

# JOINT CENTER for Intelligent Spatial Computing



## Interoperability

Interoperability involves standards and technologies working together to allow easy access to heterogeneous, distributed data and services.

### Geoscience Interoperability

Standards Organizations	CISC relevant activities
FGDC	2 NSDI CAP projects
OGC	OGC Web Service Initiative Testbed
ISO/TC211	INCITS/L1
W3C	Web Services

### MAGIC Interoperable Portal

Figure 2 MAGIC portal 1) takes data services from different resources, such as satellite or airborne remote sensing data, transportation data, socioeconomic data, and other spatial data, 2) provides catalog services, and 3) other spatial web services to support different SDI applications, such as FGDC clearinghouse, OGC portal, and geospatial data search engine.

### MAGIC Portal GUI example

Figure 3 Geospatial Data Search Engine Interface: the geospatial data search engine provide a place to find, review, and mapping relevant data through interoperable services, such as FGDC metadata, Z39.50, and WMS.

