

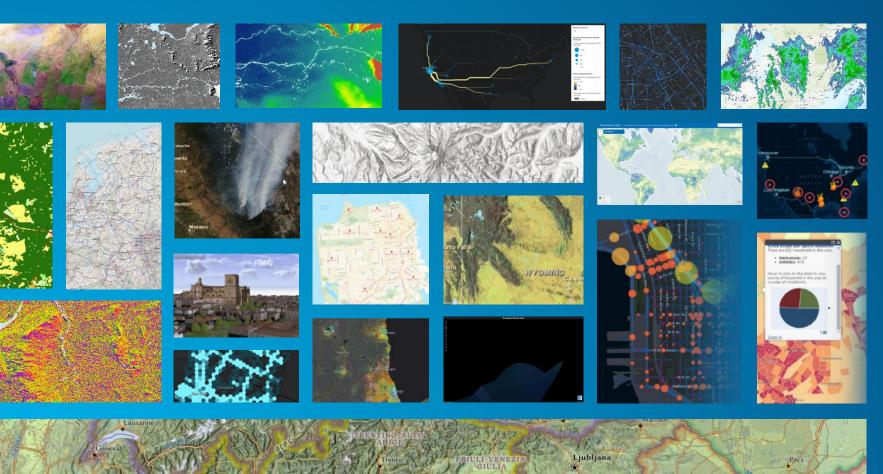


ArcGIS Includes Content

A Living Atlas of the World

Over 7,000 Ready-to-Use

Maps and Datasets



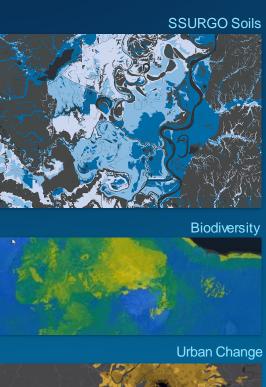
Transportation
Environment Station
Laboration
Environment Station
Environment Station
Laboration
Laboration
Environment Station
Laboration
Laborati Basemaps Boundaries v Land Cover O Utilities Historical Historical Servical Hazards Hydro Demographics

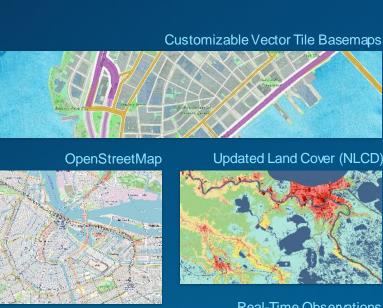
. . . And Millions of Maps, Layers and Datasets Shared by Users

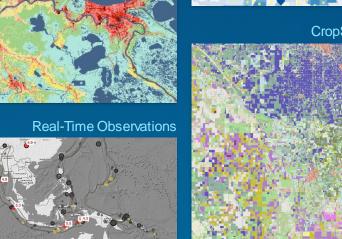
ArcGIS Content Is Continuously Improving

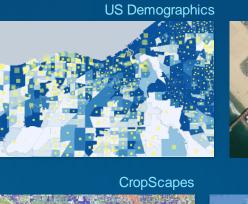
Many New and Updated Services

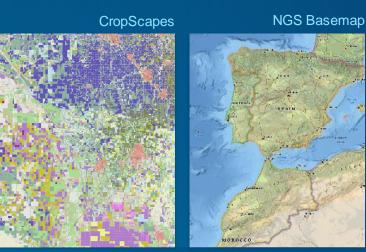
Protected Areas (PADUS)







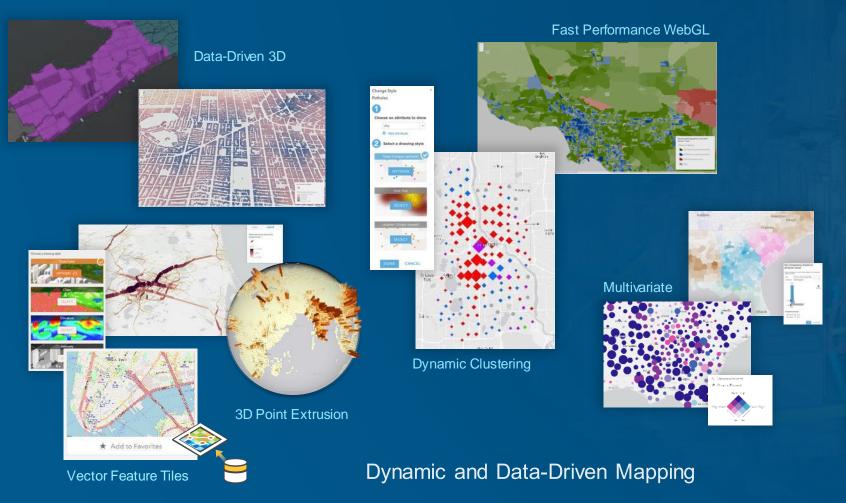




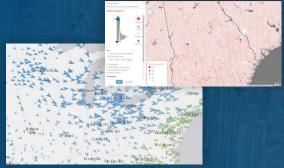


Updated Imagery

Smart Mapping Enabling Everyone to Make Amazing Maps



Exploratory Mapping



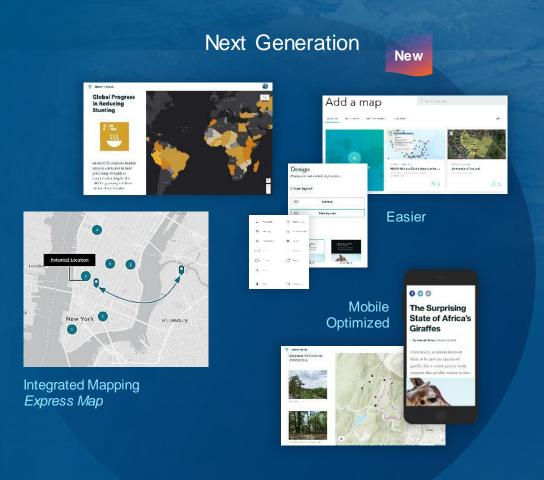
Directional Mapping

Predominance Mapping



StoryMaps A Whole New Way to Tell Stories

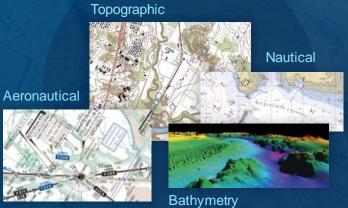




Mapping and Cartography Improved Tools and Technology

Symbology, Annotation & Processing Powerful Arcade Reference Grids **Expressions** Symbol Layer Masking Rowner **Dimensions** Customizable Clip to Shape **Vector Tiles** (Style Editor) Generalization Symbol Effects **Dynamic Binning Shoal Biased Contouring Equal Earth Projection**

Production Mapping & Charting



Maps for Adobe Creative Cloud



Field Operations Location-Enabling All Aspects of Field Work

New Capabilities

- Tracking
- Offline Workflows
- Preplanned Routes



Navigation



Navigator



Survey 123

Planning and Management





Maps & Mark Up



Tracker for ArcGIS – What is Location Tracking?



Tracker Mobile app (iOS, Android)

- Simple, schedule-driven tracking experience
- Supports offline use
- Optimized for low battery consumption
- Requires an add-on license*

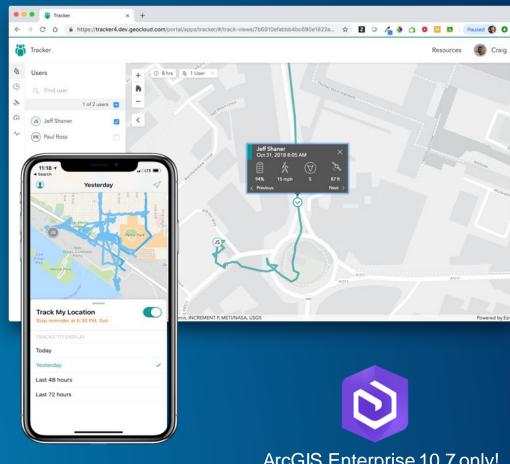
Track Viewer Web app

Release Plan!

- Display and manage users and their location history
- See only the users that you have access to (Feature Service views, OBAC)

New Organizational Capability

- Enable location tracking in their organization
- Single service for storing and managing location tracks
- Requires the spatiotemporal big data store

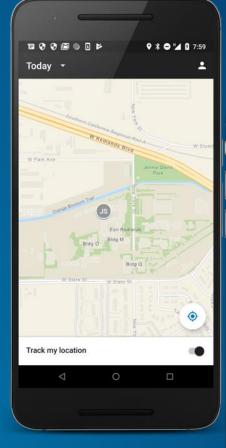


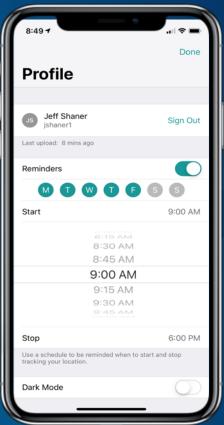
ArcGIS Enterprise 10.7 only!

Tracker Mobile App

S

- Mobile user in control
 - Turns on/off tracking
 - Set reminders/schedule to start or stop tracking
- Collect Tracks
 - Tracks are collected using movement with mobile Core Motion and Fitness APIs
- Tracks are uploaded every
 - 10 mins (60 secs if device is being charged and battery is > 20%)
- LKL (Last known location) are uploaded every
 - 60 seconds but configurable to 30 seconds
- Supports offline use
 - Tracks stored locally if connectivity is lost
- Licensing
 - Premium app that works with Viewer+ user type
 - Included with Field Worker user type









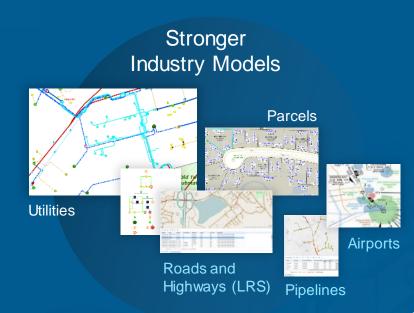
Editing and Data Management Advancing Tools, Workflows and Data Models

Improved Editing Tools **Rubber Sheeting** Workflow Management Contingent QA / QC Tools Values Attribute Rules Offline Workflows

3D Editing

Pre-Planned Offline

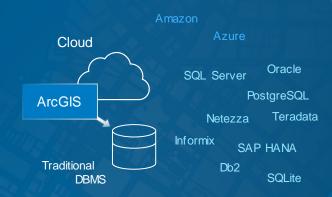
Map Areas



AutoCAD AutoCAD Infraworks Civil 3D

Comprehensive Data Management

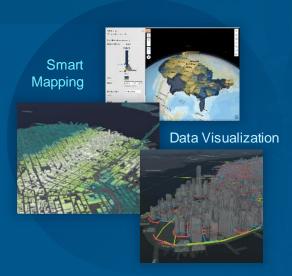




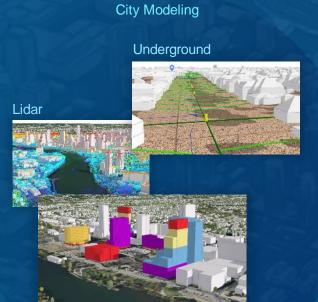
3D Visualization

New and Improved

- 3D Smart Mapping
- Mobile
- Point Clouds
- BIM Support
- Symbology



Symbology 3D Symbols Effects Power Lines











Extrusion

Mobile

3D Analysis

Volumetrics

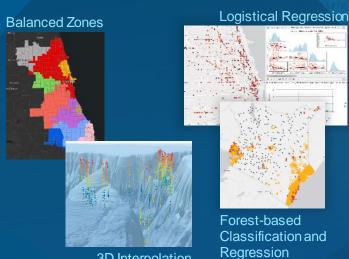


Spatial Analysis and Data Science

Many Improvements

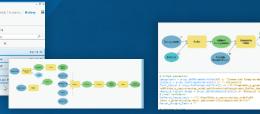
- Functionality
- Scalability
- Accessibility

Spatial Statistics



3D Interpolation

Improved Processing



Hosted Python Notebooks

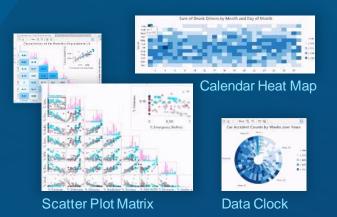
目

Tool History to Models Models to Python



Deep Learning

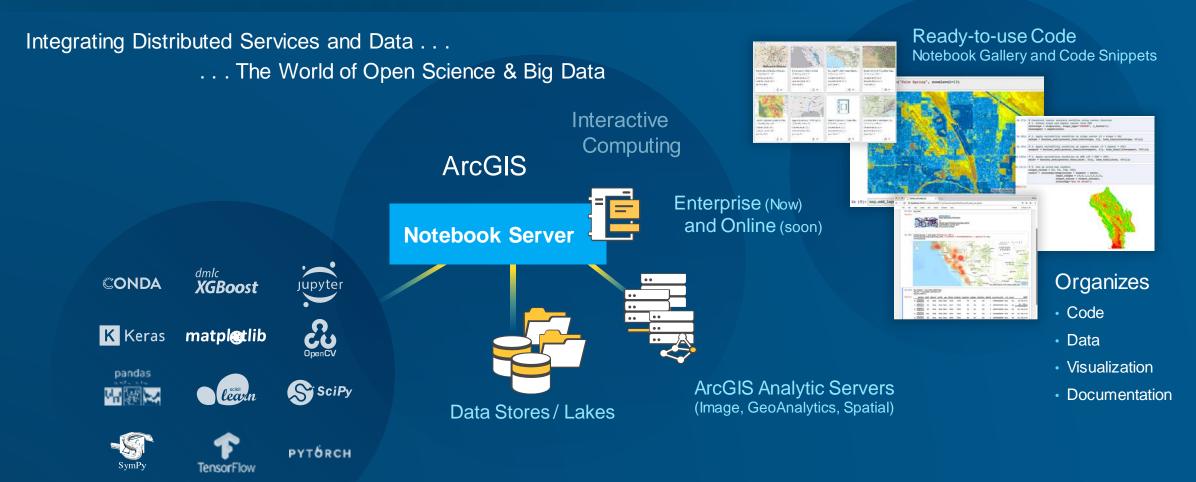
Charting



Raster Functions



Hosted Python Notebooks For Integration, Modeling and Automation



Open Science Libraries

Providing Notebooks as Items and ArcPy Geoprocessing as a Service

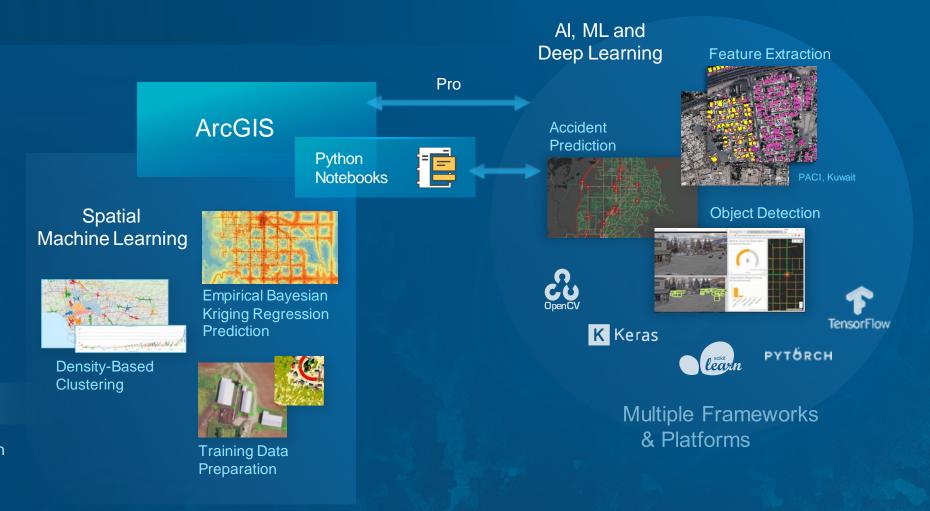
AI, ML and Deep Learning Integrating Open Science

New and Improved

- Clustering
- Prediction
 - Classification
 - Regression
 - Interpolation
- Object Identification

Coming

- Feature Extraction
- Site Selection
- Event Prediction



Imagery A Comprehensive System for Imagery and Remote Sensing

Deep Learning Tools Segmentation Raster Processing **Functions** New Image Image Cube Support Management **Training** Deep Learning Tools Object Detection **Pixel Classification** Visualization & **Exploitation** Map Production Analyst Image Server (Multi-Spectral) Ortho Mapping Oriented Imagery Dimensional Pixel Editing **Full Motion Image Mosaics** Image Cube **Imagery** Video Dynamic Pre-Processed Stereo Feature Rich Content Drone2Map Capture All Types & Formats

DTM Generation

Analysis

Structured Observations

Imagery Exploitation Web-Based Structured Observation Management

Observation

Excalibur

Search & Discover **Exploitation**

Ortho & Oblique Viewing Feature ID Measurement

Analytics On-the-Fly Processing Search and Discover

Activity-Based Analysis



Project Tasking & Management



Exploitation



GIS View

Image Space

Delivering Next Generation Imagery Workflows

Real-Time Analytics Integrating Sensor Networks and IoT

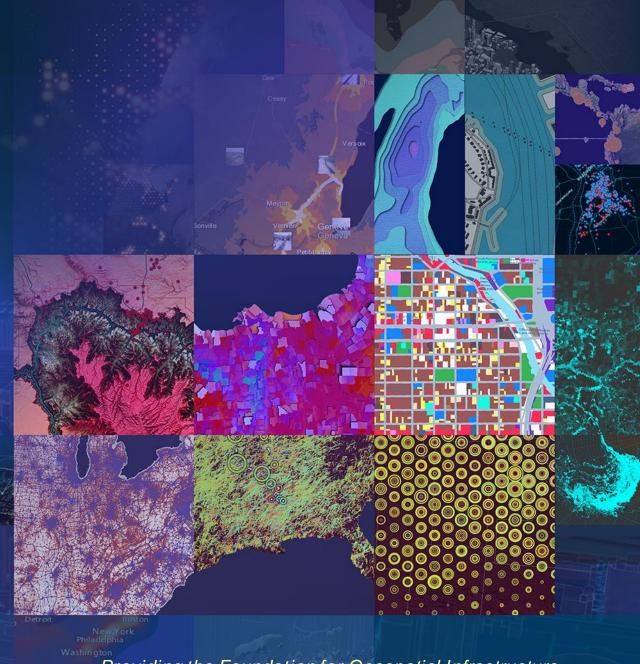
Supporting High-Velocity Data Streams Analytics Situational Tracking, Monitoring and Alerting Alerting **Awareness Improved** Performance Scalability Sensors Resiliency Cloud Connectors Vehicles Actuation Assets GeoAnalytics Server Real-Time GeoEvent **Environment** Data Server



ArcGIS Products

Solutions





Providing the Foundation for Geospatial Infrastructure

ArcGIS Online Complete Mapping and Location Platform



2D/3D

World's Largest Mapping and Data-Sharing Ecosystem

New and Improved

- User Types
- Search
- Large Organization Administration
- Configurable Basemaps (Vector Feature Tiles)
- Smart Mapping Styles
- 3D
- New StoryMaps

Coming

- New Map Viewer
- Bulk User & Item Management
- Org-to-Org Collaboration
- Tracking
- Notebooks
- Hosted Imagery
- loT Integration

• 7+ Million Users

• Billions of Maps

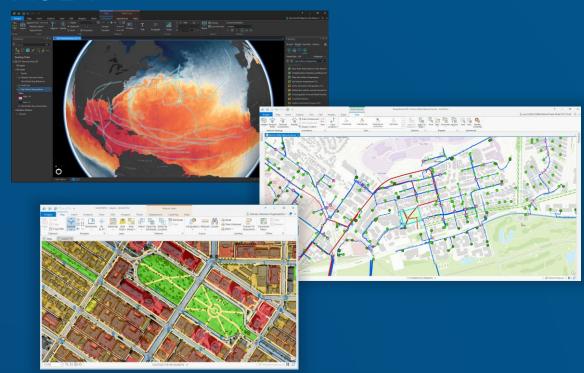
• 25 Million Items

• 150k Open Datasets



ArcGIS Pro Professional GIS

Pro 2.4



Advanced Mapping, Visualization, Editing and Analysis

Improvements

- Utility Management
- Faster Startup
- Editing Tools
- Catalog Preview
- Definition Expressions
- Contingent Attributes

New

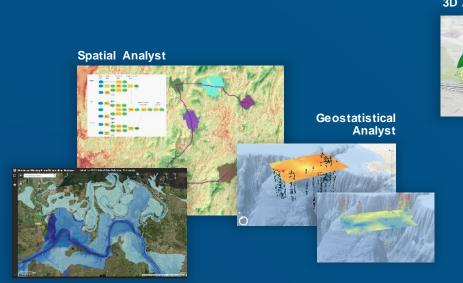
- Reports
- Dimensions
- Spell Check
- Publish to Server
- Deep Learning
- Parcel Management

Coming

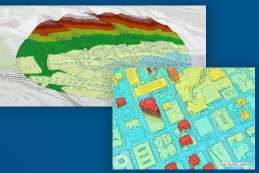
- Offset Printing
- More Parallel Processing
- Voxel Support



ArcGIS Pro Extensions Integrating Focused Capabilities







Network Analyst



Data Reviewer



Image Analyst





Data Interoperability

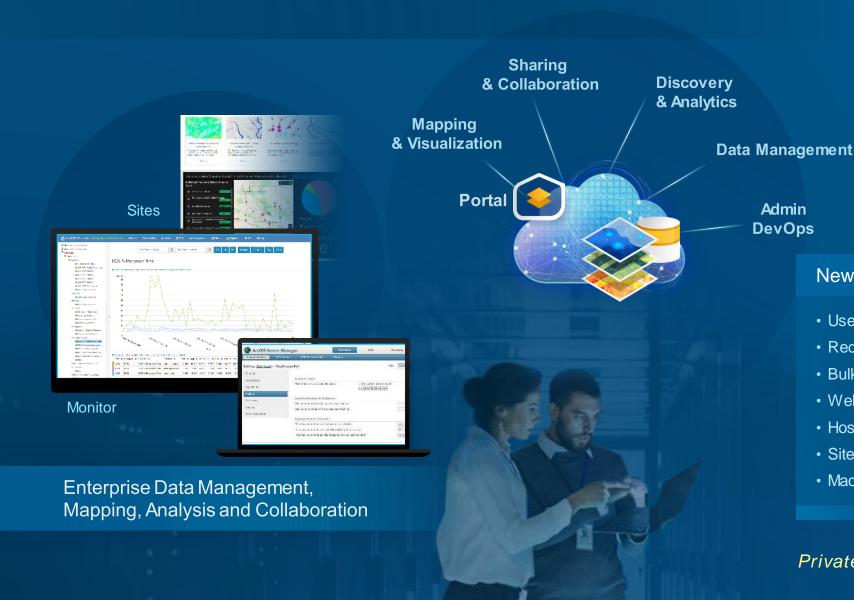


LocateXT New Pro Extension

- Extract from unstructured data
 - Coordinates
 - Dates
 - Attributes
 - Locations
 - Geoprocessing tools

CATALOG OF THE ISOPOD CRUSTACEA TYPE COLLECTION OF THE NATURAL HISTORY MUSEUM OF LOS ANGELES COUNTY ORDER Isopoda Latreille, 1817 SUBORDER Anthuridea Leach, 1814 FAMILY Anthuridae Leach, 1814 Apanthura californiensis Schultz, 1964 Pacific Science, 18(3):312, fig. 4. LACM 55-35.1 (AHF Type No. 5512), female, 11 Reference: HOLOTYPE: Locality: USA, California, Los Angeles County, 18.3 km, 203* T from Santa Monica Pier Light; black mud, 73 m, Havward grab. 33°51.37'N, 118°34.7'W. Lat./Long.: R/V <u>Velero IV</u> Sta. No. 2998-55. 06 Feb 1955. Collector: Bathura luna Schultz, 1966 Allan Hancock Pacific Expeditions, 27(4):12, pl. Reference: HOLOTYPE: LACM 60-80.1 (AHF Type No. 6047), female with marsupium, 21 mm. PARATYPES: Locality: LACM 60-80.4, 9 specimens. USA, California, Channel Islands, Tanner Canyon, San Clemente Island, 53.5 km, 236° T from China Point Light; green mud, 1320 m, Campbell grab. Lat./Long.: 32*32.3'N, 118*54.03'W. R/V <u>Velero IV</u> Sta. No. 6832-60. 29 Jan 1960. Collector: PARATYPE: Locality: USA, California, San Diego County, Coron Canyon, 8.6 km, 322.5° T from North Coro Island; green mud, 794 m, Campbell grab. Lat./Long.: 32°30.70'N, 117°21.62'W. Collector: R/V Velero IV Sta. No. 6851-60. 01 Feb PARATYPE: LACM 60-87.1. Locality: USA, California, San Diego County, La Jo Canyon, 20.0 km, 286.5° T from Point La green sandy mud, 775 m, Campbell grab. Lat./Long.: 32°54.35'N, 117°29.55'W. R/V Velero IV Sta. No. 7047-60. 07 May Collector: Cyathura guaroensis Brusca and Iverson, 1985 Reference: Revista de Biología Tropical, 33(Supl. fig. 19. LACM 80-61.1 (AHF Type No. 8012). LACM 80-61.2, 5 specimens. Costa Rica, Pacific coast, Guanacaste,

ArcGIS Enterprise Comprehensive GIS for Your Organization



New and Improved

- User Types
- Reduced Memory (95%)
- Bulk Publishing
- Webhooks
- Hosted Python Notebooks
- Sites
- Machine Learning & Al

Coming

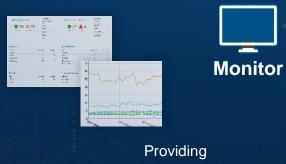
- Containerization
- Microservices
- Large Organization Management
- Intelligent Search

Runs in Commercial Clouds, Private Clouds and in Your Own Infrastructure

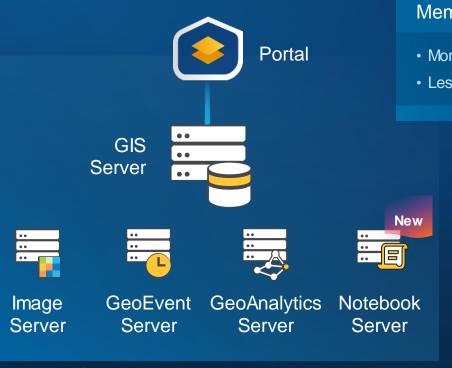
ArcGIS Enterprise Architecture

Modular and Massively Scalable

- Specialized Servers
- Independently Scalable
- Flexible Deployment



- Alerts & Warnings
- · Root Cause Analysis
- Performance Reporting



10.7.1 Dramatically Reduces Memory Requirements

- More Services
- Less Memory



Easy to Setup and Administer

ArcGIS User Types Provides Flexible Licensing

GIS Professional Delivering Powerful Capabilities Across Your Organization Creator **Field Worker Editor** Viewer Insights **Analyst** Viewing **Authoring, Mapping & Analysis Editing**

Insights for ArcGIS Opening Location Analytics to Everyone



New and Improved

Link Charts

- Link Analysis
- Presentations & Reports
- Public Sharing
- Python & R Integration

Analytics

Spatiotemporal Statistics Predictions Link Analysis

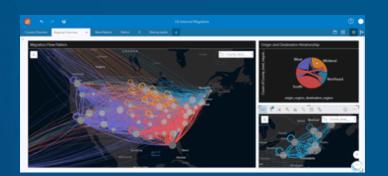
Charting

Bar, Column, Pie, Scatter, Box, Data Clock, Heat . . .



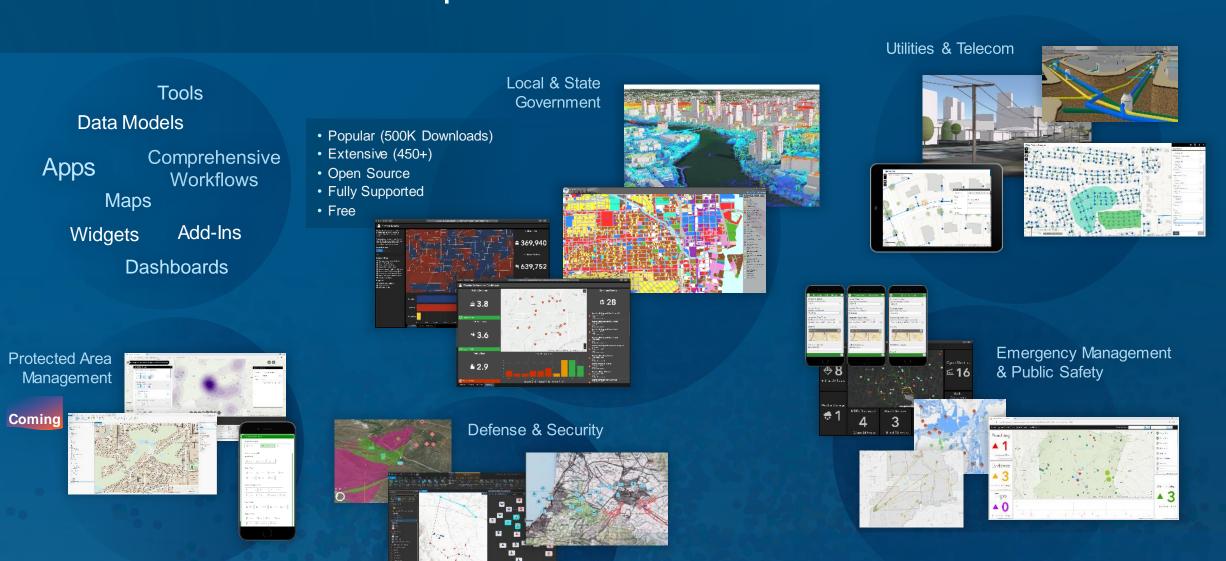
Mapping

Thematic



Providing Powerful Data Visualization and Analytics . . .

ArcGIS Solution Templates Ready-to-Use Industry Configurations



Helping Users Realize Value Quickly . . .

ArcGIS App Builders Enabling Everyone to Build Apps



No Programming Required



700,000+ Web Apps Created and Deployed

Esri Geo-Enabled Systems Directly Supporting Focused Workflows

Indoors
Indoor Mapping



Hub Engagement



Business Analyst Business Intelligence Urban Urban Urban Planning

Esri Geospatial Cloud

Mission
Awareness and
Collaboration
(Coming)

INCOORS An Enterprise Mapping System for Operations and Mobility

GIS for Asset, Space and Building Management In a Single System

Operations

Wayfinding

Employee Routing

Indoor Positioning Public Kiosk Tracking Safety & Security
Emergency Management
Problem Reporting
Asset Management

Portfolio Management

Buildings Infrastructure

Data Management

System of Record CAD / BIM Floor Plan Integration

Stakeholders

- Business Owners
- Operators
- Employees
- Visitors



Floor Plans





Location Sharing

Indoor Positioning



Workplace Analytics

UD System for Enabling Community Engagement

Connecting Organizations & Communities of Interest

Initiatives

Website Apps & Content **Engagement Tools** Crowdsourcing

FREE Open Data

Multiple Formats Open APIs Maps & Charts



Organize Communities

Identities and Groups **Sharing Data Events and Discussions** Participation / Feedback

Stakeholders

- Governments
- Communities
- Universities
- NGOs
- Citizens
- Staff

Open Data

Team Five-Hundred Trees in 20 Management Q Search Users → 4 ½ H Surveys

Event Calendars



Initiatives

Performance







Track and Evaluate Projects

Urban System for Planning and Managing Urban Development



Mission System for Geospatial Collaboration and Awareness

Supporting Operations and Management . . . End-to-End

Mission Planning

Define Area Assign People Provision Data

Tactical Situational Awareness

Peer-to-Peer Communication Location Tracking Chat & Messaging

Mission Management

Monitor Activities Engage Team

Stakeholders

- Emergency Responders
- Security Operations
- Law Enforcement
- Humanitarian Aid

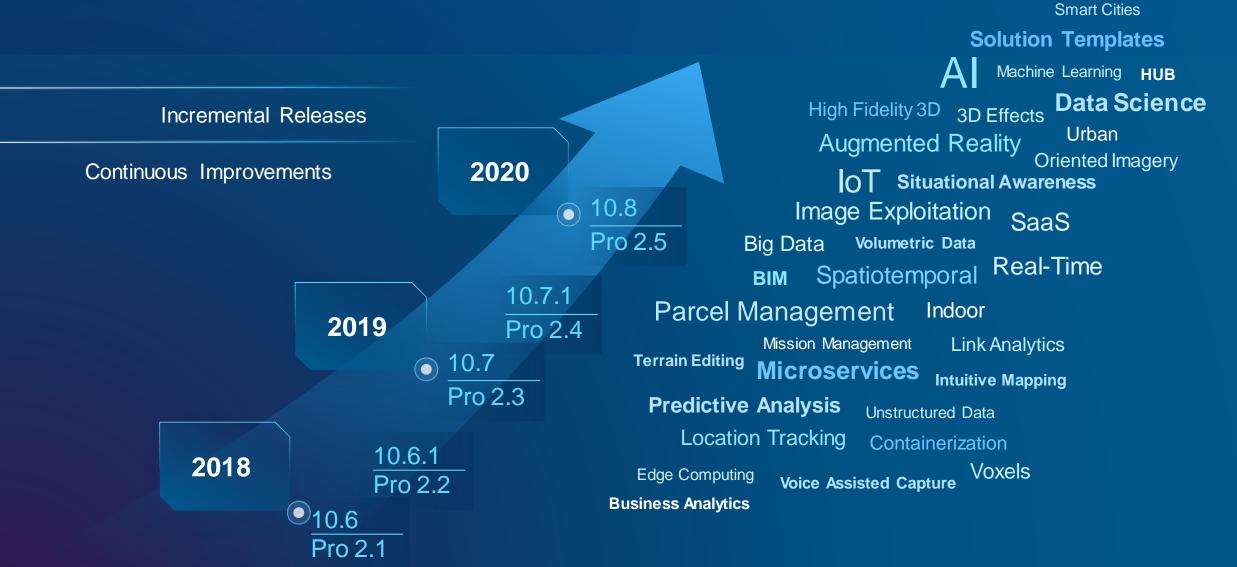


Mission Manager Web App

Mobile Responder App

III pasiban

What's Next



. . Continued Focus on Quality, Performance and Innovation

