ArcGIS Earth for Enterprises

DARRON PUSTAM | ARCGIS EARTH

CHRIS ANDREWS | 3D

ArcGIS Earth is

ArcGIS Earth is a lightweight globe desktop application that helps you explore any part of the world and investigate and create 3D and 2D map data including KML

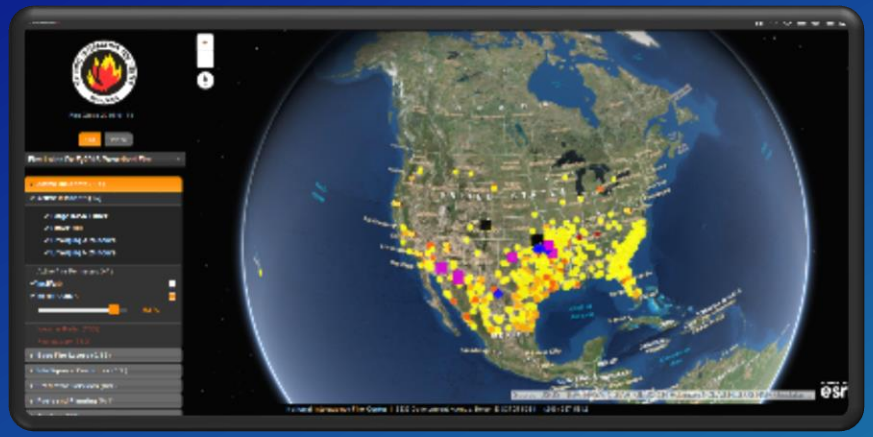
Why are customers interested

Require file-based workflows with KML and other vector and raster GIS data sources and services

Want lightweight user interface and familiar experience

Need to provide consistent communication among stakeholders across the enterprise

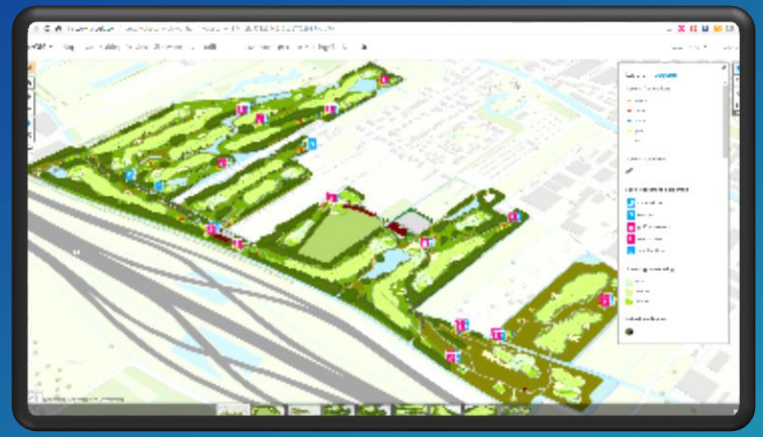
Customer examples include



Large Enterprises

Exploring data securely on premises

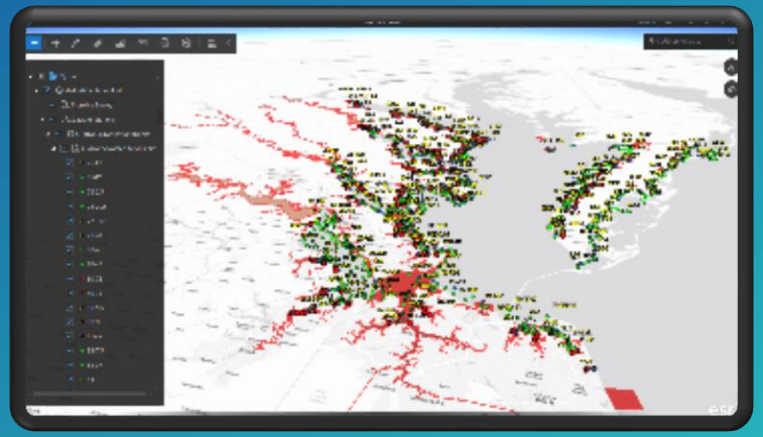
Law enforcement, federal agencies & large companies need to explore information across large areas using 3D GIS behind a firewall



Small Enterprises

Sharing 3D using ArcGIS Online

City planners, urban designers, and small AEC firms want to create and share plans and status with constituents in 3D



Hybrid scenario

3D with large data packages in connected and disconnected workflows

Emergency managers, military, and utilities agencies need to use 3D within the organization for planning and to share with collaborators in the field to inform response and action

Designed for large customers, works for everyone

- Lightweight (~60Mb)
- Configurable during installation
- Secure authentication
- Multiple deployment patterns
- Low training requirement

ArcGIS Earth

DEPLOYMENT PATTERNS

ArcGIS Earth Deployment Patterns | On Premises

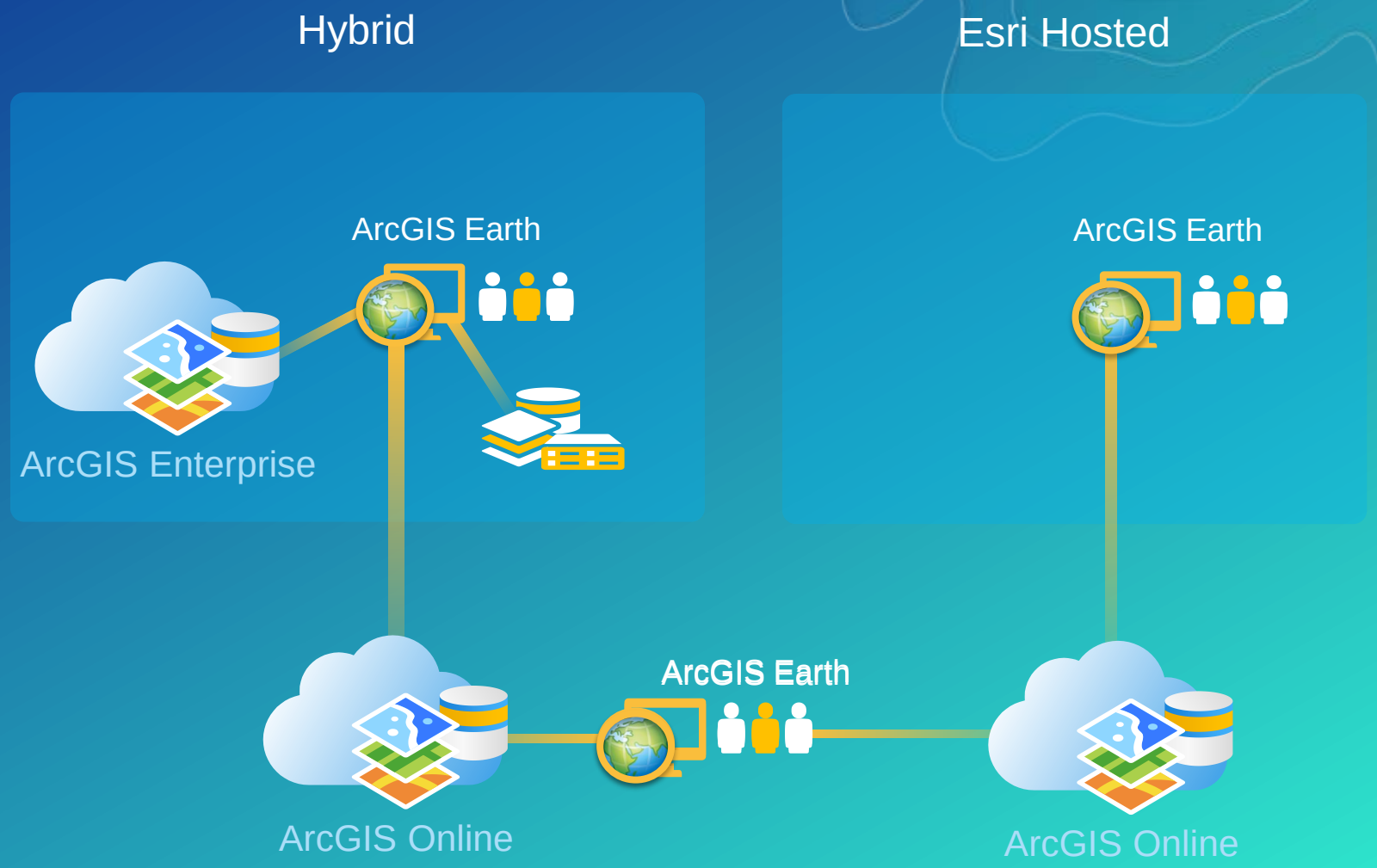
On Premises
“Disconnected”

ArcGIS Earth

ArcGIS Enterprise

ArcGIS Earth Deployment Patterns | Esri Hosted

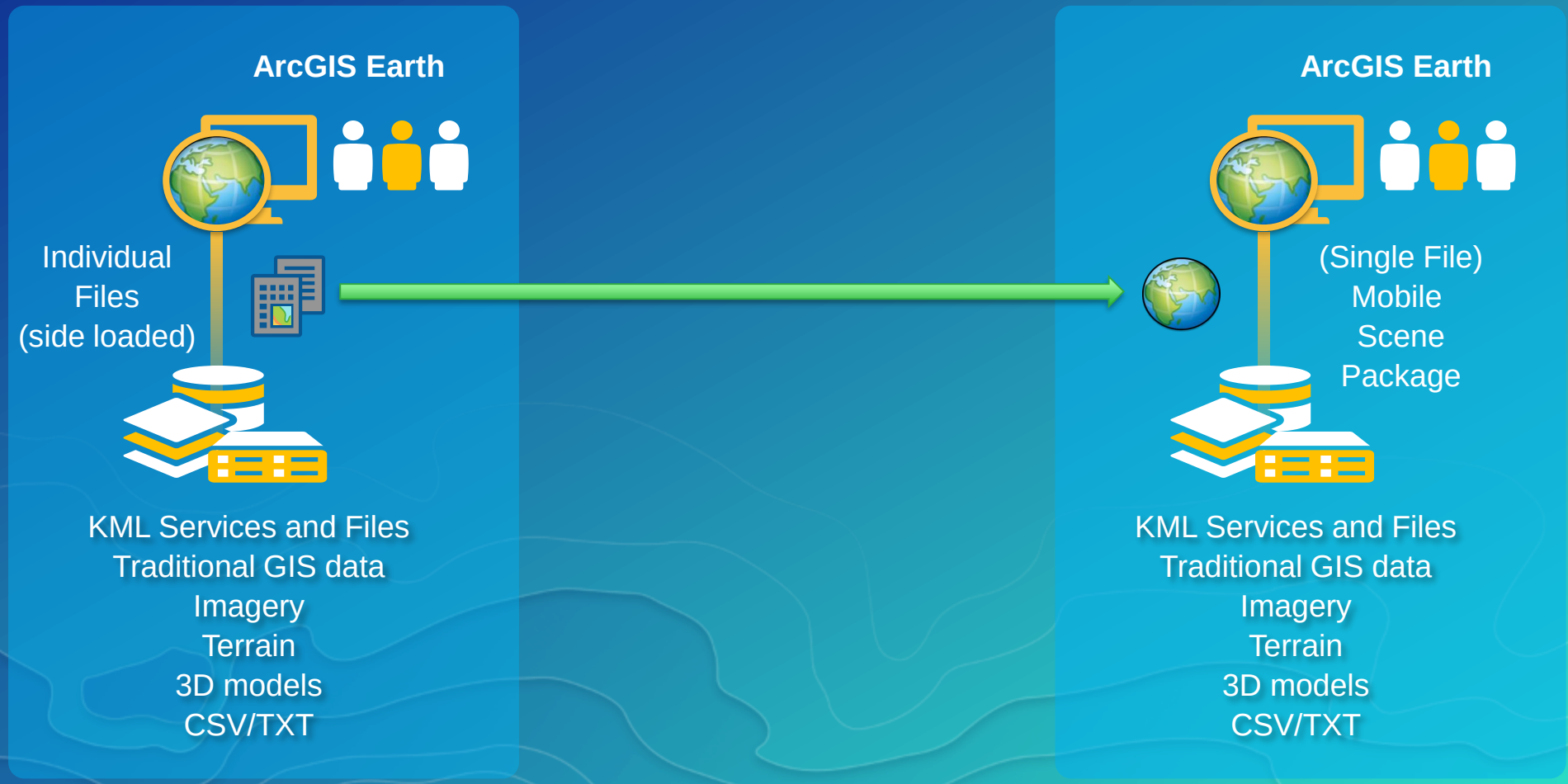
ArcGIS Earth Deployment Patterns | Hybrid



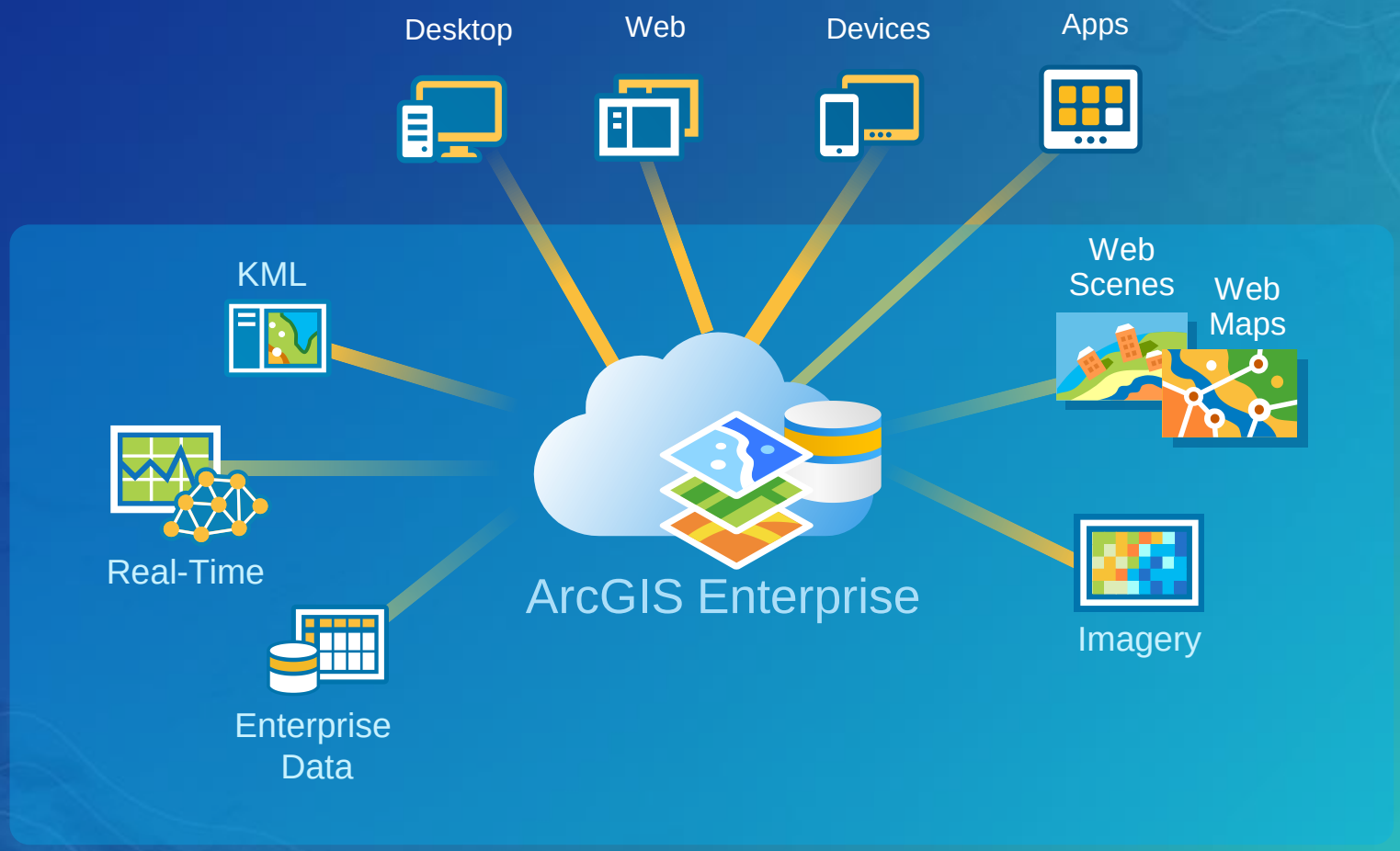
ArcGIS Earth Deployment Patterns | Offline

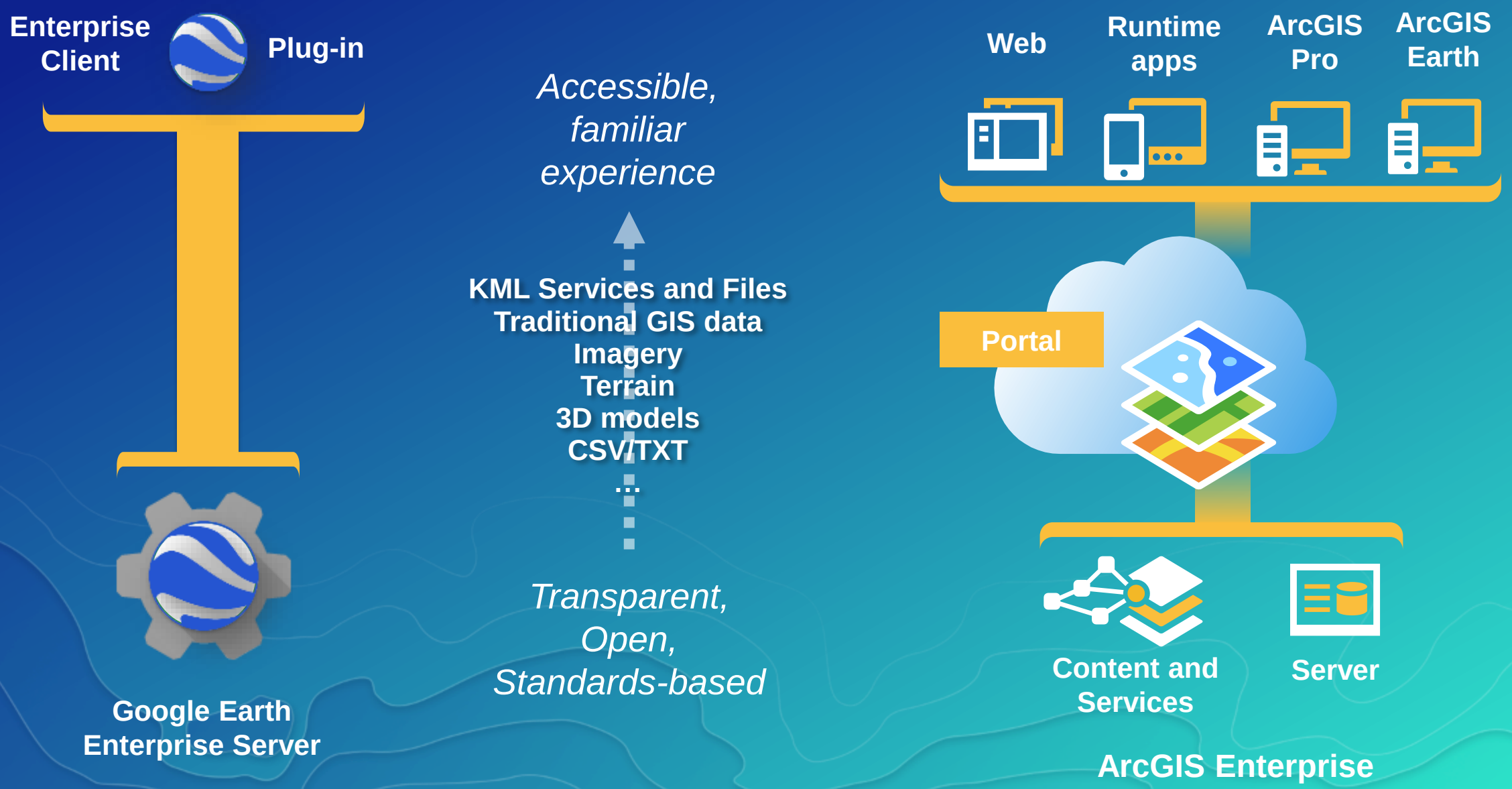
Current Workflow
Offline - “Disconnected”

Future Workflow
Offline - “Disconnected”



Combine 2D & 3D in the same architecture




Enterprise Client
Plug-in
Google Earth Enterprise Server
Accessible, familiar experience
KML Services and Files
Traditional GIS data
Imagery
Terrain
3D models
CSV/TXT
...
Transparent, Open, Standards-based
Web
Runtime apps
ArcGIS Pro
ArcGIS Earth
Portal
Content and Services
Server
ArcGIS Enterprise

ArcGIS Earth

DEEP DIVE INTO ADMIN FEATURES

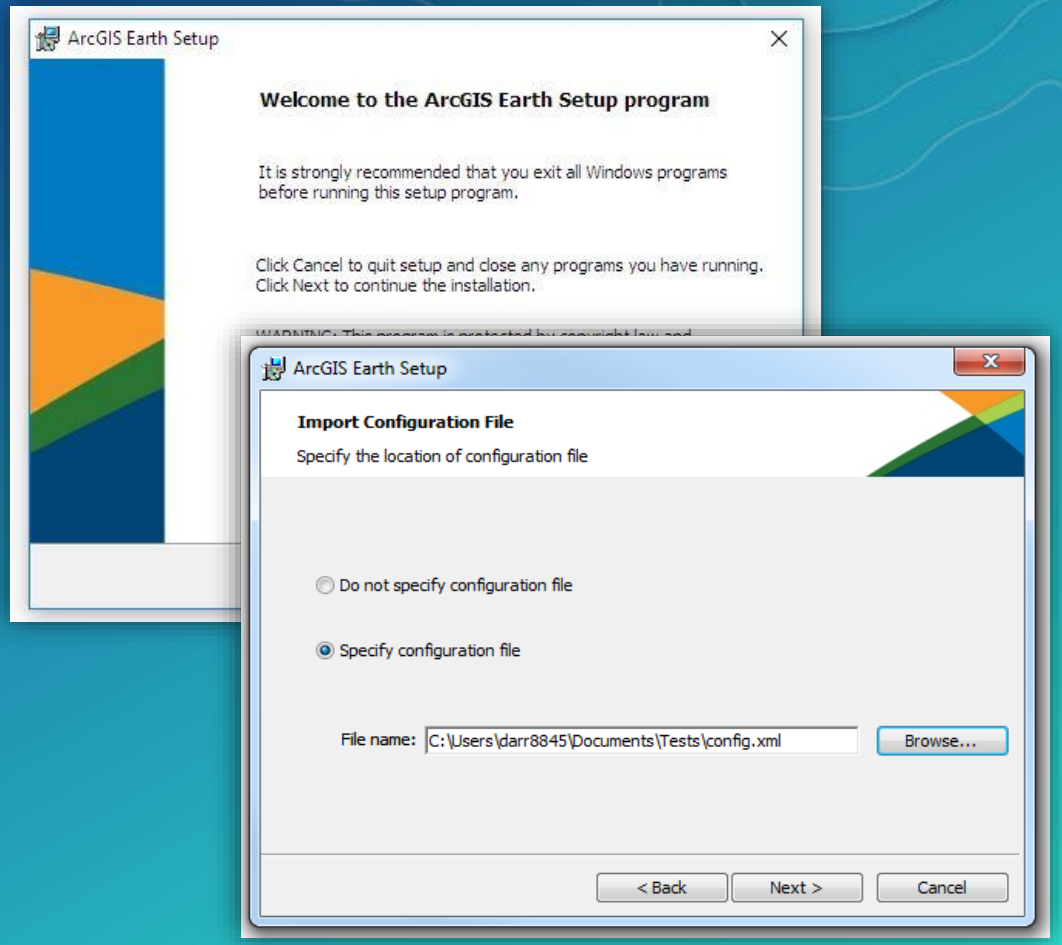
Configure ArcGIS Earth at install

Preset configuration Parameters

in *config.xml*

Add Start Up layers including WMS

Configure help location, feedback link, acknowledgements, message banner

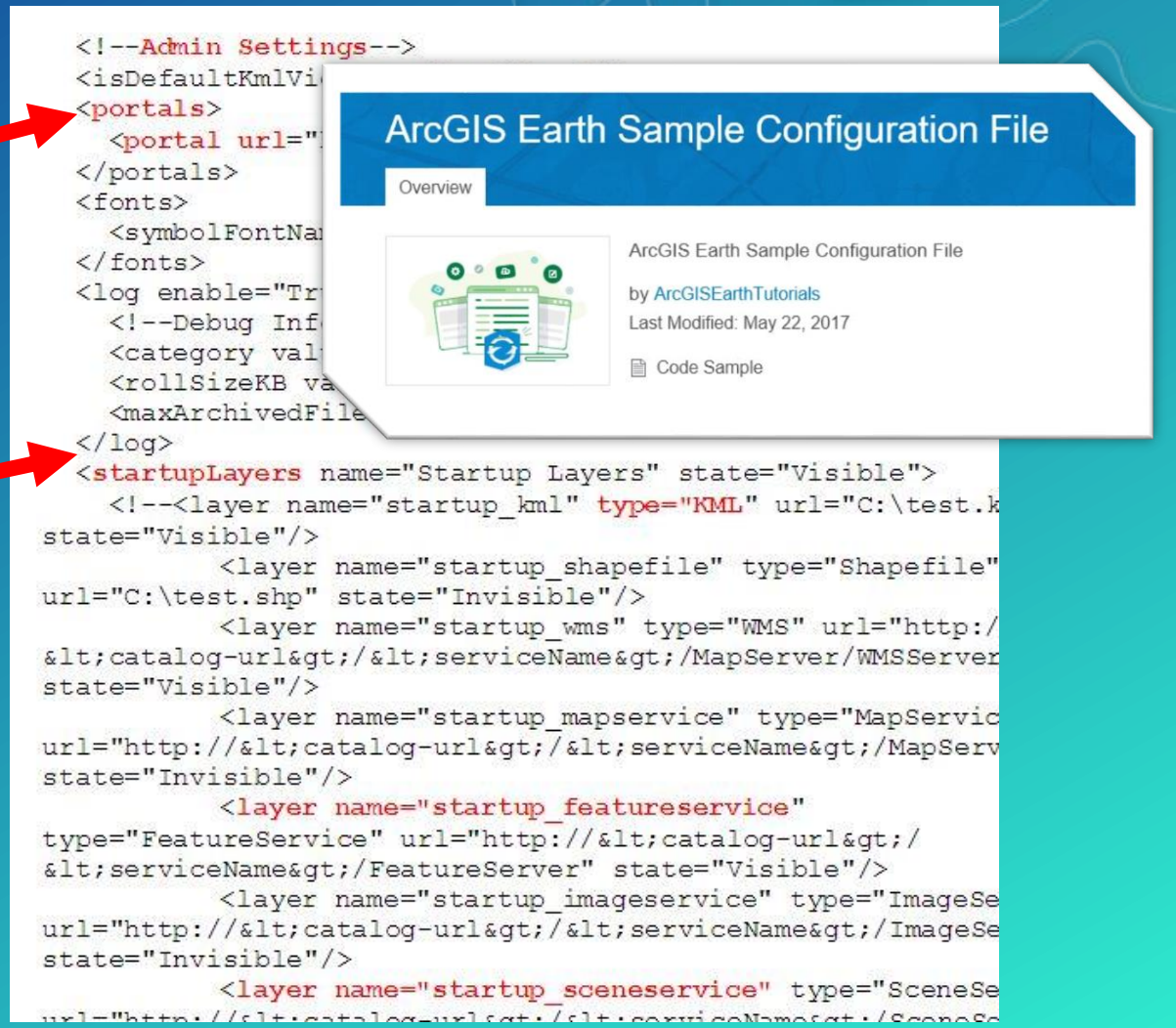


Silent configuration possible using command line parameters at install

Preconfigure ArcGIS Earth for your users

Additional configuration parameters include specifying:

- Portals
- Navigation
- Units
- Data layers (basemaps & terrain)
- Error logging
- Alternate icon path for legacy KML



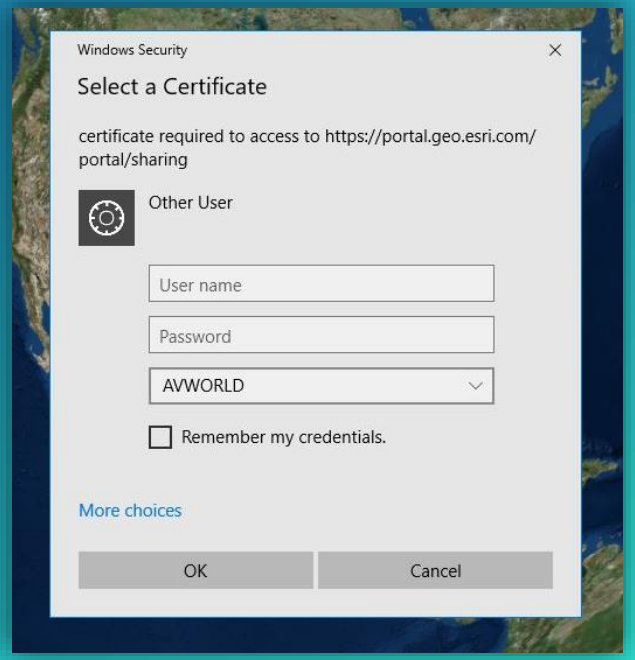
ArcGIS Earth supports secure authentication

Connect securely to ArcGIS Online or ArcGIS Enterprise

Users with Earth configured to point at a PKI-enabled Portal will be automatically signed in

ArcGIS Earth supports portal starting at Portal for ArcGIS 10.2.1 and supports SAML authentication at version 10.4 and later.

ArcGIS Earth version	Portal for ArcGIS				
	Built-in security	IWA security	PKI security	SAML authentication	Kerberos security
1.0	✓	✓	✓		✓
1.1	✓	✓	✓		✓
1.2, 1.2.1, 1.3, 1.4, 1.5	✓	✓	✓	✓	✓



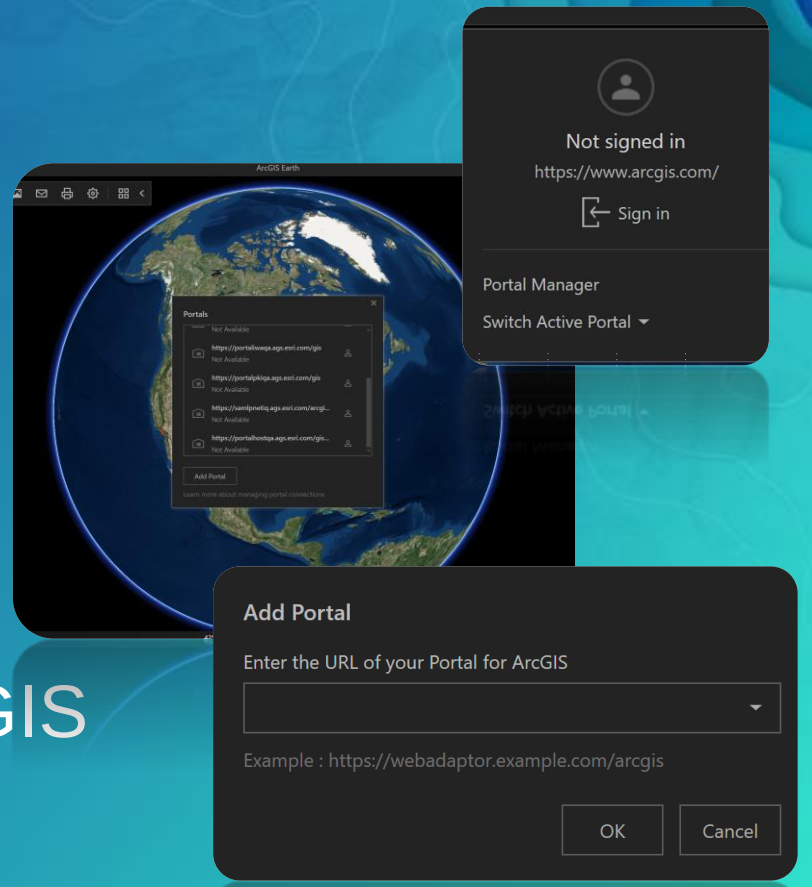
Access secure content

Authenticated users can:

- Access authorized shared content in ArcGIS Enterprise or ArcGIS Online
- Access locator in ArcGIS Enterprise

Users cannot:

- Publish content directly to the internet* or ArcGIS Online

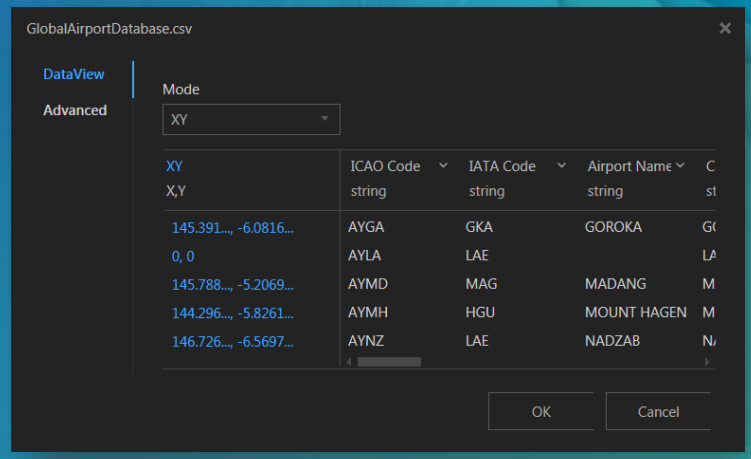


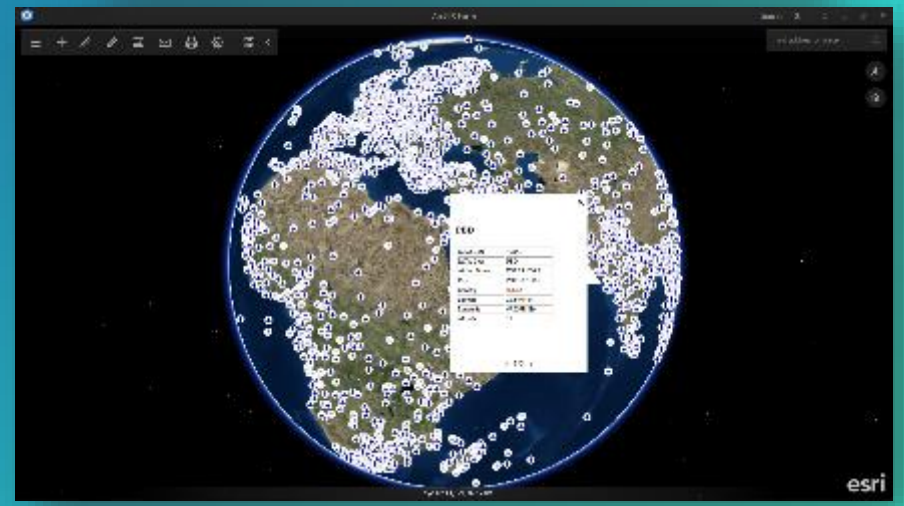
*All Earth users can create drawing items and save them as local KMZ files and take screenshots

Configure geocoding services

On premises users can access a configured locator for batch address geocoding

- Currently only one locator can be accessed
- *Future:* allow user to choose locators
- *Future:* geocode against ArcGIS Online



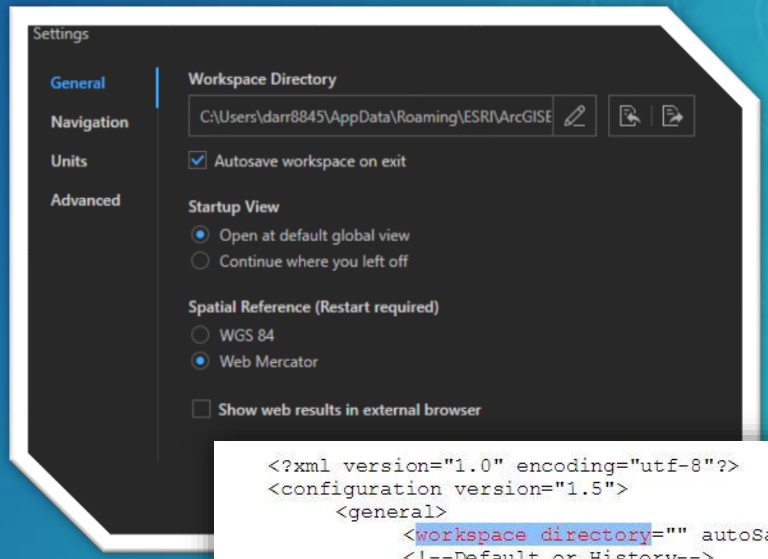


Configure Workspace

ArcGIS Earth workspace location can be set by user or administrator

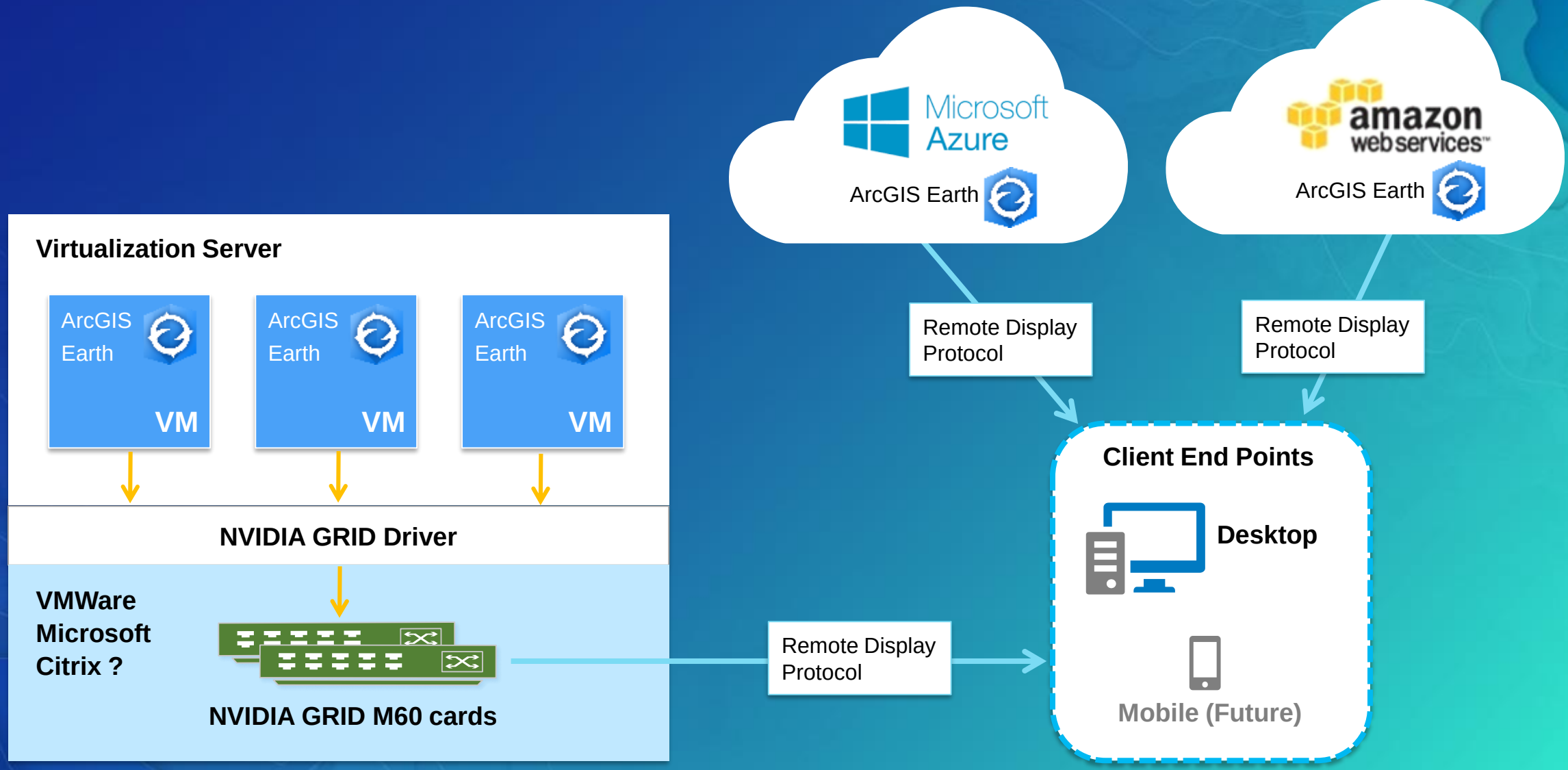
- Can be directed to a local folder or a network folder

- Workspace can be backed up using standard recovery software

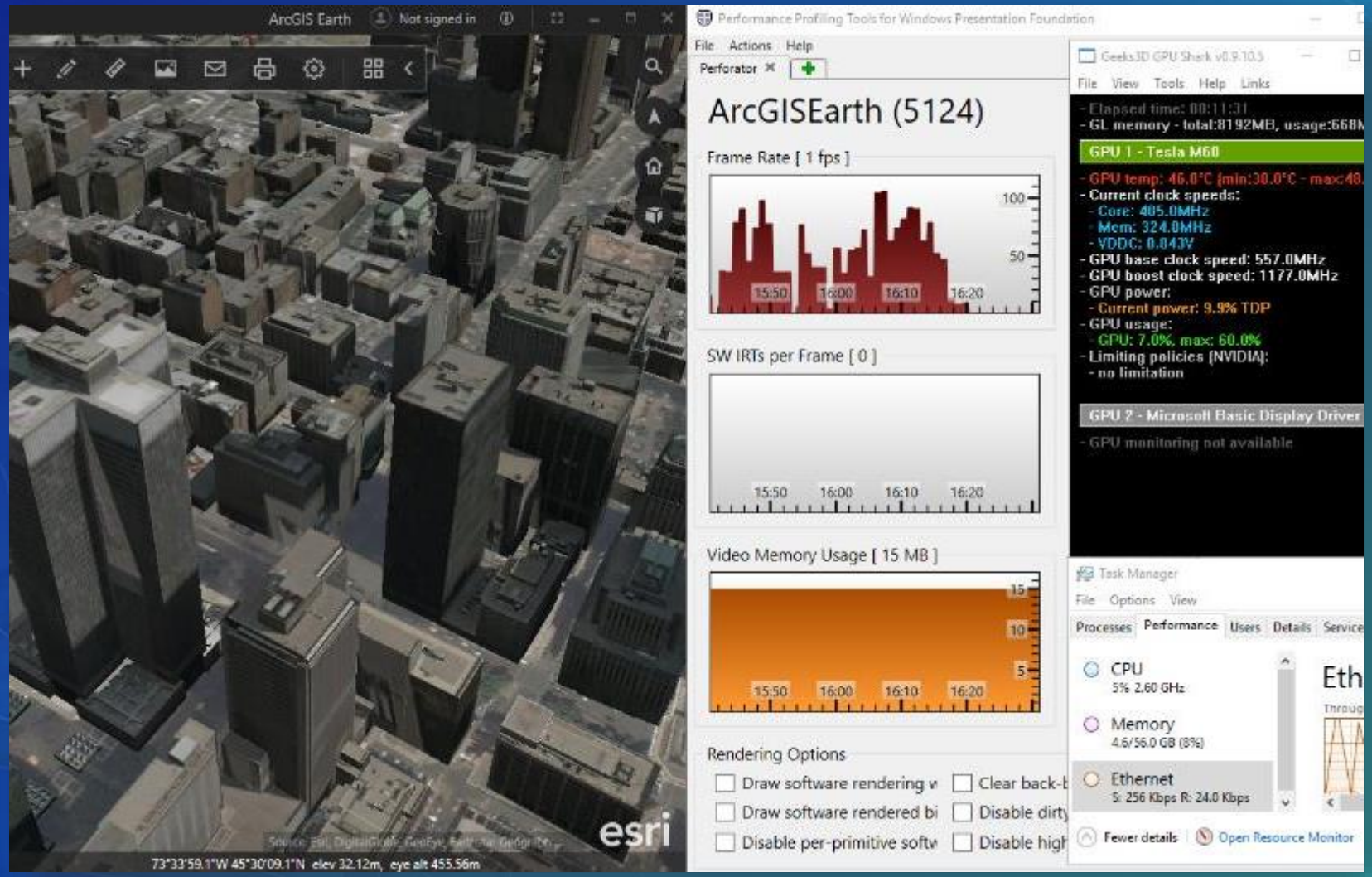



```
<?xml version="1.0" encoding="utf-8"?>
<configuration version="1.5">
    <general>
        <workspace directory="" autoSave="True"/>
        <!--Default or History-->
        <startupView value="Default" />
        <!--WebMercator or WGS84-->
        <spatialReference value="WebMercator" />
        <isShowInExternalBrowser value="False" />
    </general>
    <navigation>
        <!--speed:0 ~ 100-->
        <flyto speed="50" autoZoomToNewLayer="True"/>
        <!--speed:0 ~ 100; zoomDirection:Forward or
Backward-->
        <mouseWheel speed="50" zoomDirection="Forward"/>
        <continuousPanning value="True" />
    </navigation>
    <effects3d>
        <!--On or Off-->
```

ArcGIS Earth on virtualized platforms

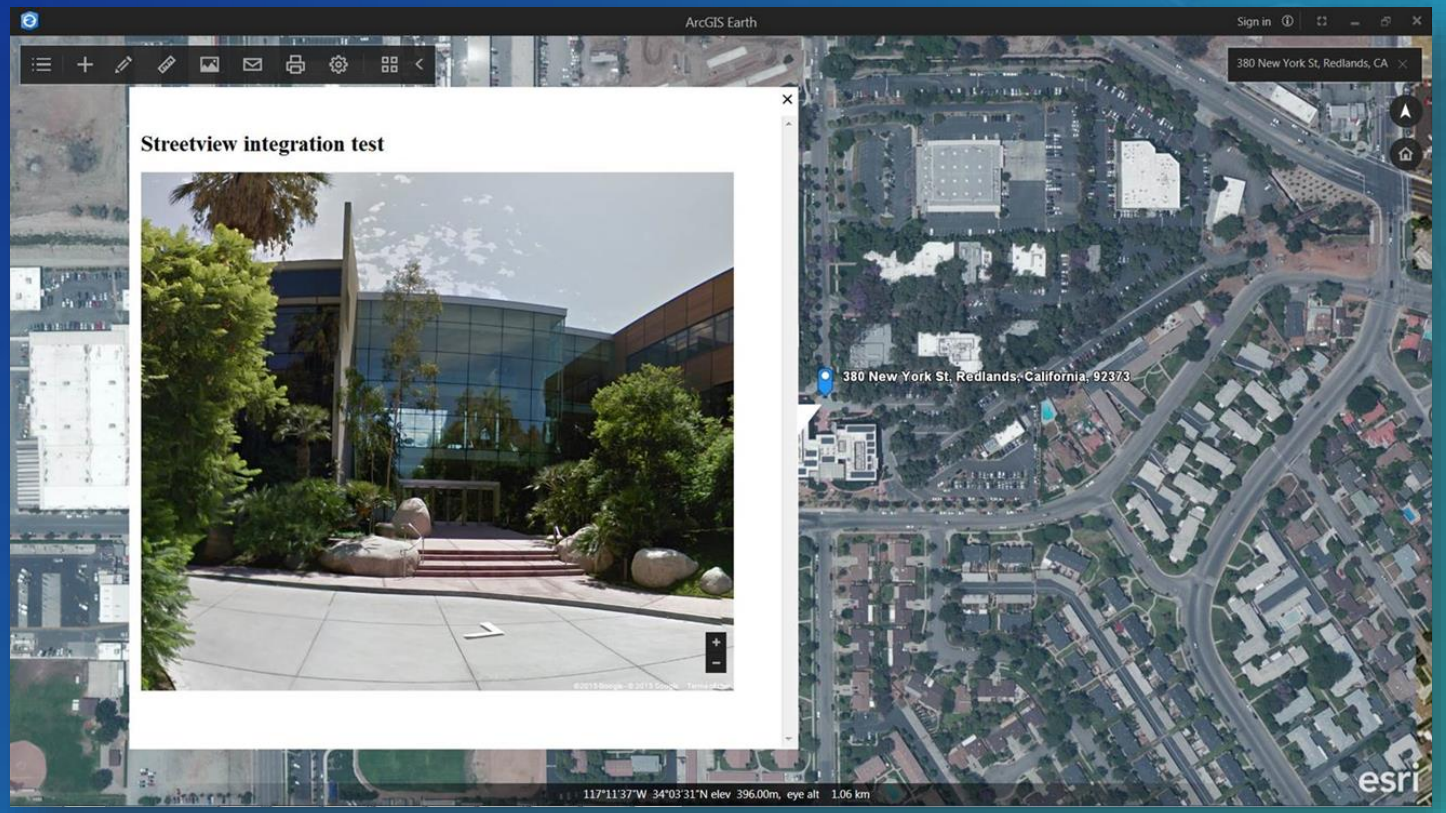


ArcGIS Earth on hardware-accelerated VMs



Microsoft Azure
NV-series instances

Call external KML services with a click of the mouse



See http://doc.arcgis.com/en/arcgis-earth/ for more…

Streetview imagery shown is a demo example of Google Streetview integration and does not imply endorsement of ArcGIS Earth or Esri by Google

Licensing

ArcGIS Earth is free for download and use

- Users of ArcGIS Earth can view publicly-shared data in ArcGIS Online and Portal for ArcGIS without a Named User account
- Protected data in Online and Portal requires Named User access
- Some premium content in the Living Atlas requires a Named user account

Download directly from http://j.mp/ArcGISEarthDownload

Version 1.5 is English-only

More information and support

Product pages and download – http://j.mp/ArcGISEarthDownload

Help documentation and system requirements – http://j.mp/Earth1_0Doc

GeoNet forum - http://j.mp/Earth1_0Forum

Twitter - @ArcGISEarth

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ArcGIS Earth Roadmap (planned)

Essential User Experience
2016

Lightweight & easy to use
KML, Services & Open Standards (WMS, WMTS)
Portal

Secure & Deployable
2017

Configurable Install
Authentication
Drawing, Icons and Popup Implementation

Major Runtime Technology Dependency

Data, Capabilities & Performance
New runtime version
Mid Term

Vector Tiles, Point Clouds, 3D Points, GeoJSON
KML Editing
Interactive Tools
Disconnected Globe (Mobile Scene Package)

Extended Workflows
Longer Term

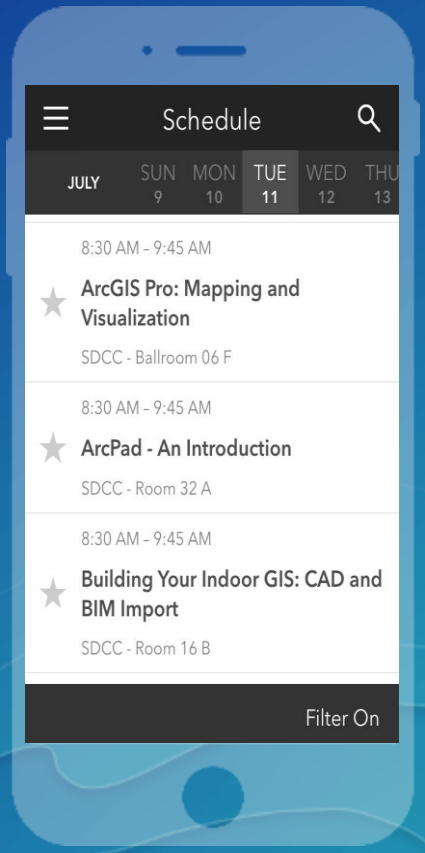
Plug-in Framework and API
Centralized configuration in Portal
Earth Mobile

Creation Date: Jun 27th 2017

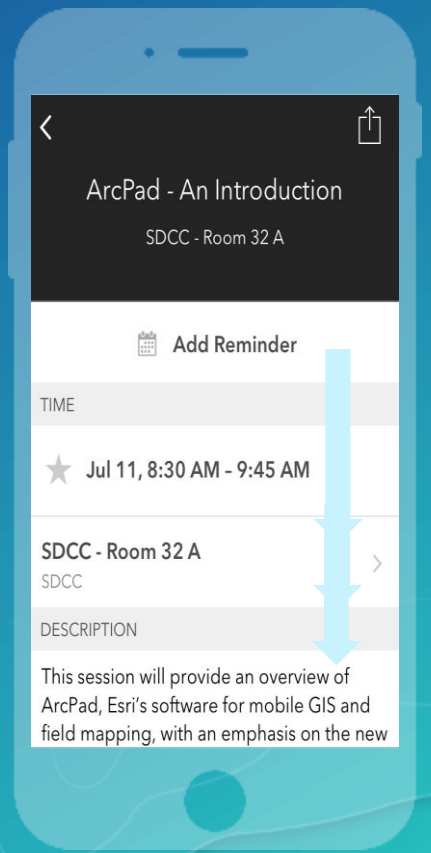
Please Take Our Survey on the **Esri Events App!**

Download the Esri Events app and find your event

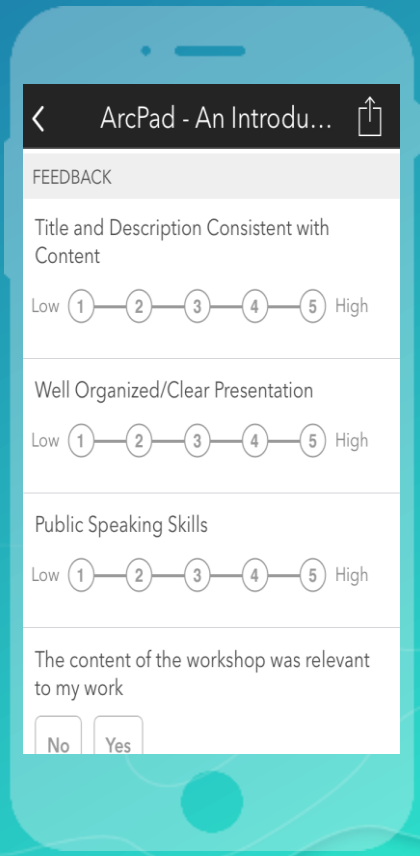
Select the session you attended



Scroll down to find the survey



Complete Answers and Select "Submit"



Q & A

Thank you

dpustam@esri.com
candrews@esri.com