

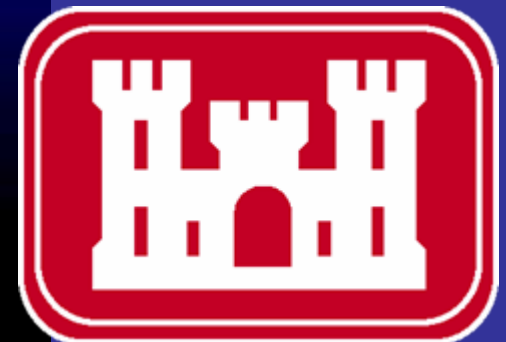
DISDI/ TIO Partnership

Patrick Easton

DISDI Liaison

TEC Imagery Office

January 10, 2006





Agenda



- **DISDI/TIO Activities Update**

- **FY06 Imagery Awards Status**
 - **Delivery Order 1**
 - **Delivery Order 2**

- **New Satellite Sensors/ NextView**

- **FY07 Target Overview**

- **Acquisition and Plan Forward**



➤ DISDI/TIO Activities Update



TEC Imagery Office Goals



“Acquire commercial satellite imagery at no cost”

Monitor and coordinate all Army commercial imagery purchases

Eliminate duplicate acquisitions

Outreach to other agencies for resource sharing





New DataDoors Accounts



DataDoors Login

Welcome to DataDoors for ArcGIS!
Please login.



User Login:

Password:

OK

Close



161 New DataDoors Accounts

85 Organizations



Support Functions



Real Property Inventory

- Provide best available satellite imagery for selected sites
- 59 delivered to date
- Ranges difficult

Ad Hoc Request

DISDI Validated Requirements

- DTRA
- MDA

BRAC Support





NGA Commercial Imagery Partnership



NGA validated COI I&E requirements for imagery

- Fully Funded 76 AOIs in 2 RFPs
- Allowed submission of 50 more sites for 3rd RFP (FY06) (June)

NGA FY07 Funding

- **DISDI solicited services to provide more targets for 07'**

NGA provided awareness on commercial imagery products which may be used to satisfy image requirements

- City Sphere
- US/Mexican Border
- US/Canadian Border
- Nuclear Sites
- Others

Deconflict image request

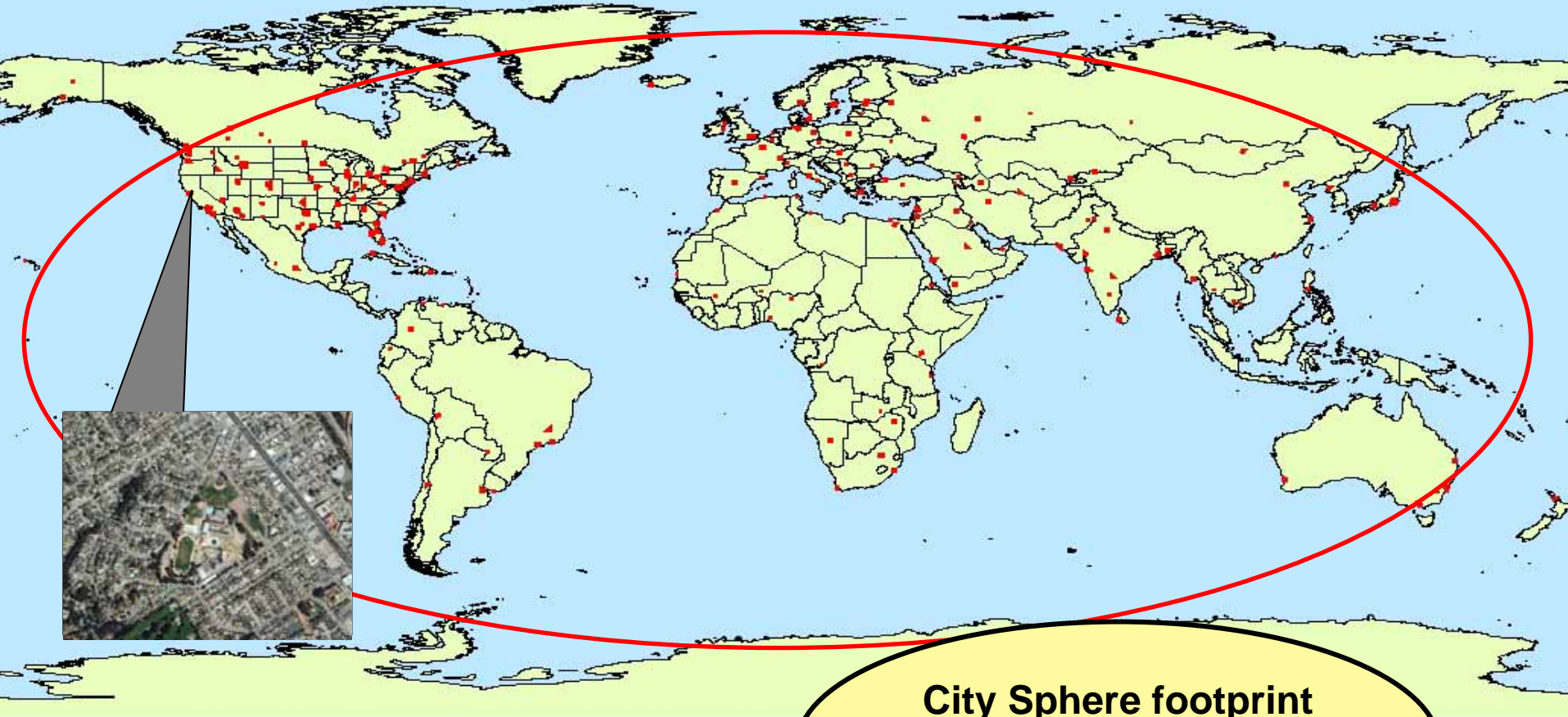
- Combines footprints where necessary

Collaboration with other organizations





CitySphere



City Sphere footprint satisfies many of our FY07 requirements

200 – Worlds largest cities
60cm - QuickBird
Orthorectified
Some images only 6 months old

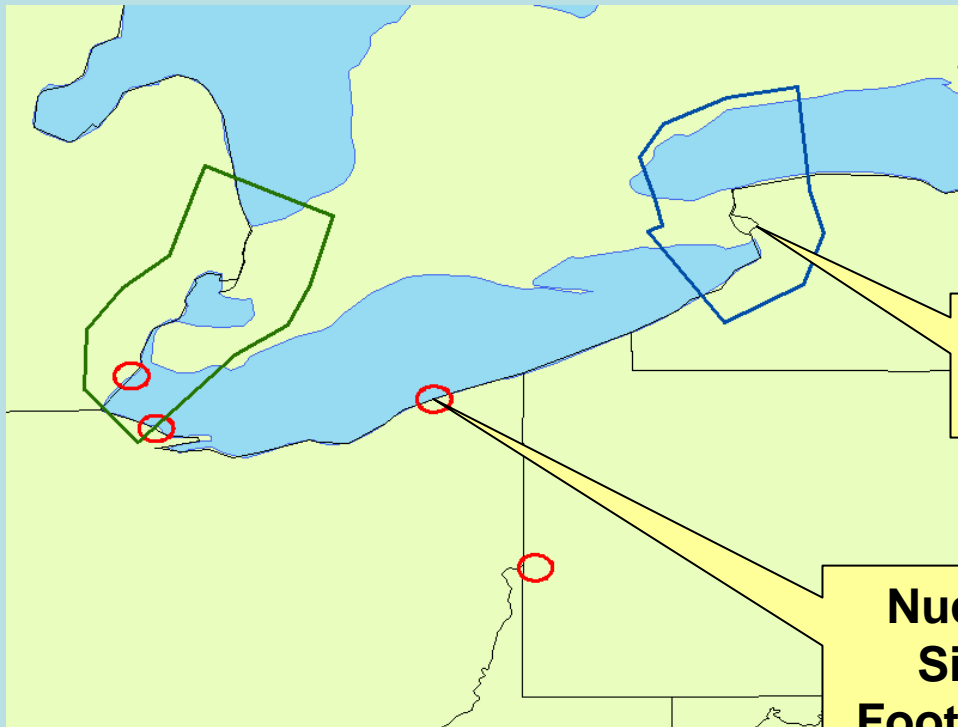
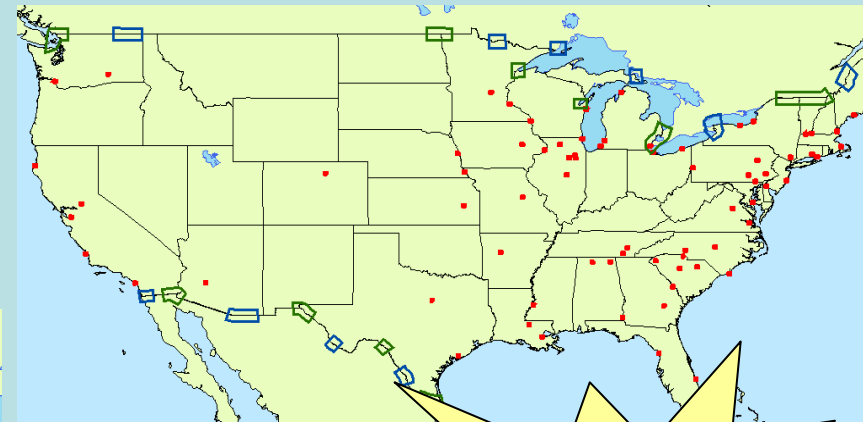




US/Mexico Border Imagery and Nuclear Sites Ortho Award



- Orthomosaic
- Pan-sharpened
- IKONOS and QuickBird
- New imagery being acquired



**Border
Footprints**

**Nuclear
Sites
Footprints**

58% Complete

**Satisfies many
FY07
requirements**



USGS Activity



DISDI/NGA image collections

- Commercial Remote Sensing Space Policy (CRSSP)
- CRRSP Imagery-Derived Requirements (CIDR) Entry Tool

133 Cities Imagery

- NCR Imagery

New contacts and partnerships

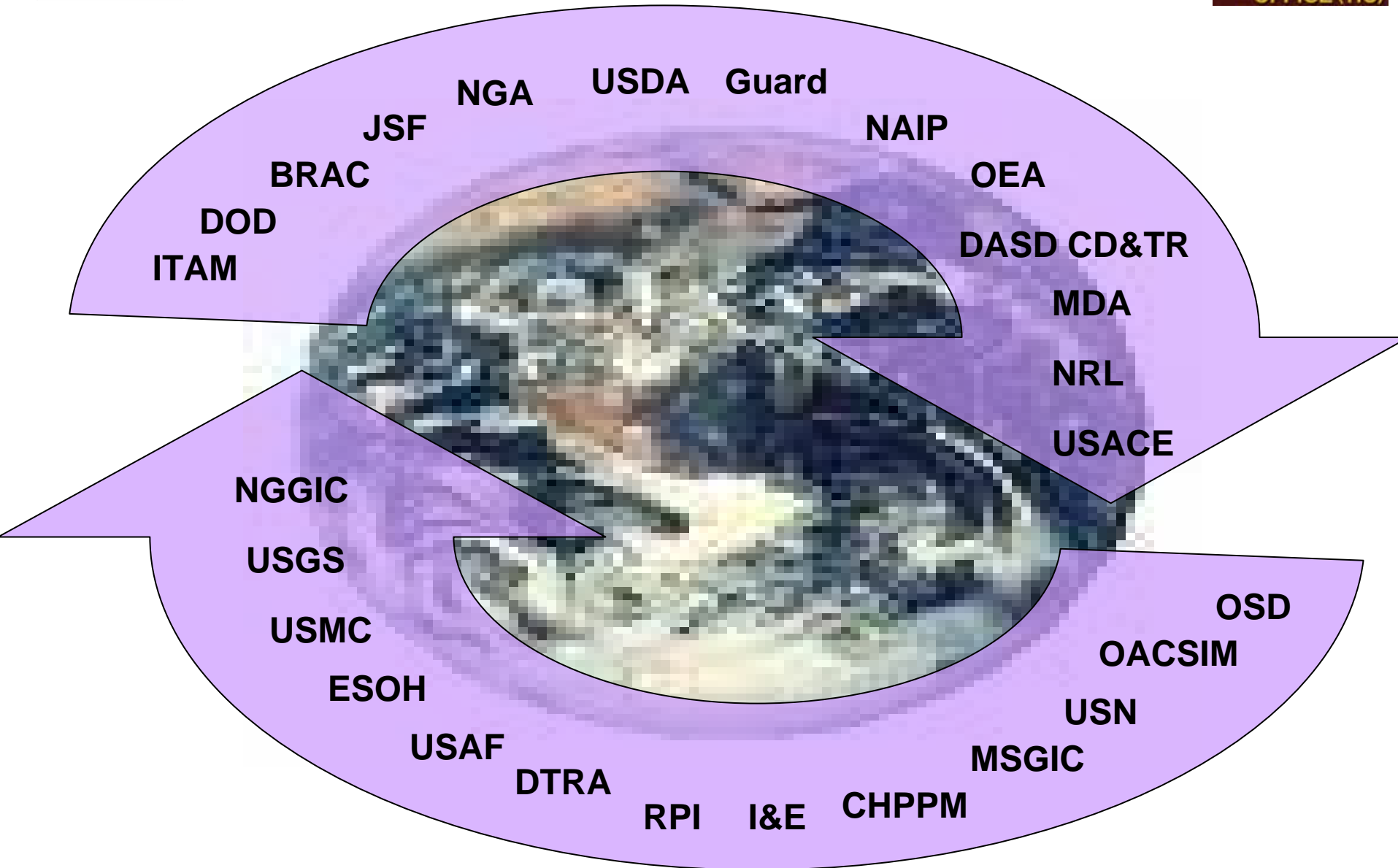
- State teaming opportunities

**USGS - an
immense interface
with the
states/locals**





DISDI Collaboration





➤ **FY06 Imagery Delivery Order Status**



RFP 1 – Delivery Status



AOI #	Service	Installation Name	Upper Right	Lower Left	Delivery Status	SI Work Order	NGA Delivery Order	NGA Line Item
38	USMC	MCB Camp Butler (Okinawa)	26.92N 128.37E	26.04N 127.61E			DO-008	38
39	USMC	MCB Barstow	34.93N 116.81W	34.81N 117.01W		113248	DO-008	39
40	USN	Norfolk and Oceana NAS	36.98N 75.95W	36.97N 76.40W			DO-008	40
41	USN	Atsugi Main Base, Japan	35.47N 139.46E	35.46N 139.46E			DO-008	41
42	USN	Yokohama North Dock, Japan	35.48N 139.66E	35.46N 139.66E			DO-008	42
43	USAF	Mihail Kogalniceanu	44.46N 28.57E	44.46N 28.57E			DO-008	43
44	USAF	Graf Ignatievo	42.39N 24.80E	42.39N 24.80E			DO-008	44
45	USN	Rota, Spain	36.67N 06.27W	36.67N 06.27W		113254	DO-008	45
46	USN	Astakos, Greece	38.54N 21.18E	38.54N 21.18E			DO-008	46
47	USA	Camp Shelby	31.22N 88.81W	31.22N 88.81W		113256	DO-008	47
48	USA	Camp Stanley	37.74N 127.12E	37.70N 127.12E			DO-008	48
49	USA	Camp Jackson	37.72N 127.06E	37.68N 127.06E			DO-008	49
50	USA	Camp Bonifas/Camp Howze/Camp Greaves/Bullseye 1	37.99N 126.90E	37.71N 126.70E			DO-008	50
51	USA	Camp McCain	33.76N 89.61W	33.67N 89.76W		113259	DO-008	51
52	USAF	Moody AFB	31.02W 83.13N	30.93N 83.22W		113260	DO-008	52
53	USA	Ft. George Meade	39.14N 76.70W	39.06N 76.79W		113261	DO-008	53
54	USAF	Hurlburt Field	30.46N 86.65W	30.40N 86.75W		113262	DO-008	54
55	USMC	MCLB Albany	31.59N 83.97W	31.51N 84.13W		113263	DO-008	55
56	USN	Guam	13.68N 145.00E	13.20N 144.61E			DO-008	56
57	USAF	McChord AFB	47.17N 122.44W	47.08N 122.55W		113265	DO-008	57
58	USA	Camp Hovey	37.95N 127.15E	37.88N 127.05E			DO-008	58
59	USMC	MCB Quantico	38.67N 77.25W	38.44N 77.61W		113267	DO-008	59
60	USN	Naval Air Station Corpus Christi, TX	27.73N 97.27W	27.66N 97.36W		113268	DO-008	60
61	USA	Tango	37.44N 127.09E	37.41N 127.04E			DO-008	61
62	USMC	MCAS Beaufort and MCRD Parris Island	32.54N 80.63W	32.27N 80.85W		113270	DO-008	62
63	USN	Saipan	7.83N 134.75E	7.2N 134.38E			DO-008	63
64	USMC	Blount Island Command	30.44N 81.47W	30.36N 81.58W		113272	DO-008	64
65	USA	Camp Mindon	32.69N 93.31W	32.53N 93.49W		113273	DO-008	65
66	USN	NAVSTA Newport	41.61N 71.22W	41.48N 71.37W		113274	DO-008	66
67	USA	Pyeongtaek CPX Area	37.22N 127.30E	37.19E 127.27N			DO-008	67
68	USA	Camp Carroll	35.38N 128.65E	35.33N 128.60E		113276	DO-008	68
69	USMC	MCRD San Diego	32.77N 117.14W	32.68N 117.27W		113277	DO-008	69
70	USN	NSWC Indian Head	38.62N 77.13W	38.52N 77.26W		113278	DO-008	70
71	USA	MCAS Yuma	32.76N 114.50W	32.54N 114.74W		113279	DO-008	71

**65%
Complete**



RFP 1 – Outstanding Areas



Okinawa

6 of 7 Images Complete

Guam

2 of 4 images complete

Astugi Main Base

In Production

Saipan

In Production

Yokohama North Dock

In Production

Graf Ignatievo

In Production

Camp Jackson

Collection Pending

Bonifas/Howze/Greaves/Bullseye 1

Collection Pending

Camp Hovey

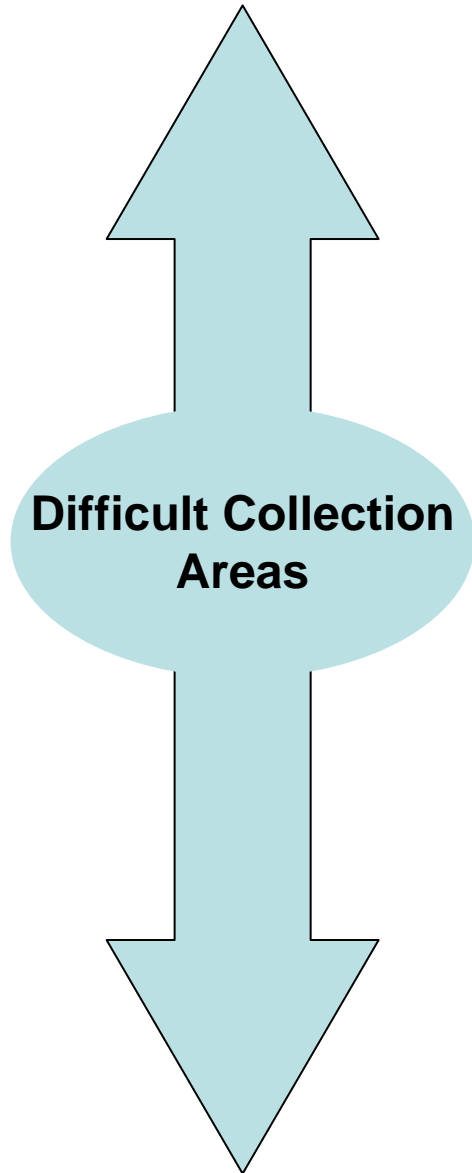
Collection Pending

Tango

Collection Pending

Pyongtaek

Collection Pending





RFP 2 – Delivery Status



AOI #	Service	Installation Name	Sqkm	Upper Right	Lower Left	Status	Image Date	GeoEye	DigitalGlobe	NGA Order	Image Res
1	USA	Pinion Canyon	1,967.98	37.66N 103.56W	37.33N 104.18W		07-Sep-06, 04-Oct-06	00119841			1-meter
2	USN	Diego Garcia	680.58	7.21S 72.54E	7.48S 72.33E						1-meter
3	USAF	Jackson IAP	26.40	32.34N 90.06W	32.28N 90.1W		17-Oct-06		5571780		60cm
4	USA	Camp Humphreys/Pyongtaek CPX Area	46.96	36.99N 127.08E	36.93N 127.00E		28-Feb-06	00119843			1-meter
5	USN	NAVSUPACT Crane	530.59	38.93N 86.66W	38.72N 86.92W						60cm
6	USA	Camp Zama	29.87	35.53N 139.42E	35.47N 139.37E		14-Apr-05, 31-Aug-06				60cm
7	USN	Submarine Base New London CT	17.55	41.41N 72.05W	41.37N 72.1W						60cm
8	USN	MCM/TC Bridgeport	836.21	38.52N 119.41W	38.22N 119.70W		25-Sep-06				1-meter
9	USA	Vicenza Fam Hsg/Camp Ederle/ Load Storage	60.83	45.57N 11.61E	45.49N 11.52E						60cm
10	USN	NAS Kingsville, TX	155.25	27.56N 97.74W	27.44N 97.87W		13-Apr-04				1-meter
11	USMC	MCAS Miramar	673.19	32.98N 116.94W	32.80N 117.3W		06-Oct-05, 22-Jan-06				60cm
12	USA	Livorno Supply Maint Area/Livorno Trn/Pisa Ammo	62.03	43.67N 10.38E	43.59N 10.29E		07-Jan-05, 08-Feb-05				60cm
13	USN	NSWC Dahlgren, VA	62.29	38.37N 77.0W	38.28N 77.08W						1-meter
14	USMC	Camp Pendleton	1,565.66	33.54N 117.22W	33.17N 117.64W						60cm
15	USA	Camp Beauregard	34.00	31.4N 92.35W	31.36N 92.42W						60cm
16	USN	Naval Air Station Jacksonville, FL	154.20	30.27N 81.59W	30.19N 81.77W						60cm
17	USMC	Townsend Range	169.75	31.61N 81.51W	31.49N 81.66W		13-Oct-06		5571736		60cm
18	USA	Camp Villere	24.21	30.35N 89.78W	30.3N 89.83W						1-meter
19	USN	Boardman Naval Bombing Range, Oregon	1,209.69	45.85N 119.36W	45.6N 119.93W		25-Sep-06, 01-Oct-06	00119848		9	1-meter
20	USMC	MCAS Iwakuni	306.27	34.22N 132.33E	34.06N 132.14E		6-Jun-05		5573745		60cm
21	USA	Fort Sam Houston	57.94	29.49N 98.4W	29.43N 98.48W		8-Nov-06	00119849			1-meter
22	USN	Patuxent River Main Site, MD	56.09	38.31N 76.37W	38.25N 76.46W		9-Sep-06	00119850		9	1-meter
23	USA	Camp Ames	13.99	36.44N 127.47E	36.41N 127.43E		30-Oct-04		5573749		60cm
24	USA	Site Richmond	11.14	36.31N 127.5E	36.28N 127.46E						60cm
25	USA	Site High Point	9.89	36.81N 127.23E	36.78N 127.19E		1-May-06		5575295		60cm
26	USMC	Camp Fuji	584.18	35.477N 138.715E	35.213N 138.938E						60cm
27	USMC	MAGTFTC Twentynine Palms Cantonment Area	1,358.62	34.366N 116.304W	34.111N 115.777W		30-Sep-06, 19-Oct-06	00119851			1-meter
28	USMC	MCB Camp Lejeune / MCAS New River	1,526.75	34.765N 77.663W	34.472N 77.144W			00119852			1-meter
29	USMC	MCAS Cherry Point	383.67	34.997N 76.955W	34.8N 76.764W					9	60cm
30	USMC	MCOLF Oak Grove	11.97	35.038N 77.282W	35.007N 77.244W		5-Jul-06		5575330		60cm
31	USMC	MCALF Bogue	60.97	34.721N 77.073W	34.65N 76.989W		4-Aug-04	00119853			1-meter
32	USMC	Point of Marsh (BT-11)	115.69	35.084N 76.504W	34.953N 76.419W		29-Apr-06		5571784		60cm
33	USMC	MCOLF Atlantic	15.99	34.912N 76.373W	34.875N 76.33W						60cm
34	USMC	Brant Island (BT-9)	2.25	35.217N 76.453W	35.204N 76.436W		17-Sep-06	00119854		9	1-meter
35	USMC	Cat Island	4.00	34.693N 76.965W	34.676N 76.94W		28-Aug-06		5571786		60cm
36	USMC	Maw Point	16.98	35.166N 76.567W	35.131N 76.519W		17-Sep-06	00119855			1-meter
37	USMC	Pamlico Point	5.43	35.32N 76.502W	35.301N 76.473W		9-Sep-06	00119856		9	1-meter

**81%
Complete**



RFP 2 –Outstanding Areas



NAVSUPACT Crane

In Processing

Submarine Base New London

In Processing

Vicenza Fam Hsg/Camp Ederler

Complete

Camp Pendleton

Complete

Camp Beauregard

Complete

Naval Air Station Jacksonville

In Processing

Site Richmond

Collection Pending

Camp Fuji

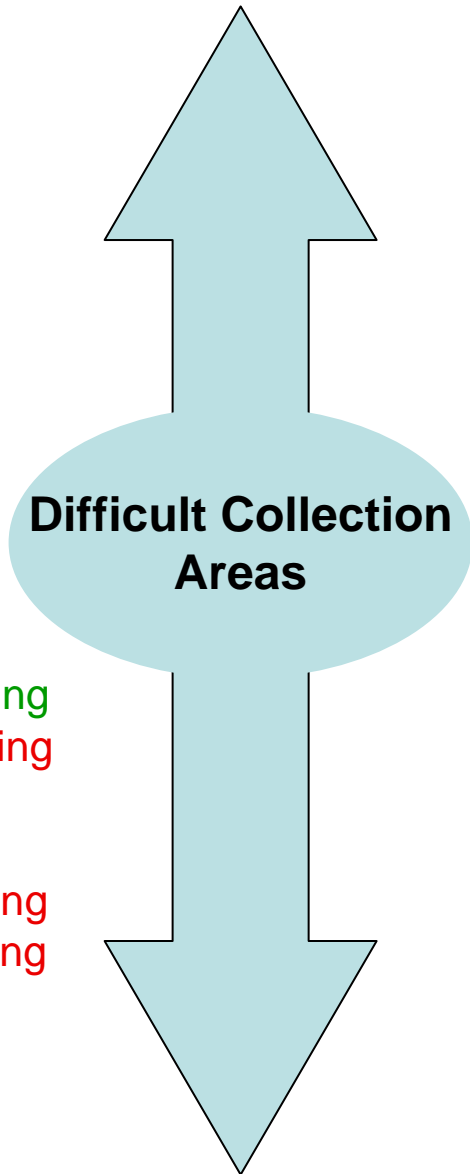
Collection Pending

MCAS Cherry Point

Collection Pending

MCOLF Atlantic

Collection Pending





Imagery Sharing



AOI Request	Square Kilometers	Imagery Product Delivered	Sharing Resource	License	TEC IO POC	Delivery Date	Estimated Cost Avoidance
	SQKM	(GSD, Resolution, Sensor)	(CSIL, TEC IO Archive, etc)	Title 50, Clearview, NextView			
Naval Air Station JRB New Orleans, LA	136.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		2,038.00
Vandenberg Air Force Base, CA	1,456.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		
Nellis Air Force Base, NV	290.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		
Hill Air Force Base, UT	386.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		
Fort Sam Houston, TX	12.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		\$ 7,951.00
Fort Hood, TX	416.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		\$ 27,498.00
Army							
Fort Carson	106.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		\$ 7,137.00
Fort Polk	194.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		\$ 12,702.00
Fort Huachuca	116.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		\$ 7,787.00
Fort McCoy	100.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		\$ 6,589.00
Stanley R. Michelson Missile Site	100.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		\$ 6,603.00
Air Force							
Barksdale AFB	416.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		\$ 27,445.00
March ARB		IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		
Cannon AFB	96.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		\$ 6,048.00
Minot AFB	246.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		\$ 16,141.00
Navy							
NAS Kingsville	106.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		\$ 6,930.00
NAVSTA San Diego	80.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		\$ 5,453.00
Naval Air Station Corpus Christi	164.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		\$ 10,733.00
NB Point Loma	146.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		\$ 9,790.00
NAS Fallon	106.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		\$ 7,174.00
NAVWPNSTA Seal Beach	116.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		\$ 7,825.00
NSWC Corona							
Marine Corps							
MCAGCC Twenty-Nine Palms	2,836.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		\$ 185,718.00
MCLB Barstow	10.00	IVT IKONOS Coverage	IVT	DoD Title 50	Patrick Easton		\$ 6,609.00
NSWC Indian Head		1-meter IVT	IVT	Title 50	Patrick Easton	22-Aug-06	\$ 7,865.00
Baltimore Inner Harbor							
Camp Shelby				Title 50	Patrick Easton	28-Aug-06	\$ 7,515.00
Fort Hood							

Cost Avoidance



Successful Checks and Balances
Heightened Awareness
Quick turn for single request

2004 -\$13,842,000
2005 -\$16,948,000

\$17,392,656



FY07 Image Footprints and Path Forward



FY07 Footprint Submissions



Allowed no ceiling to the number of AOIs

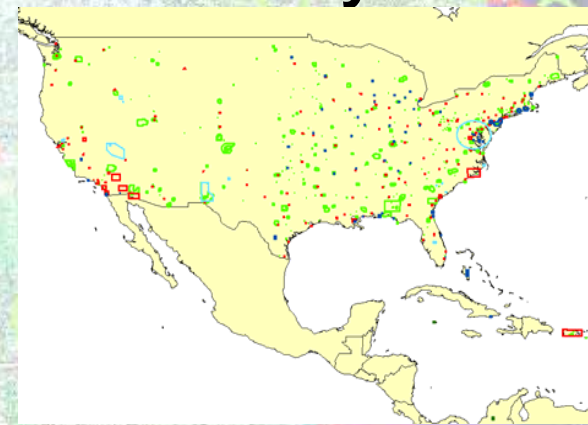
- Services encourage to submit as many as possible

Services submitted over 1,440 AOIs to DISDI

- Over 250 sites satisfied with existing ortho imagery
- Over 400 coincident sites deconflicted by DISDI

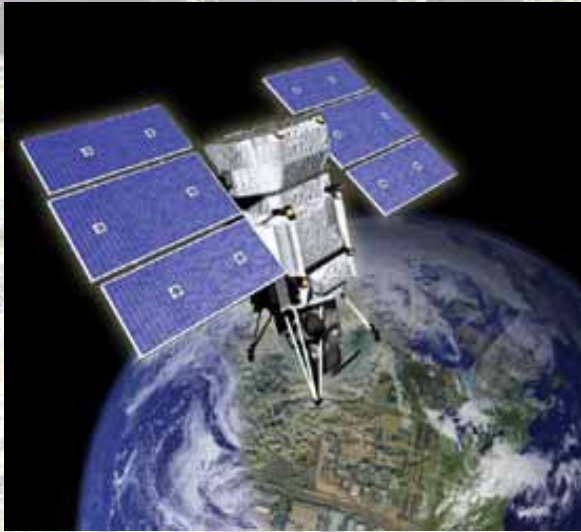
Imagery AOIs totaling over 1,000,000 sq km

NGA to push 1st requirements forward – late January





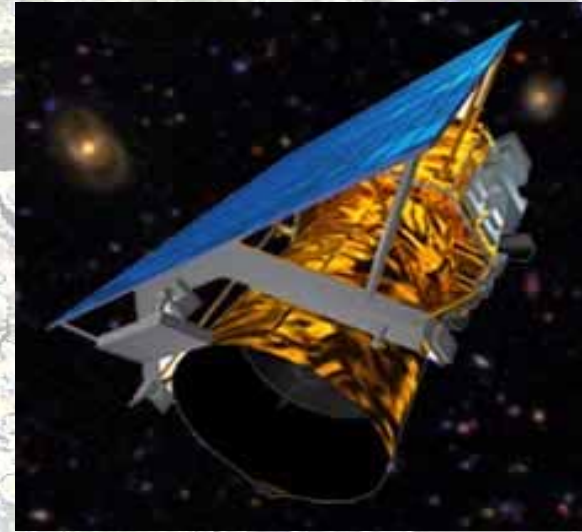
NEXTVIEW Systems



DigitalGlobe's WorldView

41 cm Pan

<http://www.digitalglobe.com/about/worldview1.html>



GeoEye's GeoEye-1

41 cm Pan

http://www.orbimage.com/corp/orbimage_system/ov5/index.html



NextView Capabilities



Expected benefits

- Next generation imagery .42 cm pan (half meter imagery)
- Increased daily area collection
- Increased year output
- Improved timelines from tasking to receipt
- Reduced prices for imagery and derived products
- Broader licensing agreements



FY07 Path Forward



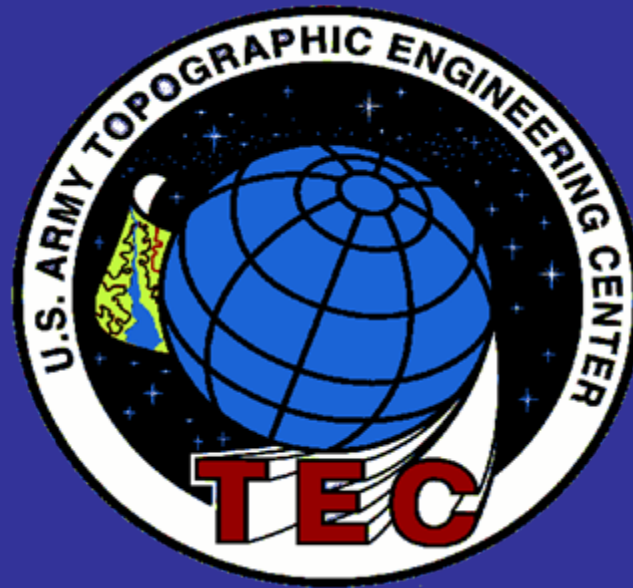
- **Increased teaming with NGA, USGS, States, Locals**
 - Project Product Awareness
 - NGA Representatives
 - USGS Regional POCs

- **Discover alternative sources of commercial imagery/aerial imagery**
 - Continue to search for aerial sources

- **Work with the Services to devise a refresh acquisition strategy**
 - Master footprint submission
 - “Automatic deck”
 - Regionalized collections



Questions/Comments?





TEC IO Contact Information



For more information please contact:

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