ArcGIS Pro: Working with Stereo Imagery
Prashant Mangtani
Agenda

• Introduction
• Preparing your data
• Demo – Preparing your data
• Working with Stereo imagery in ArcGIS Pro
• Demo – Working with Stereo Imagery in ArcGIS Pro
• Coming Soon
• Summary
• Questions
Introduction

• What is stereo?
• Viewing stereo imagery
• Types of imagery
  - Aerial/Frame - UAV/UAS, DMC, Vexcel
  - Satellite - Ikonos, WorldView
  - ADS (ArcGIS Pro 2.2+)
• More than just a viewer
  - Data collection
Prepare your data for stereo
Preparing your data

- Create Mosaic Dataset
- Adjust images (if needed)
  - Block Adjustment
- Generate stereo images
  - Build Stereo model
Preparing your data

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Working with Stereo Imagery in ArcGIS Pro
Stereo Imagery in ArcGIS Pro - Hardware

- **Anaglyph**
  - Anaglyph glasses

- **Shutter**
  - Shutter glasses (+ receiver)
  - 120 Hz 3D vision capable monitor

- **Other hardware**
  - 3D PluraView
Stereo Imagery in ArcGIS Pro

• Image Analyst extension
• Aerial, satellite and drone imagery
• Work with large collections of stereo models efficiently using mosaic datasets
• Consistent Pro editing UX – familiar tools, feature template support etc.
• New cursor modes and shapes
• Shutter glass and anaglyph stereo viewing
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- Support for multi-patch editing
- Collect common roof shape using templates
- Support for reshaping and copy / pasting
- Generate 3D models with roof outlines by creating walls that extend to the ground
- Provision to add more templates via SDK (extensible)
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Questions
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