European SCGIS Conference, May 21-23, 2012, Sofia, Bulgaria

New Horizons for GIS Users with Esri GIS Technology

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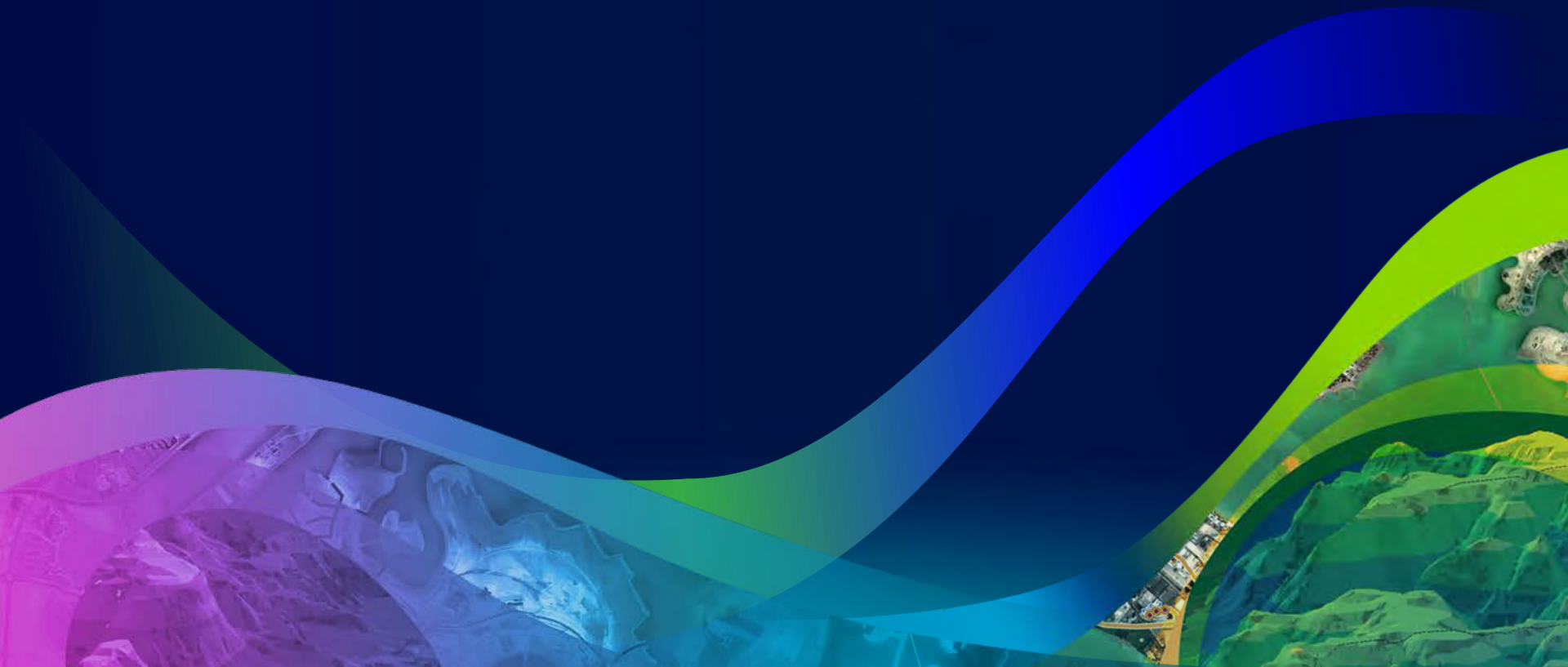
Vision

GIS – understanding our world



GIS Is Changing Rapidly

Coevolving with Other Enabling Technologies

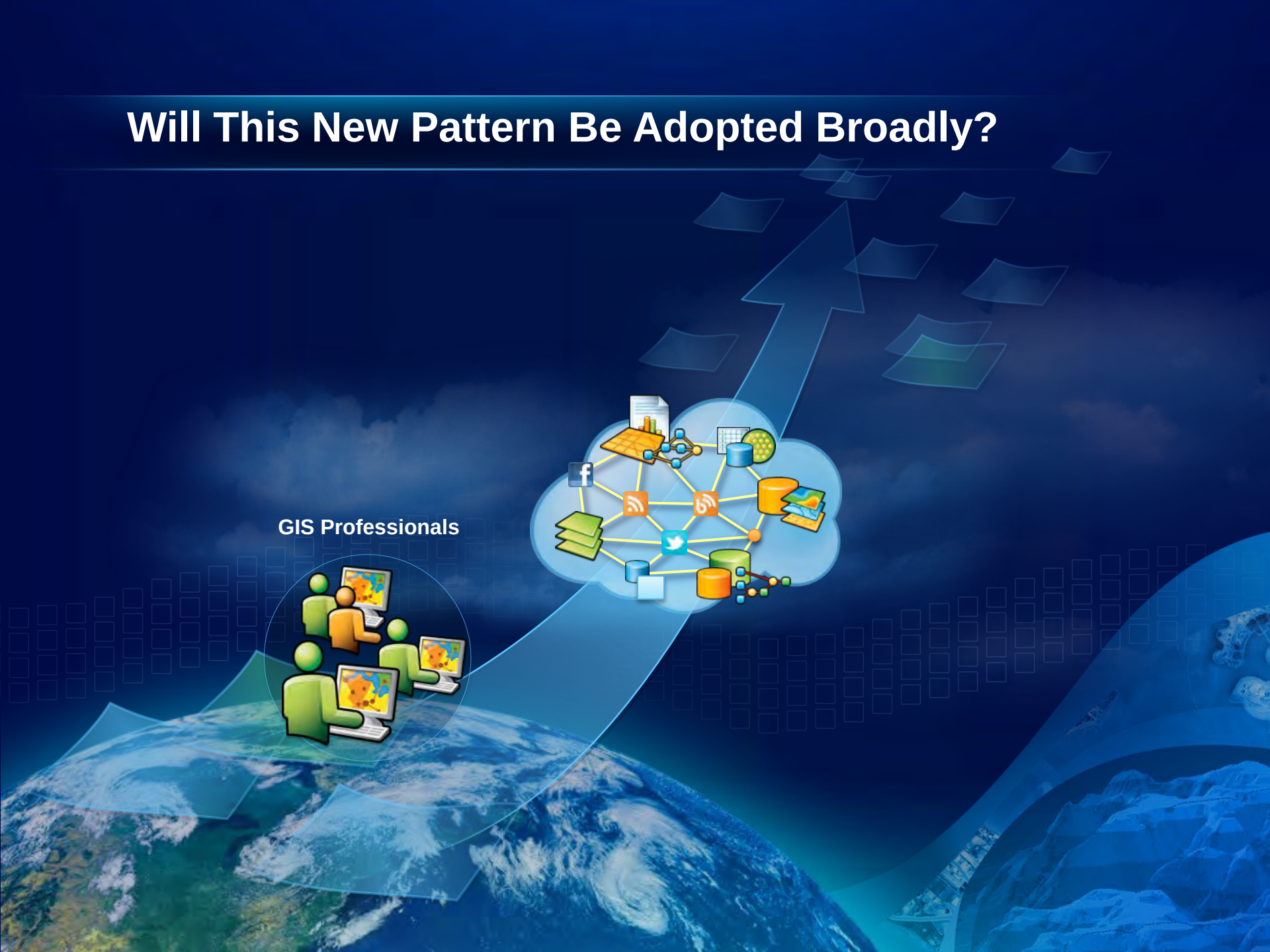
Helping Us Understand Our World

A New GIS Pattern Is Emerging

Making GIS Accessible to Everyone

. . . Virtually Anywhere and on Any Device

Will This New Pattern Be Adopted Broadly?



This Pattern Will Open and Extend GIS

Providing Access to the Vast Network of Geographic Knowledge

Extending the Reach of GIS . . .
Empowering Others to Participate . . .
. . . Providing Shared Understanding

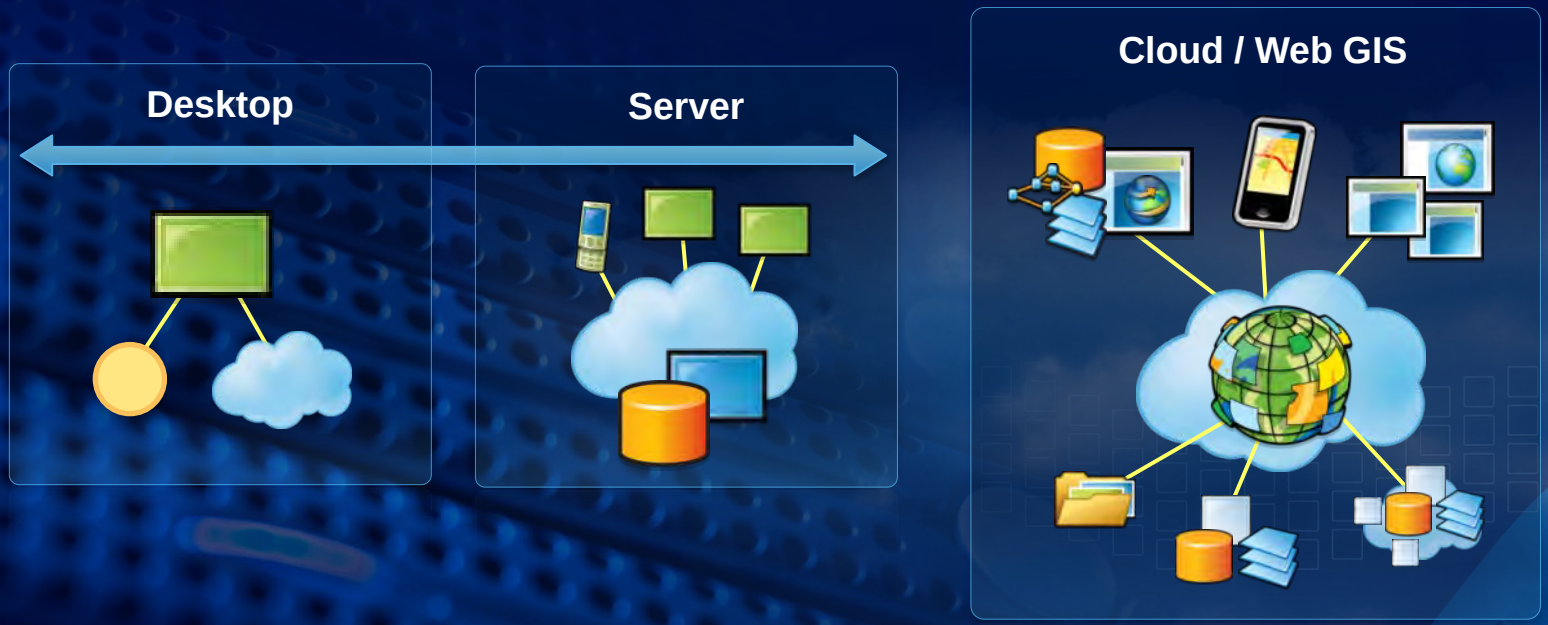
Our Work

ArcGIS 10.1. – A Complete GIS Platform

Desktop, Server, Web, Cloud

ArcGIS Supports Multiple Implementation Patterns

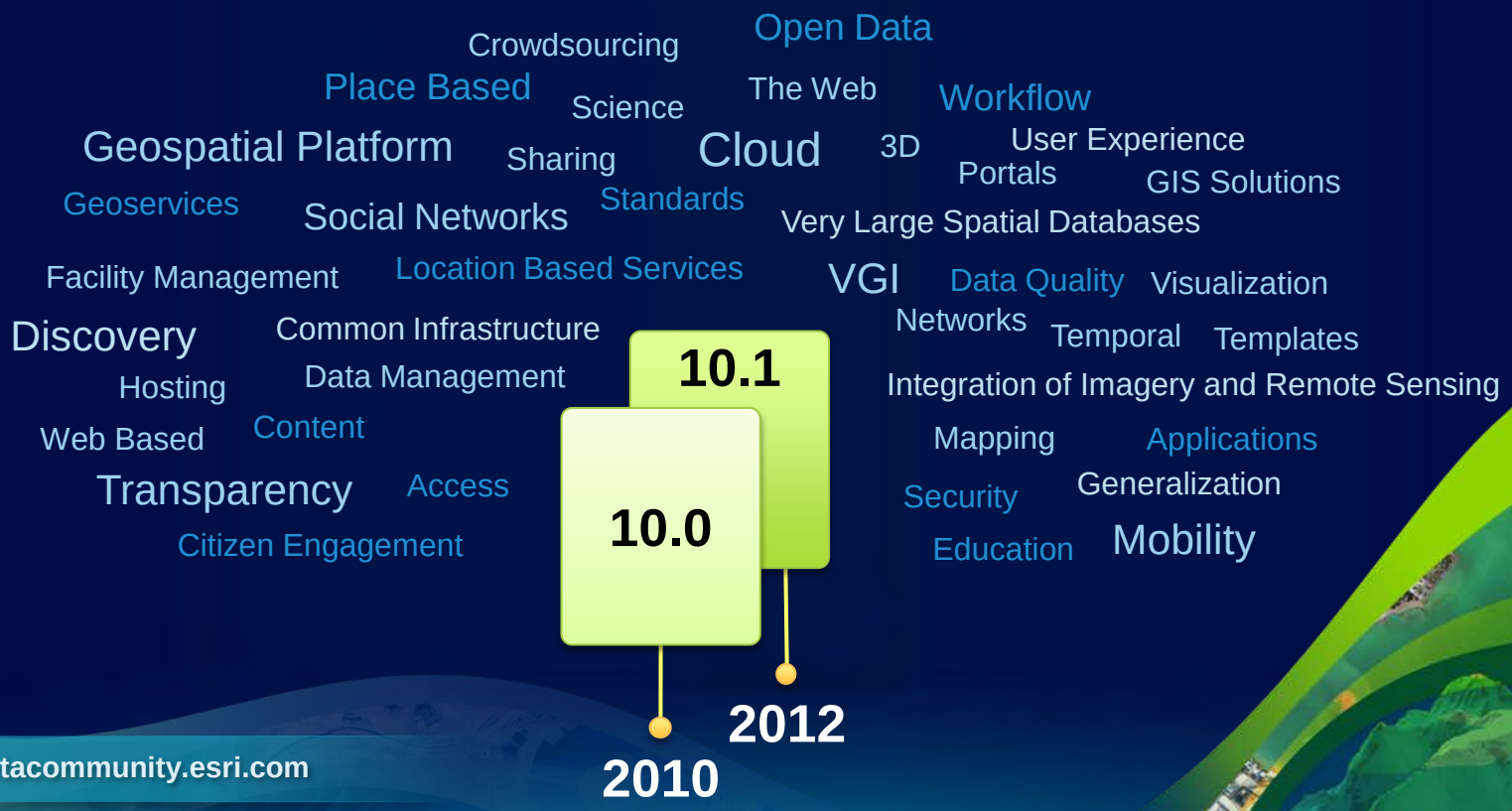
Working Independently and As An Integrating System



Enabling Enterprise and Pervasive GIS

ArcGIS Is Advancing Rapidly

Introducing Many New Capabilities – Improving Quality, Performance, and Usability

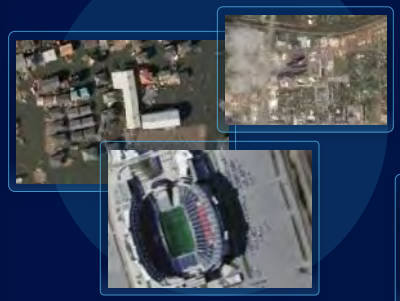


ArcGIS Includes a Growing Collection of Basemaps & Content

Ready to Use, Authoritative and Beautiful

Landsat Services

Imagery



World Ocean Map

Census

World Street Map

National Geographic World Map

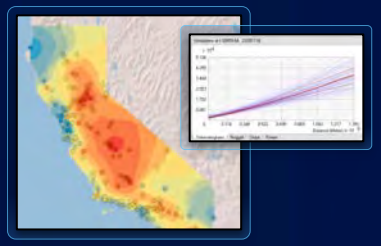
World Topographic Map

Advances Geographic Science

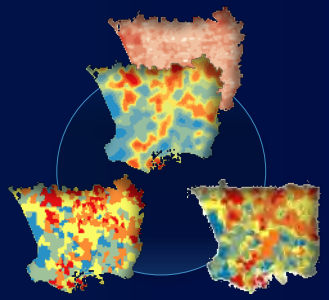
New Analytic Tools Providing New Insights

Multi-scale Spatial Auto Correlation

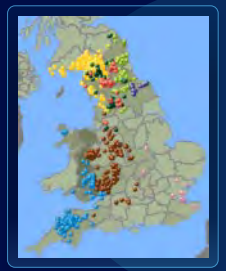
Empirical Bayesian Kriging



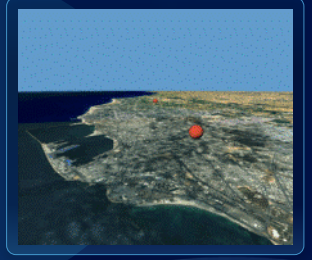
Areal Interpolation



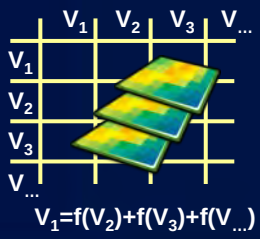
Grouping Analysis



Space/Time Cluster



Exploratory Regression



$V_1 = f(V_2) + f(V_3) + f(V_{...})$

Fast Drive Time Analysis

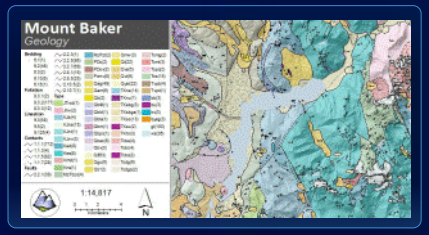
Geodesic Buffers

. . . Creating Better Understanding

Advances Mapping and Editing Workflows

Increasing Productivity

Dynamic Legends



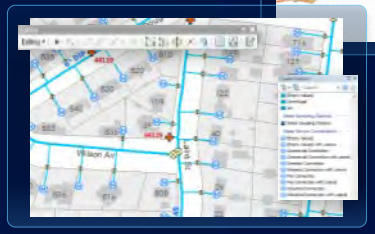
Map Automation with Python

Temporal Support

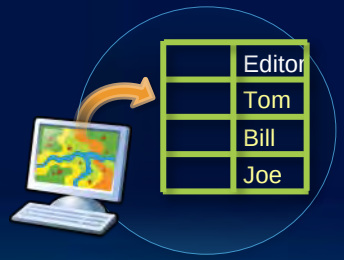
Better Labeling

Rule-Based Generalization

Improved Template Based Editing



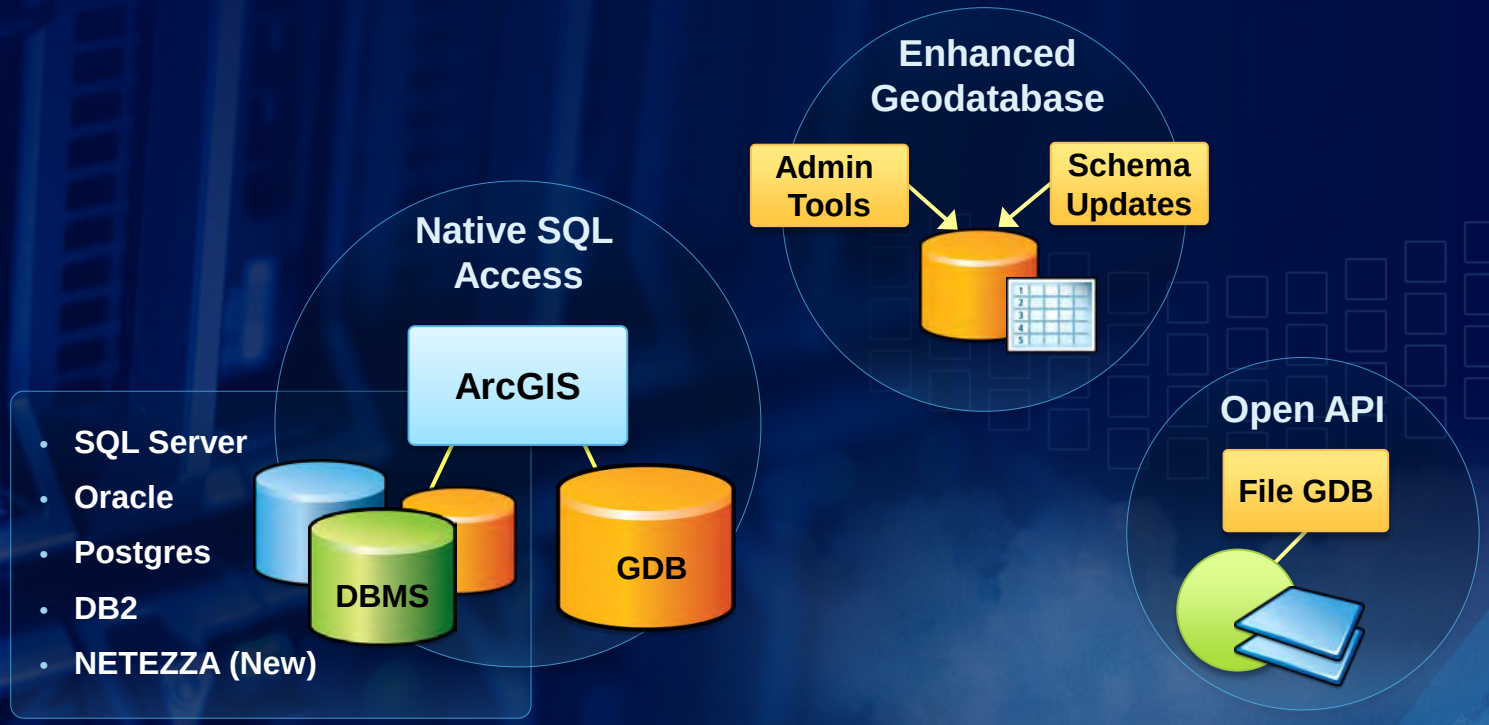
Feature Edit Tracking



. . . Improving Visualization

Improves Database Management

Works Directly with Standard Spatial Databases



. . . Making Management and Access Simple

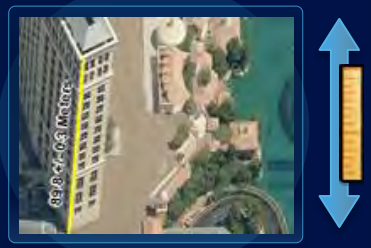
Improves Image Integration and Exploitation

Supporting Visualization, Analysis, Management and Dissemination

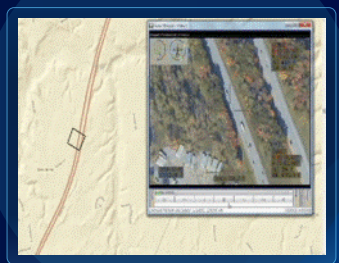
Fast Visualization

Analysis

Highly Accurate Measurement



Integrates Video (FMV)



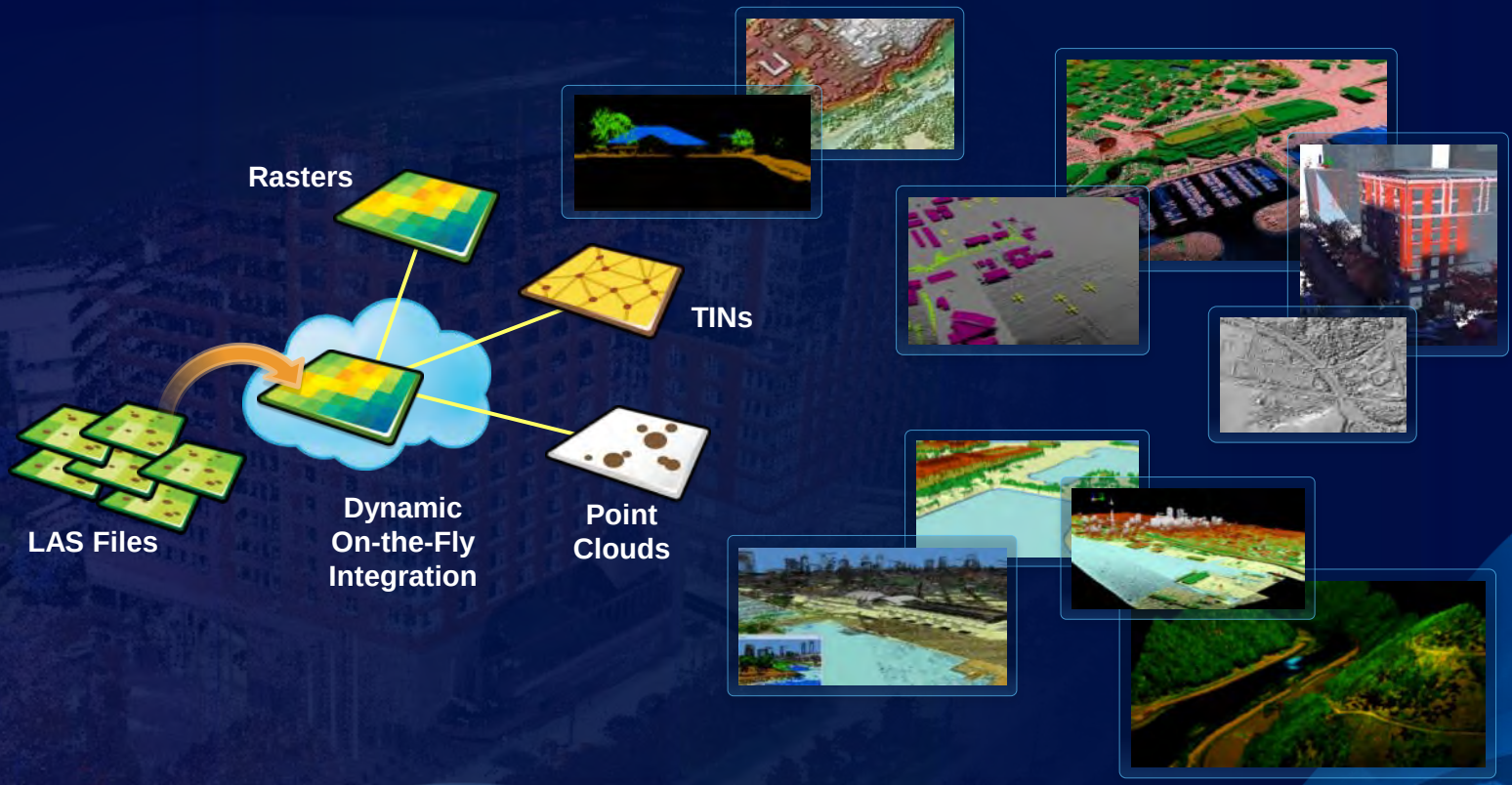
Massively Scalable

Automatic Enhancement

Simplifies Workflows and Automates Processing

Supports Lidar

Transforms Lidar Data Into Useful Information Products



. . . Supporting Improved Visualization and Analysis

ArcGIS 10.1 Supports All Popular Mobile Devices

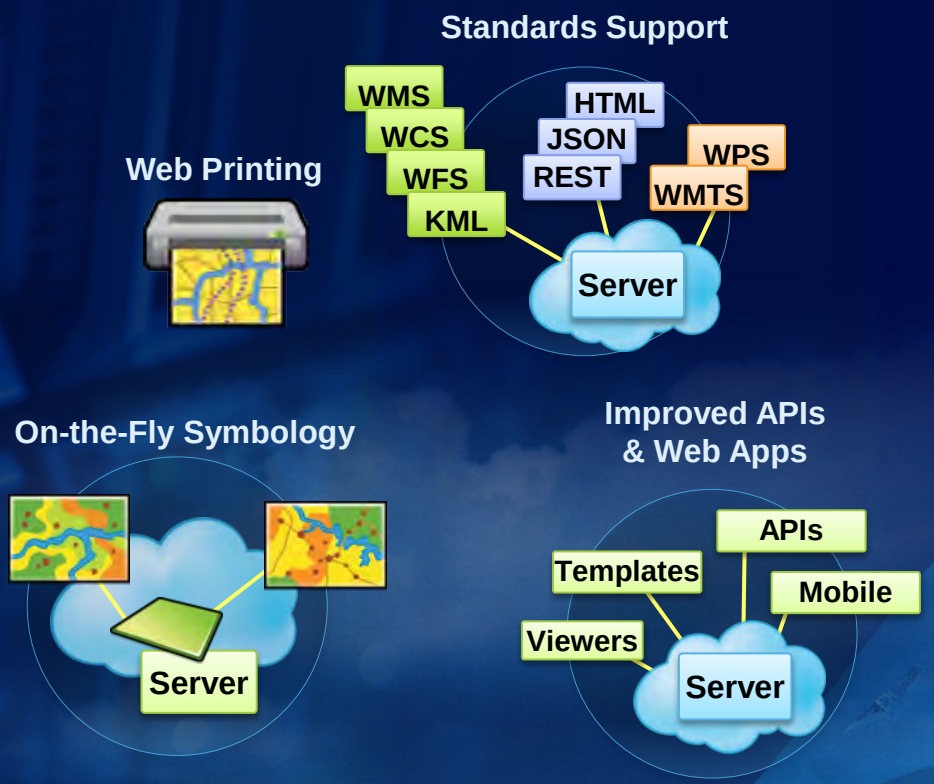
Ruggedized Devices, Smart Phones, Tablets

Connecting with Field-Workers and Citizens . . .
. . . Supporting You Anytime You Are Not at Your Desk

ArcGIS Server Is Improving

Enhancing the Architecture and Adding Capabilities

- Improved Performance
- Easy Install/Admin
- Simple Service Creation
- Native 64-Bit
- Strong Linux
- Highly Scalable

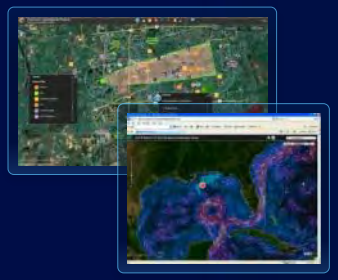


Providing a More Open and Productive Platform

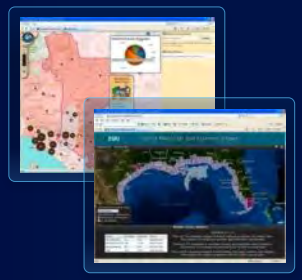
Web Applications Are an Important Part of ArcGIS

Many Web Viewers and APIs

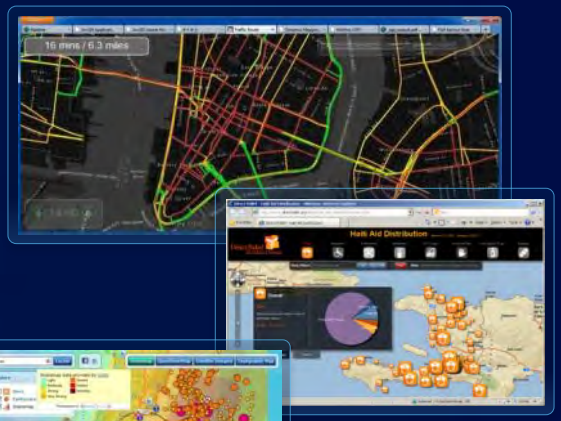
Flex



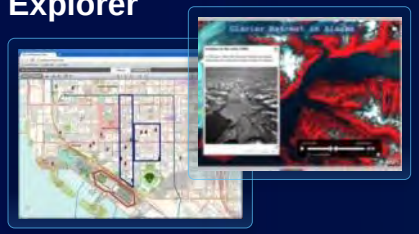
Silverlight



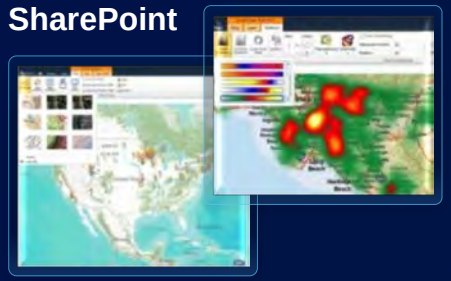
JavaScript



Explorer



SharePoint



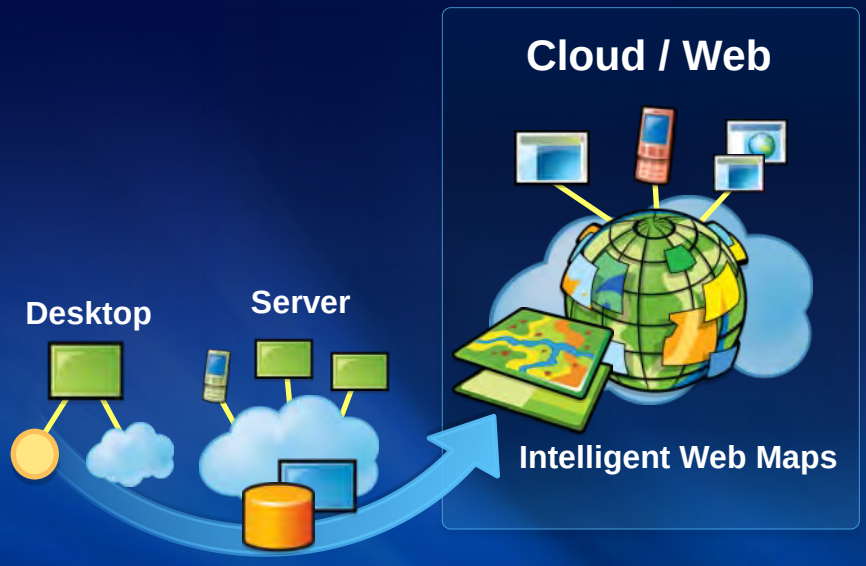
Easily Configured and Deployed
. . . Fueling an Explosion In Accessibility

ArcGIS 10.1 Simplifies Sharing Your Work

GIS For Everyone

ArcGIS Online Is a New GIS Pattern

An Open Platform for Maps and Geographic Information



. . . Easy and Accessible by Everyone

ArcGIS Online Is a Cloud Based GIS

Supporting Online and on Premise Deployment

Providing GIS as SaaS . . .
. . . For Individuals, Departments, and the Enterprise

Intelligent Web Maps Are the New Medium

Integrating Services (Data, Maps, Models . . .)

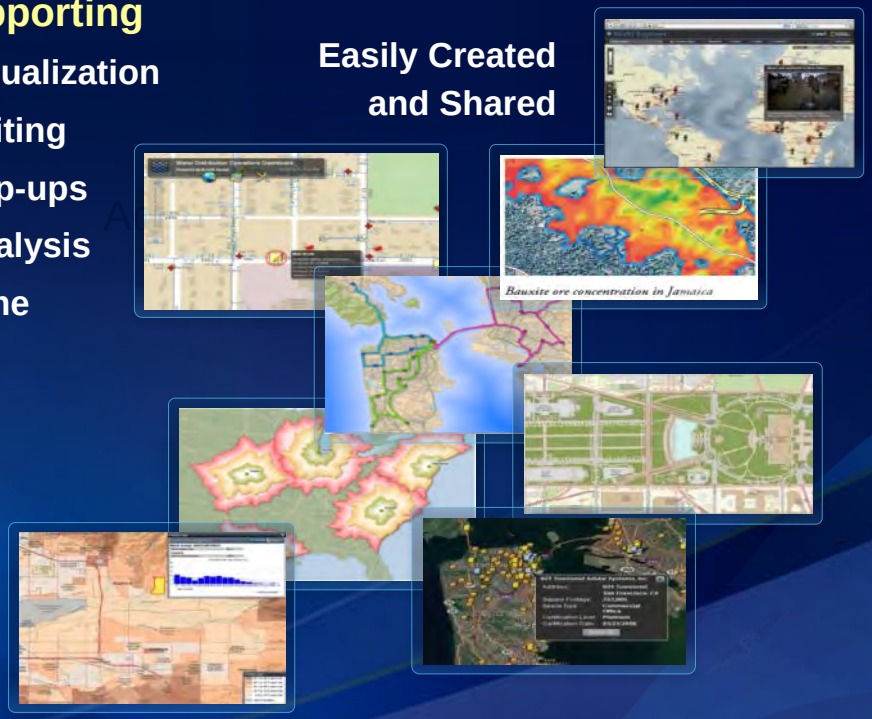
Intelligent Maps

Services and Data

Supporting

- Visualization
- Editing
- Pop-ups
- Analysis
- Time

Easily Created and Shared



Simplifying GIS . . .
. . . Connecting and Providing Open Access

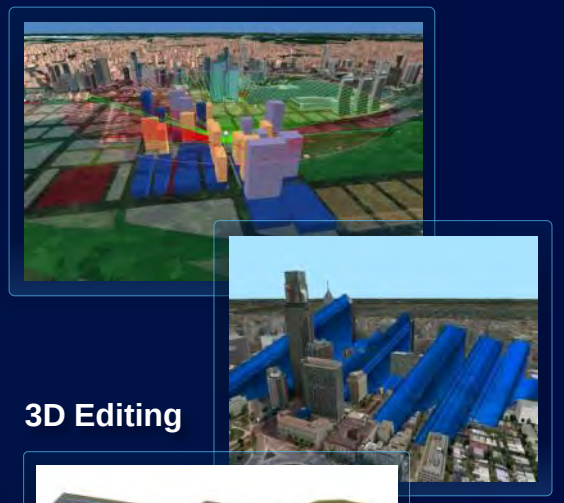
Intelligent Web Maps Can Be Used Everywhere

. . . Enhancing Access and Collaboration

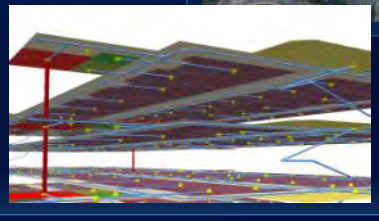
Expands 3D GIS

Improving Modeling, Analysis, and Visualization

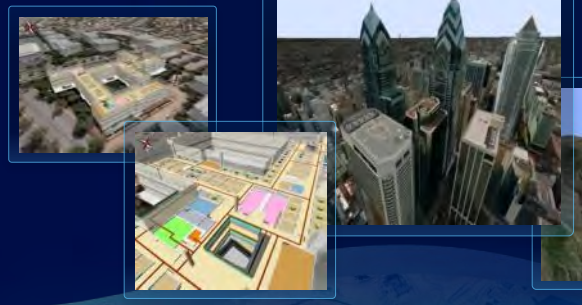
Buffers



3D Editing



Performance

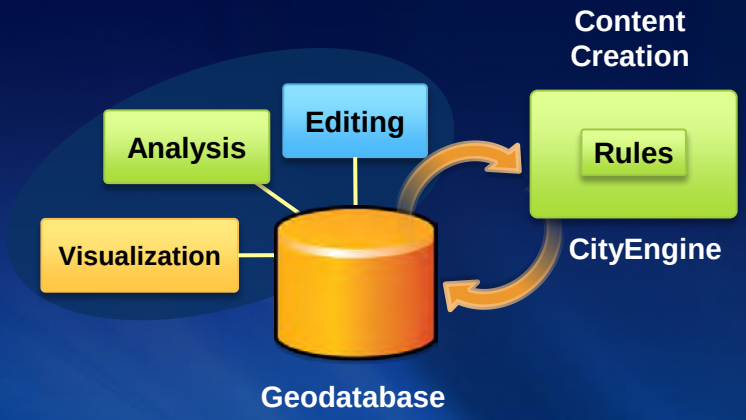


Lidar Support

. . . Supporting Urban Planning, Facility Management, Landscape Planning . . .

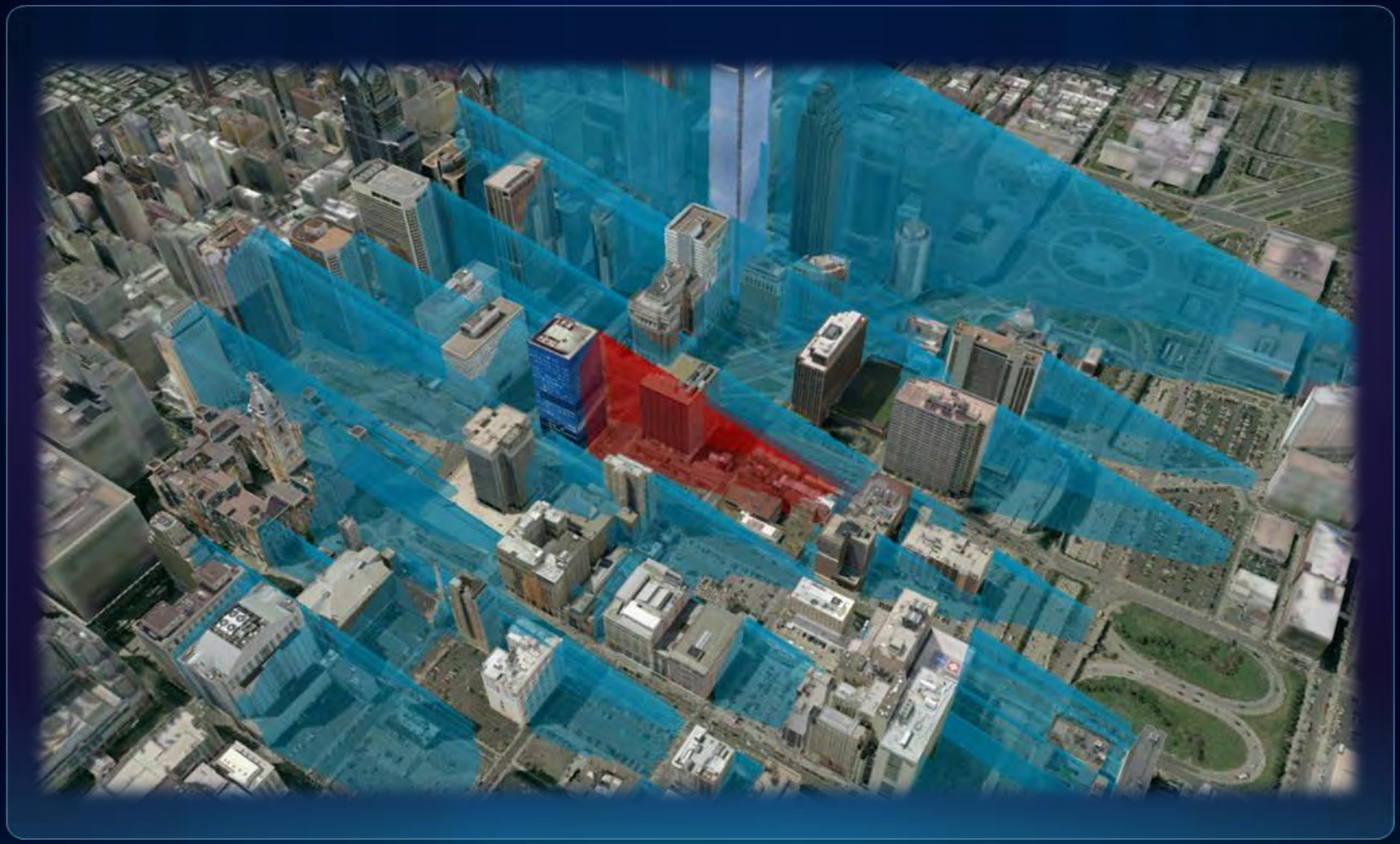
3D GIS Will Be Advancing Dramatically

Adding Content Generation and Design Tools



Integrating GIS, Urban Design, and Advanced Visualization

CityEngine



Smart 3D cities…

What is CityEngine?

- ✓ **Innovative software for fast and easy 3D city modeling;**
- ✓ **Full suite of industry leading procedural tools to aggregate geospatial data, lay out and edit street networks, subdivide parcels, generate and modify buildings, analyze urban design projects, etc.;**

Dynamic City Models

City Modeling by setting rules

Setting rules for:

- ✓ **The type of the street network– width of roadways and sidewalks;**
- ✓ **The parameters for the neighborhood parcels;**
- ✓ **Height, architecture type, façade type, etc.**

OSM Data Import

- ✓ Map selection from OpenStreetMap;
- ✓ Data in CityEngine environment;
- ✓ Processing;
- ✓ Map layer;
- ✓ 3D generation;

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Thank You!