of hogging the fun, what about basemaps? There are lots of basemap options out there...but that doesn't mean we have to pick from one of those. There are your maps, right? You know what's best for them. We can pull elements of basemaps down from the shelves and mash them together as we see fit.



Who knows. But I sure am looking forward to seeing some familiar faces, and meeting new ones. I'm thankful to the WAGISA for the honor to come and speak with you next week, and excited to learn more about the sorts of mapping adventures you all are up to. I'll virtually see you there!

Happy Mapping, John 🗺️



Nifty 3D Diorama of Seattle

*Interesting and useful basemaps can be created in ArcGIS Online by blending existing layers into something new and fun.*





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# An Interview With Greg Babinski: Life After King County

By: Stephen Beimborn, City of Seattle

*Greg Babinski is the founder and long-time editor of the Summit Newsletter that you are currently reading. I sat down with Greg recently to talk about his contributions to the GIS field in the states of California and Washington and at the national and international levels through his involvement with URISA, where he served as President in 2011-2012. Greg's accomplishments and contributions are extensive and lasting. Read on to hear Greg's perspective on many of them and to learn about his current pursuits.*

**WAGISA:** We are here with Greg Babinski, who 'retired' recently from King County GIS. Greg came to Washington State from California 24 years ago and has been very active in the GIS community here. But Greg, it seems that for you, retirement isn't very restful. What is retirement like for you?

**Greg Babinski:** Well, I have slowed down but not stopped. I have been working since my dad got me a paper route when I was 12 years old. It took me a good number of years - decades really - before I discovered that there was this thing called GIS and that I could get paid for applying my education in geography. For me, before GIS, working was, well... 'work'. But with GIS I enjoyed almost everything that I did. So yes, now, even though I took my retirement from King County GIS January 1, I have continued to work in GIS with a few new ventures.

**WAGISA:** So what are you working on now?

**Greg Babinski:** Well three things GIS – First for several years I have been developing a business plan to start my own GIS consulting – focused on GIS management. When I started working for East Bay Municipal Utility District (EBMUD) in 1989 as the first GIS Mapping Supervisor, I noticed that many GIS operations struggled, and some even failed. There were 39 jurisdictions within the EBMUD service area and some had nice stable GIS programs, but some medium and large jurisdictions really just struggled. I was invited by three other water/wastewater agency GIS managers to start meeting monthly over lunch to share issues, problems, and best practices. That networking was really valuable. Then when I came to King County GIS in 1998, I noticed the same phenomenon – there are 39 jurisdictions within King County and some GIS programs were doing fine, but others struggled and even failed. The key to me seemed to be the GIS

manager. That led me to want to understand GIS operations and management best practices. And a third of a century observing, reading, and writing about GIS management led me to establish GIS Management Consulting Services late last year and open for business January 1.

Second, King County asked me to come back and do a little on-call consulting for them. And lastly, I have some unfinished professional GIS business I want to complete for URISA and the GIS&T Body of Knowledge.

**WAGISA:** You have a long history with URISA and other professional organizations. Tell us about how they helped you with your career.

**Greg Babinski:** Sure. When I started with EBMUD in 1989 as GIS Mapping Supervisor I really didn't know much about GIS. I had worked in engineering design/drafting for about 15 years before that. There is some similarity between mapping and drafting. In both fields you are creating and manipulating simulations of reality. You care about scale and coordinate systems and symbols. By the mid-1980's I had gotten experience with CAD. That plus my geography education plus early management experience positioned me for the EBMUD job. My first week at EBMUD a guy who worked in IT, Andy Datlen, invited me to meet with him. He gave me a stack of conference proceedings from an organization called URISA. Andy told me – read these and you will learn much of what has been written about actually implementing GIS as a government agency or private company tool. I was hooked and spent much of my spare time reading about GIS data, software, applications, organization, and all the other technology and geoscience that had been developed to that time.

Shortly after that I was approached by a Bay Area GIS consultant – Bruce Joffe – who wanted to meet. He urged me to get involved with URISA and also the local Bay Area chapter of URISA – called BAAMA – the Bay Area Automated Mapping Association. At Bruce's urging I attended my first URISA Conference in San Francisco in 1991. I was nervous as I made a presentation about the GIS development plan for EBMUD, but it turned out OK and everyone was friendly and provided many good suggestions. Most importantly I started to develop a network of contacts. Later Bruce Joffe invited me to get involved with BAAMA, helping

*(Continued on page 11)*



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 BLUE MARBLE  
GEOGRAPHICS



*(Continued from page 11)*

asked me to run for the Board again in 2005. The Board then included Rick as President, Kristina Evanoff as VP, I was secretary, Steve Schunzel was treasurer, and other Board members includ-

#### **Data Sharing in Washington Counties**

*Belmont Room 3:00 PM – 4:30 PM*

County government provides many regional services that fit between municipal and special district services and public services provided statewide. Counties realize that much of their GIS data needs to be shared across jurisdictional boundaries to improve cooperative cost sharing; and some have taken significant steps to see that this occurs.

- Greg Stought, King County – Moderator
- ✓ Greg Babinski, King County GIS Center, "Thinking Beyond Data Sharing – Regional GIS Coordination"
- ✓ Court Daniel & Linda Gerull, Pierce County Information Services, "Added Value of Data Sharing: Pierce County Perspective"
- ✓ Curt Kiessig, Snohomish County GIS
- ✓ Les Olsen, Thurston County
- Ian VonEssen, Spokane County, "Building a Regional GIS Resource for the Inland Northwest through Public and Private Partnerships"
- ✓ Dolores Utterback, Clark County Assessment and GIS, "Strategies to Facilitate GIS Data Sharing in Washington Counties"

#### *Talking about Regional GIS in 1999*

ed Jaime Crawford, Effie Moody, Matt Stull, and John Josephs. This was the true beginning of the very dynamic and successful Washington GIS Conference that we have today.

So that brings me around to the funny way that my brain works sometimes. WAURISA at that time got some criticism because it was really very focused on the Puget Sound urban area from Olympia north to Bellingham. Well, the summer of 2005 both of my sons attended a Cross-Country Camp at White Pass. The Sunday that I drove them there and dropped them off, I was driving back home on Highway 12 and I stopped to take a photo of the Summit of Mount Rainier. It hit me that Mount Rainier is an icon for Washington State, because it can be seen from the North, South, East, and West. Could WAURISA provide something for the GIS community across the entire State - North, South, East, and West? As I was driving home I thought of the BAAMA newsletter. Could a newsletter be the way to unite the Washington GIS community? And why not call it The Summit, to serve as the common unifying element for WAURISA?

A few weeks later I pitched the idea for the Summit to the WAURISA Board during a meeting hosted by President Rick Lortz at Lakehaven Water District. I recall the basic decision was 'You can do it if you want to do it, Greg.'

Recalling how difficult it was to get content for the BAAMA Newsletter, I was hesitant but decided to give it a try. I thought if it ran to maybe four pages each issue for a year or two, that would be a success. The key difference though was that the



*Rick Lortz, Angela Johnson, and Steve Schunzel at a WAURISA Board meeting discussing The Summit Newsletter*

BAAMA Newsletter was printed and then mailed which made it costly. WAURISA's plan was to make it all digital and email it to people. Issue 1 was published early in the Autumn of 2005. Little by little I developed a method to solicit articles and offer advertising in the Summit as a benefit to both WAURISA members and sponsors.

Later of course the name 'The Summit' was applied to the Summit Award also.

**WAGISA:** Greg, in addition to BAAMA, Washington URISA (now Washington GIS Association), and URISA, what stands out as key things that you have contributed to GIS organizations?

**Greg Babinski:** Sure. Well I got involved with URISA because of BAAMA and WAURISA. As a WAURISA Board member I was invited to a URISA Chapters Forum at the URISA Annual Conference. Speaking at this forum I think was the first time URISA



*The first issue of The Summit Newsletter with the photo of Mount Rainier I took from Highway 12*

leadership started to notice me. Karen Stewart from URISA BC and I were asked to co-chair a URISA Chapters Relations Committee. I think a year or two after that Shoreh Elhami, the founder of GISCorps, asked me to run for the URISA Board.

*(Continued on page 13)*

(Continued from page 12)

Back in 2008 I came up with this crack-brained idea that GIS needed a capability maturity model. I had been aware of the Software Engineering Institute Capability Maturity Model from when I worked for EBMUD. In late 2008, one Saturday at home I typed up what I thought a GIS Capability Maturity Model should include. I reviewed it with some colleagues at King County GIS, then sent it to 25 city GIS managers and 25 county GIS managers across Washington State and about 40% sent back their self-assessments to me. I presented this at the 2009 Washington GIS Conference, then again at the URISA Annual Conference that same year.

In 2011 the URISA Board decided that they wanted to 'adopt' the GIS Capability Maturity Model (GISCOM) that I had developed and also to develop a parallel Geospatial Management Competency Model (GMCM). I co-chaired this committee with David

**2009 GIS CMM Survey Results:**  
 Cites range from 0.43 to 0.89  
 Counties range from 0.27 to 1.00

	North	Seattle	All City Averages	King	Pierce	All County Averages
Enabling Infrastructure						
1. Framework GIS Data	0.75	1.00	0.86	1.00	1.00	0.71
2. Framework GIS Data Maintenance	0.50	0.25	0.25	1.00	1.00	0.67
3. Business GIS Data	0.50	0.65	0.65	0.50	1.00	0.67
4. Business GIS Data Maintenance	0.75	0.50	0.61	0.50	1.00	0.67
5. Metadata	0.75	0.50	0.51	0.75	1.00	0.58
6. Spatial Data Warehouse	0.75	1.00	0.88	1.00	1.00	0.78
7. Architectural Design	0.50	0.75	0.61	1.00	1.00	0.52
8. Technical Infrastructure	1.00	1.00	0.85	1.00	1.00	0.90
9. Implementation Plan	1.00	0.50	0.69	1.00	1.00	0.69
10. GIS Software Maintenance	1.00	1.00	0.97	1.00	1.00	0.94
11. Data back up and security	1.00	0.50	0.86	0.75	1.00	0.72
12. GIS Application Portfolio	0.50	0.75	0.65	0.75	1.00	0.58
13. GIS Application Portfolio Management	0.50	1.00	0.58	0.75	1.00	0.56
14. GIS Application Portfolio Operation and Maintenance	0.75	1.00	0.72	0.75	1.00	0.65
15. Professional GIS Management	0.75	1.00	0.79	1.00	1.00	0.67
16. Professional GIS Operations Staff	0.50	1.00	0.61	1.00	1.00	0.63
17. GIS Staff Training and Professional Development	0.75	1.00	0.69	1.00	1.00	0.63
18. GIS Governance Structure	0.50	1.00	0.58	1.00	1.00	0.61
19. GIS is Linked to Agency Strategic Goals	0.75	1.00	0.57	1.00	1.00	0.58
20. GIS Budget and Funding	1.00	1.00	0.69	1.00	1.00	0.65
21. GIS Financial Plan	0.75	1.00	0.61	1.00	1.00	0.60
Total Rating	14.75	17.75	14.51	18.75	21.00	13.90
Average Rating	0.70	0.85	0.69	0.86	1.00	0.66

First presentation of results from the GIS capability Maturity Model at the Washington GIS Conference

DiBiase, who was also on the URISA Board at that time. The only problem – no one had ever really developed a ‘management competency model’ of any kind before. To get the ball rolling I offered to convene and chair a daylong working session of GIS Managers during the 2011 Washington GIS Conference in Lynnwood to both review and critique the GISCOM and to develop a draft strawman GMCM. This daylong working session included Steve Beimborn from Seattle Public Utilities, Don Burdick from Bellingham, Amy Esnard from Multnomah County GIS, Ian Von Essen from Spokane County, Tami Griffith from Thurston Geodtata Center, and George Horning from KCGIS.

The compiled notes for the GMCM strawman draft were further reviewed and refined during another working session at the 2011

GIS-Pro Conference later that year. That session was attended by respected GIS managers from four countries. The revised draft was publicly peer-reviewed, then published and adopted by the US Department of Labor in mid-2012. The following year the

## Tier 9: Management Competencies

The competencies included in the Management Competencies domain are specific to supervisory and managerial occupations and include:

- A. Staffing**
  - IDENTIFYING COMBINATIONS OF SKILLS & REALISTIC BUDGETARY PRIORITIES
  - FINDING GIS TALENT W/ DATA ACQUISITION OR R.P.M.S. SKILLS
  - WORKING FOR FUTURE GEOSPATIAL COMPETENCIES
- B. Informing**
  - DATA PUBLICATION
  - EDUCATING CLIENTS OF GIS POTENTIAL IN AUDIENCE APPROPRIATE CONTEXT.
  - INCREASING AWARENESS ENT.GIS DEPT.
- C. Delegating**
  - RECOGNIZING CONTRIBUTION TO FOCUS EXPERTISE - HOW TO AVOID OVERSEEING DURING BOOTSTRAPPING...
- D. Networking**
  - BUILDING RELATIONS W/ OTHER AGENCIES TO ENHANCE DATA SHARING
  - A POSITIONAL UNIT OF ACCOMPLISHING PERFORMANCE
  - GIVE TO RECEIVE
  - PROMOTING SHARED GIS SERVICES
  - INTERACTING W/ AGENCY CLIENTS OF BUSINESS
- E. Monitoring Work**
  - DEVELOPING EFFICIENT WORK PRACTICES
  - SETTING PRIORITIES
  - WORKING WITH GISCOM
  - SETTING EXPECTATIONS FOR GIS EMPLOYEES
  - SETTING GOALS/STANDARDS
  - PROVIDING FEEDBACK
- F. Entrepreneurship**
  - MANAGING BUDGETS
  - MANAGING PERSONNEL & POTENTIAL WITHIN BUDGET AGENCY, NOT JUST CLIENT OR YOUR FOCUS
  - BUSINESS AND GIS ANALYSTS
  - CLIENT SATISFACTION
  - ENVISIONING CROSS-BUSINESS OPERATIONAL EFFICIENCIES
- G. Supporting Others**
  - BUSINESS AND GIS ANALYSTS
  - CLIENT SATISFACTION
  - ENVISIONING CROSS-BUSINESS OPERATIONAL EFFICIENCIES

Original GMCM notes from the May 9 working session of the 2011 Washington GIS Conference in Lynnwood

GISCOM, as revised and refined by the 2011 Washington GIS Conference working session in Lynnwood was made available for public peer review. The final version of the GISCOM was adopted by URISA in 2013. The point is that both of these key documents – the GISCOM and GMCM – had their formative origins in Washington State and became what they are now because of the invaluable leadership and input from the PNW GIS managers at that session in Lynnwood.

The GISCOM and GMCM led to the development within URISA of the GIS Management Institute (GMI). I was the first Chair of GMI and was able to mobilize 50 people to work on developing it, its portfolio of projects and services, and its relationship with URISA, GISCI, and other entities. Unfortunately after I left the URISA Board, the momentum for GMI waned. I think that some private consultants and academics saw GMI as a threat to their vested interests. By 2018 GMI was disbanded. In 2018 I published a brief angry book (that no one should buy) about the brief life of GMI, just to document what it was, what its potential was, and to make the case that something like it is still needed. Anyway, the GISCOM, GMCM, and GMI were key accomplishments. The first two are still valuable resources for the GIS profession, and people

(Continued on page 15)

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*(Continued from page 13)*

still talk to me from time to time about reviving the third.

At various points in time I have also been involved with and a member of GITA and the AAG. I'm a GISP too – but I have problems with some aspects of the GIS Certification Institute. I published an open letter to GISCI proposing some changes, but I never got a response, although one was promised.

Another key contribution I hope has been of value is related to applying GIS for equity and social justice. This originated within King County because of their ESJ policy focus. Working with King County's Nicole Franklin and WWU's Vero Velez, we developed the URISA-Certified half-day GIS for ESJ workshop. This has now been presented 25 times to more than 600 individuals.

This workshop also led to another contribution. In 2019 I was awarded one of seven EthicalGEO Fellowships to develop a GIS for ESJ Best Practices document. The fellowship is a program of the American Geographical Society, which used to be a little fuddy-duddy organization, but which has now reinvented itself into a highly relevant leader in thinking about geography and GIS in the 21st Century. I was really just the focal for the GIS for ESJ Best Practices – It became what it is because of input from about 70 people who provided input.

The last organization let me spotlight is the GIS&T BOK – the GIS Information Science and Technology Body of Knowledge. This is a project of the University Consortium for Geographic Information Science. I've come to like the term GIS&T. It clearly combines geography, science, and technology – the tools and methodologies that we use and take for granted in our day-to-day work. I now have three peer-reviewed articles published in the GIS&T BOK, with two more that should be published later this year.

**WAGISA:** Tell us more about your company – GIS Management Consulting Services.

**Greg Babinski:** Sure. The idea originated as I said from my interest in GIS management best practices. I came up with this plan to write a GIS management book, but there are some great books out there already. Pete Crosswell's GIS Management Handbook for me is the gold standard. When URISA decided to wind-down the GIS Management Institute, there was no framework for the GIS Capability Maturity Model and the Geospatial Management Competency Model. So I have started work on a GIS management book that would focus on how GIS managers can use the GISMM and GCM to both guide their career development and to guide and gauge the development and maturity of their GIS operation. The book and the consulting I will provide is also informed by other great, but somewhat disjointed resources, in-

cluding the GIS&T Body of Knowledge, the Geospatial Technology Competency Model, plus management resources like SAFE Agile, ITIL, CAM-I, and others. While the book is in development, I will be turning draft chapters into online workshops. Already I have premiered three inexpensive 2-hour online workshops: GIS ROI fundamentals, an interactive GIS Code of Ethics workshop, and a new workshop on how to promote and grow your GIS. These and others are part of the new GIS Management Academy™. Eventually I hope to have up to 20 individual workshops, each offered online once or twice a year. Oh, and I am also helping KCGIS and the Puget Sound GIS community complete the Sound-to-Summit Regional GIS that was first discussed by me at the 1999 WAURISA Conference.

I have also launched a free monthly online GIS Managers' forum. And of course, I am available to help with GIS management and operational consulting. GIS management is a very challenging profession – and I do think it is a distinct profession – but an incredibly rewarding career.

When people stop attending my workshops and the monthly GIS Managers Open Forum, then I'll know it's really time to retire.

**WAGISA:** Aren't there any more traditional retirement pursuits that you plan?

**Greg Babinski:** Sure there are. I will be weaving in lots more worldwide travel. I've been to 46 of the 50 states so I need a road-trip to fill in the blanks on my state map. As many of you may know my wife is from China – but my Chinese language skills leave a lot to be desired. I plan to spend 2-3 months in a small city in China immersing myself in day to day life and picking up more Mandarin Chinese. Also international travel. I've been to four continents, but I hope to add South America and Antarctica this year and Africa next year. I also have an idea for a novel, but that will require living in Venice for two months to sketch out the atmosphere and settings for the story. And lots of road trips and river journeys.

**WAGISA:** Well thanks Greg for sharing more of your GIS journey with us.

**Greg Babinski:** It's my pleasure – and I'm happy to see The Summit still going strong after almost 60 issues now! Congratulations to the new Washington GIS Association. I know that you will be serving the GIS community across Washington State for decades to come. 🌀

Here is a link to a related story map: GB Retirement Story Map: <https://storymaps.arcgis.com/stories/1f120cfe063f412c872bf9efe419d6d2>



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## Remembering Tim Leach



**W**e are saddened to announce that Tim Leach, GISP, passed away suddenly in his home in Spokane, WA in March. Many of you likely remember seeing Tim at many Washington GIS Conferences. He always has a smile on his face and loved to talk about GIS. Tim was GIS Manager for the Spokane Tribe of Indians, a position he had held since 2010. He earned a MS GIS degree from the University of Redlands, had previously worked in GIS for the Muckleshoot Tribe and was very active in the northwest tribal GIS community. In his 12 years with the Spokane Tribe, he completely revised the Tribe's GIS library, normalized the feature classes and meticulously documented the database structures. The data library he built serves dozens of GIS users in the Spokane Tribe's forestry, fire management, wildlife, fisheries, water resources, range, recreation, realty, housing and planning programs. Tim was passionate about his profession and rigorous in his demands for high quality data. He leaves behind a tremendous legacy, and big shoes to fill. 🌀

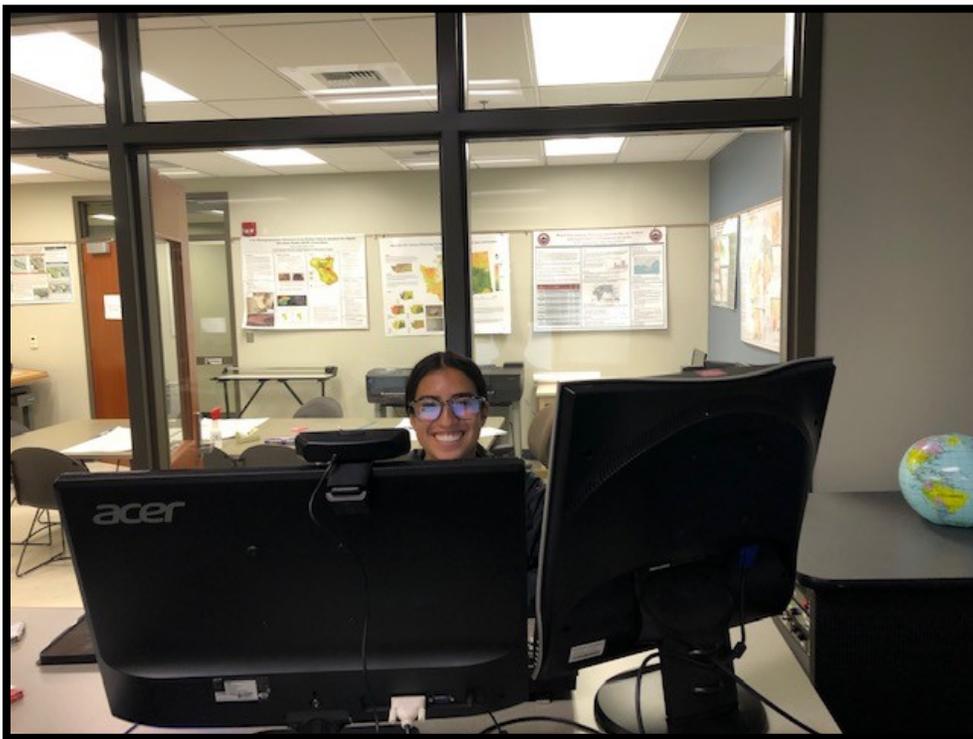
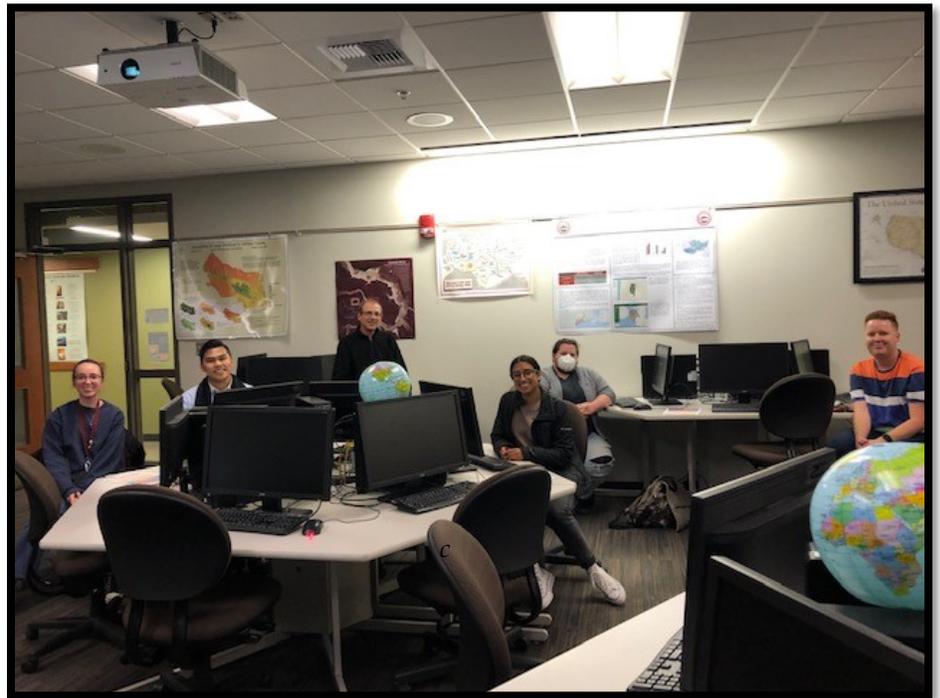
*Many of us remember seeing Tim at conferences with a smile on his face and a love for talking about GIS.*

# Digitizing for Disaster Relief

## Central Washington University Geography Club Hosts Map-a-thon

By: Eileen Kelsey, CWU Student

For the first time since 2019, Central Washington University geography students, alumni, and professors gathered in the GIS lab for a humanitarian map-a-thon. Collaborative mapping events like these have taken place since the 2010 earthquake in Haiti. In response to Haitian pleas for help on social media, the Humanitarian OpenStreetMap Team (HOT) and Ushahidi coordinated the first disaster-relief crowdsourced mapping platform using OpenStreetMap (OSM.) People from around the world responded by translating and plotting social media posts on OSM. Prior to 2010, when disasters occurred in blank spaces of maps, relief efforts were coordinated by field responders. HOT enabled local communities to decide how and where relief efforts are delivered. Since the platform was created, 384,835 people have digitized over 125 million buildings and almost 3 million roads around the world



*Dorian Pulido, the Geography Club President, instructing event attendees on how to use OpenStreetMap*

*Students and professors in the GIS lab at Central Washington University*

CWU has contributed to OSM humanitarian relief by hosting map-a-thons for the past six years. The GIS program coordinator at CWU, Sterling Quinn, became interested in crowdsourced mapping during his PhD studies at Penn State. Since then, he has inspired his students to host these collaborative mapping events. He says they're great because you can teach most people how to be proficient in beginner OSM edits in about 15-20 minutes and the collaborative event environment is always relaxed and social.

This year, the event was coordinated by Dorian Pulido who is president of the Geography Club and an undergrad Geography student. Dorian chose the location of Mandoul, Chad where Doctors

[\(Continued on page 19\)](#)

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## URISA GIS-Pro 2022 Conference

[GIS-Pro 2022](#) will take place in Boise, Idaho October 3-6, 2022.

Jack Dangermond of Esri is the keynote speaker. This is URISA's 60th Anniversary conference! [Learn more here.](#)

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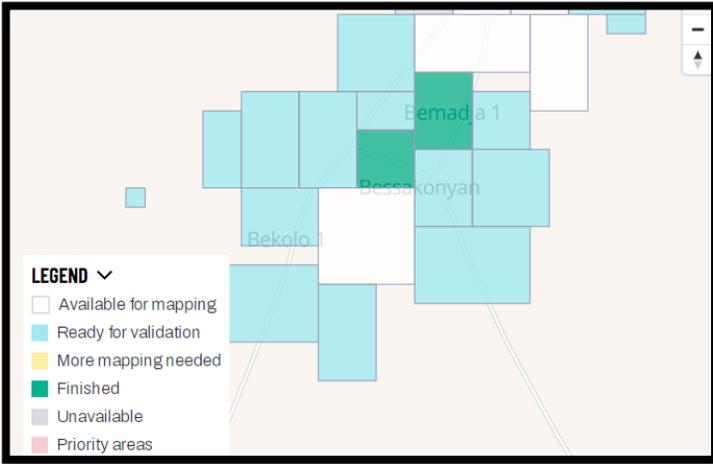
Do you have an idea for a worthwhile article, but you don't want to be in charge of writing it? Let us know and we'll investigate it—we have willing writers that can turn your lead into a great story for the newsletter!

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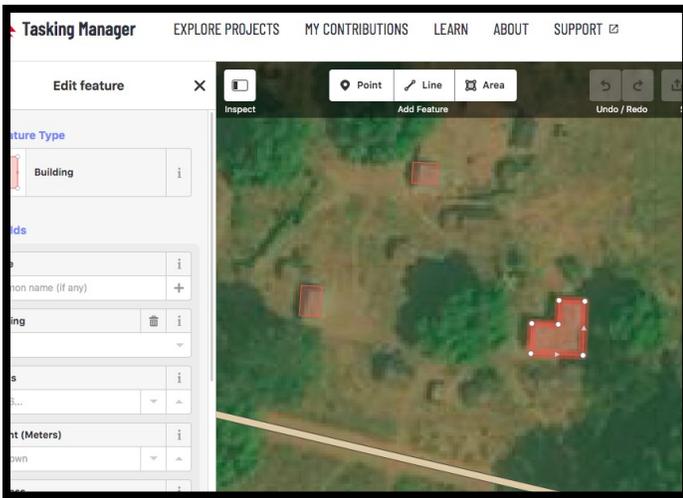
**Deadline for Issue 59**  
**July 1, 2022**

*(Continued from page 17)*

Without Borders is responding to a recent yellow fever outbreak. Each person who attended the event chose a small, manageable area to trace buildings. When a contributor chooses an area it becomes unavailable to others until they save and publish their edits, thus allowing multiple users to work on a project simultaneously. When an area is finished someone who is confident in their mapping skills can double check a contributor's work and finalize their edits.



*Here is how the user identifies what quadrants of the map are available for editing*



*This is the user interface for creating new buildings.*

Those who participated in the event were finally able to meet professors and students with whom they'd mostly interacted with virtually for the last two years.

Anyone with basic GIS skills and a computer with internet can get involved with HOT. If you're interested in learning more about humanitarian mapping or hosting your own event check out: <https://www.hotosm.org/>.

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# Washington Women Share Dashboards and a “Night at the Museum”

By: Jen Radcliff, City of Tumwater

The Washington Women in GIS & Technology (WWGT) group has had a busy spring. The March meeting was about Data & Dashboards where speakers discussed considerations for ensuring your dynamic data can be efficiently supported, maintained and useful beyond the initial visualization request. Alicia Bradshaw, Maria Sevier, and Tonya Kauhi shared their unique experiences managing dynamic data and visualizing it through a dashboard (ArcGIS Dashboards or PowerBI) and left us with some tangible tips to use on our next projects.

Alicia currently works as a Senior Planner for Pierce Transit, and spoke about a cool GIS project she worked on analyzing bus stops in Tacoma. The goal of the project was to identify bus stops to eliminate in order for the bus routes to be more efficient, better serve riders, and help keep the routes on schedule. Alicia displayed data, as well as results of analysis and surveys, in PowerBI dashboards for colleagues at Pierce Transit.

Maria is currently the GIS Administrator for Tacoma Pierce County Health Department. Maria spoke about quickly creating datasets, surveys, and dashboards in ArcGIS Online to support contact tracing for Covid 19, then migrating everything to Enterprise Portal while the system was being used



by a couple hundred staff 12 hours a day, 7 days a week during a global pandemic. There were a lot of late nights supporting the system. Congratulations are in order, as Maria will be presented with a Special Achievement in GIS (SAG) award at this year’s Esri User Conference! The award is well deserved!

Tonya currently serves as a GIS developer for the City of Tacoma. She presented a dashboard she created for the City of Tacoma Parking Services to help them eliminate underperforming parking meters. This data had been managed in spreadsheets, with a separate spreadsheet for each year, so it was difficult to compare data year over year. City staff can now see data and make decisions in minutes, when it used to

[\(Continued on page 24\)](#)



(Continued from page 23)



take them two weeks sitting in a room pouring over the data! If you missed the presentations, they were recorded and are available for viewing on the WWGT website under the Resources tab.

The April social hour was held at the Tacoma Art Museum. There are several amazing exhibits to explore including GATHER: 27 Years of Hilltop Artists, which highlights blown and sculpted glass by WWGT member Maria Sevier's daughter, Ellye Sevier. This exhibit goes through September 4th, so if you missed the social you still have time to catch the exhibit! Thursdays from 5-8 PM are free! After perusing the exhibits, the WWGT members headed over to the Harmon Pub & Brewery for dinner and more great conversation. 

**If you are attending this year's WA GIS Virtual Conference, WWGT will be hosting a Women in GIS breakfast session. Wednesday, May 25 from 8-9.**

**Bring coffee and your puzzle-solving skills, and be ready for a great time!**

## New In Town



**"Hello, I'm Haley Duran! I am a GIS Analyst for the City of Arlington."**

**M**y daily responsibilities include collecting and inputting spatial and non-spatial data, preparing maps and tabular data for staff in all departments as well as citizens. I also prepare, create and edit web services such as web maps and web applications for both internal and external users. I attended Western Washington University and had the opportunity to intern at Nooksack Salmon Enhancement Association and Maul Foster & Alongi. I graduated from Western with a B.A. in Geography, and shortly after I earned my GIS proficiency certification in Salt Lake City. I have been working for the City of Arlington since the summer of 2021. In my free time I enjoy spending as much time as possible outside. In the warmer months you can find me mountain biking or backpacking in the North Cascades. In the winter I enjoy skiing and watercolor painting. A fun fact about me is, I love Vexillology (The study of the history, symbolism and usage of flags). 

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# Remembering Darrell Wilson

By: Maria Sevier, Tacoma-Pierce County Health Department

**Darrell D Wilson**

**March 18, 1994 – April 19, 2022**

**28 years old**

I had the opportunity to meet Darrell Wilson on my first day of work at the Tacoma-Pierce County Health Department. We both started work, along with 3 others, on the same day. We were hired to be part of the COVID response team at TPCHD. Darrell had re-



*Darrell being recognized alongside fellow students  
by Governor Jay Inslee*



cently graduated from the University of Washington Tacoma Campus with a degree in Urban Studies and an emphasis in GIS. He had previously interned at TPCHD and everyone that had worked with and knew him were excited to see him return as a full time employee.

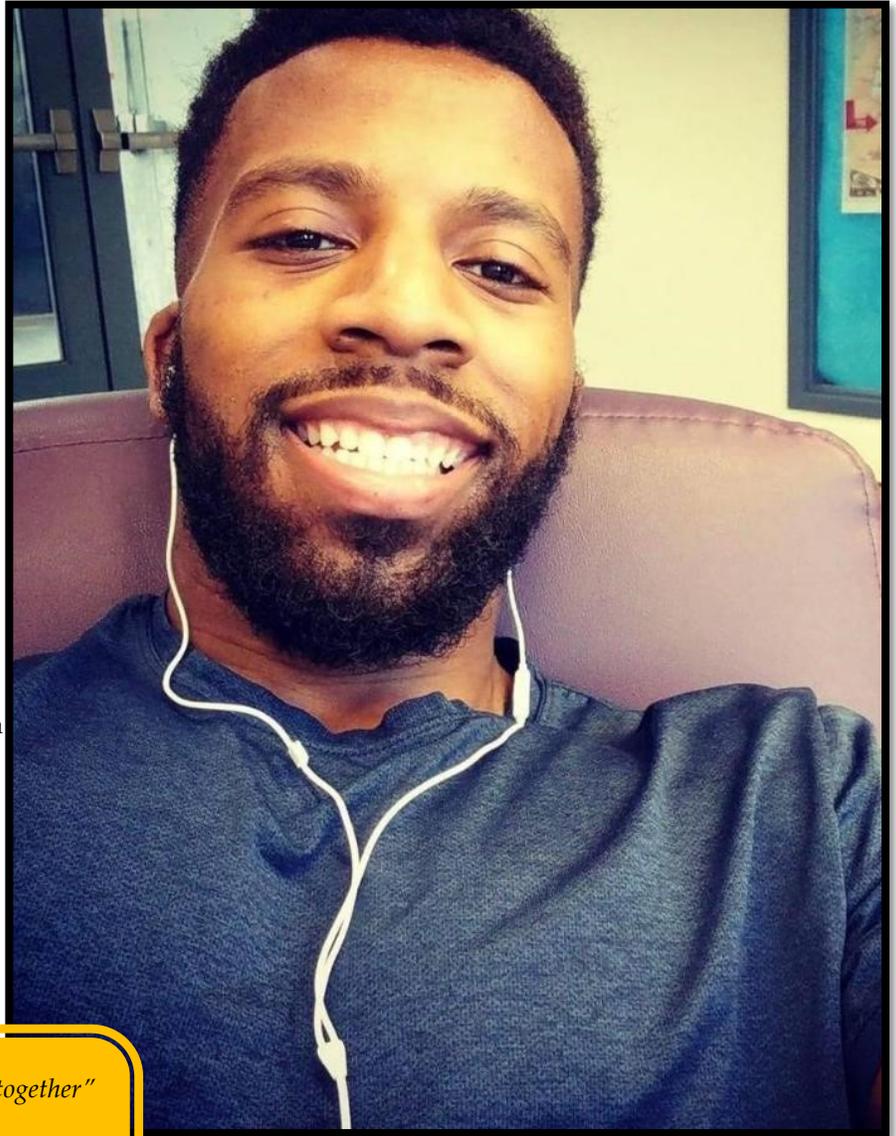
During his tenure at UW he also interned at the City of Olympia, City of Puyallup and supported a research project at Puget Sound University. He was eager, passionate about learning and GIS, hard-working, methodical, dedi-

*(Continued on page 27)*

*(Continued from page 26)*

cated and funny. Darrell was becoming interested in coding and wanted to do as much as he could to increase his skills in GIS. It was fast passed, stressful work with short turnaround times and intense pressure and he was always there ready to help.

One of the things that I will always remember about Darrell was how important his family was to him. They were very close and extremely supportive of his goals. While studying at UW he received recognition from Governor Jay Inslee for his accomplishments and for graduating with no debt. He was also an avid fan of fitness and supporting others in their fitness goals. One of my colleagues was a fitness partner with Darrell and they loved challenging each other in their workouts. He and I would talk about what type of workouts we were doing to help our stress levels and it was inspiring to see him constantly challenge himself and support others.



*He was "the glue that kept the NSF grant crew together"*

**-Dr. Jim Thatcher , Associate Professor at UWT  
& colleague on NSF Grant**

watch him moving into new adventures and opportunities for growth in a profession that he was truly passionate about. 🌀

Mostly though, I will remember his wonderful sense of humor. Our meetings were often filled with stress and lots of "to do lists" but time was made for a joke or two and Darrell always had a good one to share. Laughter is a gift and he made us laugh which always helped us to feel a little lighter.

In April of 2021 Darrell went on to work at the City of Seattle to support a tree inventory program. He was excited to be able to face new challenges, projects, data, and meet new people. We were all excited for him, to

*"I had the honor of working alongside Darrell at Tacoma-Pierce County Health Department. Darrell was a wonderful coworker and a beautiful human. He brought passion, integrity, and a keen ability to problem-solve to his GIS work. I truly admired his excitement for GIS and eagerness to learn. Darrell's kind spirit and the joy he brought to every interaction will be truly missed."*

**-Melissa Hayashida, TPCHD Colleague**

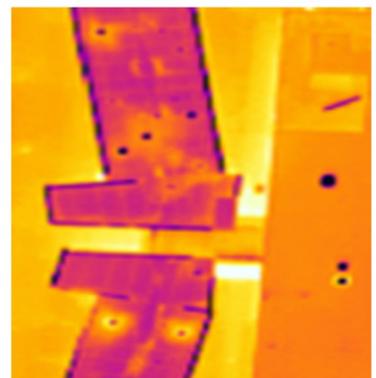
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Blue Marble's products include Geographic Calculator®, the industry standard for precise spatial data conversion and advanced coordinate system management; Global Mapper®, an all-in-one GIS application with a comprehensive array of data processing and analysis tools; and the Global Mapper Lidar Module®, a suite of powerful tools for editing and processing lidar and photogrammetric point clouds from drone-captured images. All of these desktop tools are also available as software developer toolkits and libraries. ArcGIS.



**Civic Lens** is a full-service GIS shop providing custom Python development and workflow automation, hosted solutions, ArcGIS Enterprise deployments and upgrades, and a range of backup solutions for ArcGIS Online and Portal for ArcGIS.



**EagleView** is a leader in aerial imaging with 20 years of experience and a huge historical database with more than 1 billion images covering 98% of the U.S. population. EagleView captures high resolution oblique and ortho imagery with our own fleet of fixed-wing aircraft equipped with our patented camera systems, and then uses machine learning and computer vision to extract measurements and property data. EagleView imagery is 70x more detailed than satellite and 4X more detailed than standard aerial imagery and integrates seamlessly with the applications government officials use most frequently to perform their jobs, including Esri ArcGIS, CAMA systems, and E911 systems. With EagleView, government officials across multiple departments, including assessors, planners, and public safety officials, can visit thousands of sites virtually from their office desk, saving time and money versus on-site inspection, and have all the data and insights they need to make better decisions for their community.



**Esri**, the global market leader in geographic information systems (GIS), offers the most powerful mapping and spatial analytics technology available. Since 1969, Esri has helped customers use The Science of Where to unlock the full potential of data to improve operational and business results. Today, Esri software is deployed in more than 350,000 organizations including the world's largest cities, most national governments, 75% of the Fortune 500, and more than 7,000 colleges and universities. Esri engineers the most advanced solutions for digital transformation, IoT, and location analytics to create the maps that run the world. Visit us at [esri.com/news](http://esri.com/news)

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**Flo Analytics** is intrinsically grounded in "place," and its relationship to people, the land, and the built environment. Whether you are a local government, school district, utility, association, or conservation organization, we are committed to helping you use GIS and data analytics to make informed decisions. Since 2012 we've specialized in GIS program development, asset management, Esri Enterprise, Server, AGOL, and Portal implementation, GIS training, electoral redistricting, community engagement tools, and on-call support.



**Frontier Precision** is the Trimble dealer for Oregon and Washington offering GNSS survey and mapping systems, UAS solutions, scanners, laser rangefinders, water quality instrumentation and comprehensive GIS Services.



**The Gartrell Group** is a small, woman-owned geospatial consulting firm based in Portland, OR. We're focused on enabling our clients to better understand and fully capitalize on the role that location plays in their business. We work closely with our clients to boost their location intelligence with GIS hosting and cloud services, GIS systems integration, and GIS application development.



**GeoTerra, Inc.** is a leading provider of Aerial Acquisition, Mapping, Lidar, and GIS Services for all types of projects requiring engineering quality mapping. Based in the Pacific Northwest, the Company focuses its efforts on geospatial data acquisition and processing to include; aerial imagery acquisition, GPS control surveying, feature data collection, terrain modeling, contour development, orthophoto generation, Lidar data acquisition, processing & integration, and Geographic Information Systems (GIS.)



**GIS Management Consulting Services** helps our customers improve the quality and effectiveness of their GIS management and operations. GIS is a big investment with ongoing costs for operation, maintenance, and business applications. The quality and effectiveness of GIS management and the maturity of GIS operations can impact the overall benefit to the agency. The GMCS Value Proposition is that for small improvements in management or operational practices, the effectiveness and ROI of a GIS operation can be increased significantly. The GIS Management Academy™ helps achieve the mission of GISMCS by bringing focused training to new, experienced, and prospective GIS managers.



**Hexagon's** HxGN Content Program offers the largest library of high-resolution aerial imagery, elevation data, 3D models and analytics across North America and Europe. The data is orthorectified, highly accurate and available at multiple resolutions for a variety of applications. The exceptional data consistency over large areas makes the solution an ideal training data set for machine learning and AI algorithms. Flexible data use terms allow users to create derived products. For more information, visit [hxgncontent.com](http://hxgncontent.com).



**Innovate!** Founded in 2002 by Lily Thomas, Innovate! Inc. is more than a consulting company. We are an 8(a) certified woman and minority-owned consulting firm with an award-winning history of delivering state-of-the-art services and solutions to Federal, State, Tribal and local government clients. We also serve private industry, with special focus in transportation, healthcare, higher education, and utilities. Our portfolio of services consists of Cloud Advisory Services, Geospatial Solutions, Information Technology, Business Consulting, and Innovate Business Operations Platform. We employ a multi-disciplinary team of over 130 technical experts, regulatory specialists, project and program management consultants, information technology (IT), geospatial professionals, and communications and outreach strategists. They identify our client's needs and provide solutions that meet new challenges with confidence and agility. Our solutions impact the world.



For 20 years, the **King County GIS Center** has been providing quality services and exceptional value with the most capable GIS organization in the Pacific Northwest. Unlike most consultants, our professional staff members are practicing users of the GIS solutions that cities, counties, utilities, tribes, and regional agencies require. Why do we offer our services to outside customers? We have a long-term interest in the success of GIS throughout the region. Our success depends on satisfied clients. We are committed to delivering quality GIS business solutions that provide value for our customers. Whenever you need GIS consulting, programming, data, mapping, or training let KCGIS help you put GIS to work!



Every day, **Nearmap** helps thousands of state and local governments conduct virtual site visits instantly using our cloud-based imagery platform. With consistent high resolution and wide-scale coverage, you can improve operational efficiency, make better-informed decisions, reduce costs, and accurately measure height, width, and area for deep, data-driven insights.



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**Panda Consulting** is a professional services firm & Land Records specialists providing a complete range of services using the latest Esri technologies. We are GISPs and professional Land Surveyors providing strategic planning, auditing, consulting, implementation, migration, training, support and maintenance services to ensure your parcels are efficiently and accurately maintained.

**Sanborn** is an innovator in the modern geospatial industry, delivering state-of-the-art mapping, visualization and 3D solutions for customers worldwide. The firm currently operates a fleet of aircraft located strategically across the United States. Embracing cutting-edge technology, Sanborn specializes in oblique aerial imagery, aerial and mobile LiDAR mapping, aerial orthophotography, 3D modeling and visualization software and services, SPIN indoor mapping, unmanned aircraft system (UAS) sales, services and image processing, and a host of geospatial software products.

**The University of Washington Tacoma** offers a one year **Master of Science in Geospatial Technologies** which prepares students to use and apply geospatial hardware, software, and data in urban and environmental planning scenarios. In the program, students become proficient in the management and utilization of geospatial technologies (including location-based mobile applications and web-based geospatial data) and gain an understanding of their application in public, private, and not-for-profit sectors. Curriculum in the program complements technical training by introducing a theoretical/critical focus on the relationship between technology and urban and environmental problem solving.

**VertiGIS** Since 1999, VertiGIS Studio products and services have addressed common GIS application development challenges. VertiGIS Studio offers pragmatic solutions to improve developer productivity and user experience, help solve complex business problems, and accomplish more with Esri web GIS technology. Extend Web AppBuilder and Experience Builder apps with VertiGIS Studio capabilities, using configuration instead of customization.

## GIS User Groups in Washington

### Cascadia Users of Geospatial Open Source

[www.cugos.org](http://www.cugos.org)

Contact [Karsten Vennemann](#)

### Central Puget Sound GIS User Group

Join Listserve here: <https://mailman12.u.washington.edu/mailman/listinfo/cps-gis>

### Central Washington GIS User Group

Meets the 2nd Wednesday of each month.

Contact the group: [swgis.usersgroup@gmail.com](mailto:swgis.usersgroup@gmail.com) or group organizer Amanda Taub: [ataub.gis@gmail.com](mailto:ataub.gis@gmail.com)

### King County GIS User Group

[www.kingcounty.gov/operations/GIS/UserGroups.aspx](http://www.kingcounty.gov/operations/GIS/UserGroups.aspx)

Meets 1st Wednesday every other month at 11:00am at the KCGIS Center, 201 S. Jackson Street, Seattle WA, Conf Room 7044/7045.

### Northwest Washington GIS User Group

[www.wvu.edu/huxley/spatial/nwwgis/nwwgis\\_mtgs.htm](http://www.wvu.edu/huxley/spatial/nwwgis/nwwgis_mtgs.htm)

### Snohomish County GIS User Group

<https://snoco-gis.maps.arcgis.com/apps/Shortlist/index.html?appid=d9ee08e6b1c648db8cd077fc8bb5f27c>

### Washington Geographic Information Council (WAGIC)

<http://ocio.wa.gov/boards-and-committees/washington-state-geographic-information-council-wagic-0>

Join Listserve [here](#)

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