Note: This presentation was given on February 15 2023 at the MWVGIS user group meeting in Eugene by John Sharrard and John Ruffing of Esri. This presentation was mostly based on the following Powerpoint slides authored by Eric Redmond and Preston Beck of the Washington County GIS Infrastructure Group (GIG) (as noted below). John Sharrard & John Ruffing inserted their own slides and insights into the slide deck in order to give the Esri perspective on the project.

ArcGIS Online Partnered Collaboration Experiences of The GIG's SEPRR Project

Eric Redmond, TVF&R

Preston Beck GISP, City of Tigard

Our Presentation

- What is the GIG?
- The backstory
- Look at what we did
- Tell me, where is this going?



The GIG –Who we are

- Oregon Geospatial Infrastructure Group
- 14 Agencies –cities, county, special districts
- GIS support services to our departments
- GIS Professionals
- We're formal –IGA/budget authority
- Elect positions to oversee and provide accountability
- Report to a Governing Board



The Geospatial Infrastructure Group (GIG)

(All Members)

- City of Banks
- City of Beaverton
- City of Cornelius
- Clean Water Services
- City of Forest Grove
- City of Hillsboro
- King City
- City of Lake Oswego

- City of North Plains
- City of Sherwood
- City of Tigard
- Tualatin Hills Parks & Recreation
- Tualatin Valley Fire District
- Washington County
- WCCCA (911)
- WCCLS

The GIG –What We Do

- Strategic Planning
- Set policy & standards for members
- Emphasize cost-effective solutions
- Seek projects where there is joint benefit
- Aerial photos, lidar, oblique imagery
- Build partnerships



Our Mission:

Coordinate, plan, and execute GIS activities within the region represented by GIG participants

Emergency Management in Washington County

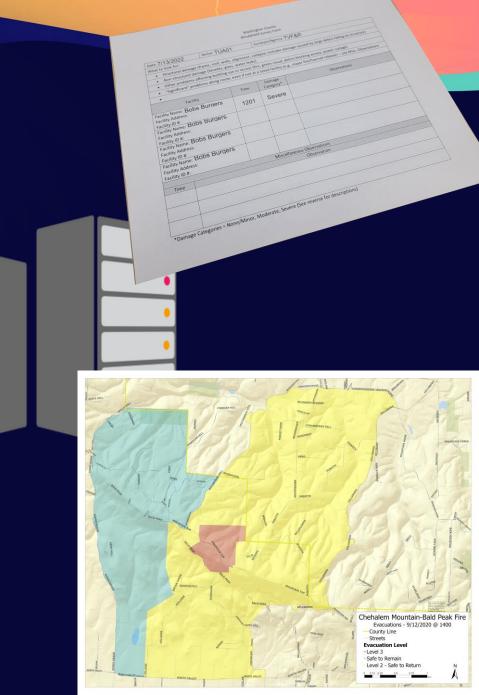
- Composed of emergency managers from member agencies
- Our primary client
- Overlap between GIG & EMC
- Nearly all EMC members have GIS programs



The EMC develops and maintains a countywide, integrated system to prepare for, respond to, recover from, and mitigate against disasters

Where We've Been

- Current Problems
 - Inability to reliably share and edit data in real time
 - Inadequate GIS communication/coordination between agencies
- Current limitations
 - 2020 Firestorm experience
 - Current methods for Rapid Damage Assessment
- The Challenge –to improve this without additional IT support/admin



- Multi phase project Began in 2017
- First Plan On premise solution \$\$\$\$\$\$\$
- Better Plan Collaboration
 - Partnered Collaboration
 - Distributed Collaboration

Is sharing collaborating?



Proposed Architecture: Initial Plan - On Premise Solution

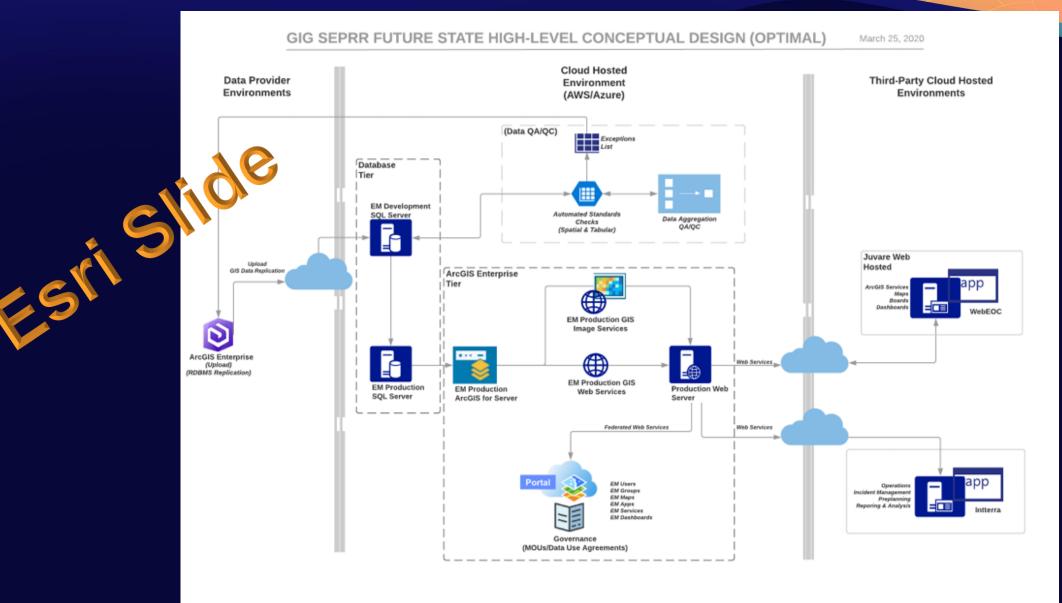
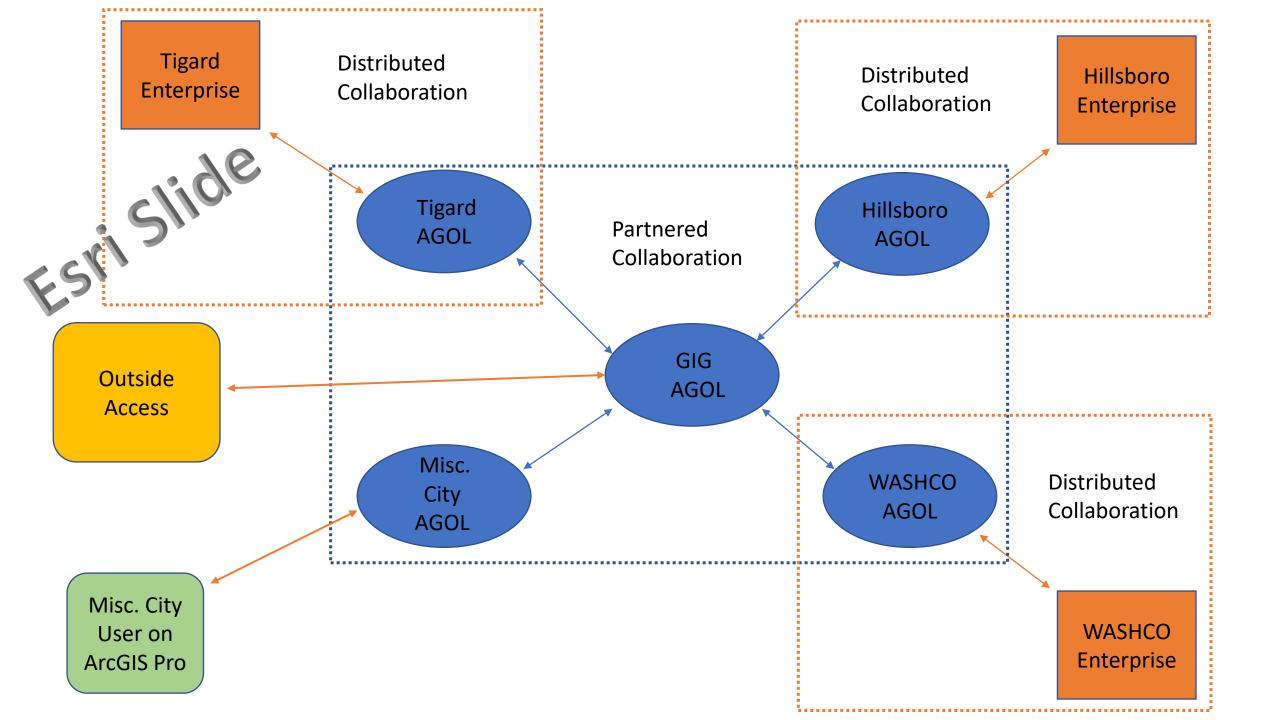


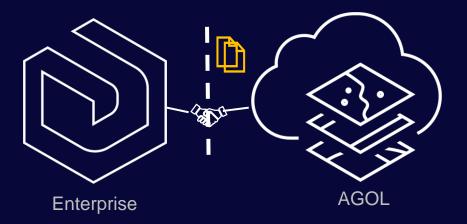
Figure 5 - Conceptual diagram of the optimal GIS IT platform architecture in the recommended future state



Centralized Geospatial Data Hub



Distributed collaborations
allow ArcGIS Online and
ArcGIS Enterprise
organizations to share and
sync content in groups.

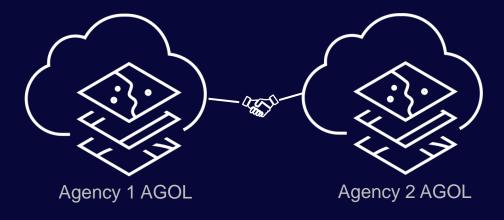


Partnered collaborations allow

ArcGIS Online organizations to

work closely and securely with

each other in groups.



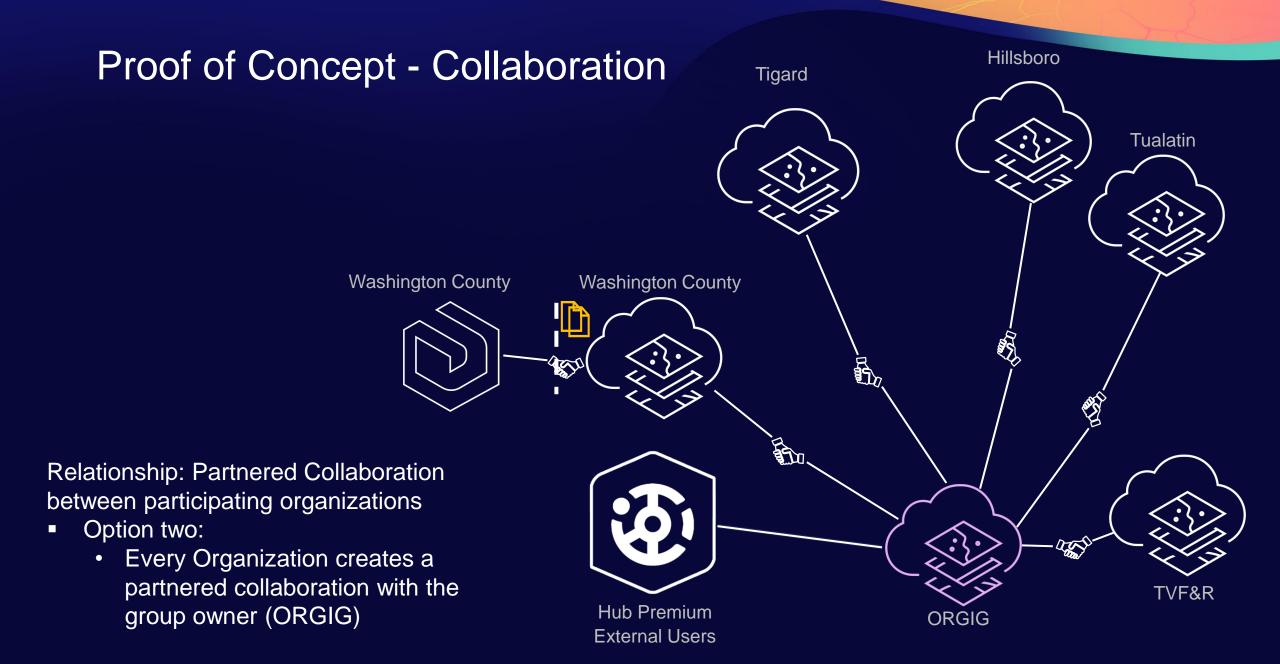


Hub Premium External Users

TVF&R

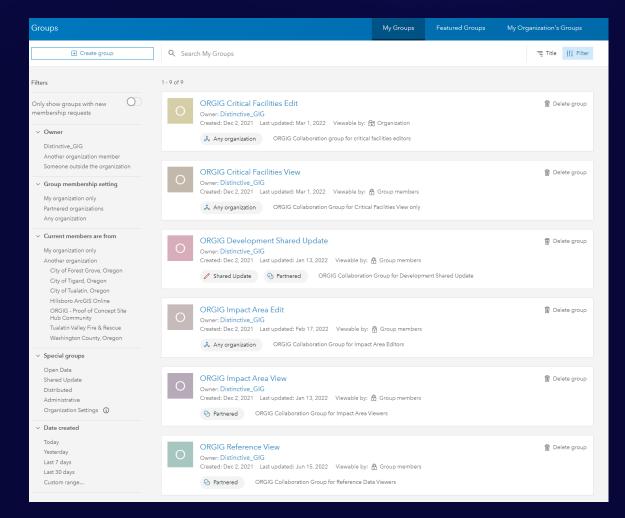
ORGIG

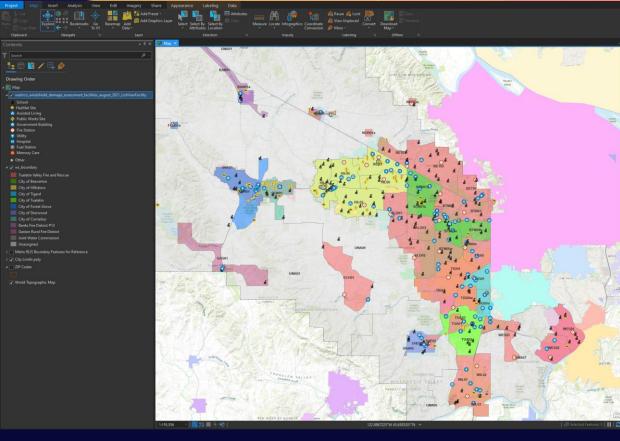
 Every Organization creates a partnered collaboration with every participating organization.



- Pilot project to test AGOL Collaboration
- Configured Partnered and Distributed Collaboration
- Tested 3 proof of concept use cases
 - 1) Edit collaborated data through ArcGIS Pro
 - 2) Damage Assessment Survey
 - ArcGIS Hub community user accounts
 - 3) Impact area updates

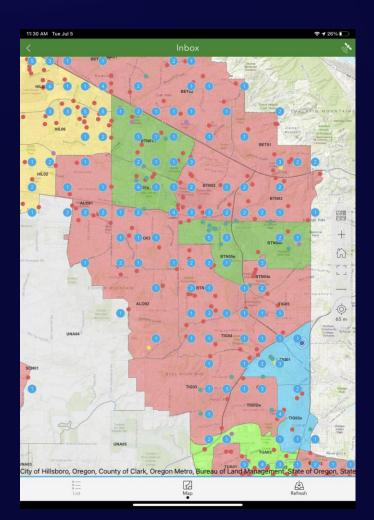
Use Case 1 - Edit Data

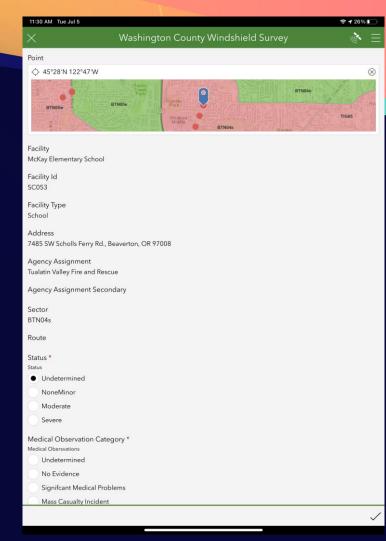




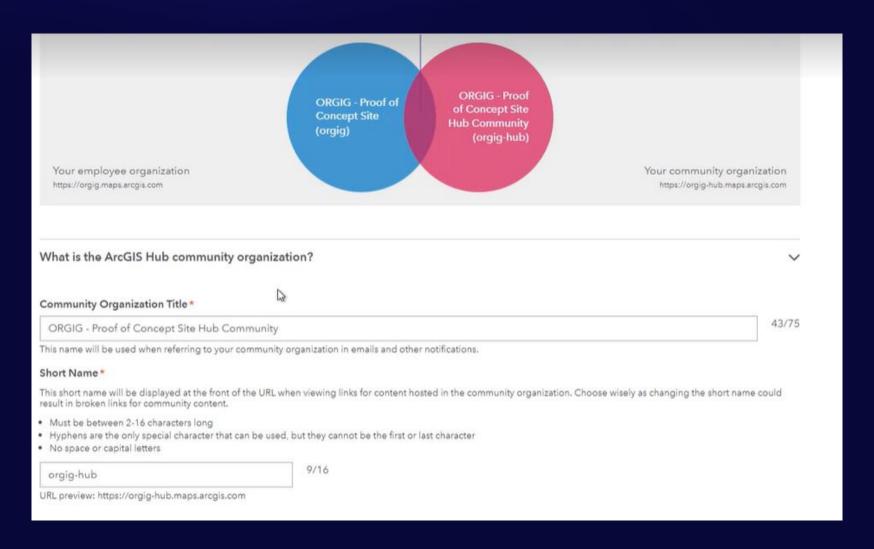
Use Case 2 – Windshield Surveys





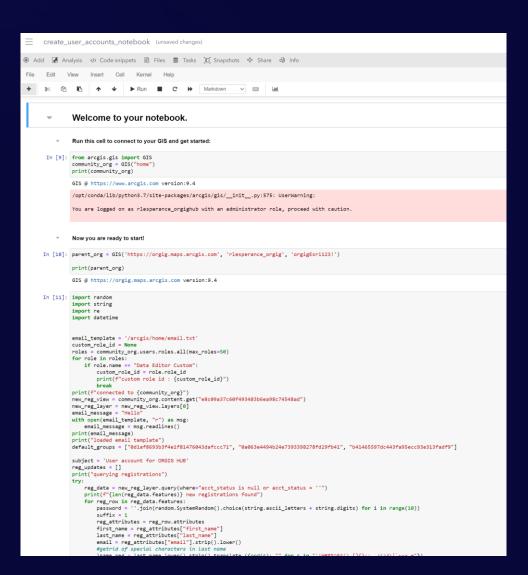


Use Case 2 – HUB Premium

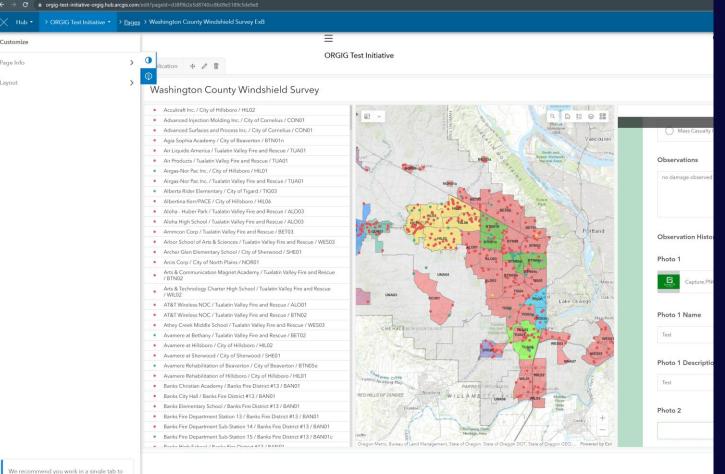


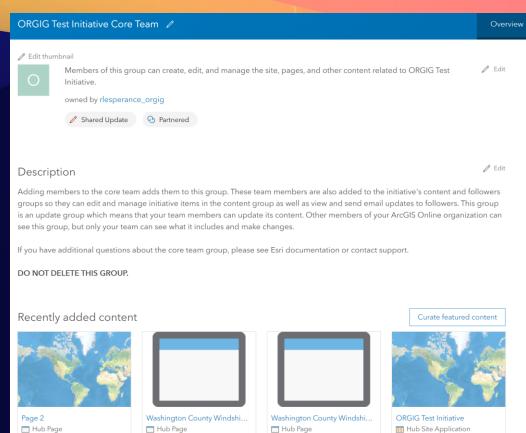
Use Case 2 – HUB Premium

First Name* Last Name* Agency*
Last Name*
Agency*
Agency*
Email*
Phone Number*

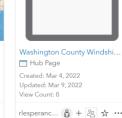


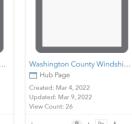
Use Case 2 – HUB Premium











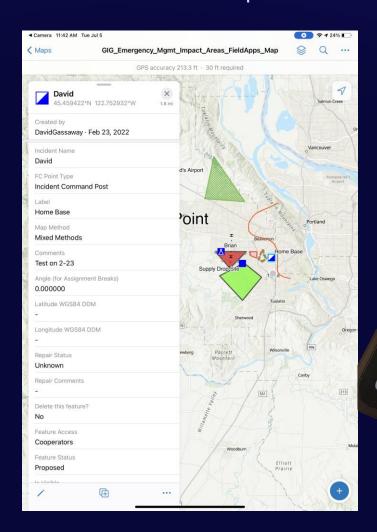


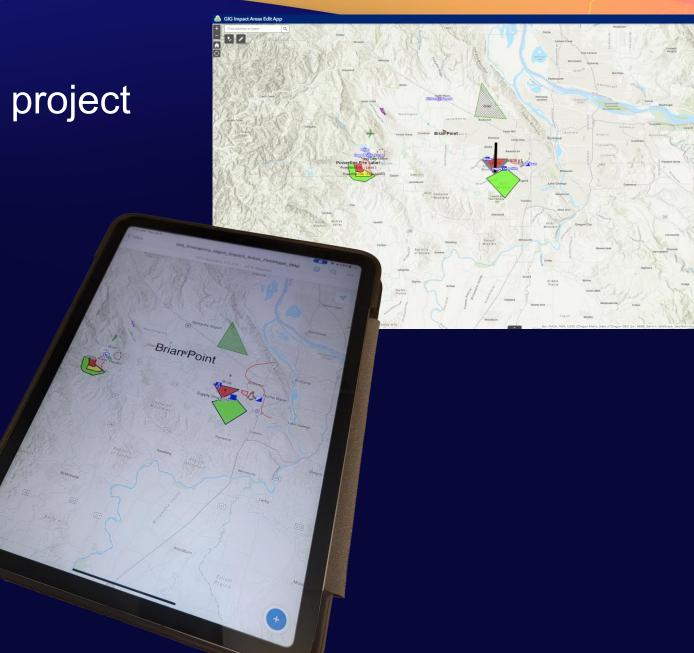












Next Steps

- Extend ArcGIS Online Partnered Collaboration
- Resource the ORGIG
- Take some use cases and implement to production
- Develop policies/administrative guidelines
- Investigate other use cases of AGOL Partnered Collaboration beyond EM (e.g., editing other data)