

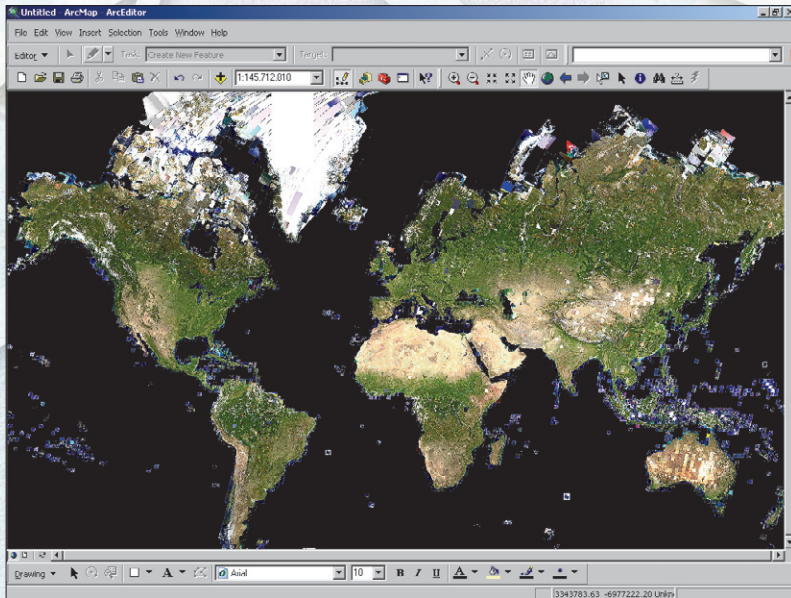
# Introducing ESRI® Image Server

## Changing How Imagery Is Managed, Processed, and Distributed

The ESRI® Image Server provides fast access and visualization of large quantities of file-based imagery—processed on the fly and on demand. Output imagery for a number of users working simultaneously is displayed almost instantly without the requirement to first preprocess the data or load it into a DBMS.

Image Server resolves bottlenecks in conventional image-processing workflows. The server combines image processing and image distribution and enables the creation of new Web-based solutions that will increase the usage and value of geospatial imagery in the context of a geographic information system (GIS).

This new product supports all the leading GIS vendors' software including ArcGIS®, ERDAS IMAGINE, Intergraph GeoMedia, and MapInfo Professional as well as CAD software such as AutoCAD and MicroStation. In addition, Image Server supports open standards such as WMS and HTML viewers.



*Images displayed in ArcGIS can also be displayed in other GIS and CAD software.*

Image Server is able to perform advanced image processing on the fly such as image enhancement, orthorectification, pan sharpening, and complex image mosaicing. From the same set of base imagery the server can create multiple images products directly for ArcGIS or other mapping and GIS software.

### Importance of Imagery

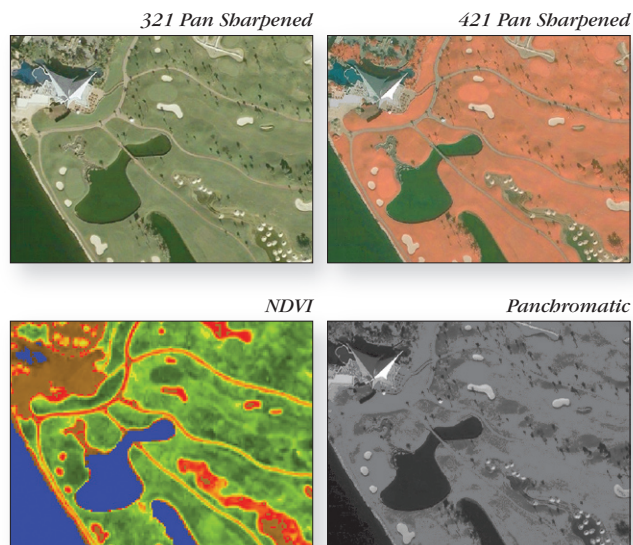
Geospatial imagery is the fundamental base to most geographic information systems and mapping devices. The quantity of imagery available is growing exponentially from sources such as scanned aerial films, digital cameras, satellite imagery, scanned maps, and digital terrain models.

### A New Approach to Using Imagery

With huge quantities of imagery come large problems in how to manage, process, and distribute the imagery. The value of imagery is highest when a large number of users have fast access to the latest data. With conventional solutions, image processing and distribution are difficult and time consuming and end users have difficulty accessing and utilizing the imagery in their standard applications. ESRI's Image Server is one component to the image solution, providing a new approach to storing, managing, processing, and distributing geoimagery.



On-the-fly image processing is one of the key features of Image Server. It enables imagery to be processed by the server prior to being sent to the Web or client application. The imagery stored in the server can be preprocessed imagery (e.g., orthoimagery) or primary imagery (e.g., raw scanned frames or satellite imagery). Utilizing the server's processing power, multiple image products can be derived from a single data source with different radiometric, geometric processing, and compression options. This removes data management problems associated with multiple preprocessed datasets as well as substantially reduces data storage requirements.



*Images with Bands Enhanced or Algorithms Applied*

ESRI Image Server is expected to be immediately popular within large mapping and imagery data management companies. There is also an opportunity for significant use within agencies and companies that manage, distribute, or use large quantities of image data.

### Key Features of the ESRI Image Server Include

- Fast access to extensive imagery
- On-the-fly server-based image processing
- Generates multiple imagery products from single source
- Multiplatform GIS/CAD/Web client access
- Fully scalable enterprise client/server architecture
- Direct access to multiple file formats
- Data security and access logging
- Independent of third-party software or DBMS
- Extensibility using extensions and SDKs



*With viewpoint control, different sides of buildings may be viewed.*



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