

ArcGIS for Emergency Management: An Introduction

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GIS
INSPIRING
WHAT'S
NEXT

Agenda

- Introduction
- Solution Offering
- What's Next
- Your Feedback

SOCIAL CONFLICTS
HOMELESSNESS
DEMOGRAPHIC SHIFTS



ECONOMIC PRESSURES
TRANSPORTATION
EPIDEMICS



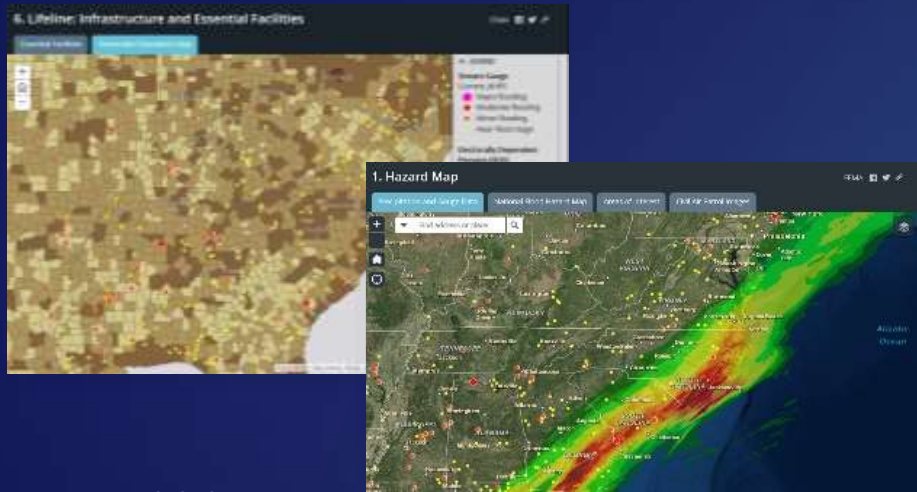
DISASTERS
CLIMATE CHANGE
DROUGHT
FLOODING



CHALLENGING AND EVOLVING TIMES

Preparing for and Responding to Disasters

Assessing Vulnerable Populations



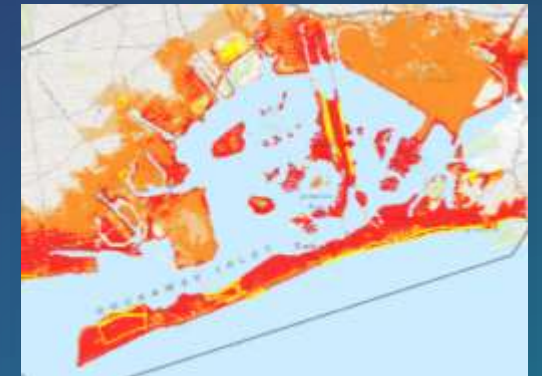
FEMA

Humanitarian Resources



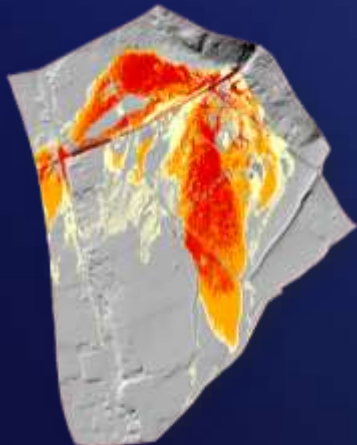
Red Cross

Coastal Flood Analysis

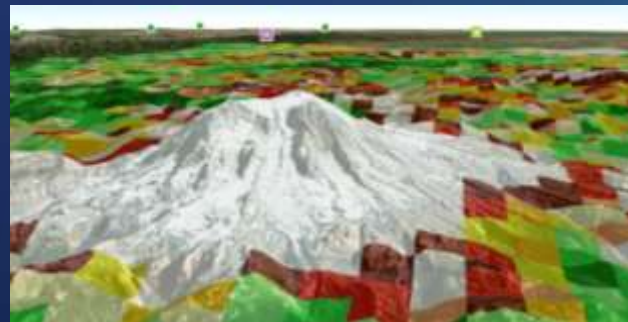


King County, New York

Landslide Forecasting



Wildfire Response Planning



Washington

Hurricane Storm Surge Model



Baltimore County, Maryland

Challenges

- Remaining in a “constant state of preparedness”
- Understanding what, and who, is affected if an incident were to occur
- How to apply limited resources effectively
- Monitoring activity during dynamic conditions and providing real time operational briefs
- Conducting rapid damage assessment and ensuring community recovers effectively
- Communicating effectively with the public

GIS Has Evolved

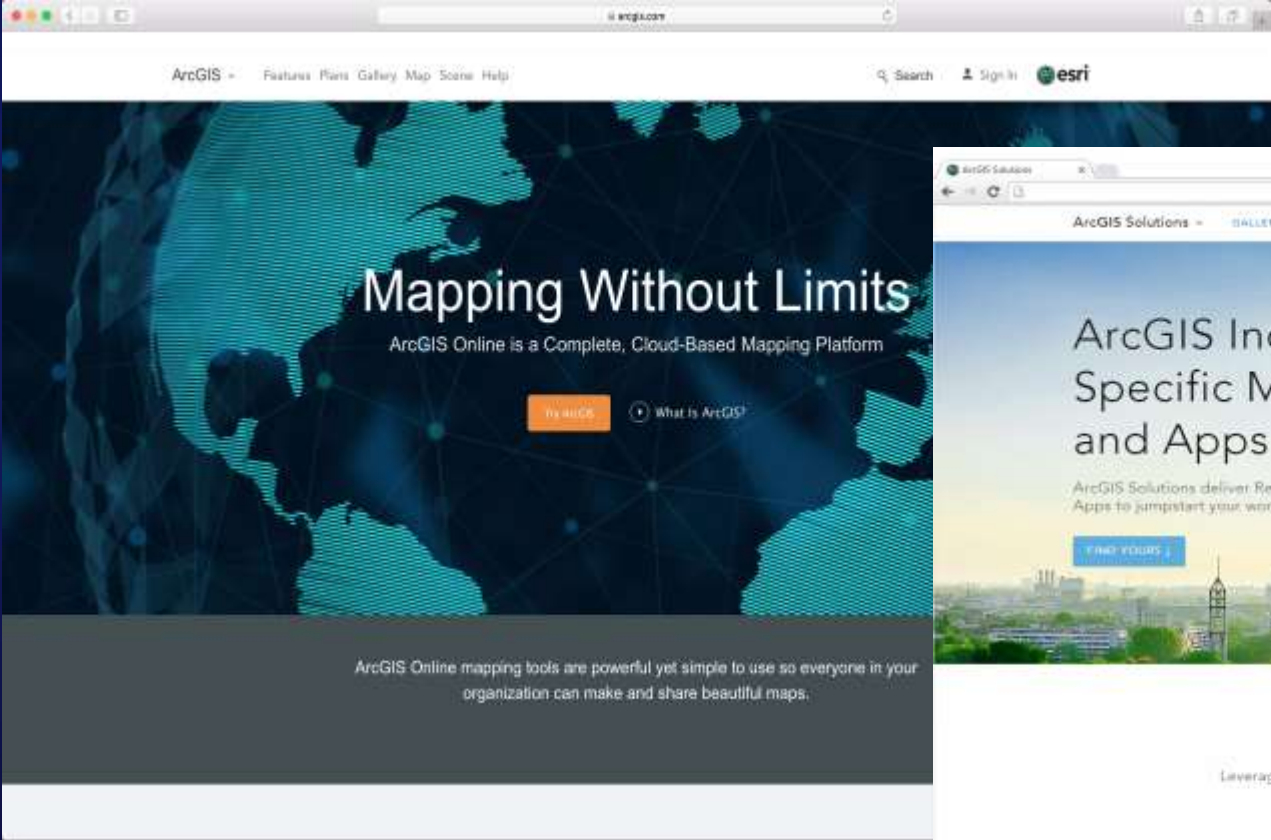
Your GIS is an Interconnected Platform



Bringing Together Data, Technology, and People . . .

. . . Creating a Framework for Solving Complex Problems

Turning Point



ArcGIS Online

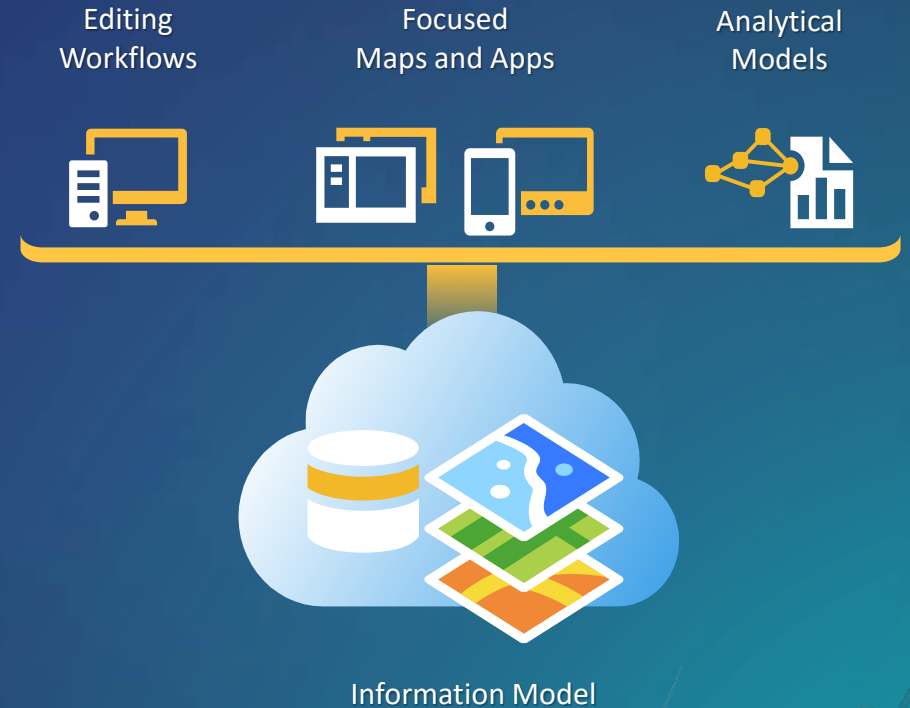


ArcGIS Solutions

ArcGIS Solutions for Emergency Management

Helping agencies become more resilient, develop preparedness plans, and respond to emergencies

- Collection of useful maps and apps
 - Configurable and extensible
 - Freely available and fully supported
- Community of users (500+ Meetup members)
 - Best Practices / Implementation Support
- Network of Esri Services and Partner offerings
 - Help users implement, sustain and enhance



.....Available on-premise or in the cloud

Mission

- Deliver maps and applications quickly throughout their organization
 - Roadmap for standard capabilities, improve service delivery, expand reach, innovation....
- Stay current with future releases / avoid legacy technology
 - Save time and money, leverage new ArcGIS offerings, focus on complex or unique problems....
- Unlock geospatial platform so it can be leveraged by many
 - Mitigate many organizational challenges, maximize technical expertise....
- Leverage the collective knowledge of the entire community
 - Best practices, industry tradecraft....

Aligning Development to Emergency Management

Providing solutions that address the needs of the emergency management lifecycle

Mitigation

- Hazard Analysis
- Vulnerability Assessment
- Infrastructure Work
- Public Education

Recovery

- Economic Recovery
- Debris Management
- Housing
- Health and Social Services



Preparedness

- Emergency Response
- Planning
- Training and Exercises
- Partnership Building

Response

- Life Safety
- Incident Stabilization
- Evacuations and Shelters
- Mass Care

Resilience

Preparedness
Organize Foundational Data
Community Profiles
Prepare for Incidents
Community Addresses
Engage the Public
Community Profiles
Manage Community Events
Prepare for Incidents
Flood Planning
Engage the Public
Emergency Assistance
Floodplain Inquiry
My Hazard Information
Manage Community Events
Events Calendar
Events Permit
Events Permit Review
Events Site Map
Events Coordination
Events Map Gallery

Response
Maintain Situational Awareness
Community Profiles
Assess Incident Impact
Situational Awareness Viewer
Inform the Public
Incident Briefing
Produce Emergency Maps
Incident Status Dashboard
Incident Briefing
Road Closures
Assess Incident Impact
CAMEO Tools
Inform the Public
Impact Summary Map
Shelter Locator
Evacuation Zones
Public Information
Produce Emergency Maps
Emergency Management Maps

Recovery
Conduct Damage Assessments
Damage Assessment
Collect Health & Safety Reports
Photo Survey
Manage Storm Damage
Citizen Reports
Public Safety Reports
Health & Safety Reports
Health & Safety Dashboard
Manage Storm Debris
Debris Reporting

Mitigation
Assess Vulnerabilities
Hazard Assessment & Analysis
Hazard Vulnerability Assessment
Community Mitigation
Mitigation Feedback

Resilience
Become More Resilient
Community Resilience
Community Resilience Surveys
Community Impact
Resilience Dashboard
Resilience Outreach
Community Impact Dashboard

ArcGIS Solutions - GALLERY COMMUNITY

SEARCH esri

ArcGIS Industry Specific Maps and Apps

ArcGIS Solutions deliver Ready-to-Use Maps and Apps to jumpstart your work.

FIND YOURS

Leverage hundreds of ready-to-use maps, apps, and platform configurations to meet your needs, delivering innovation and best practices for your organization.

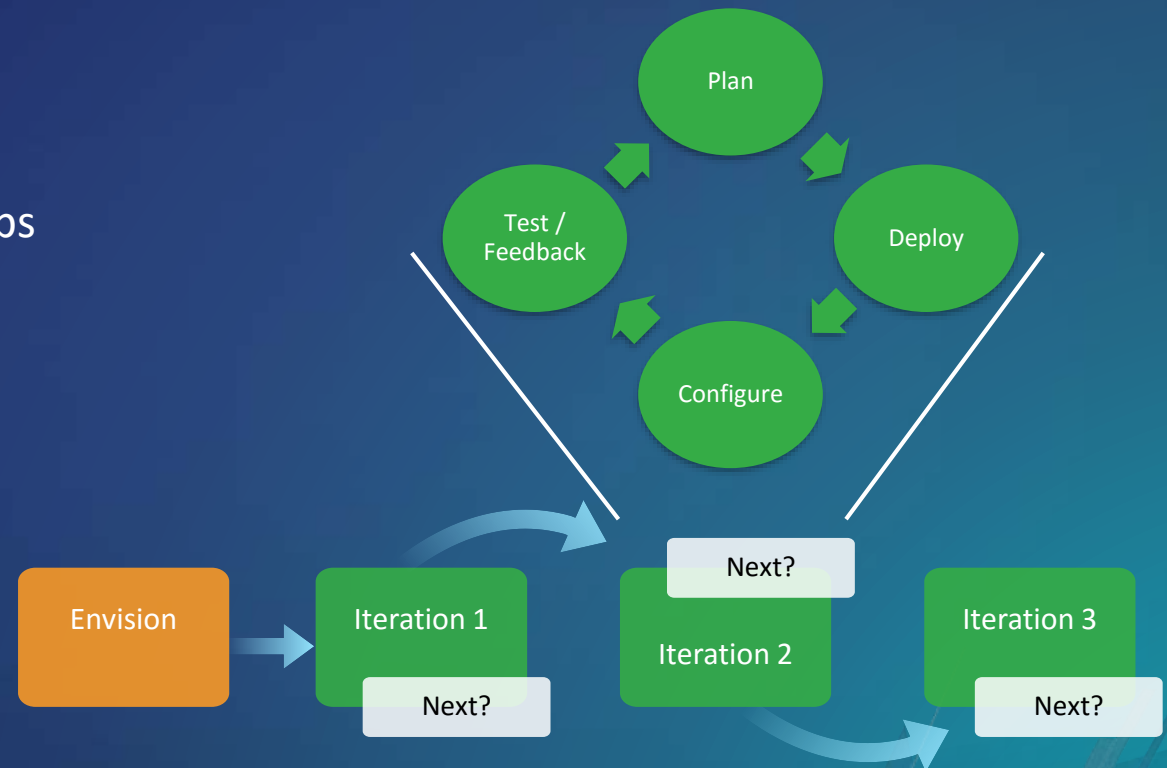
- Local Government
- State Government
- Emergency Management
- Water
- Electric
- Gas
- Defense
- Telecommunications
- Parks & Gardens

Show Me!

How do I get started?

Leverage solution offerings to maximize technical expertise and minimize deployment time

- Deploy quick wins
 - Configure your mapping platform
 - Align with strategic business needs
 - Implement one or more focused maps and apps
 - Organize your data
 - Iterate....



...embrace an agile implementation approach

What's New

June 2018 Release

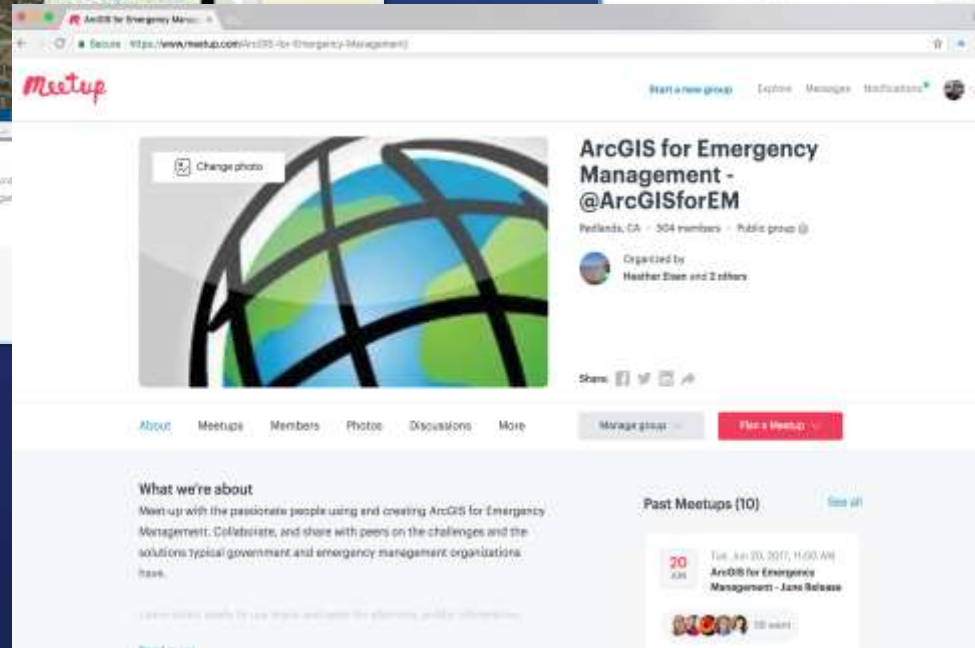
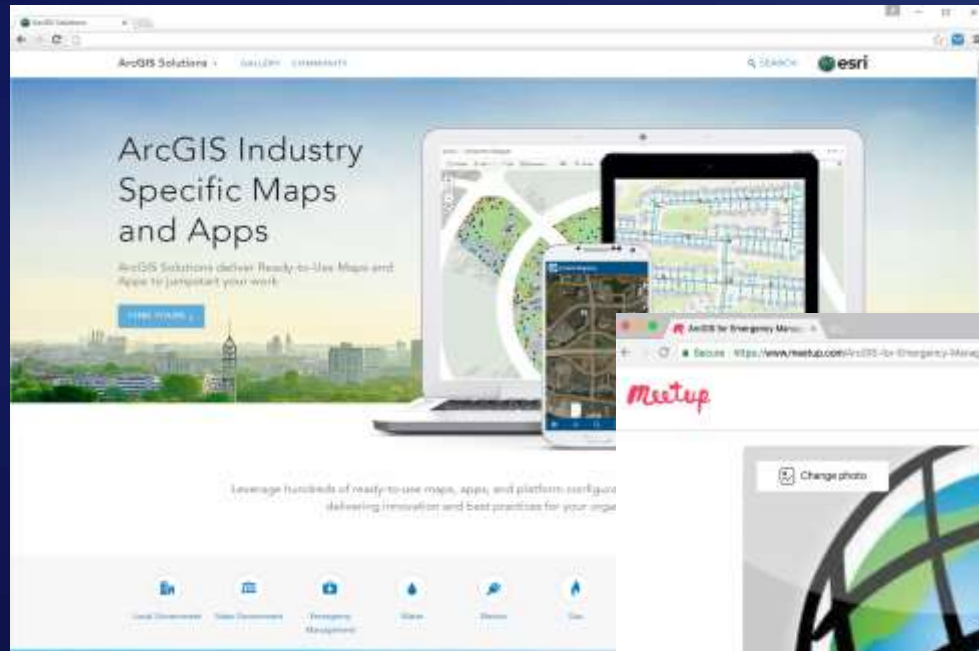
- Enhancements to existing offerings
 - Community Mitigation
 - Emergency Management Maps
 - Situational Awareness

Road Ahead

- *Simply, simplify, simplify*
- Preparedness, Resiliency
- Public engagement
- 3D

The Community

It's not just about the technology



Closing

- Deliver solutions that enable your success
 - Easier to deploy and sustain
- Evolve and grow the collection of apps
- Develop a community of users
- Provide a platform for partners to deploy their solutions

UC Events

- ArcGIS Solutions for Emergency Management Sessions
 - Several tech workshops / demo theatre sessions
- Solution Island
 - Focused conversations / support

Esri User Conference

GIS – Inspiring What’s Next

July 9 - 13, 2018 | San Diego Convention Center, San Diego, California

Thank you

Be innovative, aware, and know you are not alone

 <http://solutions.arcgis.com>

 <http://meetup.com/ArcGIS-for-Emergency-Management/>

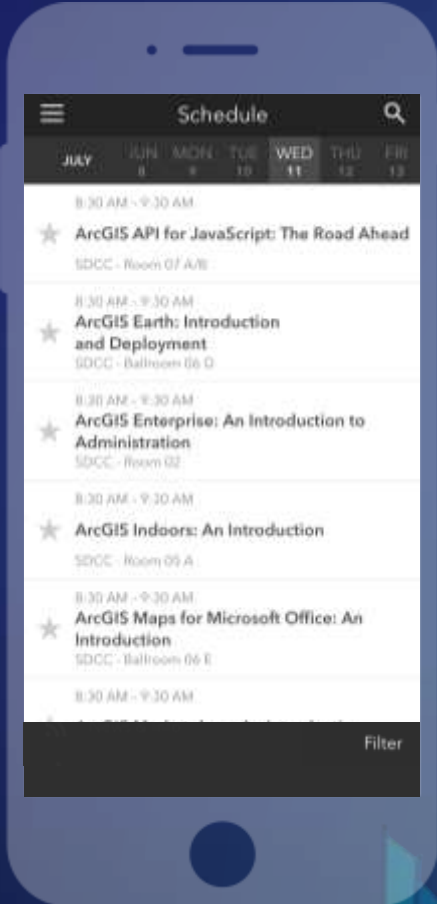
 <http://esri.github.com>

Please Take Our Survey on the App

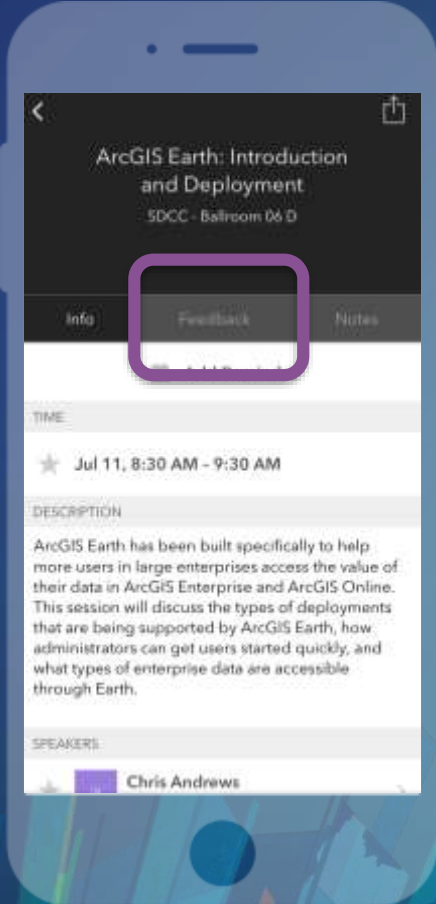
Download the Esri Events app and find your event



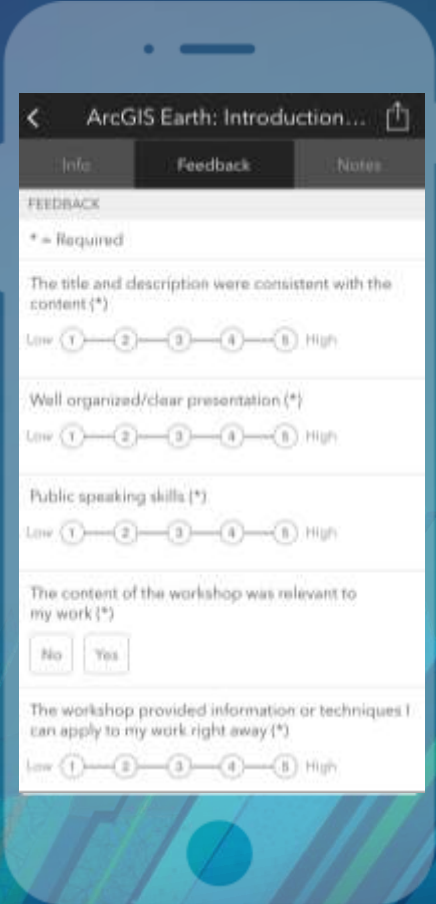
Select the session you attended



Scroll down to find the feedback section



Complete answers and select "Submit"





esri

**THE
SCIENCE
OF
WHERE**