End User Training

Los Angeles County
Dept. of Regional Planning
GIS Section
Training Objectives

- Introduce Pictometry
- Introduce Electronic Field Study (EFS) & The Image Library
  - Available Documentation
  - Image Basics: Four main image types
  - Electronic Field Study’s interface
    - Finding images
    - GIS Overlays and GIS Query Tool
    - Navigation Tools
    - Printing Options and Exporting
    - Image Analysis Tools
    - Annotation (Markup) tools
    - Workspaces
Starting EFS on the Workstation

- A Shortcut is placed on the Desktop during installation
- From Programs > Pictometry under the Start Menu
- Through Workspaces that have been saved
The Base Map is another **Geo-Referenced** image.

Users can click on the map to pull up thumbnails of images covering that point on the map.

This map can be customized!
You have a “starter workspace” delivered with the LAR-IAC data. This uses a GIS Image. You can add GIS layers to this. There is a document on creating new GIS images.
Image Basics

Pictometry Images

- Consist of 2 image types
  - Orthogonal
  - Oblique

- Consist of 2 image levels (altitudes)
  - Community
  - Neighborhood
Pictometry Image Types

- **Orthogonal**
  - Shot **straight down**
  - Oriented “North-up”
  - We refer to them as “Orthos”
  - Not included with the LAR-IAC

- **Oblique**
  - Shot at a 40-45 degree **angle**
  - Shot looking to the North, South, East or West
  - Gives a ‘natural’ perspective
Pictometry Image Levels

- **Community**
  - Shot from ~4,500 ft.
  - Average resolution (GSD): 1 foot per pixel

- **Neighborhood**
  - Shot from ~3,500 ft.
  - Average resolution (GSD): 6 inches per pixel

- **Orthos** (not included with the LAR-IAC)
Understanding the Default EFS Interface

- Important Screen Elements
  - Toolbars
  - Image Window
  - Thumbnail & North Pointer Windows
  - Workspace Window
  - Output Window
  - Status Bar

- Screen Element Interaction
  - Element Resizing & Visibility
  - Element Flotation
Image Tool

- Click with the image tool on the Base Map or on an image establish ‘focus’ and generate thumbnails ‘around’ focal point
- Probably the most-often used tool in EFS
- Provides EFS ‘focus’
- Preferences
  - Automatically open best thumbnail
  - Limit Image Search
Finding Images

- Image Tool and Maps
  - Resultant Image Types
  - Limit Image Search options

- Address Lookups
  - Basis of address data

- Go To Location

- Searching GIS layers directly
Navigation Tools

- **View From Buttons**
  - North / South / East / West
  - Ortho
  - Neighborhood / Community / Sector Tile

- **Navigate Pull-down**
  - Move one image N/S/E/W

- **Walking Man**
  - Navigate by clicking
GIS Overlays and GIS Query Tool

- **GIS Layers**
  - Overlay Imagery
  - ‘Overlays’ -> Annotation Layer Visibility
  - Added to the Workspace

- **GIS Query Tool**
  - Displays GIS field(s) of layer being queried

- **GIS Data**
  - ESRI Shapefile
  - ESRI ArcSDE Feature Class
Printing and Exporting

- Print Options
  - Print Image (& Preview)
  - Print Window (& Preview)
  - Print Setup…

- Exporting Images

- Extract Tool
Image Analysis

- Available Analysis Tools
  - Distance Tool
  - Height Tool
  - Location Tool
  - Area Tool
  - Elevation Tool
  - Bearing Tool

- Tool Properties
- Units of Measurement
- Annotation options
  - Temporary vs. Permanent
  - Local vs. Global
  - Attribute Inheritance
  - Labels
Annotations and GIS Overlays

- Annotation (GIS overlay) Layers
- Local versus Global
- Property Inheritance
- Annotations
  - Point
  - Line
  - Circle
  - Text
  - Link
  - Icon
- Making Annotations (GIS overlays) Visible / Invisible
- Saved in your Workspace file
- GIS Annotations (overlays) and the Query Tool
- Export as a Shapefile
HELP!!

- The EFS ‘Help’ Functions
- Handout as a Reminder
- Full Documentation Set
Documentation

- Has its own installer – setup.exe to install
- Also, a ‘Read Me’ is installed with EFS
  - Start with the ‘Quick Guide’ Chapter 2 for basic understanding and operation of EFS
  - The ‘Supplemental’ Picks up where QSG ends
  - Full User Manual “The Big Book”
  - Release notes
  - System Administrator Guide (IT and GIS folks)
Training Related References

  - User Account: LARIAC
  - Password: CALOSA

- LAR-IAC Website Training Related:
  - [http://planning.lacounty.gov/lariac/training.htm](http://planning.lacounty.gov/lariac/training.htm)

- LAR-IAC Website “After Delivery” Items:
  - [http://planning.lacounty.gov/lariac/ad02212007.htm](http://planning.lacounty.gov/lariac/ad02212007.htm)
  - (This page is only available through this link)
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Thanks for Coming

Questions?

LOS ANGELES REGION
LARIAC
imagery acquisition consortium