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

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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.
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
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
‘Where we are’ the project

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

Is sharing collaborating?
Figure 5 - Conceptual diagram of the optimal GIS IT platform architecture in the recommended future state
Centralized Geospatial Data Hub

*Data Stored at Systems of Record but Accessible by the Public & Partners*

**Partnered Agencies**
- Washington County
- City of Hillsboro
- City of Tigard
- City of Tualatin
- Tualatin Valley Fire & Rescue
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.
Proof of Concept - Collaboration

Relationship: Partnered Collaboration between participating organizations

- Option 1:
  - Every Organization creates a partnered collaboration with every participating organization.
Relationship: Partnered Collaboration between participating organizations

- Option two:
  - Every Organization creates a partnered collaboration with the group owner (ORGIG)
‘Where we are’ the project

• 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
‘Where we are’ the project

Use Case 1 – Edit Data
‘Where we are’ the project
Use Case 2 – Windshield Surveys
‘Where we are’ the project

Use Case 2 – HUB Premium
‘Where we are’ the project

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Use Case 2 – HUB Premium
‘Where we are’ the project
Use Case 3 – Impact Areas
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)