



USDA Satellite Image Archive DataDoors Access

USDA Risk Management Agency
Office of Strategic Data Acquisition & Analysis
(SDAA)
Washington, DC

Dr. Jim Hipple, USDA RMA

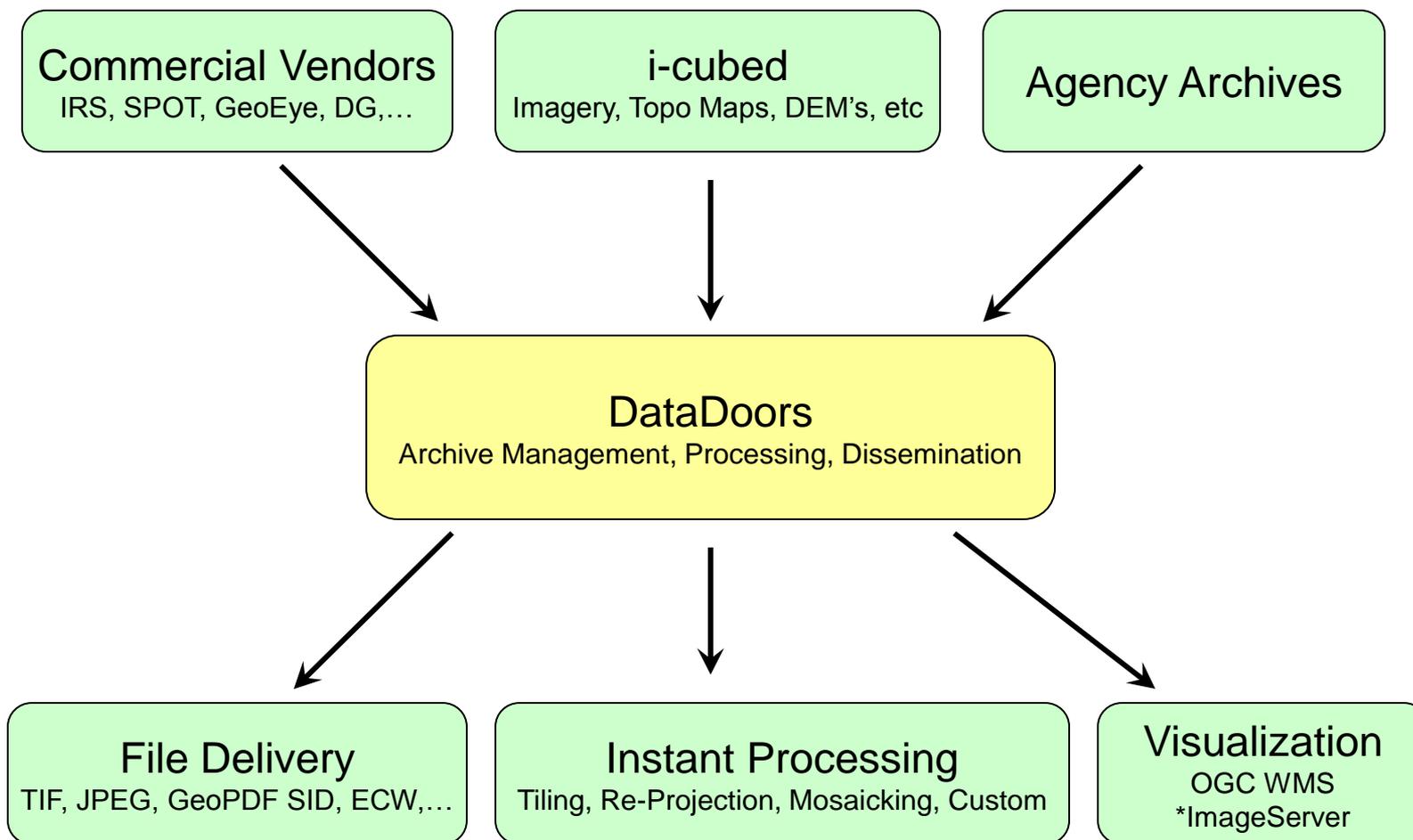
USDA RMA Primary Imagery Sources



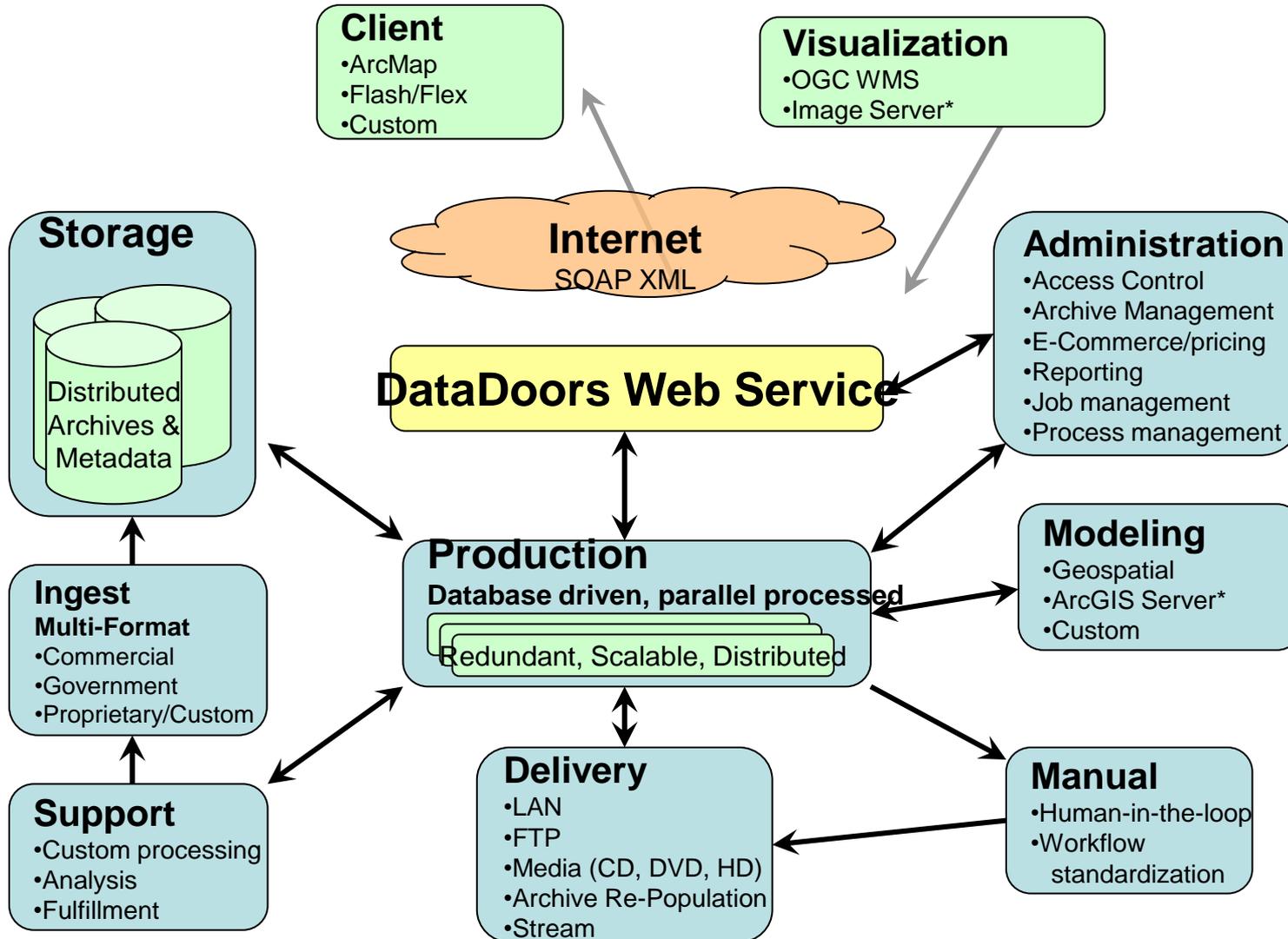
USDA-SIA is a program within FAS that:

- Provides access to satellite imagery purchased by USDA for participating agencies.
- Cost-sharing program to maximize the cost effectiveness of Department expenditures on satellite imagery. Reduces the per-image price paid by USDA agencies.
- Benefits from leveraging the power of a single USDA purchasing body.
- The USDA is the largest commercial purchaser of **ResourceSat-1 A WiFS** data
 - Largest in 2006-2010
- **USDA purchases (and induces coverage) from April 1 to September 30**
 - Commodity Credit Corporation funding
- **Continued coverage, albeit less dense, from October 1 to March 31 (starting in Oct 2008)**
 - Program Integrity, Risk Management Agency funding
- **Movement of Archive over to DataDoors (starting in January 2010)**
 - “Personal” delivery system of imagery
 - Accessed via web or arcMap
 - Imagery delivered via FTP

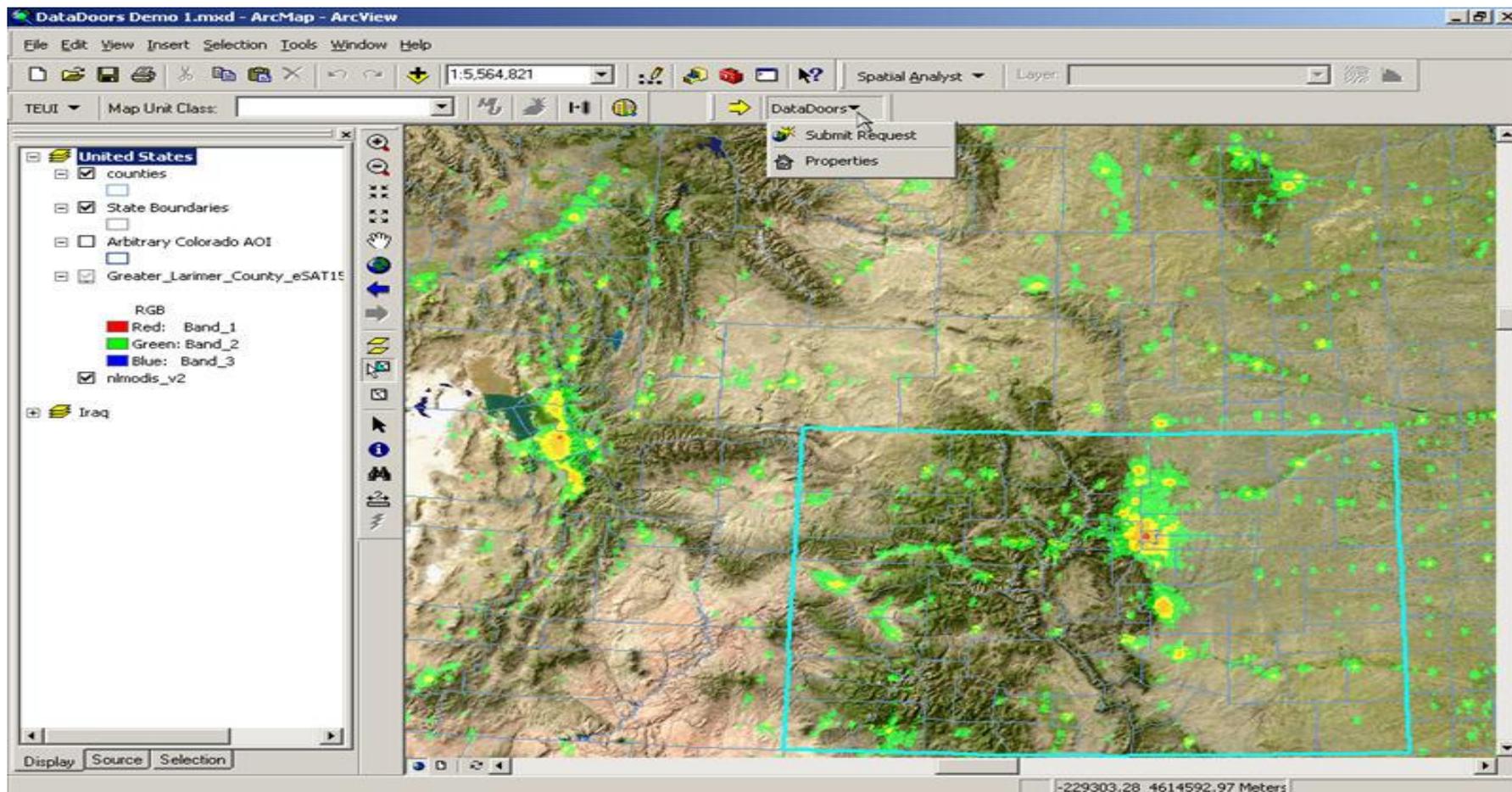
Architectural Overview



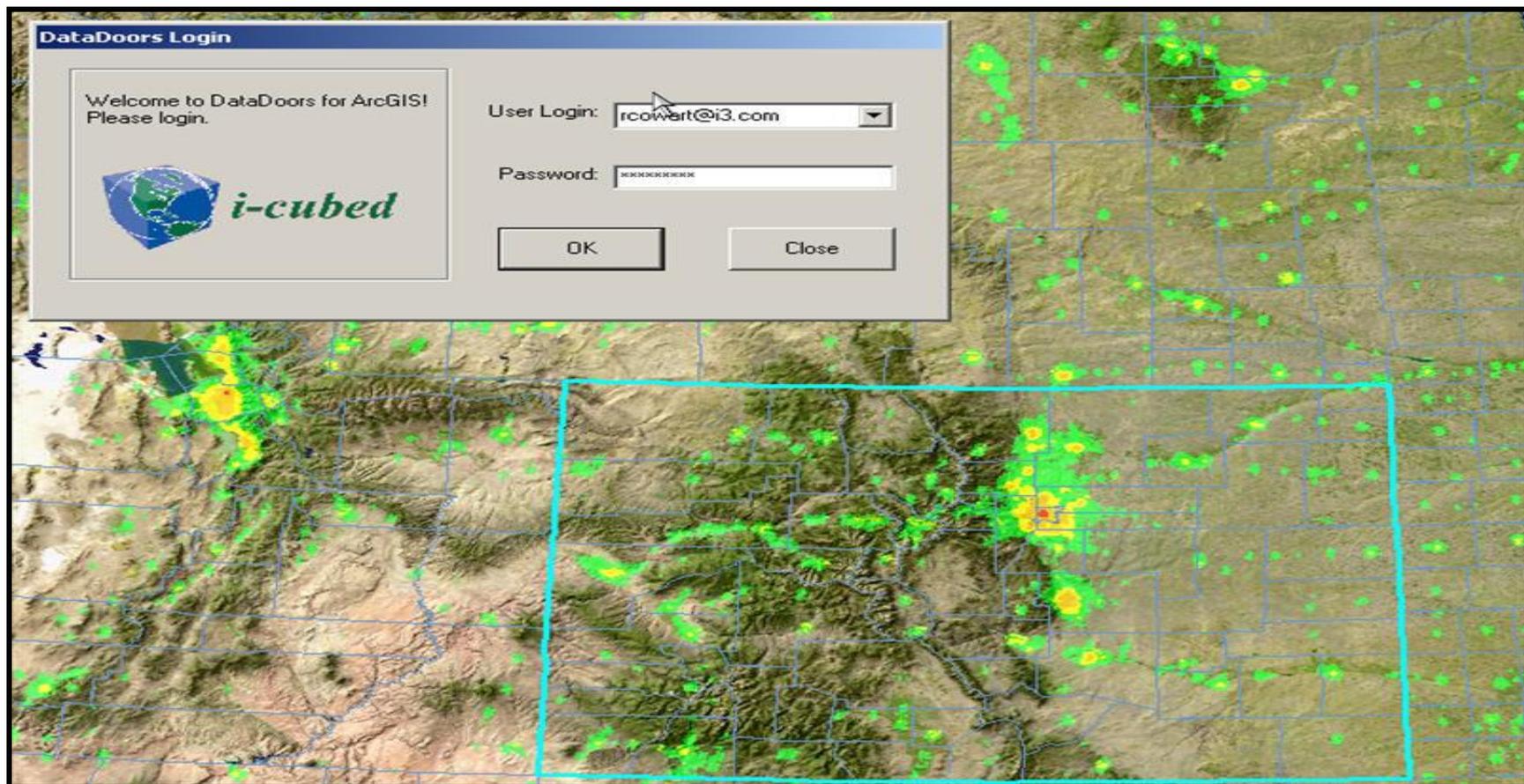
DataDoors Architectural Framework



DataDoors™ for ArcMap™



Secure Access Control



Select Data Source (Product)



The screenshot shows a software interface for selecting a data product. The window title is "DataDoors - Submit Request Wizard - Product". The main instruction is "Choose the Product you wish to request." Below this, there is a "Products" list with a tree view. The "Imagery" folder is expanded, and the "eD000 8-meter mosaic" product is selected. Below the list is a "Description" field containing the text: "Enhanced Digital Ortho Quarter Quad Mosaic, 8-meter resolution (coverage where available, updates quarterly)". At the bottom of the dialog are buttons for "Help", "Cancel", "< Back", "Next >", and "Submit". The background is a satellite map of a rural area with a cyan rectangular selection box.

Choose the Product you wish to request.

Products

- i-cubed
- Maps
- Terrain
- Imagery
 - eD000 8-meter mosaic**
 - eSAT15, Eco-Region Stretch
 - eSAT15, Nationwide Stretch
 - eSAT15, Unstretched
 - Global MODIS Mosaic

Description

Enhanced Digital Ortho Quarter Quad Mosaic, 8-meter resolution (coverage where available, updates quarterly)

Help Cancel < Back Next > Submit

Place Order!



The screenshot displays the 'DataDoors - Submit Request Wizard - Submit Data Request' window. The dialog box contains the following text:

Please review the data request. If there are any modifications that are required step back to the appropriate page to make the changes.
Click Submit to submit data request and complete process.

Request Summary

Request Summary: 2/24/2005 2:00:37 PM

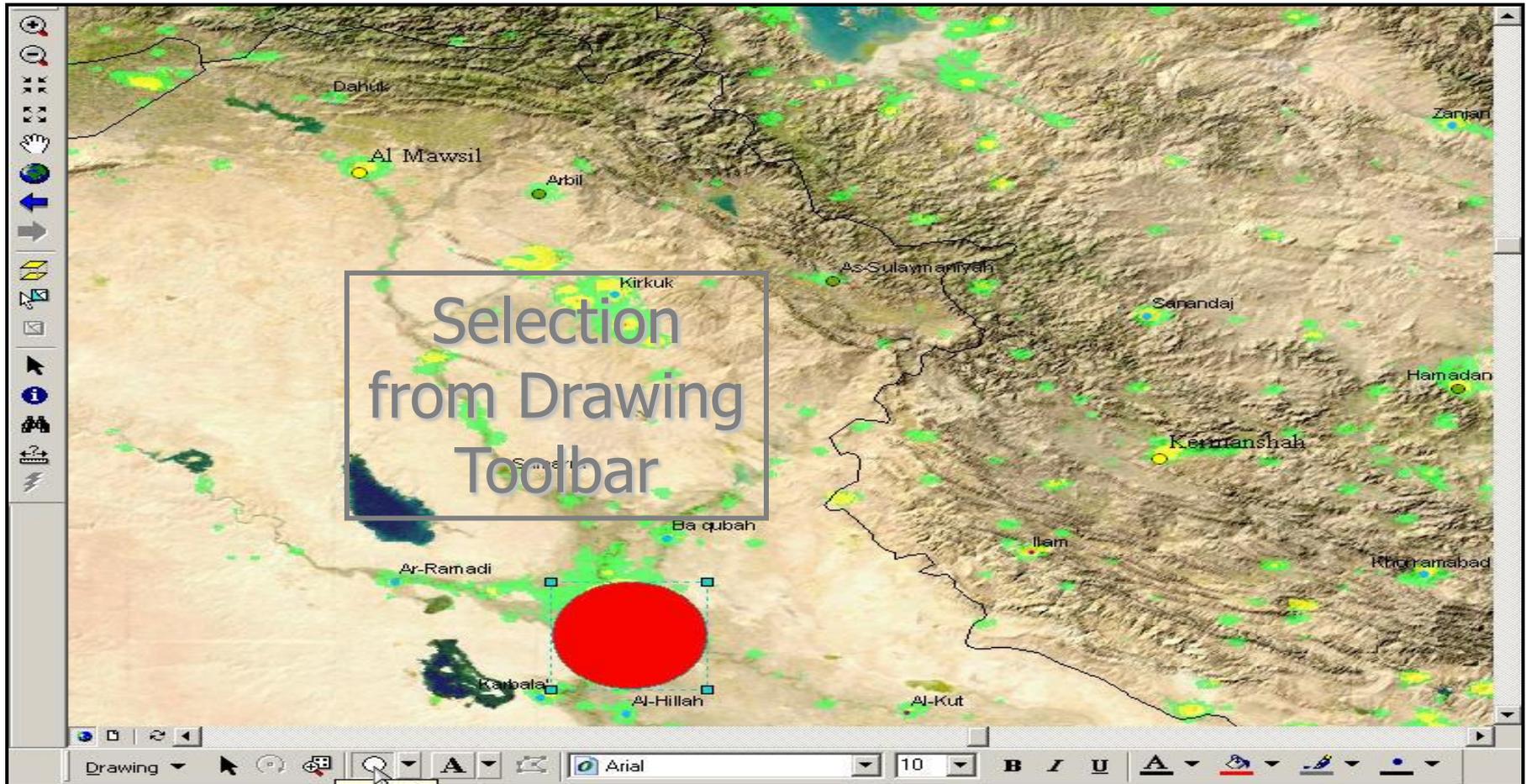
Requester: Russ Cowart - I-cubed
Total Product and Media Cost: \$2.00

End User(s):
Russ Cowart - I-cubed
970-482-4400
201 Linden Street
Fort Collins, CO
80524

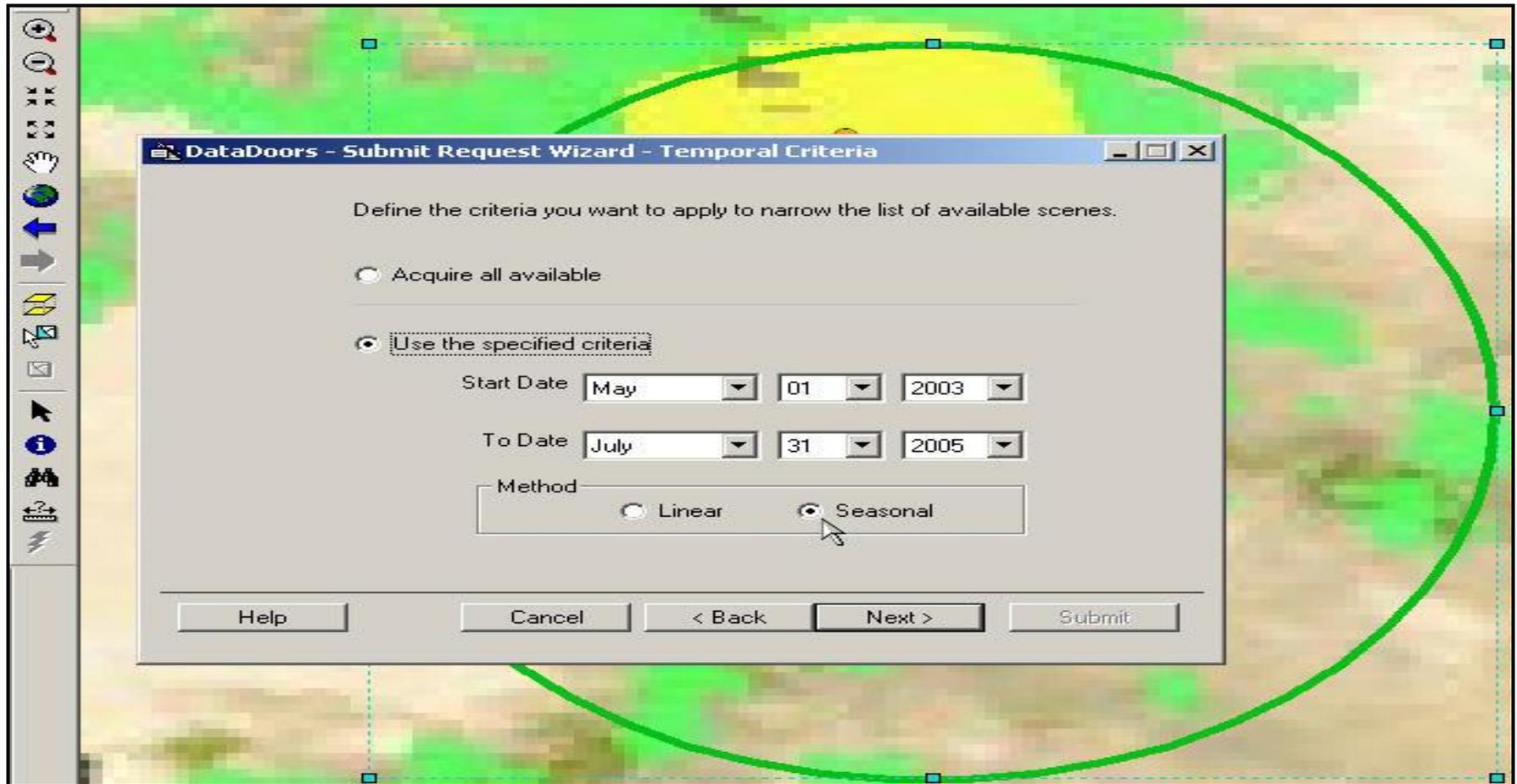
Buttons: Help, Cancel, < Back, Next >, Submit

The background shows a grid map with cells labeled R1C6, R1C7, R2C6, R2C7, R3C6, R3C7, R4C6, R4C7, R5C1, R5C2, R5C3, R5C4, R5C5, R5C6, R5C7, R6C2, R6C3, R6C4, R6C5, R6C6, and R6C7. The map features green dots and a red boundary line.

Multi-temporal, Multi-source



Filtering of Scene Selection by Date Range



Metadata List of Available Imagery



The screenshot displays a software interface for requesting imagery. On the left, a tree view shows the location 'Iraq' with sub-items 'Bagdhad_Mission', 'cntry02', and 'World Cities'. The 'cntry02' and 'World Cities' items are checked. A map of Iraq is shown in the background, with a red outline indicating the country's borders and a green line indicating a specific scene. Two inset images show satellite imagery of a river and a city area, with a blue box highlighting a specific area in the top inset.

DataDoors - Submit Request Wizard - Product Temporal

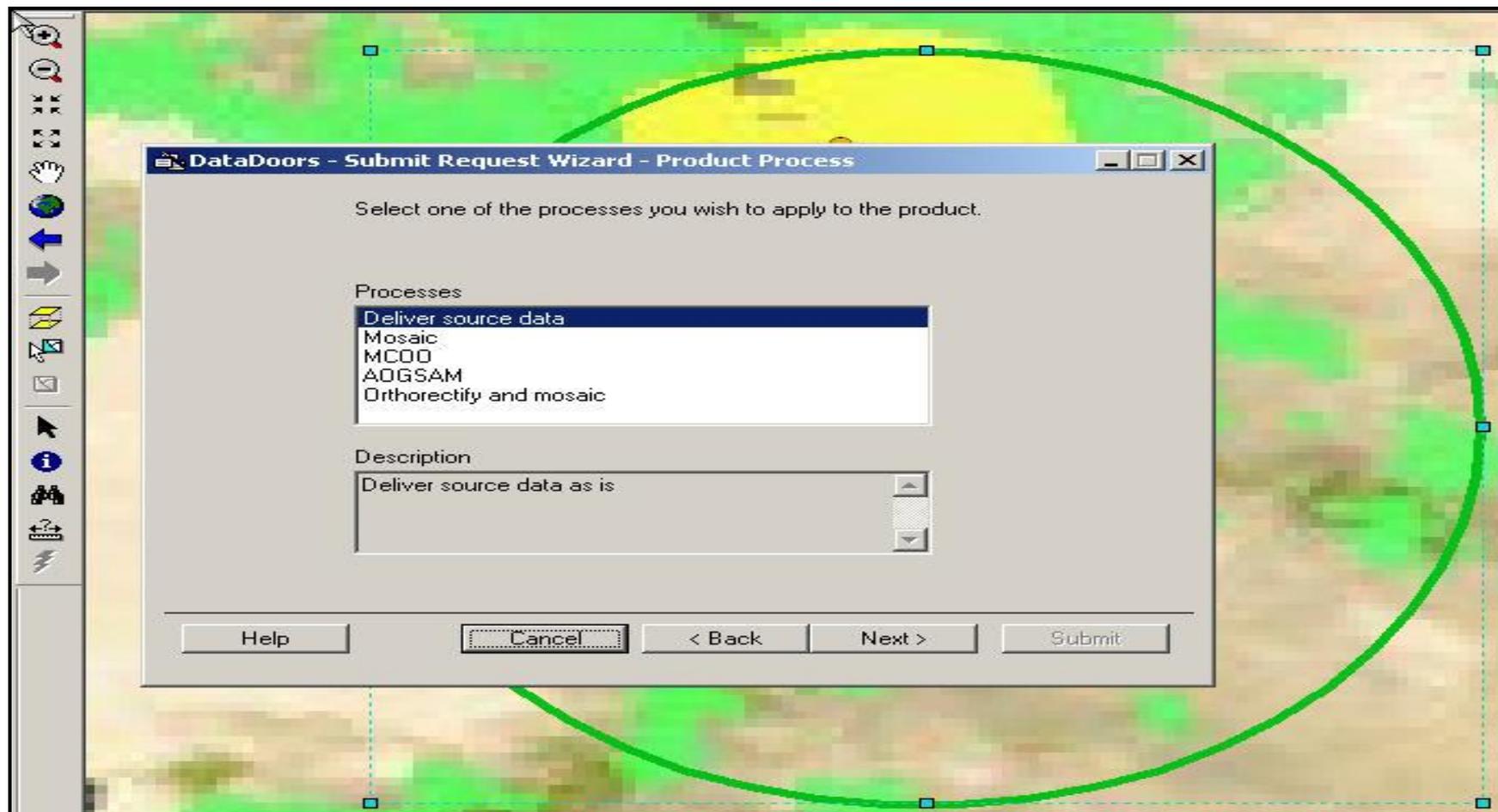
Indicate the scene you wish to request by checking on the appropriate request box.

Request	Name	Date	Footprint	Browse	Metadata
<input type="checkbox"/>	PO 105308 Component 000000	2003-01-25	<input checked="" type="checkbox"/>	<input type="checkbox"/>	available
<input type="checkbox"/>	PO 105309 Component 000000	2003-01-25	<input checked="" type="checkbox"/>	<input type="checkbox"/>	available
<input type="checkbox"/>	PO 105310 Component 000000	2003-01-25	<input checked="" type="checkbox"/>	<input type="checkbox"/>	available
<input type="checkbox"/>	PO 105982 Component 000000	2003-02-05	<input checked="" type="checkbox"/>	<input type="checkbox"/>	available
<input checked="" type="checkbox"/>	PO 106002 Component 000000	2003-02-05	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	available
<input type="checkbox"/>	PO 3664 Component 00000000	2002-04-20	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	available
<input type="checkbox"/>	PO 3739 Component 00000000	2002-04-20	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	available
<input type="checkbox"/>	PO 72791 Component 00000000	2000-07-28	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	available
<input type="checkbox"/>	PO 72791 Component 00100000	2000-07-28	<input checked="" type="checkbox"/>	<input type="checkbox"/>	available
<input type="checkbox"/>	PO 97407 Component 00000000	2002-03-07	<input checked="" type="checkbox"/>	<input type="checkbox"/>	available

Results: 21 Request all scenes: Show all footprints: Metadata... License...

Buttons: Help, Cancel, < Back, Next >, Submit

Selection of Value-Added Process



Flex / Flash Web Based GUI



DATA DOORS™ DATA ON DEMAND™

Welcome, Guest!

User Name:

Password:

Select Product

1. "Locate" or use the "Map Navigation Tools" to navigate to the vicinity of your project
2. Use the "AOI Tools" to define your AOI

Product Details

(0) Items in Order

Product	Name/ID	Date	Footprint	Browse	Current License	Upgrade License
---------	---------	------	-----------	--------	-----------------	-----------------

Locate **Map Navigation** **Area of Interest (AOI) Tools**

Scale: 1:199,670,047
Latitude: 22.08
Longitude: 12.6
UTM Zone: 33
AOI Area: No AOI

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My Order

No products selected...

Check Out

Order Name:

Shipping Info: Choose order name first

Media: Choose shipping info first

Total Cost: Need more info

Flex / Flash Web Based GUI



Welcome,
FAS User !

User Name:

Password:

[Log Out](#) [Help](#)

Select Product

- DigitalGlobe
- GeoEye
- i-cubed
- USDA FAS
 - GLCF Landsat ETM Multispectral
 - IRS RESOURCESAT-1 AWIFS Data

[Search](#) [Add to Order](#)

Locate Map Navigation Area of Interest (AOI) Tools Scale: 1:121,334
 Latitude: 42.67
 Longitude: -84.57
 UTM Zone: 16
 AOI Area: 116 km² 45 mi²

Browse for Path 20 Row 30 2002-09-09T00:00:00

[Zoom In](#) [Zoom Out](#)

My Order

Archive: **USDA FAS**

Product: GLCF Landsat ETM Multisped
 # of Items: 1
 Processing: [Choose](#)
 Format: Choose process first
 Projection: Choose format first
 Price: [\(Remove\)](#)

Check Out

[Proceed](#)

GLCF Landsat ETM Multispectral (3) ✕ (1) Items in Order

- [Remove from Order](#)
- [Zoom To Footprint](#)
- [Show All Footprints](#)
- [Show No Footprints](#)

Name/ID	In Order	Browse	Date	Footprint	Metadata	Proc. Level	Cloud Cover	Incidence An	Snow Cover	Quality	License
Path 20 Row :	yes	(View)	2002-09-09	<input type="checkbox"/>	Not Available		-	-	-	-	None
Path 20 Row :		(View)	2001-08-21	<input type="checkbox"/>	Not Available		-	-	-	-	None

ESRI Implementation



DataDoors™ for ArcGIS 2.0 Beta [About](#) | [Contact](#) | [Support](#) | [Tools for ArcGIS](#) | [Demos](#) | [Create Account](#)

Welcome, Guest!
[Log In](#) [Help](#)

1 Locate & Draw AOI

2 Select Product

1. "Locate" or use the "Map Navigation Tools" to navigate to the vicinity of your project
2. Use the "AOI Tools" to define your AOI
3. The visible map layers can be toggled on/off from the Layer List menu

[Search](#) [Add to Order](#)

3 Product Details

[Open Product Details Table](#)

4 My Order

No products selected...

5 Check Out

[Proceed](#)

Map Navigation: [Locate](#) [Map Navigation](#) [Draw AOI \(area of interest\) Tools](#)

Map Layers: [Imagery](#) [Streets](#) [Topo](#)



DataDoors for the Web

Multi-source Procurement



DATADOORS™ DATA ON DEMAND™

Welcome,
Russ Cowart!

User Name:

Password:

[Log Out](#) [Instructions](#)

Locate **Map Navigation** **Area of Interest (AOI) Tools**

Scale: 1:1,208,044
 Latitude: 38.34
 Longitude: -76.74
 UTM Zone: 18
 AOI Area: 12,190.2 sq. km.

My Order

Product: QuickBird 0.6-m Imagery
 # of items: 1
 Processing: [Choose](#)
 Format: Choose process first
 Projection: Choose format first
 Price: Not available
[\(Remove\)](#)

Archive: GeoEye

Product: IKONOS 0.8-m Imagery
 # of items: 1
 Processing: [Choose](#)
 Format: Choose process first
 Projection: Choose format first
 Price: Not available
[\(Remove\)](#)

Select Product

- ▶ Agency_X
- ▶ ArcGIS Online
- ▶ Army TEC
- ▶ DigitalGlobe
- ▶ GeoEye
- ▶ i-cubed
- ▼ Multimedia
 - ▶ Video, Photos, Documents...
- ▶ SPOT Image Corporation

[Search](#) [Add to Order](#)

Check Out

Order Name: [Choose](#)

Shipping Info: Choose order name first

Media: Choose shipping info first

Total Cost: Need more info
[Proceed](#)

SPOTS 2.5m Pan (1) X QuickBird 0.6-m Imagery (27) X IKONOS 0.8-m Imagery (54) X (4) Items in Order

	Product	Name/ID	Date	Footprint	Browse	Current License	Upgrade License
Remove Item	SPOTS 2.5m Pan	K/J 622/272	2006-10-14	✓	(View)	None	I-cubed Default Licens ▼
Zoom To Footprint	Landsat-7 USA Mosaic, Eco-Region	Not Available	Not Available	✓	Not Available	None	I-cubed Default Licens ▼
Show All Footprints	QuickBird 0.6-m Imagery	1010010000510C01	2002-04-16	✓	(View)	None	I-cubed Default Licens ▼
Show No Footprints	IKONOS 0.8-m Imagery	200000000000000000	2006-08-05	✓	(View)	None	I-cubed Default Licens ▼

DataDoors for the Web

Process / Workflow Selection



D
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Welcome,
Russ Cowart !

User Name:

Password:

[Log Out](#) [Instructions](#)

Select Product

- ▼ Spatial Energy
 - ▼ Imagery
 - [eDOQQ 8-meter mosaic](#)
 - [eSAT15, Eco-Region Stretch](#)
 - [eSAT World, Stretched Version](#)
 - [IKONOS 0.8-m Imagery](#)
 - [QuickBird 0.6-m Imagery](#)
 - [USA Nationwide Select](#)
 - ▶ Maps
 - ▶ Terrain

[Search](#) [Add to Order](#)

Product Information for IKONOS 0.8-m Imagery

Product Processes

Choose a Process

- a) EPP Standard
- b) GIS ready-4band
- c) High Positional accuracy-Natural color
- d) High Positional accuracy-4 band
- e) Raw Natural color
- f) Raw 4-band
- g) Feature extraction

Description

EPP Standard, GIS ready, natural color, mosaic, all corrections, georeferenced

[Select](#)

Product Formats

Available Coordinate Systems

Scene Pricing

My Order

Archive: Spatial Energy

Product: IKONOS 0.8-m Imagery
of items: 1
Processing: [<Click here to select>](#)
Format: Choose process first
Projection: Choose format first
Price: Not available
[\(Remove\)](#)

Product: QuickBird 0.6-m Imagery
of items: 1
Processing: [Choose](#)
Format: Choose process first
Projection: Choose format first
Price: Not available
[\(Remove\)](#)

Product Details

IKONOS 0.8-m Imagery (500) X QuickBird 0.6-m Imagery (70) X (2) Items in Order

Name/ID	In Order	Browse	Date	Footprint	Metadata	Proc. Level	Cloud Cover	Incidence An	Snow Cover	Quality	License
1010010005		(View)	2007-05-07	<input type="checkbox"/>	(View)		0	9	n/a	99	None
1010010005	yes	(View)	2007-04-06	<input type="checkbox"/>	(View)		20	23	n/a	99	None
1010010005		(View)	2007-03-07	<input type="checkbox"/>	(View)		10	10	75	99	None