

Esri International User Conference | San Diego, CA Technical Workshops | July 14th 2011

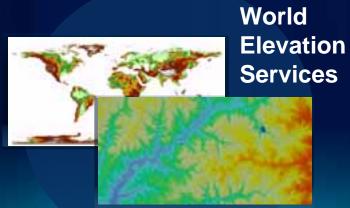
# **Road Ahead - Imagery**

Peter Becker

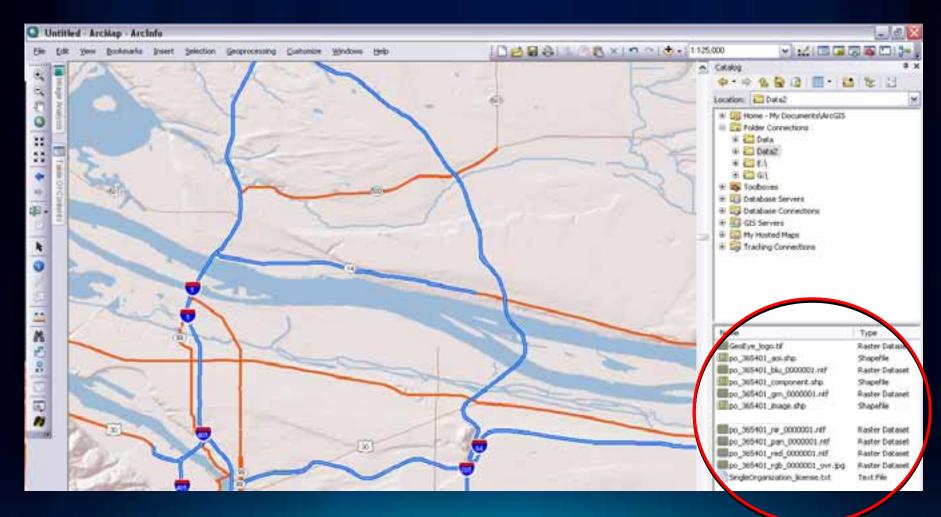
# **ArcGIS Online – Imagery**

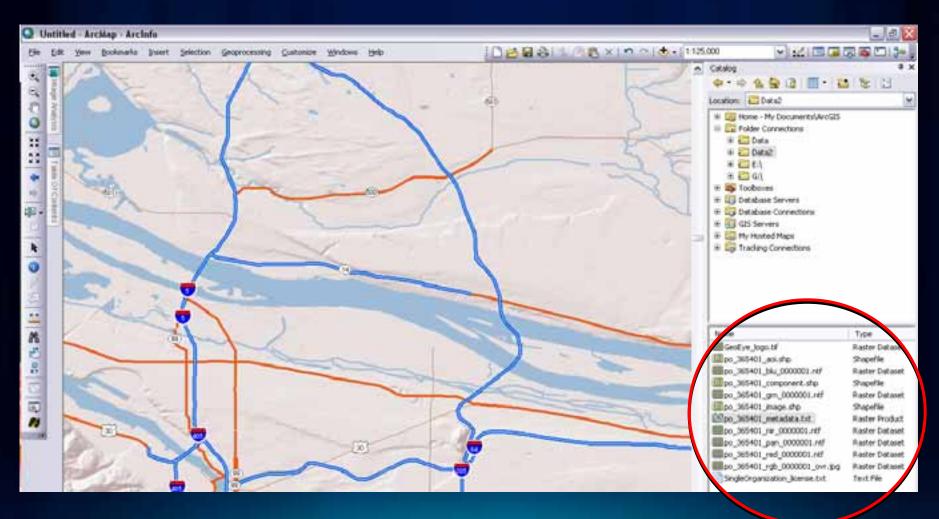


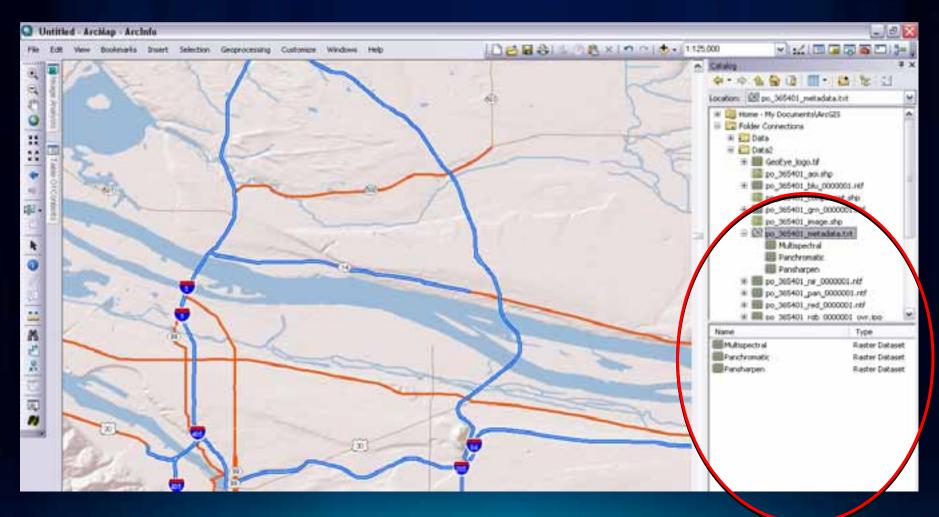


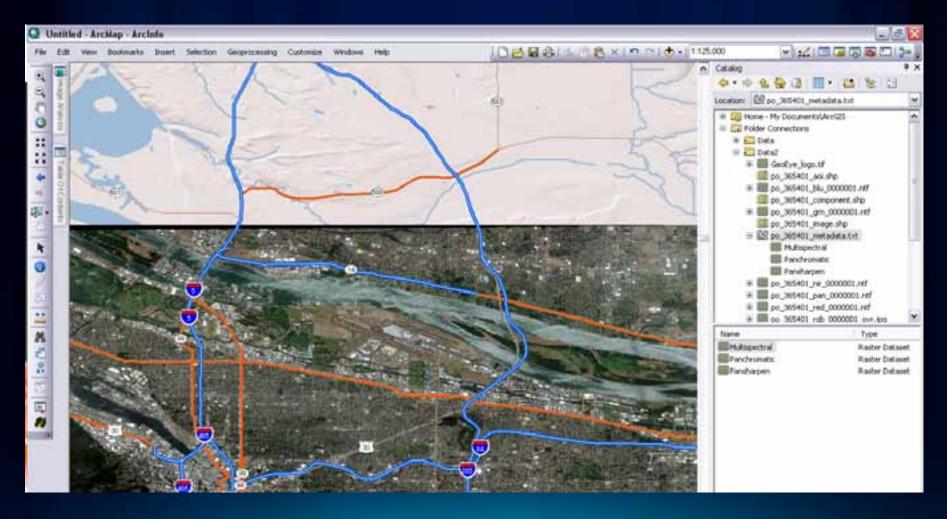


# **Making Imagery Easier to Use**



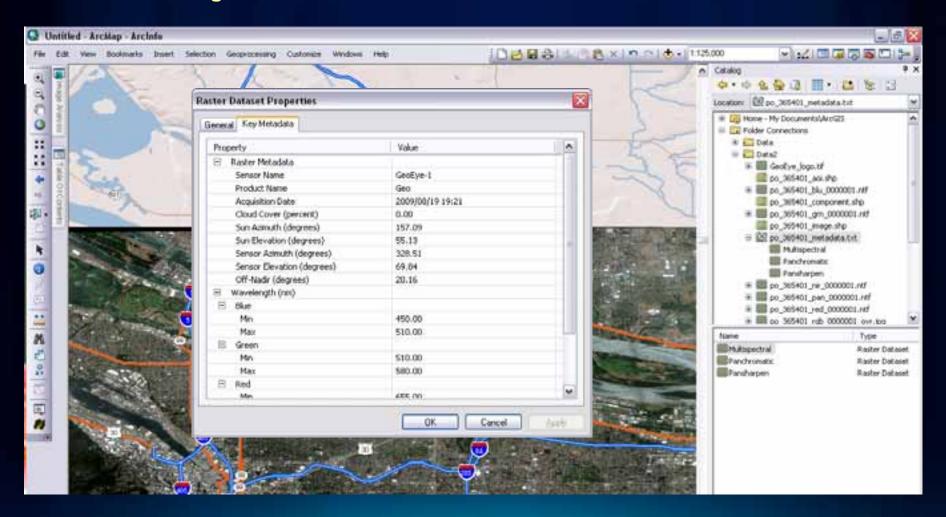






# **Improved Metadata**

**Standardizing how Metadata is Extracted and Accessible** 



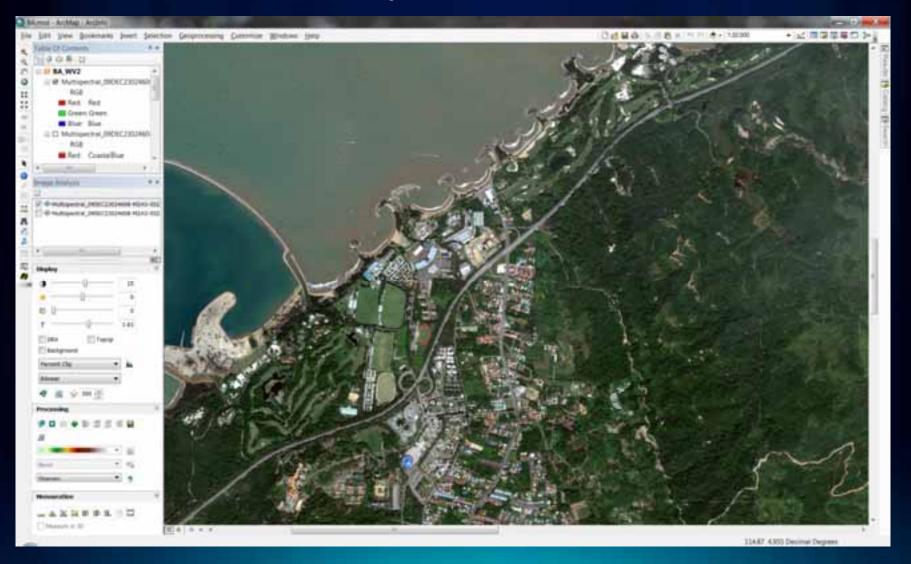
# **Image Enhancement**

### **Automated Determination of Optimum Color**



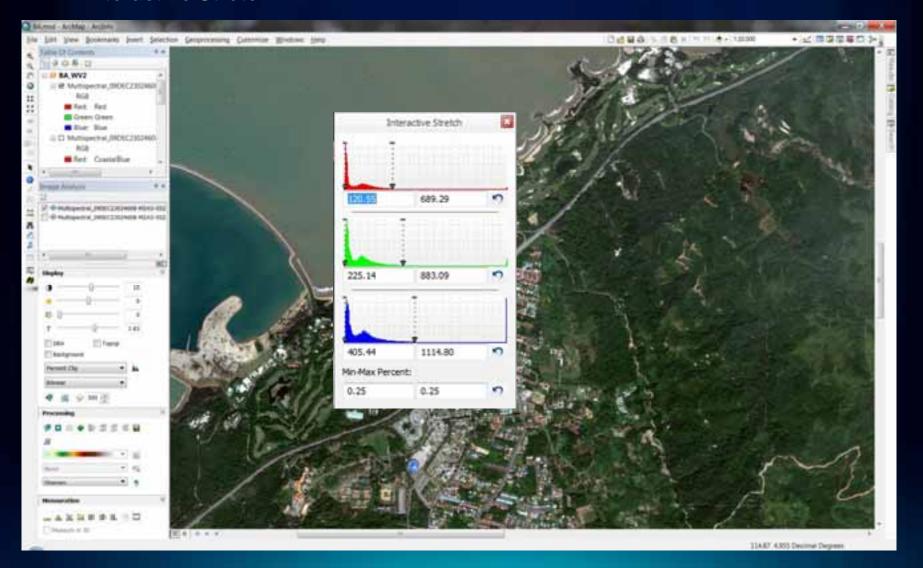
# **Image Enhancement**

### **Automated Determination of Optimum Color**



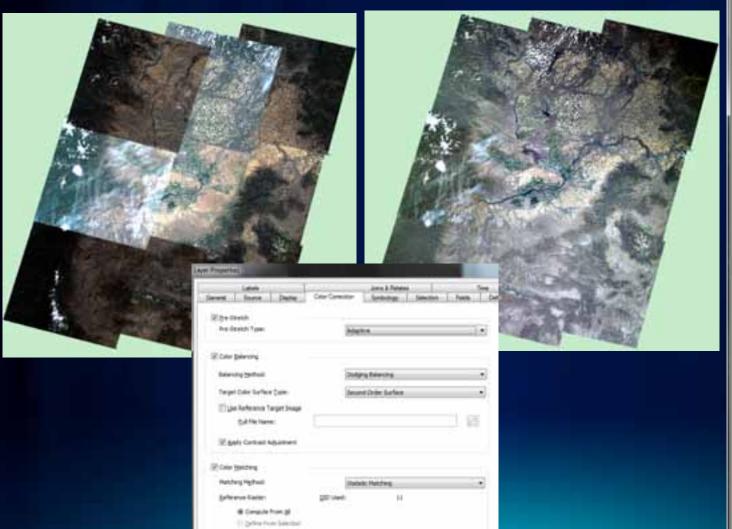
# **Image Enhancement**

### **Interactive Stretch**



# **Color Correction Improvements**

**Color Balance Collections of Imagery** 



Color Correction		医
Landsat_MD		
Bing Maps Aerial		
		,
		WII
Color Balancing		В
Stretch:	Adaptive	•
Gamma:	1	
Mask:		-
▼ Target:	Bing Maps Aerial ▼	
Balance:	Dodging	•
Surface:	Second order	•
☑ Enable Color Correction		
Correct Color		
Excluded Area		8
Color Value		
Pixel depth:	8 -	
		255
	_	255
		255
		255
		0
		255
		255
		255
Percentage		
0		0
Gen	erate	0

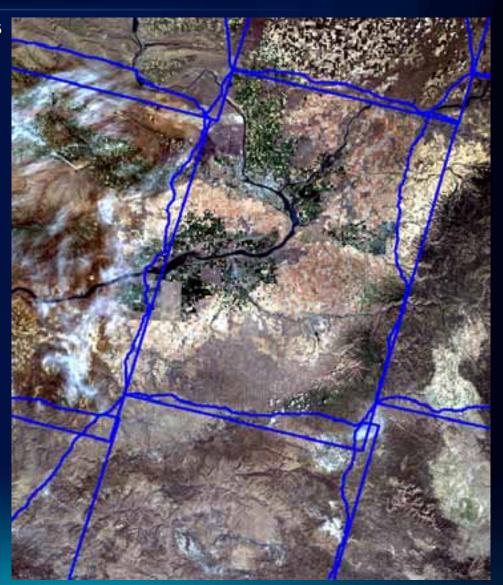
# **Seamline Generation**

**Hide Transitions Between Images** 



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**Hide Transitions Between Images** 



# **Seamline Generation**

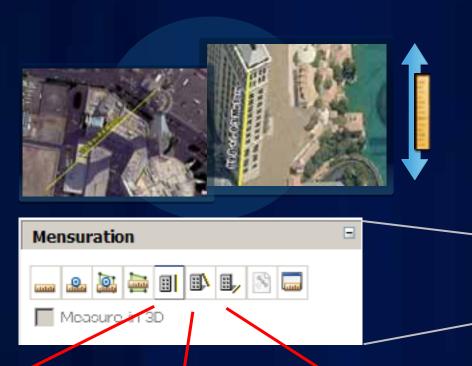
**Hide Transitions Between Images** 



# **More Information From Imagery**

### **Mensuration**

**Measure Height Information Directly From Imagery** 



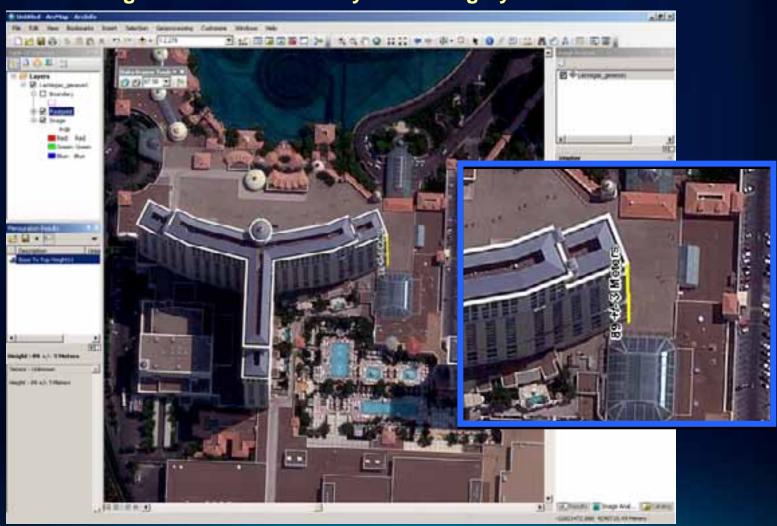
Base to Top, Base to Shadow, Top to Shadow

- Includes Accuracy Estimate
- Also Accessible via REST
- Optional Classified Version



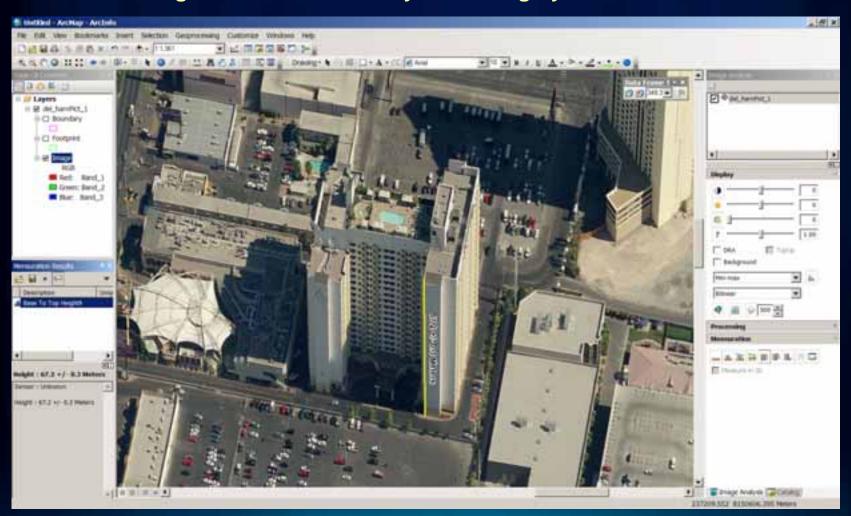
# Mensuration

### **Measure Height Information Directly From Imagery**



## **Mensuration**

### **Measure Height Information Directly From Imagery**





# **More Formats & Raster Types**

- 16 Additional Formats
  - Inc: MrSID MG4, GXF, DOQ2, PCI.aux, TerraSAR-X
- Improved Raster Types
  - **SPOT 5**
  - RadarSAT 2
  - Landsat
  - ...
- CSM Support



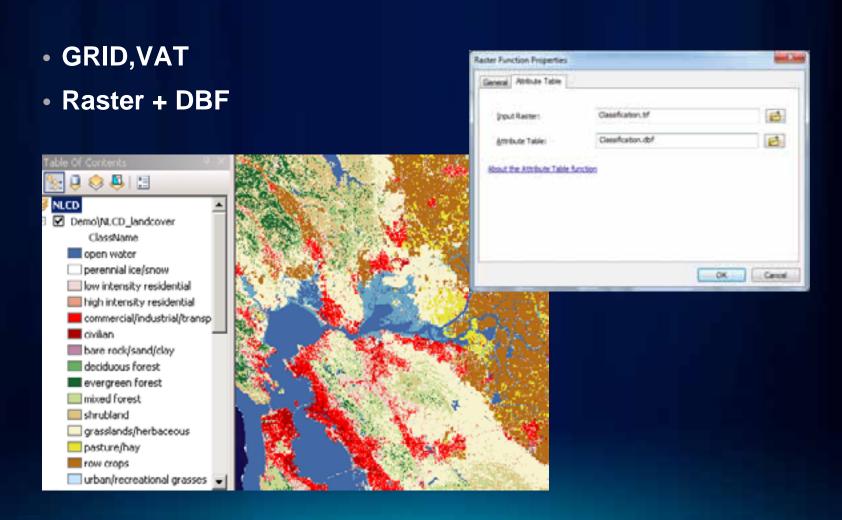
# **Full Motion Video Integration**

**Connect to Live and Archived Georeferenced Feeds** 



# **Categorical Data**

**Support Categorical Data in Mosaic Datasets and Image Services** 



- LAS Dataset
  - Collection of LAS files + Constraints
  - As: Point, Surface, Raster



- Mosaic Dataset
  - Catalog of
    - LAS, LAS Dataset, Terrain, Rasters
    - + Functions & Metadata
  - Directly use or Serve as Image Service
  - As: Raster, Catalog, Download LAS

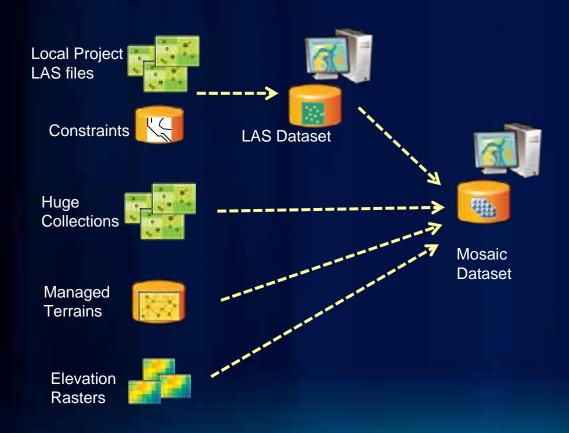


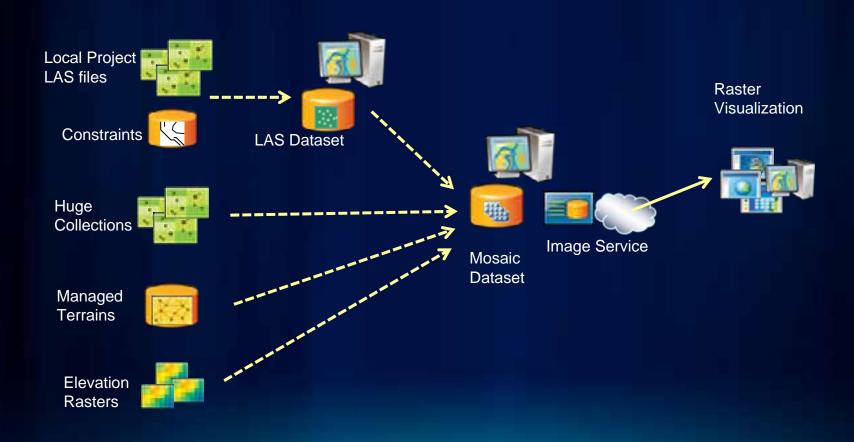


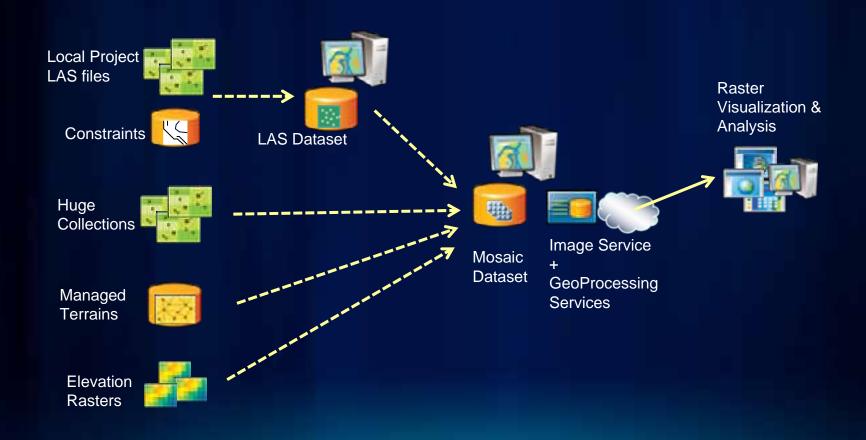




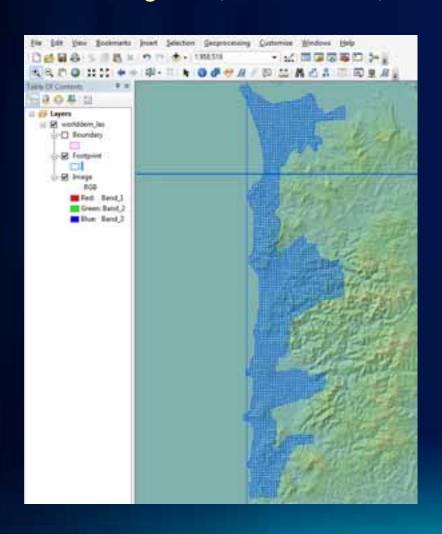


















# **Improved Georeferencing**

### **Quickly and Accurately Align Imagery**



- Improved User Interface
- Dual Monitor Mode
- Increased Accuracy Image Space
- Additional Transforms



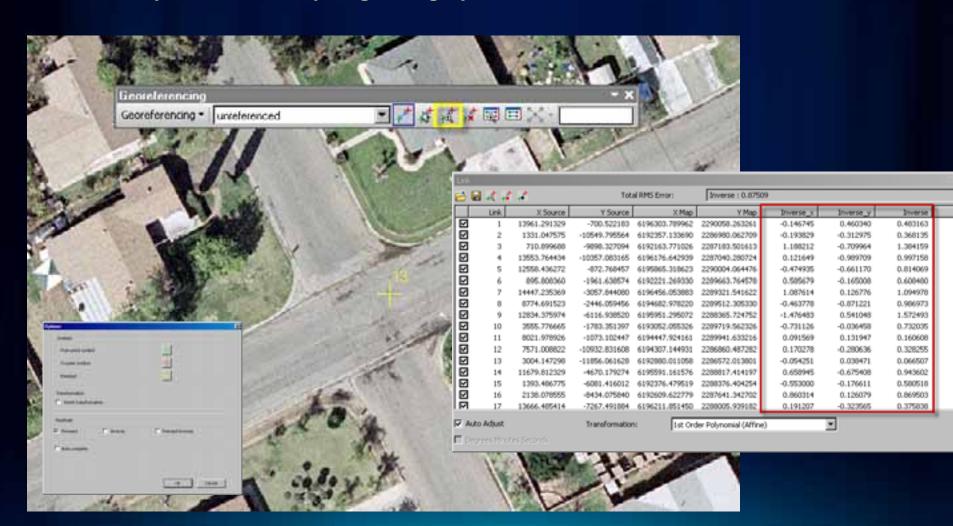






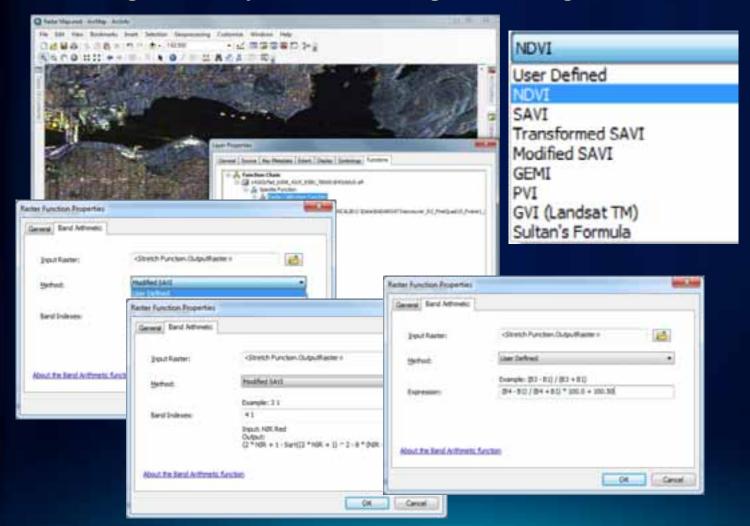
# **Improved Georeferencing**

**Quickly and Accurately Align Imagery** 



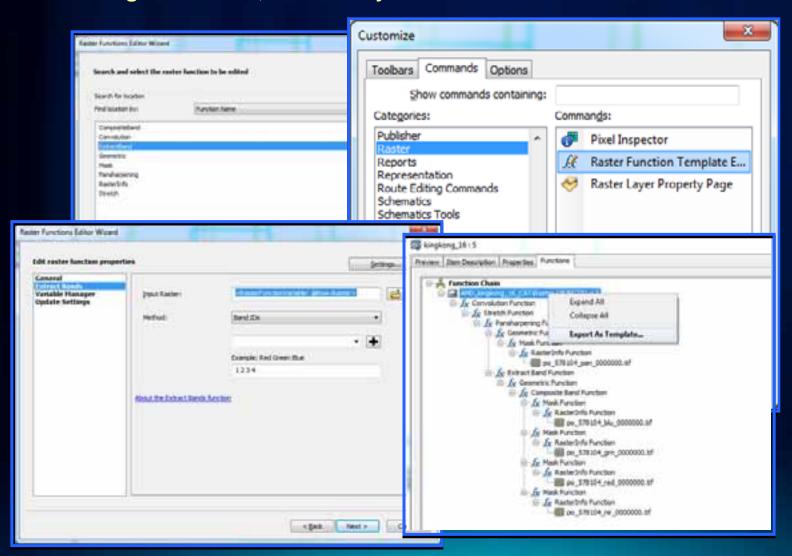
### **Additional Raster Functions**

### **Extending On-The-Fly - Pull Based Image Processing**



### **Function Editor**

### **Change Functions, Individually or in Batch**

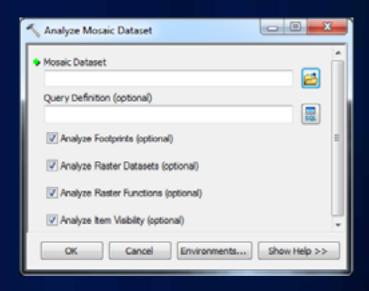




# **Analyzers**

### **Evaluate and Optimize**

- Mosaic Dataset Analyzer
- Image Service Analyzer



# **Automation Improvements**

- Additional GPTools
  - Set Parameters

- ....

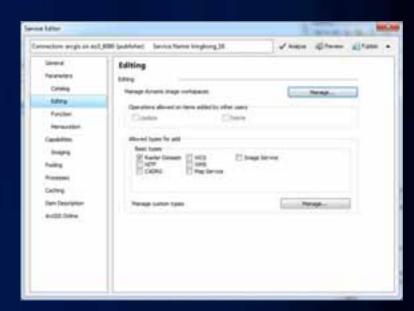
Enhanced Synchronization

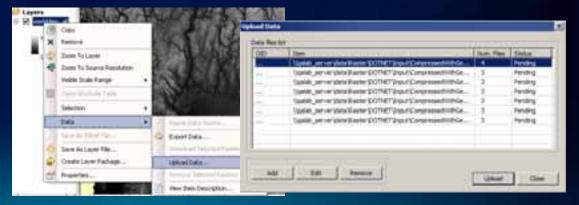




# **Improved Serving**

- Simplified Serving Experience
- Scalability Improvements
- Image Service Caching
- Server Side Functions
- Image Service Editing
- Extended REST







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