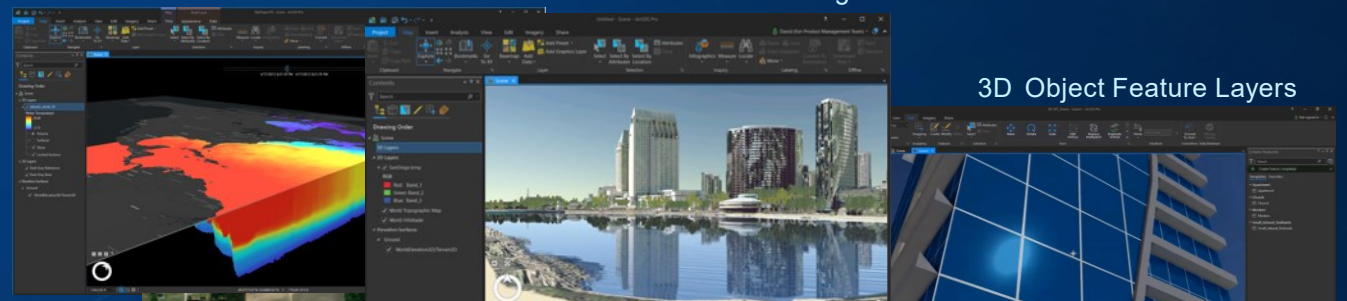
ArcGIS 2021 Products

. . . A Comprehensive and Integrated System

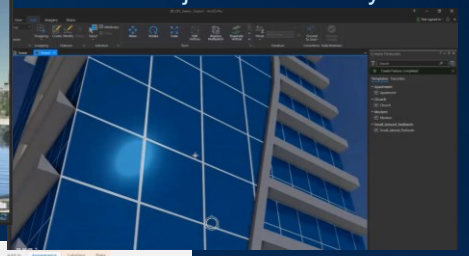
ArcGIS Pro Professional GIS

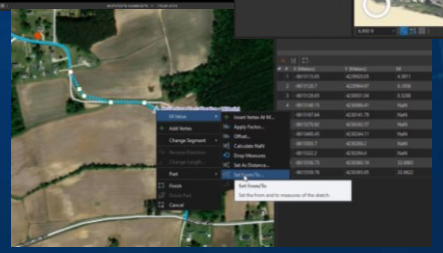
Realistic Rendering



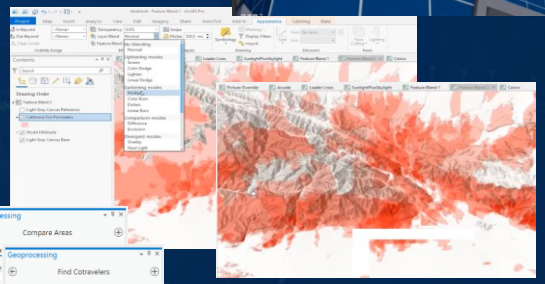
Voxels

3D Object Feature Layers

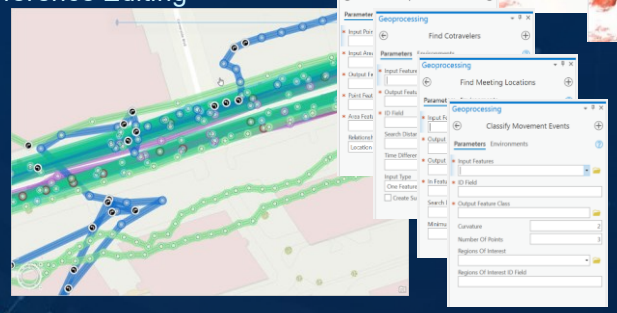




Linear Reference Editing



Layer and Feature Blending



Movement Analysis Tools

New & Improved

- Image Analysis
- Linear Reference Editing
- GNSS (GPS) Device Support
- Movement Analysis
- Layer Blending
- Mobile Geodatabases
- Voxel Layers
- ModelBuilder
- Non-Spatial Objects
- Cloud Based Databases

2021

Coming

- Data Engineering
- Floor Aware Mapping
- Machine Learning for Point Clouds
- Suitability Model Sharing
- IFC Support
- Aviation Charting
- Geoprocessing Leveraging Spatial Databases

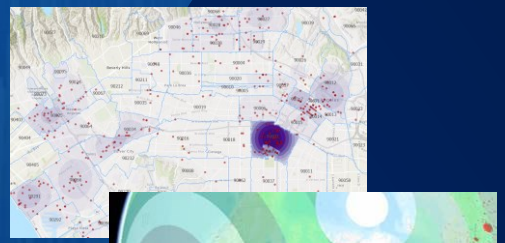
ArcGIS Pro & Extensions

Advanced Mapping, Visualization, Editing and Analysis

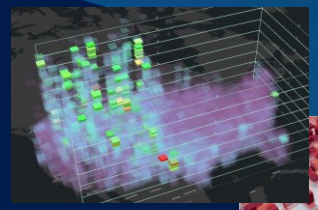
ArcGIS Pro Extensions Integrating Focused Capabilities

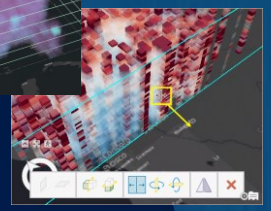
Analytics

Spatial Analyst



3D Analyst





Network Analyst

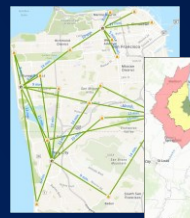
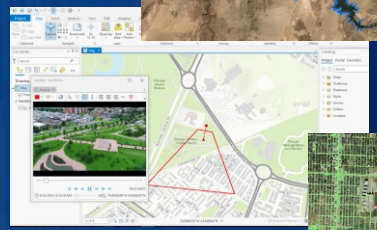
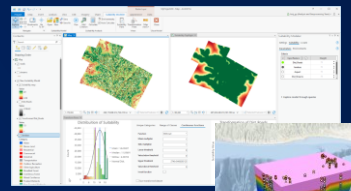
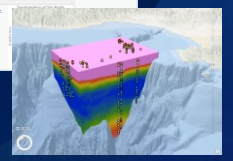


Image Analyst



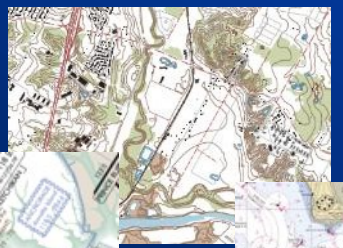
Geostatistical Analyst





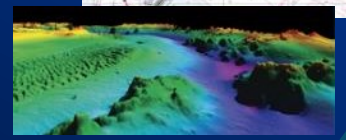
Production Mapping & Charting

Topographic



Aviation

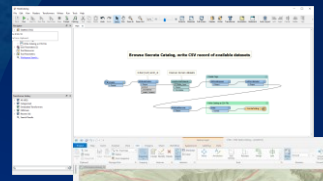
Maritime

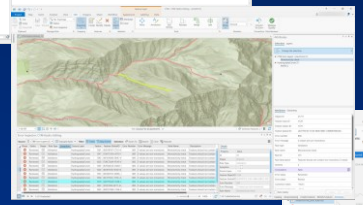


Bathymetry

Data Management

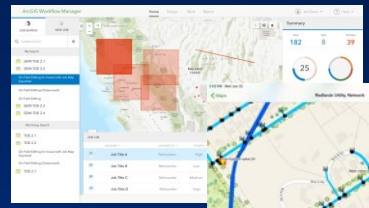
Data Interoperability

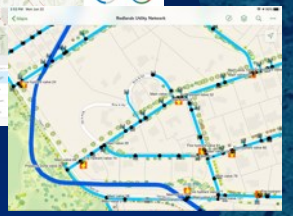




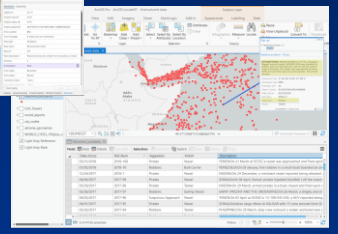
Data Reviewer

Workflow Manager





Publisher



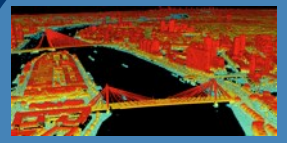
LocateXT

ArcGIS Pro

Donatas Bružas, Hnit-Baltic

3D GIS Visualization & Data Management

3D Information Model


Point Clouds / Lidar

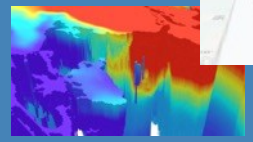
BIM

3D Objects

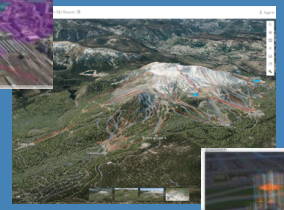
Scen
Layer

Mesh

Extrusion


Voxels

Smart Mapping



New & Improved

- Voxel Layers
- BIM
- Interactive Mesh Tools
- Rendering and Symbols
- Mobile and Offline Workflows
- Integration with Game Engines

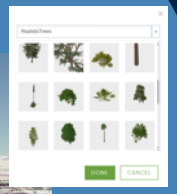
Advanced Visualization

AR & VR

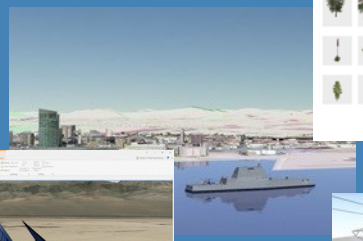
Game Engines

Symbology and Visual Effects

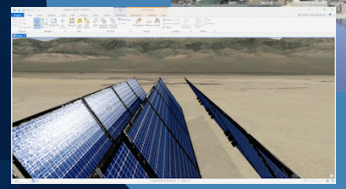
3D Symbols



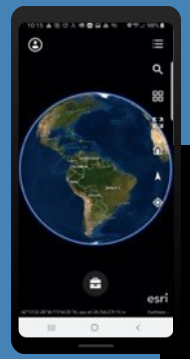
Realism

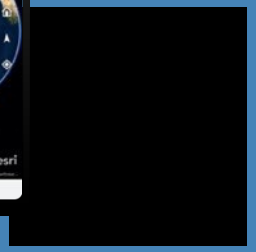


Power Lines



Global Visualization



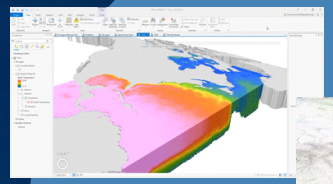


ArcGIS Earth

Available Across the Platform

3D GIS Analysis

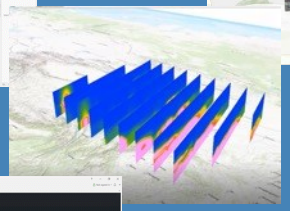
Volumetrics



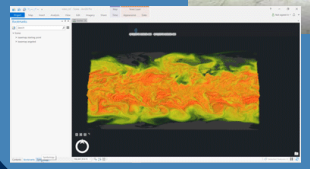
Time Enabled

Interactive Slice

Voxels

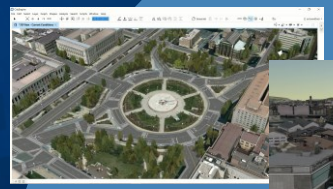


Voxel Layers API



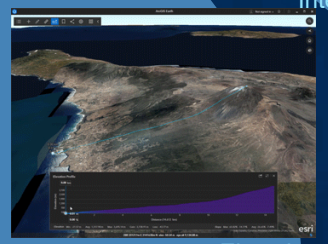
Interpolated Values

Analytics



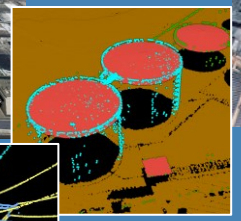
Viewshed

Flood Impact

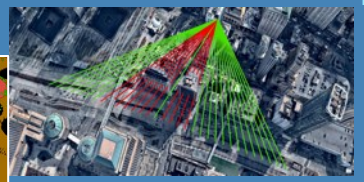


Elevation Profile

Measurement



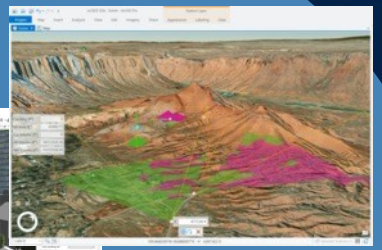
Feature Extraction



Interactive Line of Sight

Apps

Pro



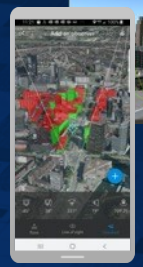
3D GIS

CityEngine

Procedural Modeling

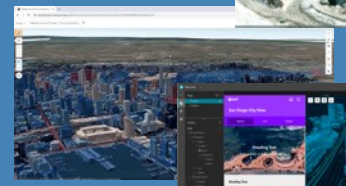
Earth

3D Visualization and Analytics



Mobile

Scene Viewer



Experience Builder

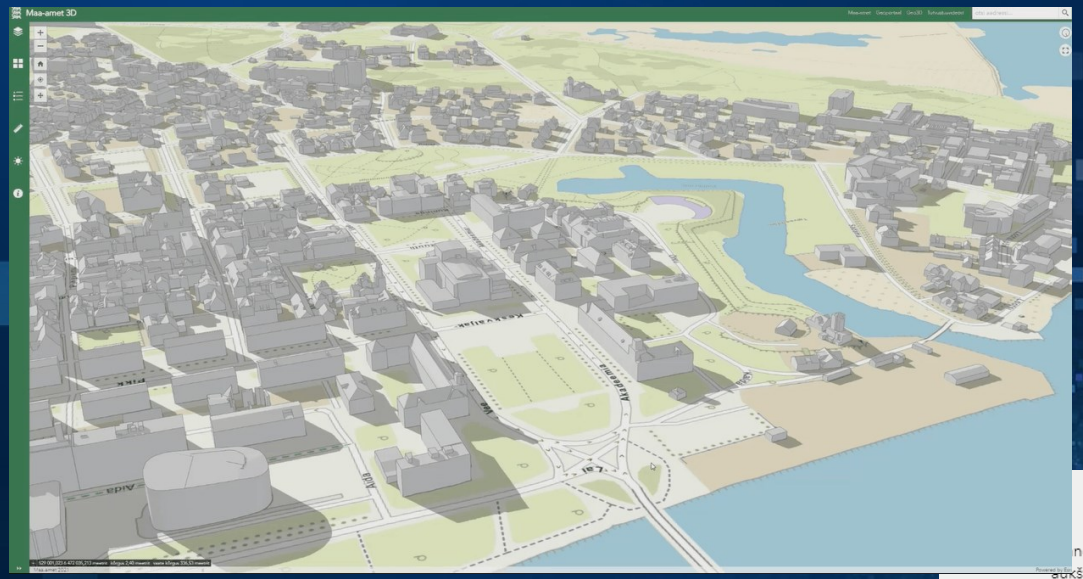
StoryMaps

StoryMaps

New & Improved

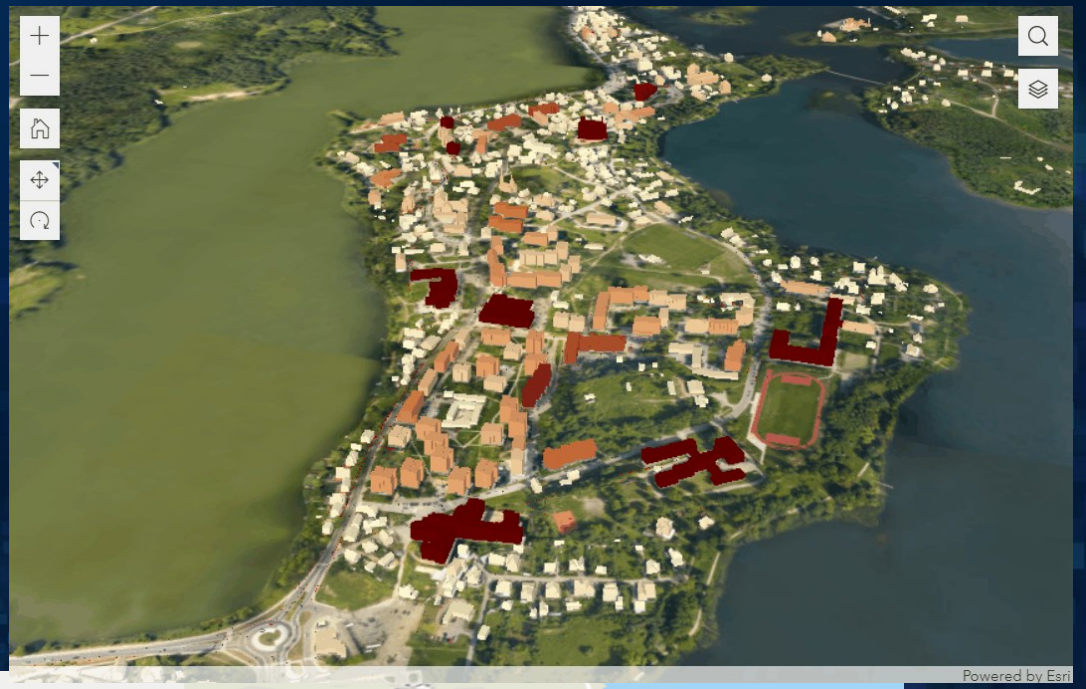
- Voxel Sections, Slices and Isosurfaces
- Machine Learning in 3D
- Mesh Processing
- Performance

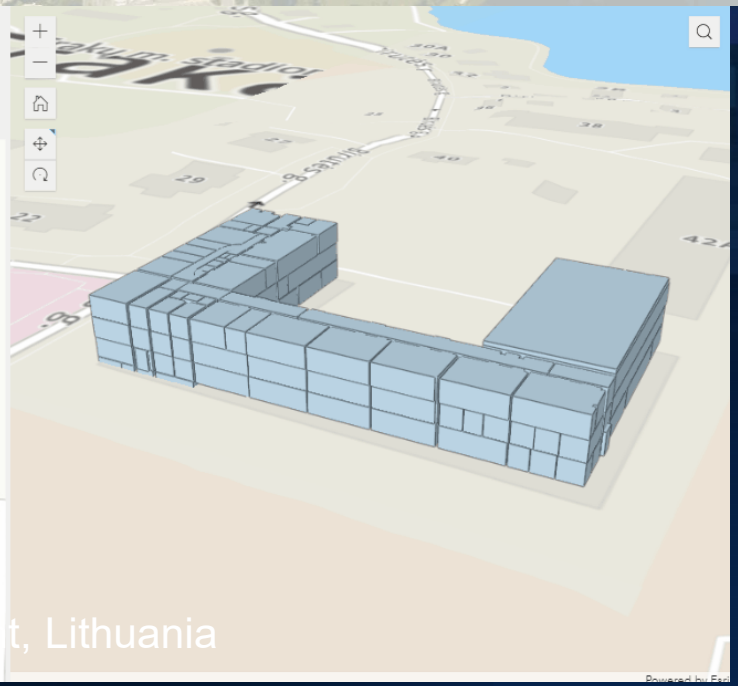
3D GIS Examples



Estonia 3D

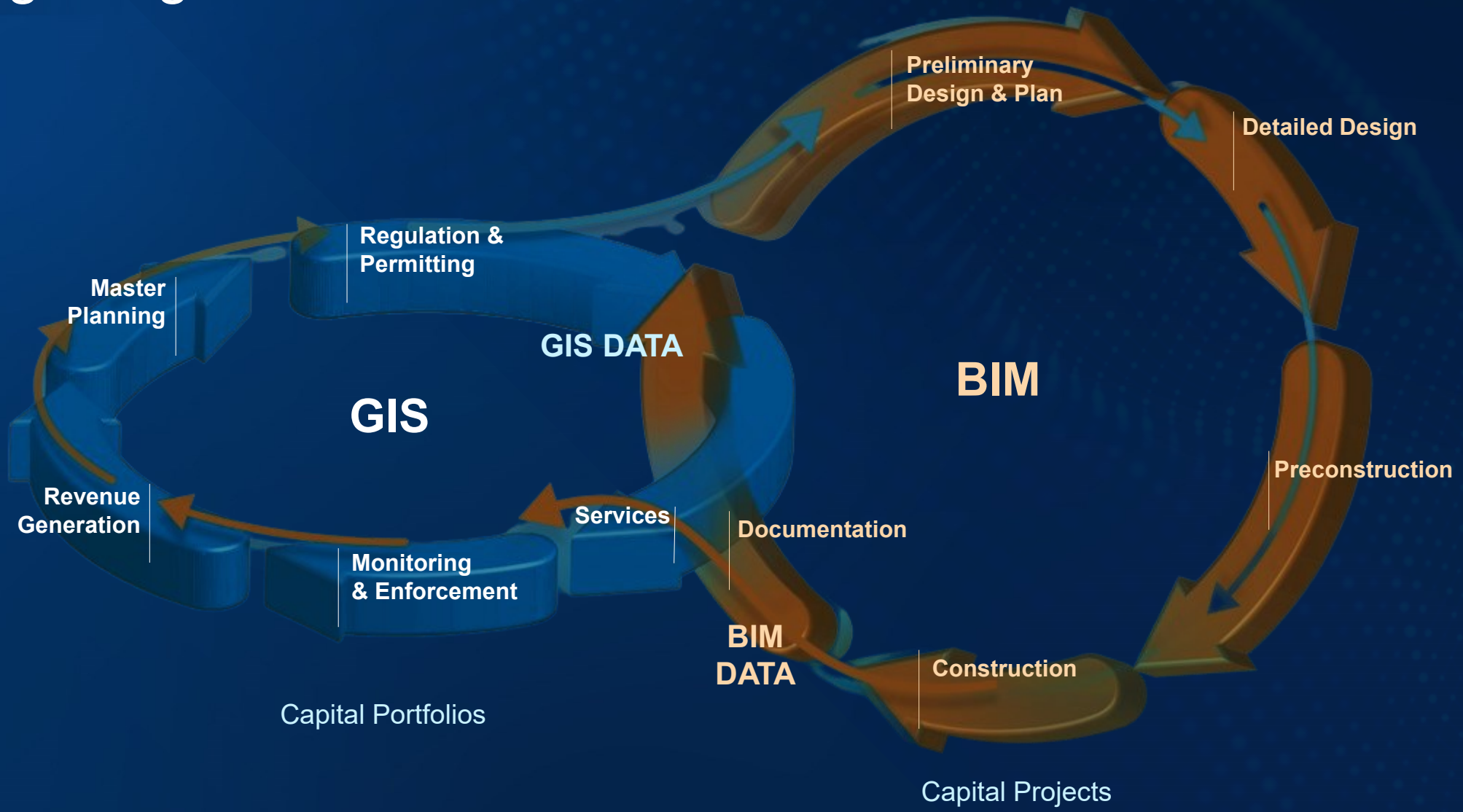
3D Cadaster experiment, Lithuania





3D Cadaster experiment, Lithuania

Integrating BIM and GIS Diving Business with Smarter Decisions



BIM & GIS

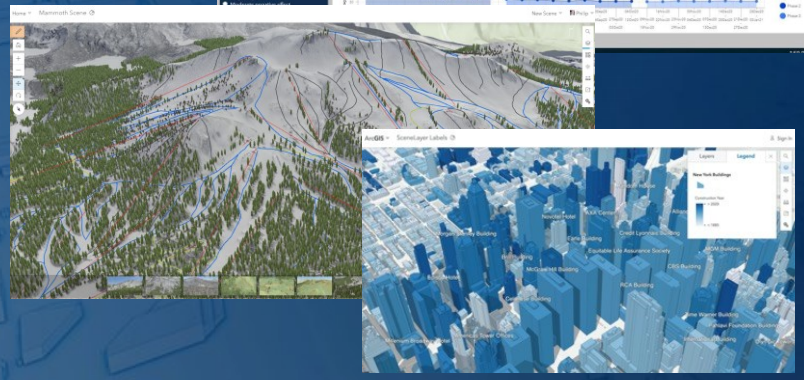
Leonas Jasevičius, Infoera

ArcGIS Online Mapping, Analysis and Location Intelligence

New Map Viewer

Public Information

2D / 3D



New & Improved

- Smart Mapping
- Administrative Reports
- Custom Symbology
- Enhanced Security
- Accessibility
- EU hosting

Just released

- Improved Collaboration
- Map Viewer Enhancements
- Improved Dashboards
- Maps to Instant Apps

ArcGIS Online
Apps & Extensions

Growing Rapidly

- 10+ Million Users
- 39 Million Items
- Trillions of Map Views
- +400% Usage

Extensions

- Hub
- Velocity
- Image (Hosted Imagery)

NEW

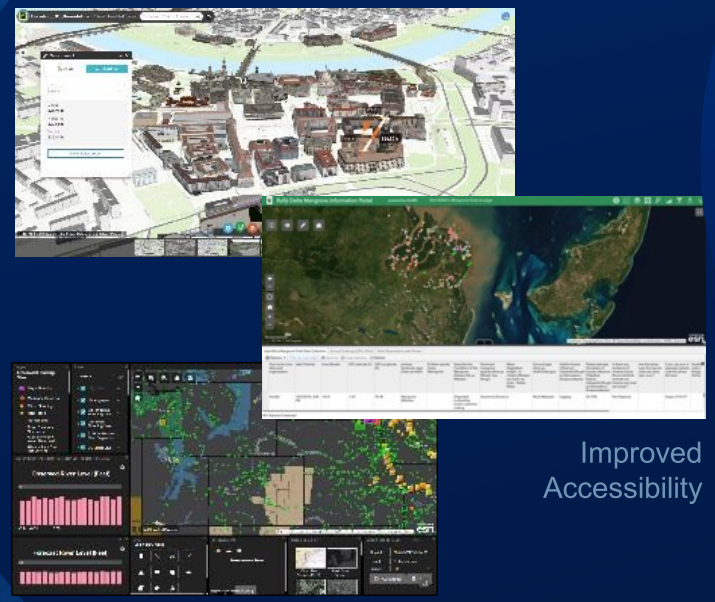
World's Largest Mapping and Data Sharing Ecosystem

ArcGIS App Builders

Enabling Everyone to Build Apps

No Code / Low Code

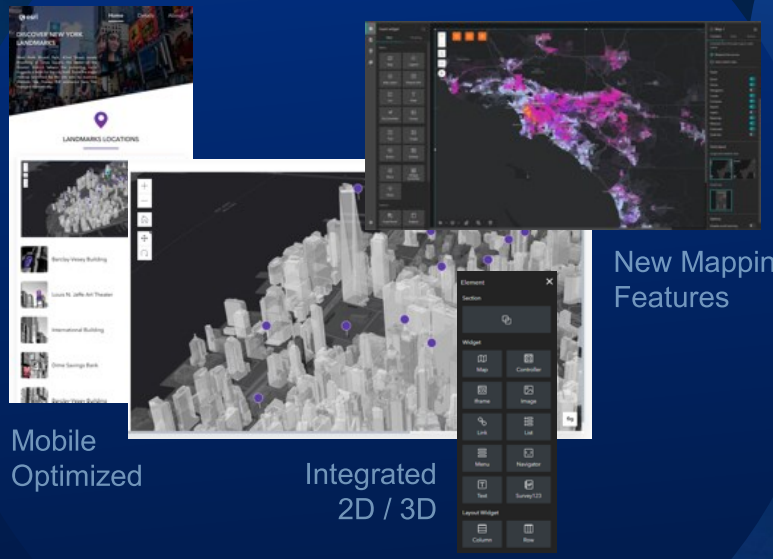
Web AppBuilder



Improved Accessibility

1,000,000+ Apps

Experience Builder



Mobile Optimized

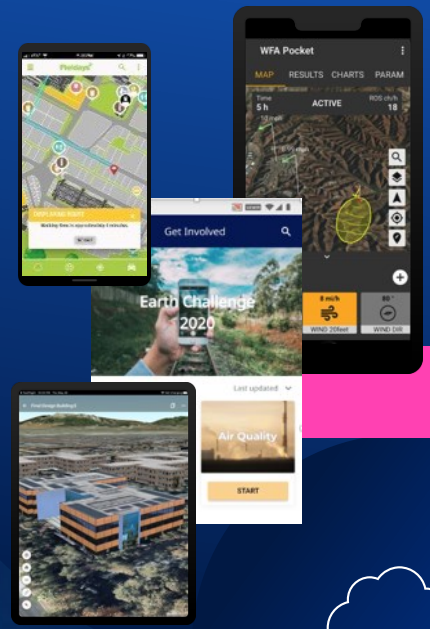
New Mapping Features

Integrated 2D / 3D

35,000+ Apps

Web
(JavaScript)

AppStudio



Cross-Platform Native Apps

Leverages ArcGIS Runtime Capabilities

Available to All Users

Easy Enterprise Deployment

Mobile

ArcGIS Online

Elza Žumbure, Envirotech

ArcGIS Solutions Industry-Specific Maps and Apps

FREE

Preconfigured

Tools

Data Models

Apps

Comprehensive Workflows

Maps

Add-Ins

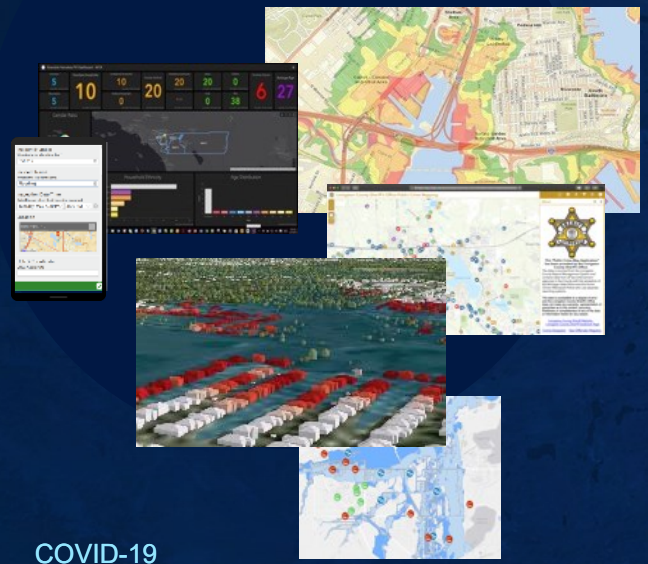
Initiatives

Dashboards

- Extensive (400+)
- Easy to Deploy
- Fully Supported

Local & State Government

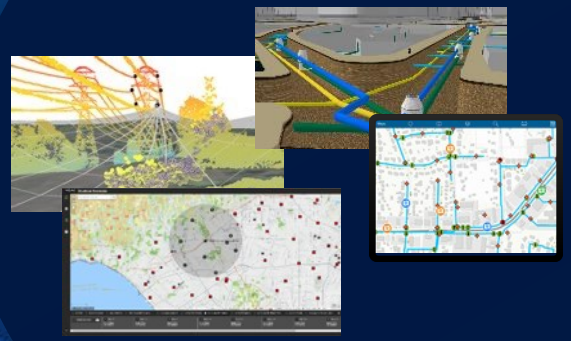
Emergency Management & Public Safety



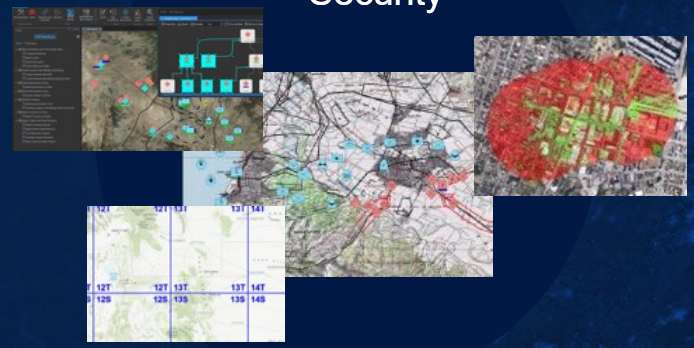
COVID-19

Business

Utilities & Telecom



Defense & Security



. . . Helping to Quickly Deliver Value

ArcGIS Solutions

Elza Žumbure, Envirotech

ArcGIS Hub System for Collaboration and Engagement

Empowers the Public with GIS Capabilities . . .

. . . Connects Organizations and Communities of Interest

Open Data

FREE

Multiple Formats
Open APIs
Maps and Charts
Templates

Initiatives

Website
Apps and Content
Engagement Tools
Crowdsourcing
Templates

Organize Communities

Teams
Events and Discussions
Participation / Feedback
Surveys

Citizen GIS

Community Users
Mapping & StoryMaps
Community Content
Analytics

ArcGIS Hub

ArcGIS Online

New & Improved

- Usability & Accessibility
- Team Management
- Survey123 Integration
- Template Builder

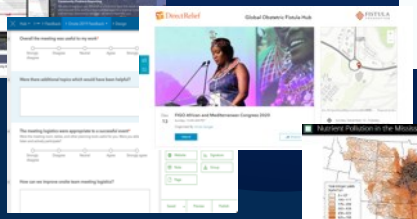
Community Management

Websites

Citizen GIS

Teams

Events



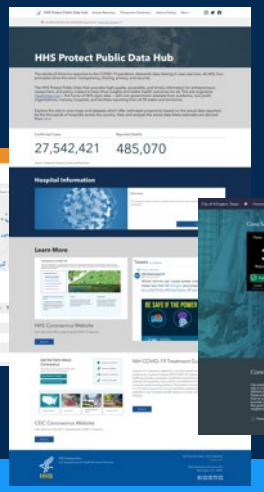
Surveys

Initiatives

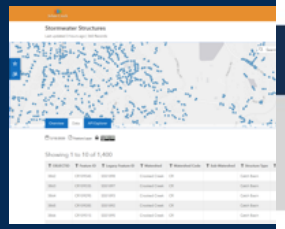
StoryMaps

Transparency

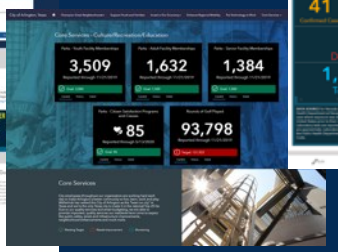
HHS



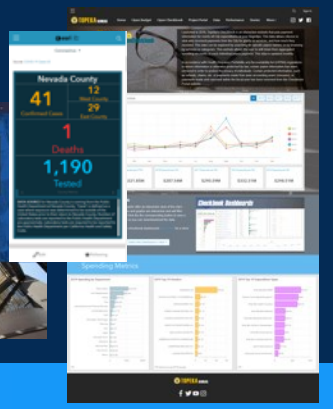
Open Data



Performance



Financial



Dramatically Improves Communication and Public Participation

Imagery and Raster GIS

In the Cloud

ArcGIS Image

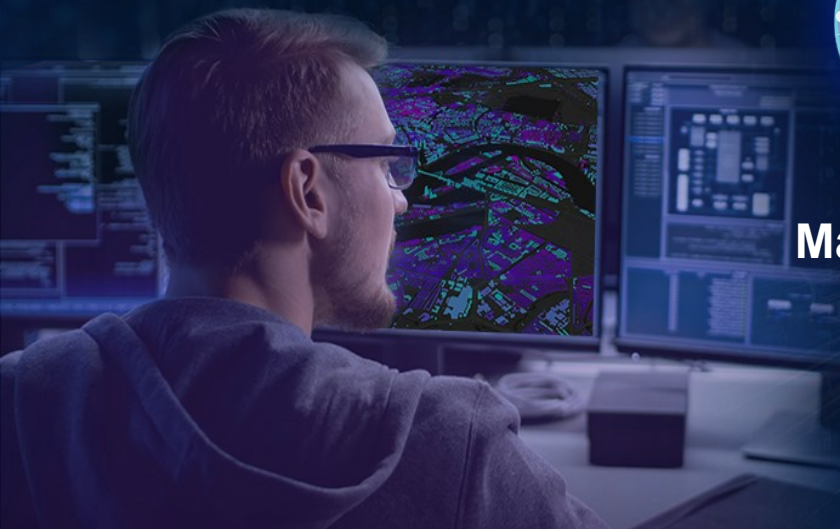
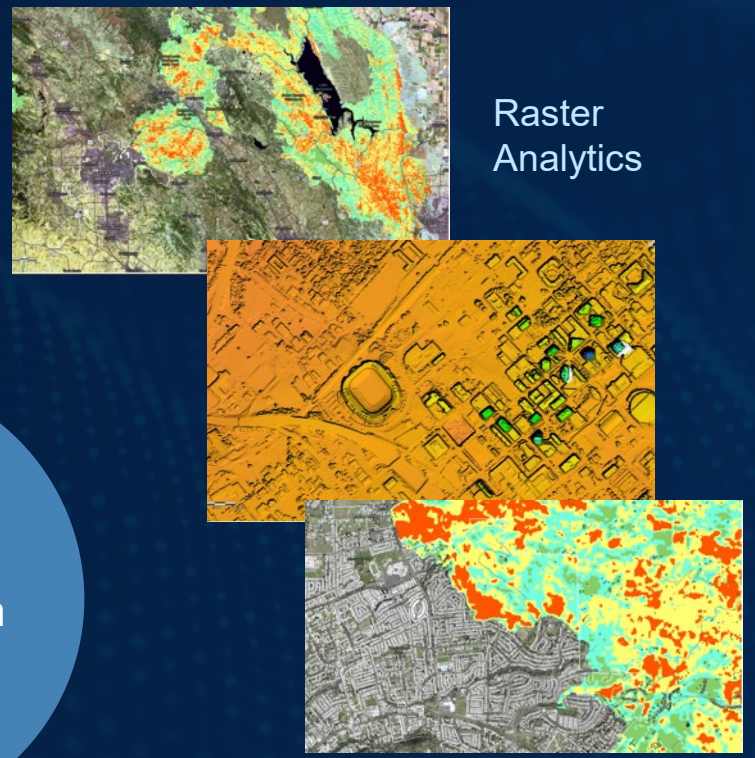


Image
Server
Capabilities



Raster
Analytics

User & Consumption-Based Business Model

ArcGIS Online Imagery

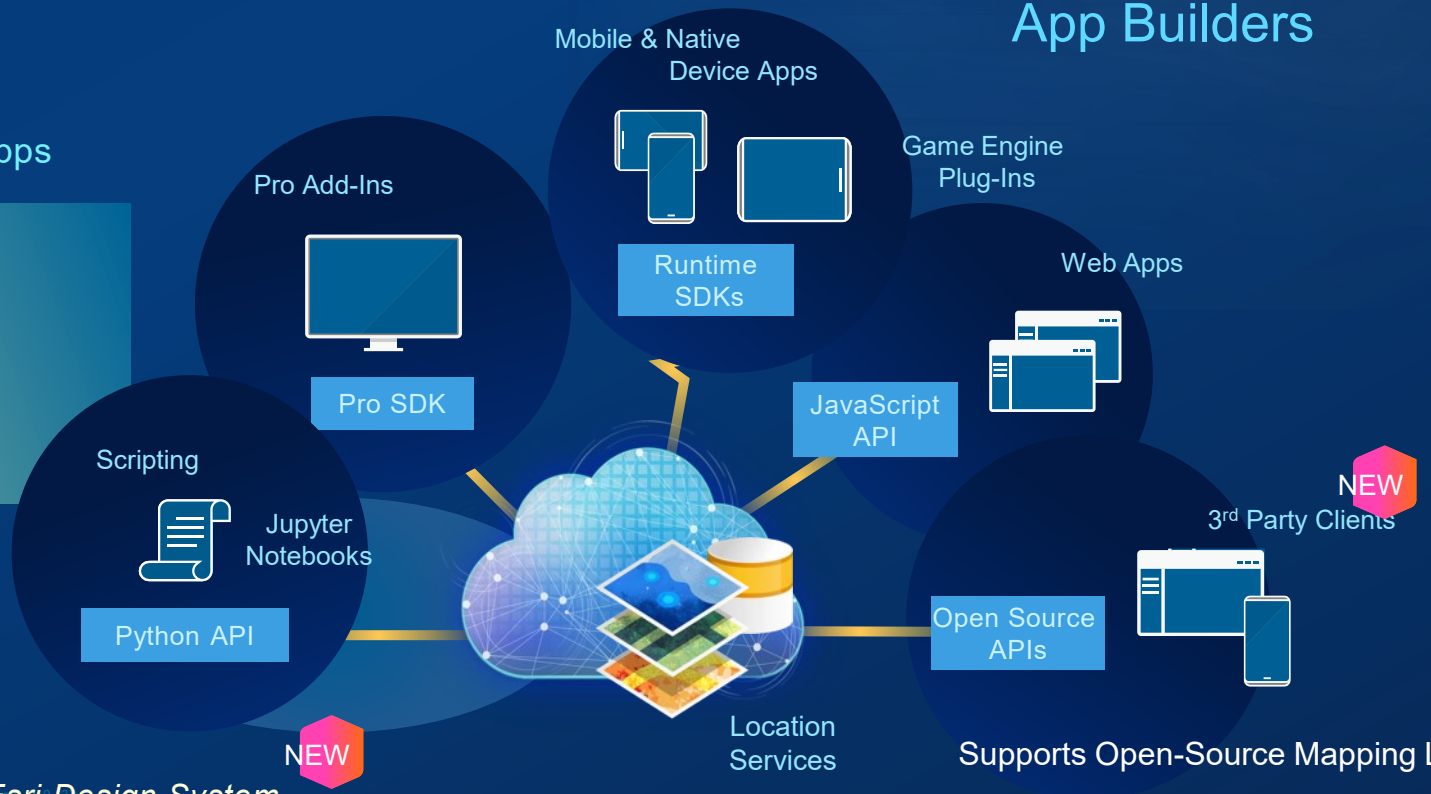
Tadas Bernotas, Hnit-Baltic

ArcGIS Developers

Provides Extensive Capabilities

APIs & SDKs for Extending the ArcGIS . . . and Creating New Apps

- High Performance
- Rich Data-Driven Visualization
- Sophisticated Analysis
- Developer Resources and Tools
- Affordable and Flexible



Bringing Powerful Spatial Tools and Location Services to All Developers

What we just showed

ArcGIS Pro

- New tools and techniques make creating better looking and more informative maps easier than ever
- Streamlined data editing workflows in both 2D and 3D

BIM & GIS

- The continued work of Esri and Autodesk provides new tools and capabilities for information exchange between BIM and GIS systems
- Information exchange is facilitated by ArcGIS integration with Autodesk InfraWorks, Civil 3D and BIM 360 Cloud

3D

- Enhanced 3D data integration, visualization and analysis capabilities
- Large 3D projects in the Baltic states: Estonia, Lithuania

ArcGIS OnIne

- Complete, SaaS solution that complements the capabilities of ArcGIS Pro
- ArcGIS Dashboards are out of beta - take advantage of new capabilities and performance improvements
- Application builders (Experience Builder, Instant Apps, etc,) - transform your data into compelling web apps without writing a single line of code

ArcGIS Image

- - Manage, visualize, and analyze imagery collections in the cloud
- - Save on infrastructure costs and maintenance

Tomorrow

ArcGIS Enterprise and Real Time

ArcGIS Imagery and deep learning

esri
THE
SCIENCE
OF
WHERE