



"We don't know what we need to know"

# Dilbert

By Scott Adams

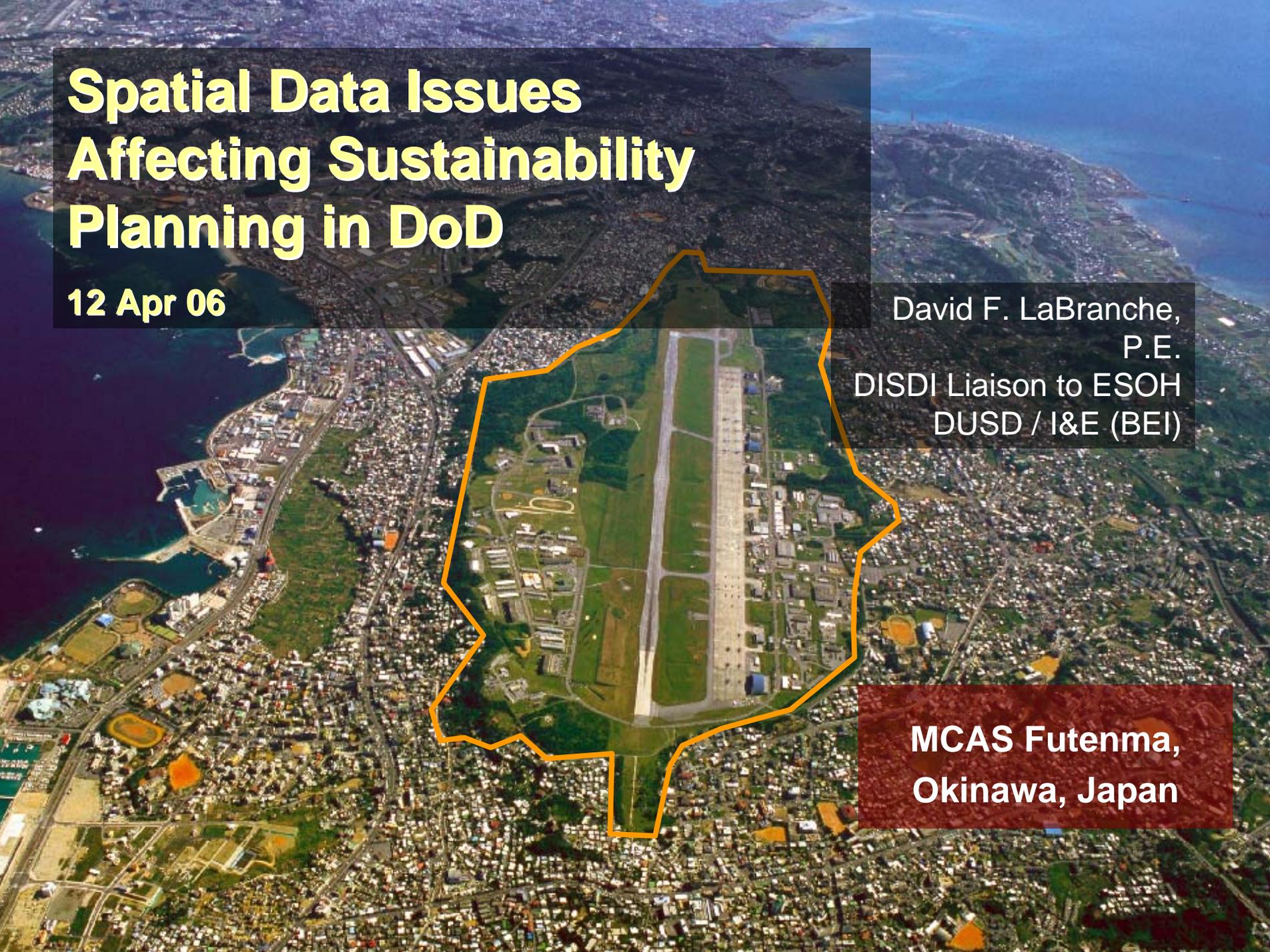


# Spatial Data Issues Affecting Sustainability Planning in DoD

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# *What is the Defense Installation Spatial Data Infrastructure (DISDI)?*

“A DoD mission capability comprised of those **people, policies, and practices** necessary to acquire, steward and share **installation, environmental, and range** spatial data assets for defense, federal and national goals”



# DISDI - Aligned

# to Implement Business Transformation

RP&ILM and IRB Governance

Enterprise Integration



**“We need to organize ourselves to operate within the reality of many plans, many actors.”**

Integration

Integration

Integration

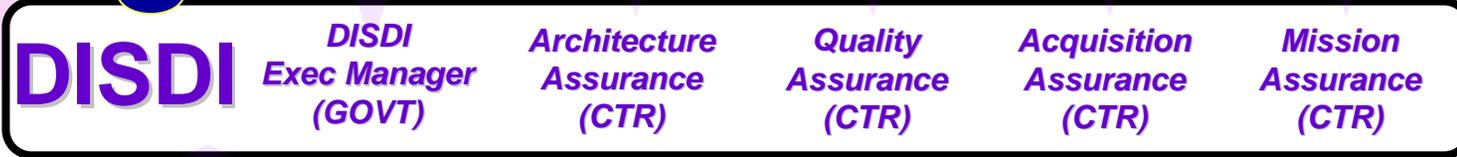
Integration

Integration



Topographic Engineer Center (ERDC) Imagery Office

Information Technology Lab (ERDC) CADD/GIS Technology Center



# ***Aligning DISDI Objectives to Assure the Defense Mission***

## **Mission Assurance Objectives**

### **Dimension**

Acquisition  
Architecture  
Information  
Quality  
Sustainment

### **Goal**

“Acquire Once... Share Many”  
“One Enterprise...One Architecture”  
“Maximize Leverage... Minimize Risk”  
“Standards-Based Stewardship”  
“From Awareness to Adoption”





# ***DISDI Capabilities to Support Data Discovery and Sharing Objectives***

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- Reduce data discovery and access “chaos” by allowing stakeholders to ...
  1. **Strategic Viewer** – View high-level (“strategic”) maps of installations via a strategic viewer
  2. **Metadata Portal** – Discover availability and fitness of use of installation geospatial data by searching a metadata portal
  3. **Data Access** – Access and obtain more detailed installation geospatial data from the Service repositories
    - Single access point via DISDI Portal for DoD organizations (COCOMS, Defense Agencies, OSD)

# OFFICE OF THE DEPUTY UNDER SECRETARY OF DEFENSE INSTALLATIONS AND ENVIRONMENT DISDI Portal



- Home
- Viewer
- Zoom To
- Metadata
- Results
- Services
- Help
- Feedback

### Installation Locations ▲

- Installation and Range Locations
- Base Structure Report
- Formerly Used Defense Sites

### Installation Layers ▲

- Installation Boundaries
- Noise Zones
- Accident Potential Zones
- Floodplains (100 Year)
- Wetlands
- Runways

### Range and Training Layers ▲

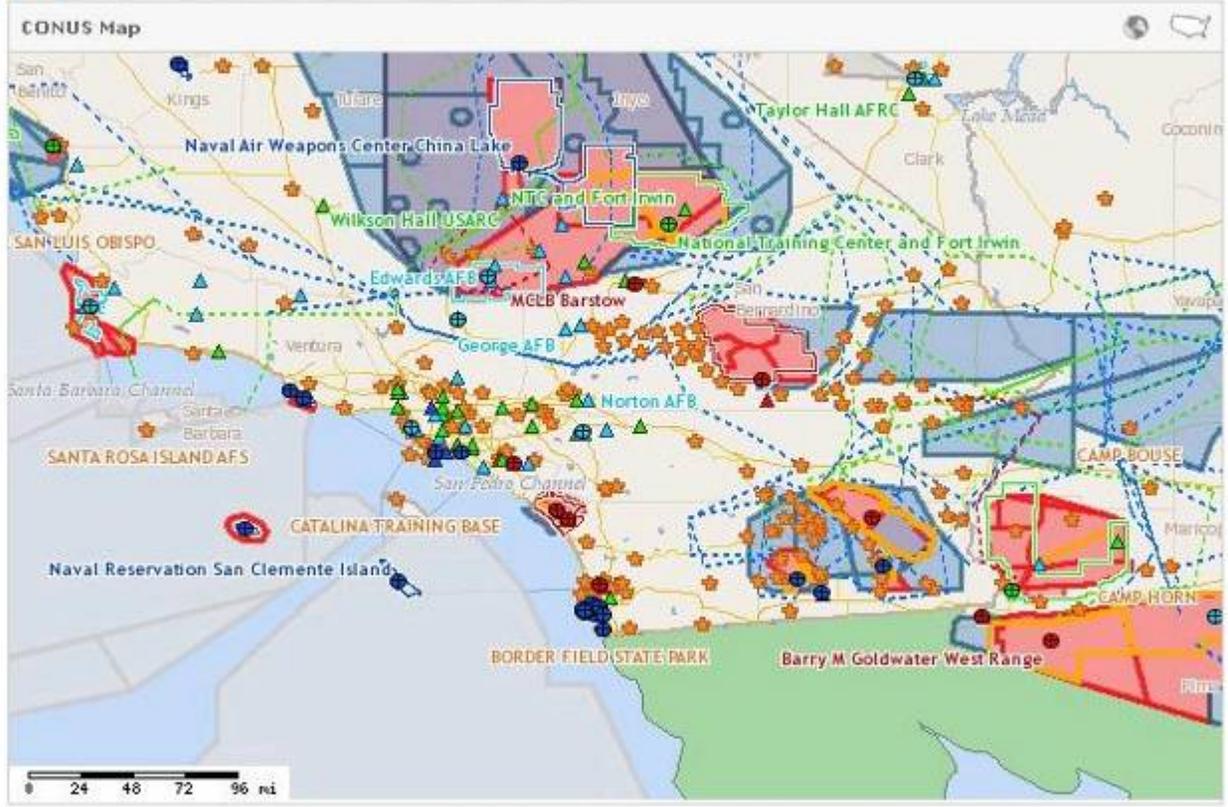
- Range Complex Boundaries
- Special Use Airspace - Low Altitude
- Special Use Airspace - High Altitude
- Military Training Route

### Imagery ▲

- Blue Marble
- Natural View
- IVT

### Environmental Layers ▼

### Reference Layers ▼



Lat:  Lon:

Scale 1:  Go

Zoom to Major Installation, Site or Range:

Use "Zoom To" Tab for complete list of installations & ranges

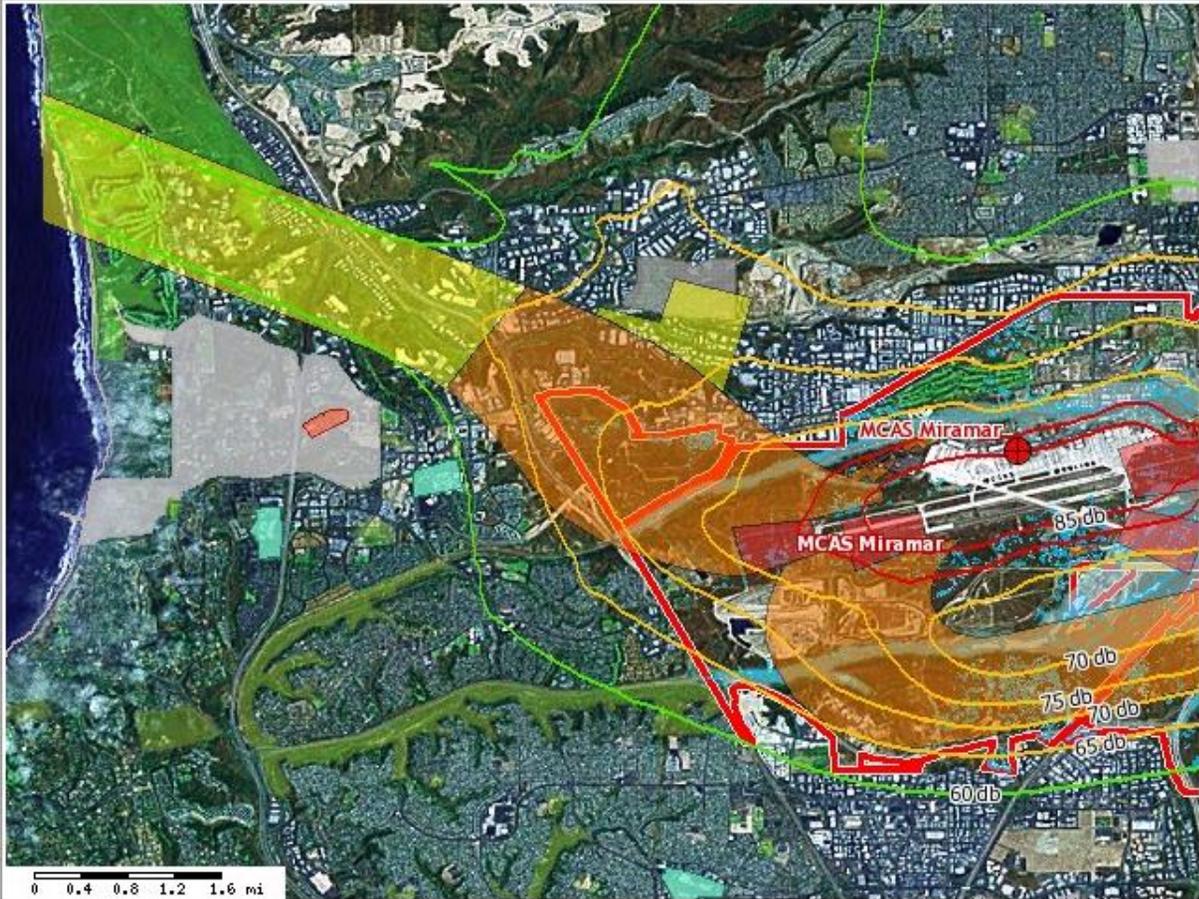
### Reference Map



### Legend

- Air Force
- Army
- Marine Corps
- Navy
- Washington Headquarters Services
- Air Force
- Army
- Marine Corps
- Navy
- Washington Headquarters Services
- FUDS Property
- Air Force
- Army
- Marine Corps
- Navy
- Washington Headquarters Services
- Range Complex Boundaries
- Instrument Route
- Slow Route

### West Side of MCAS Miramar, CA



0 0.4 0.8 1.2 1.6 mi

### LEGEND

- N
- Air Force
- Army
- Marine Corps
- Navy
- Washington Headquarters Services
- Less than 65 db
- 65 - 75 db
- Greater than 75 db
- Clear Zone (CZ)
- Accident Potential Zone I (APZ1)
- Accident Potential Zone II (APZ2)
- Wetlands
- 100 Year
- 500 Year
- Range Complex Boundaries
- US Air Force
- US Army
- US Marine Corps
- US Navy
- Defense Logistics Agency



Print Close

- Installat
- Major
- Bas
- Forr
- Def
- Installat
- RPI
- RPI
- Inst
- Nois
- Acci
- Floo
- Wet
- Range ar
- Environn
- Referenc
- Ima
- US :
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- and
- Alas
- Rec
- 200
- Ame
- Trit
- 200
- US :
- Dis
- Roa
- Rail
- Mai

# E-Gov

## Geospatial One-Stop Architecture

2. Access GOS to assess whether I&E spatial record(s) even exists

1. Interest in defense I&E spatial data

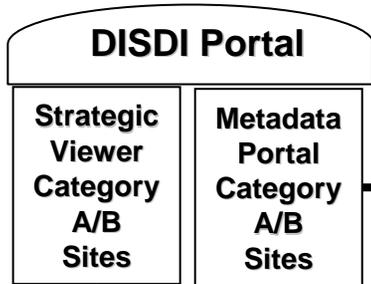
DISDI Spatial Metadata Records for Category A Sites

3. If the record(s) exists, submit request using existing protocols

4. If the request may be satisfied IAW policies, Service will coordinate with their DISDI program element to satisfy public interest



.mil domain



Strategic Imagery & Data

Spatial Record Metadata



USA Imagery/Data/Metadata



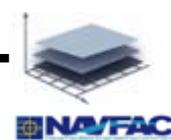
USAF Imagery/Data/Metadata



USN & USMC Imagery/Data/Metadata



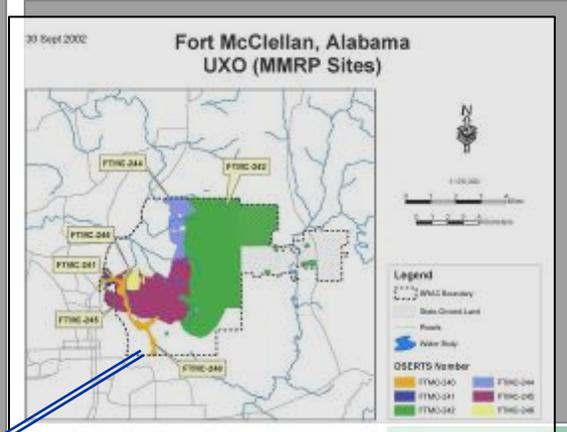
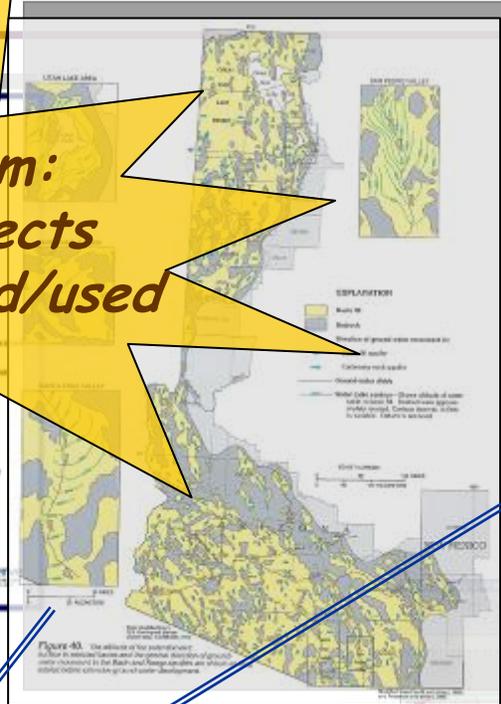
GEO READINESS





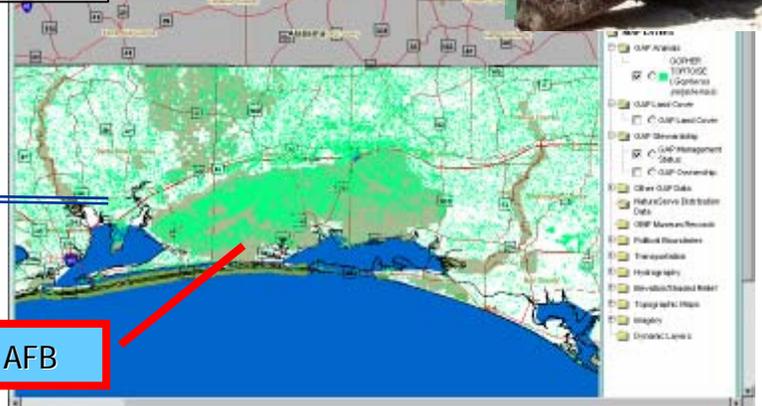
# Leveraging Existing Investments for the DoD Mission

**LEGACY Program:**  
144 of 385 projects  
since 2000 created/used  
GIS data!



The DISDI Portal

Eglin AFB





# DISDI Imagery Initiatives



**Cost Savings Thru  
Sharing**

**\$25,286,000**

- **USACE Topographic Engineering Center**
  - **Center of Excellence for DISDI Imagery**
  - **Works with NGA to source Requirements**
  - **Goal is No Cost to Installations**
- **Teaming with NGA Commercial Imagery Partnership Office**





# Imagery Request Procedures



## Submit image request to TEC IO:

- Online request form: [www.tec.army.mil/forms/csiform1.html](http://www.tec.army.mil/forms/csiform1.html)
- Or email: [tio@tec.army.mil](mailto:tio@tec.army.mil)

## Provide the following information:

- Geographic Area of Interest (Upper Left and Lower Right coordinates in Decimal Degrees)
- Acceptable Date Range
- Image Resolution (e.g. 66cm, 1-meter, 5-meter, etc.)
- Spectral Resolution (e.g. Pan, multispectral, etc.)
- Special Processing (e.g. Ortho, Pan-Sharpen)
  - Cloud Cover and quality (e.g. 20% cloud cover, no haze)
- Media delivery format (e.g. DVD, CD, FTP)
- Contact information

The screenshot shows a web form titled "Commercial Satellite Imagery Request Form". It is divided into two main sections: "USER IDENTIFICATION:" and "PRODUCT REQUIREMENTS:". The "USER IDENTIFICATION:" section includes fields for Name, Address, City, State, Zipcode, Phone, Commercial, DOB, Fax, and Email. The "PRODUCT REQUIREMENTS:" section includes a "Product Type:" label and a list of options with radio buttons: Aerial Photography (checked), CB 5m, CB 10m, Landsat TM, Landsat 7, and QuickBird Im Pan.



# TEC IO Contact Information



**For more information please contact:**

**DISDI Liaisons:**

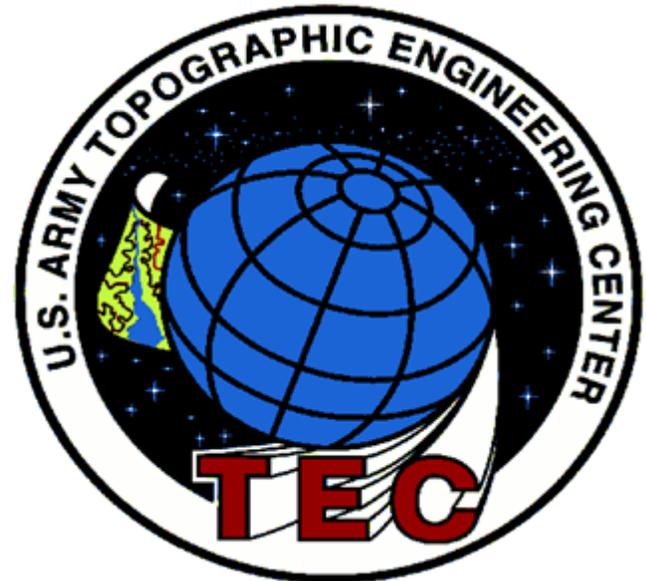
Patrick Easton 703.428.3589 [patrick.s.easton@erdc.usace.army.mil](mailto:patrick.s.easton@erdc.usace.army.mil)  
Heidi Santiago 703.428.3584 [heidi.e.santiago@erdc.usace.army.mil](mailto:heidi.e.santiago@erdc.usace.army.mil)

**TEC IO Government POC:**

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Website: [www.tec.army.mil/tio/index.html](http://www.tec.army.mil/tio/index.html)



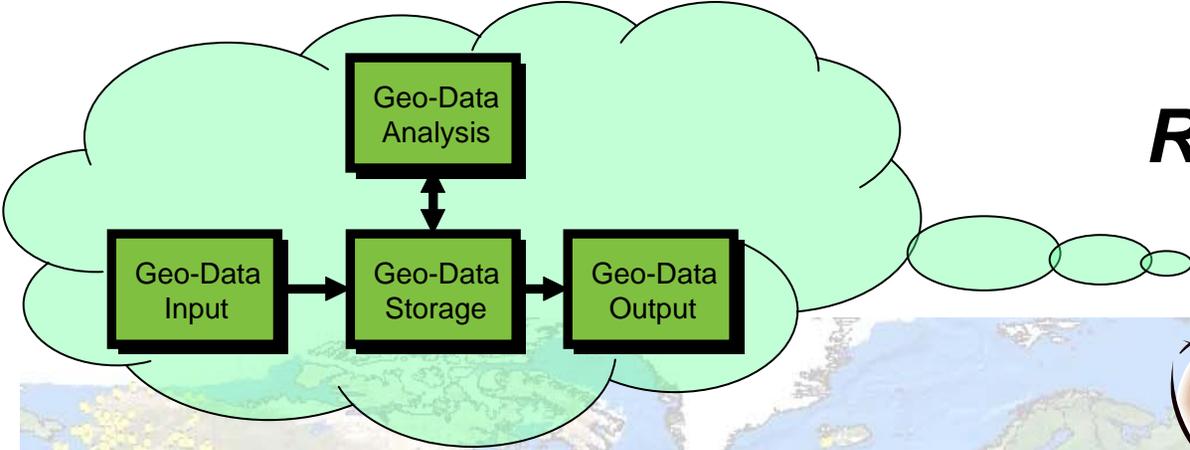


# ***DISDI – Building Relationships, Developing Partnerships***

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- **National States Geographic Information Council**
- **National Association of Counties**
- **Southeast Regional Partnership for Planning and Sustainability (SERPPAS) - NC, SC, GA, FL**
- **North Carolina – Federal Interagency Committee**
- **South Carolina and DOD Sustainability Alliance**
- **Georgia...Hawaii...California...**
- **Non-Governmental Organizations**
  - The Nature Conservancy
  - The Conservation Fund
  - Nature Serve
  - Professional Organizations (Geography, Surveying, Mapping, etc.)

# Recurring Themes



- **What is the “right” data source – what sources are authoritative?**
  - How can you tell? → METADATA, professional standards
- **How will the data be used – for what purpose?**
  - Scale, accuracy, level of detail, map format, etc.
  - Is the data or analysis based on scientific rigor? (“sound science”)
- **It’s about both DATA and PEOPLE**
  - “If we build it they will come” (National Wetlands Inventory)
  - Who is the audience?
  - Data → Information → Knowledge

*Technology is...  
less important  
than you think*



# Concluding Thoughts

- **DoD Installations & Environment Business is Inherently Geospatial**
  - Installations – geospatial “haves” and “have nots”
  - **Real Property Inventory** and **Environmental Liability Asset Management** will be drivers
  - BRAC – need to partner (i.e. share) with communities
- **Mutual Benefits = The Goal of Partnerships**
  - Federal to Federal
  - Federal to State & Local
  - Including NGO Partners
- **Data Sharing is a Must for Regional Solutions**
  - Fostered by Metadata Discovery & Information Assurance
  - DISDI Portal is a new tool





## Accessing the DISDI Portal

Available from DISDI page on I&E web site:

<http://www.acq.osd.mil/ie/bei/disdi.htm>

Click “DISDI Portal”

Click on image to launch the portal

CAC/PKI authentication required; open to  
.mil domain addresses only

# Spatial Data Issues Affecting Sustainability Planning in DoD

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