Esri User Conference 2017

Big Ideas

THE SCIENCE OF WHERE

UC

YOUR WORK

Applying The Science of where

VISION

- The Science of Where™ is the Science of Geography and the Technology of GIS
- Web GIS is the Modern GIS Architecture – Growing Exponentially
- Web GIS Simplifies Working with ALL Data
- Apps Bring the Power of GIS to Life
- Web GIS is Revolutionizing How We Plan and Design
- Web GIS Makes Spatial Analysis More Accessible and Geo-Enables Data Science
- Web GIS Enables Community Engagement
- Web GIS Enables a Whole New Scale of GIS

OUR WORK

ArcGIS – A Complete Platform

Capabilities

- A Complete Platform
- Supports Multiple Patterns
- ArcGIS Organizes and Manages All Aspects of a GIS – Portal Brings it All Together
- ArcGIS Content – Foremost Collection of Global Geographic Information – A Living Atlas for the planet
- Data Management and Compilation
- Field GIS
- Mapping and Cartography
- 3D Platform
- Complete Imagery platform
- Spatial Analysis
- Insights
- Big Data Spatial Analytics
- Real-Time Analytics
- Open platform

The Science of Where

Analyzing & Modeling Bike lanes & Bike sharing stations

BOSTON

- ArcGIS Pro
- Spatial Analyst
  =No Hills + Street lights + trees – traffic
- Network Analyst
  Routing + Location-Allocation
- Geostatistical Analyst
  Empirical Bayesian Kriging Regression Prediction

OAKLAND COUNTY, MICHIGAN

"Inspire Just One Person – Grow hundreds More"

Web GIS Distributed GIS System of systems

"Build it Once, pay for it once, and everyone Benefits!"

- Access Oakland Open Data
- Map of the Month
- Real-Time GIS
- County Apps → Python Automation 62 Municipalities (Departments)
- GeoAnalytics
- Opioids Solutions

ArcGIS Hub

Organizing & Leveraging Community Interactions

Initiatives – A P P S – Stories

Vacant / Vacant / Vacant

- Reduce Blight
- Vision Zero
- Economic Development

We Are GeoGeeks

ArcGIS Pro 2.0

Top 10 Favorites

10. Annotation (Main Street)
9. Dynamic Charts
8. Layout Improvements (Grids, Graticules, Dynamic Legends)
7. Automatic Image Georeferencing
6. Catalog is Back!
5. OGC WFS
4. 3D Visualization & Editing
3. On-Screen Navigation
2. Sharing → AGOL/Portal
Bonus Dark UI Theme
1. Multiple Instances

ArcGIS Enterprise

Installing & Configuring

1. Builder
2. CHEF
3. Cloud Formation Cloud Builder

ArcGIS Online 10.5.1

Did You Know?

- Image Basemaps (DATE, CLARITY, FIREFLY)
- Vector Tile Basemaps (Navigation, Night, Newspaper, Modern, Antique, Children's Map) – Pro
- World Geocoding (東京タワー)
  - Global Coverage
  - Reverse Geocoding
  - MGRS / USNG
- Map Viewer – Join Features – Smart Mapping – Arcade
- Scene Viewer
- Business Analyst – ArcGIS Marketplace

"Best Little App You May Have Never Seen..."
Community-Business-You

TAYLOR SHELLFISH Farms

From Tide to Table

Geoduck

Brand & Geographic Loyalty

"Make Field Data Collection a Habit."

Explorer, Survey123, Collector (Related Tables), Workforce, Drone2Map

Digital Transformation

"Brian is Now Our Strongest Advocate for Mobile Apps."

Insights for ArcGIS

Ask Questions ⇒ Discover Insights

Find the Water Leaks

Conserve Water

Chesapeake Conservancy

NAIP = 4 Bands → Raster Function + Microsoft AI

Image Server → 1m Land cover Classification

Azure

2014 → 2016: Change Detection → Priorities → Action Map → National Scale

ArcGIS API for Python

Jupyter Notebooks

–A Whole New Experience for Your Web GIS–

Jupyter: Scripting, Spatial & Raster Analysis, Automation

+

IBM Watson

Visual Recognizer

Electrical Insulators → Damaged?

–Share Your Code–

Shock Trauma Air Rescue Service

STARS

Emergency + AVL ⇒ GeoEvent ⇒ Dynamic Mission Plan

–Automating Real-Time Decision Making–

GeoAnalytics

"It's about the Patient"

Walt Disney Animation Studios

Understand & Learn

Zootopia

Scale, City Engine, GeoDesign with Nature

Smart Dubai

- NXN
- Dubai Design District (Pulse)

–The Happiest City on Earth–

The Science of Learning

Neurogeography

① Lifelong Learning
+MOOCS +Learn ArcGIS

② Higher Education
+Notebooks +Collaborate +Open Data +ArcGIS Hub

③ K-12 Education
+GeoInquiries
+GeoMentors

4-H GIS/GPS – Tennessee

Pro
- Hotspots
- Charting
- Groupings

Science

"Now we are Pros with Pro."

Dr. Geoffrey West

The Future of the Planet (Scale)

Life, Growth, Death

Organisms, Cities, Corporations

Envision What's Possible

- Learn the New Technology
- Adopt the New Patterns
- Explore New Applications
- Share and Collaborate
- Encourage New Users
- Communicate Your Successes