ArcGIS Desktop and Pro: Overview and Deployment Strategy

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Elvis Takow
ArcGIS for Desktop

ArcMap

ArcGIS Pro
- 64 Bit, multi-threaded
- Simplified user interface
- Integrated with ArcGIS Online
- Combined 2D/3D experience
- Multiple maps and layouts
- Simple search and query
Fusion of Applications

ArcMap / ArcCatalog

ArcGlobe / ArcScene

CityEngine

ArcGIS Pro
What's new?

ArcGIS Pro 1.2

ArcMap 10.4
Features of ArcMap 10.4

- New and Improved Geoprocessing Tools
- Imagery \ Raster
- ArcObjects SDK Improvements
  - Visual Studio 2013 \ 2015
  - .NET Framework 4.5
- Architectural Updates
- Accessibility Improvements
ArcMap 10.4 continues to grow
New geoprocessing tools and workflows

• Package your analysis results and share them
• Create and work with SQLite databases
• Identify the best areas to locate using improved suitability modeling
• Improved cost distance analysis using movement types (i.e. walking, driving, etc.)
• More efficient extraction and classification from LAS data sets
• Improved segmentation and classification from raster data sets
• Visualize space time data using cubes in 2D and 3D
ArcGIS Pro 1.2
Supporting the GIS Professional

- Standards based Metadata
- Vector Tiles
- Better OGC Support
- Smart Mapping
- Publishing by reference
- Performance
- 3D Point Scenes
- Animations
- Concurrency
- Sharing Imagery
- Inline text editing
- Map Series
- Improved Feature Service Support
- Shared Edge Editing
- Charts
- Traverse (COGO)
- Tasks History
- SDK
- Living Atlas Integration
- 3D Local Scenes
- Workflow Manager POIs

Extending the Platform…
Vector Tiles
Create fast, efficient, and high quality display basemaps

- Fast drawing and caching
- Improved display on higher screen resolutions
- Dynamic labeling
- Ability to re-style symbology
- Share via Online or Portal

ArcMap 10.x will not support vector tiles

Labels remain upright
Animation
Share your visuals as videos

- Author animations in 2D and 3D
- Control
  - Camera’s flight path and view direction
  - Visible layers
  - Time and Range
- Create fly-through using bookmarks
- Export to common formats
- SDK for fine-grained control
Page Layout
Create map books and atlases

- Multipage creation and export
- Inline text editing experience
Layout in Pro
Metadata

- Edit full, standards based metadata
- View multiple metadata descriptions
- Search metadata
- Share metadata across the platform
Working with Tables

Show related records

Zooming in table cells

Pop-ups in table views

Time and Range Filter
Analysis and Geoprocessing

• Improved ModelBuilder user experience
• Share analysis with Geoprocessing Packages
• Create and share vector tile packages and mobile map packages
• Identify the best areas to locate using improved suitability modeling
• Improved cost distance analysis using movement types (i.e. walking, driving, etc.)
• Predictive analysis using EBK regression

Many more geoprocessing tools…
Smart Mapping
Making thematic mapping easier

• Intelligent defaults and data driven workflows
• Intuitive UI including histograms
• Support for heat maps and unclassed choropleth maps
Editing tools

- Maintain map topology
  - Align Features
  - Reshape Edge

- Traverse (COGO)
Editing in Pro
Deploying ArcGIS Pro
• ArcMap continues
• ArcMap and ArcGIS Pro run side by side
  - Separate install
  - Imports MXDs, SXDs, and 3DDs
  - Models and Scripts (Python)
• Basic, Standard, and Advanced Levels
Getting started with Pro
How can I be using Pro now?
Analysis

- Majority of tools from ArcMap
- Geoprocessing Pane
- Modelbuilder
- Python Window
- Network Analysis
- Image Processing
Editing

- 2D and 3D editing
- Simplified edit sessions
- Edit enterprise GDBs
- Group templates
- Map topology
- CAD like editing experience
Mapping & Visualization

• Improved drawing performance and quality
• Multiple layouts
• Unified symbol model
• Transparency
• 3D Cartography
• Map Series
• Animation
Sharing

• Web maps and 3D web scenes
• Map and layer packages
• Project packages
• Map & Layout files
• Task files
• Symbology (styles)
Why would I continue to use ArcMap?
Common Questions
Licensing Pro
ArcGIS Pro Access Managed in ArcGIS Online \ Portal

- Access controlled by Named User

- Organization Admin can:
  - Grant access by User
  - Control product level and extension
  - Re-assign access as needed
  - Know who is using what and when
Named Users in an Organization

- Download and install Pro
- Sign-in and use Pro anywhere
- Go offline if needed

Custom Role for License Administration
ArcGIS Pro 1.2 introduced additional flexible licensing options.

- **Single Use**
- **Concurrent Use**

**Named User**
### Pro License Allocation

Convert Pro Licenses from Named Users to Single or Concurrent Use.

<table>
<thead>
<tr>
<th>Product</th>
<th>ArcGIS Pro Environment</th>
<th>Named Users</th>
<th>Authorizations</th>
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<td>ArcGIS Pro for Desktop Advanced</td>
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Pro License Allocation Complete

Convert Named Users to Concurrent Use

5 named users have been successfully converted to concurrent use.

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The following are the concurrent use authorization numbers. These authorization numbers will be available in My Esri / My Organizations / Licensing / Authorizations in 45 minutes.

<table>
<thead>
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New Licensing options

- **Concurrent Use**
  - Requires a 10.4 license manager
  - Updated license file

- **Single Use**
  - Locked to a machine
Additional Questions
What extensions are available with ArcGIS Pro?

- Spatial Analyst
- 3D Analyst
- Network Analyst
- Geostatistical Analyst
- Data Reviewer
- Workflow Manager
- Data InterOp
- Streetmap Premium
Can I virtualize ArcGIS Pro?

Yes, ArcGIS Pro virtualizes well

- Citrix (XenApp and XenDesktop)
- Vmware (Horizon View)
- Microsoft (Hyper-V VDI)
How can I customize ArcGIS Pro?

- Use
- Configure
- Automate
- Extend

Tasks

Python

.NET API

Customize the Ribbon

Configure
Your Questions?
Thank you

Please remember to fill out a survey