Maps

“Maps are like campfires – everyone gathers around them [. . . ] – [maps] allow people to understand complex issues at a glance, and find agreement about how to help the land.”

– Sonoma Ecology Center, GIS/IS Program Web Site
GIS Information Flow – State of Hawaii

Current

Current procedure for new/updated data:
1. Update server
2. Update website
3. POC – SOE – REST
4. AGOL
5. Various viewers

Coastal Data Exchange
Current GIS Information Flow – State of Hawaii

Current:
- Data exchange
- Update server
- Update website
- POC – SOE – REST
- AGOL
- Various viewers

Issues:
1. Data sharing and cooperation
2. Ensure data integrity
3. Improve data access
4. Enhanced data visualization
5. Streamline data management
6. Enhance data accessibility

Current:
- Data sharing and cooperation
- Ensure data integrity
- Improve data access
- Enhanced data visualization
- Streamline data management
- Enhance data accessibility
GIS Information Flow – State of Hawaii

One Authoritative Data Source
(with metadata)

Agencies → RDBMS → REST Services

Rest Services →

- Desktop GIS
- WebGIS (ArcGIS Online)
- Web Applications
- data.hawaii.gov
- Open Data Portal (Zip/Ship)

Standards: REST, JSON, SOAP, WMS, WFS, KML

Vision

[Logos and branding]
GIS Information Flow – State of Hawaii

Layers:
- Land (0)
  - Points (1)
    - Thermal Springs (2)
    - Geothermal Wells (3)
    - Studied Hydro Projects (4)
  - Volcanic Features (5)
  - Parcels (6)
  - Potential Warm Ground Water (7)
  - High Temperature Resource Area (8)
  - ARIS (9)
  - Solar (10)
  - Rainfall (11)
  - Ditches (12)
  - Streams (13)
- Ocean (14)
  - Wave Energy Transects (15)
  - Whale Sanctuaries (16)
  - Bathymetry (17)
  - 3 Mile Boundary (18)
  - 12 Mile Boundary (19)
  - Temperature Average Difference (20)
  - Temperature Amplitude Difference (21)
- Wind Power Density at 50m (22)

ArcGIS Services Directory
Home > EnerGIS > Operational (MapServer)

EnerGIS/Operational (MapServer)

Layer: Thermal Springs (ID: 2)
- Parent Layer: Points
- Display Field: DESCRIPTION
- Type: Feature Layer
- Drawing Info:
  - Renderer: Simple Renderer
  - Symbol: Picture Marker Symbol
  - Label: Description
  - Transparency: 0
  - Labeling Info: N/A
- Fields:
  - OBJECTID (Type: intField, Alias: OBJECTID)
  - SHAPE (Type: esriFieldTypeGeometry, Alias: SHAPE)
  - DESCRIPTION (Type: esriFieldTypeString, Alias: DESCRIPTION, Length: 20)
- Type ID Field: N/A
- Supported Interfaces: REST

ArcMap
Adding Data from REST Svc
arcgis on gis.hawaii.gov
GIS Information Flow – State of Hawaii
GIS Information Flow – State of Hawaii

Customized Apps - EnerGIS

Coastal/ Marine Analysis Tool (coming soon)

Downloadable PDF Maps

Land Study Bureau (LSB):
- State of Hawaii
- Island of Hawaii
- Island of Kauai
- Island of Maui
- Islands of Molokai and Lanai
- Island of Oahu

LSB within State Owned Agricultural Lands:
- Kauai | Oahu | Molokai | Maui | Hawaii

Special Management Area:
- SMA Maps
- SMA Locator Online Map

State Owned Lands:
- Statewide (Non-DHHL)
- Kauai | Oahu | Molokai | Maui | Hawaii

Solar Radiation Maps:
- Kauai | Oahu | Molokai | Maui | Hawaii | Energy Unit Conversion

Simple Web Maps/Apps
GIS Information Flow – State of Hawaii

- Statewide GIS Program serves as a data broker
- We’ll serve what our partners ask us to serve (State agencies, counties, feds)
- Metadata is important
- We welcome feedback on the data
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COASTAL DATA EXCHANGE

STATEWIDE GIS MODERNIZATION & RESOURCES

THANK YOU!

Joan Delos Santos, Acting Program Manager
State Office of Planning
Statewide GIS Program