

# CWIC Overview

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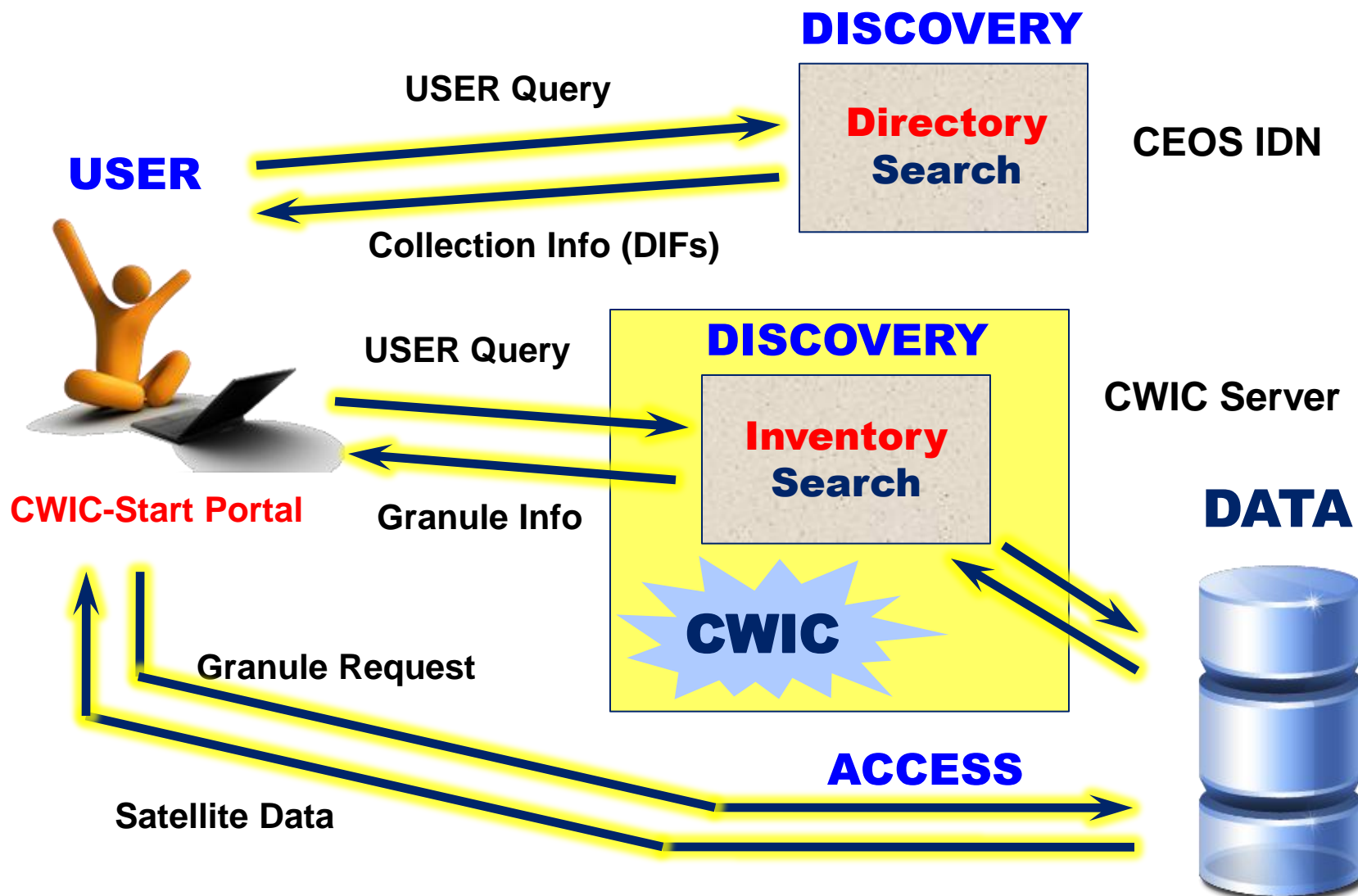
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- **CEOS WGISS Integrated Catalog (CWIC) – serves as a community catalog of products and services of CEOS member agencies**
- **Satellite data products extremely large and constantly growing with millions of individual products.**
- **Collection/granule hierarchy and unique spatial/temporal characteristics of satellite data and the user registration and asynchronous access requirements of the agency systems are challenges**
- **CWIC integrated with GEO System of Systems (GEOSS)**
- **CWIC provides an access point for search and access of CWIC partner inventory systems.**
- **CWIC provides translation from the GEO supported catalog standards to each agency's EO inventory system.**

# CEOS Data Discovery and Access



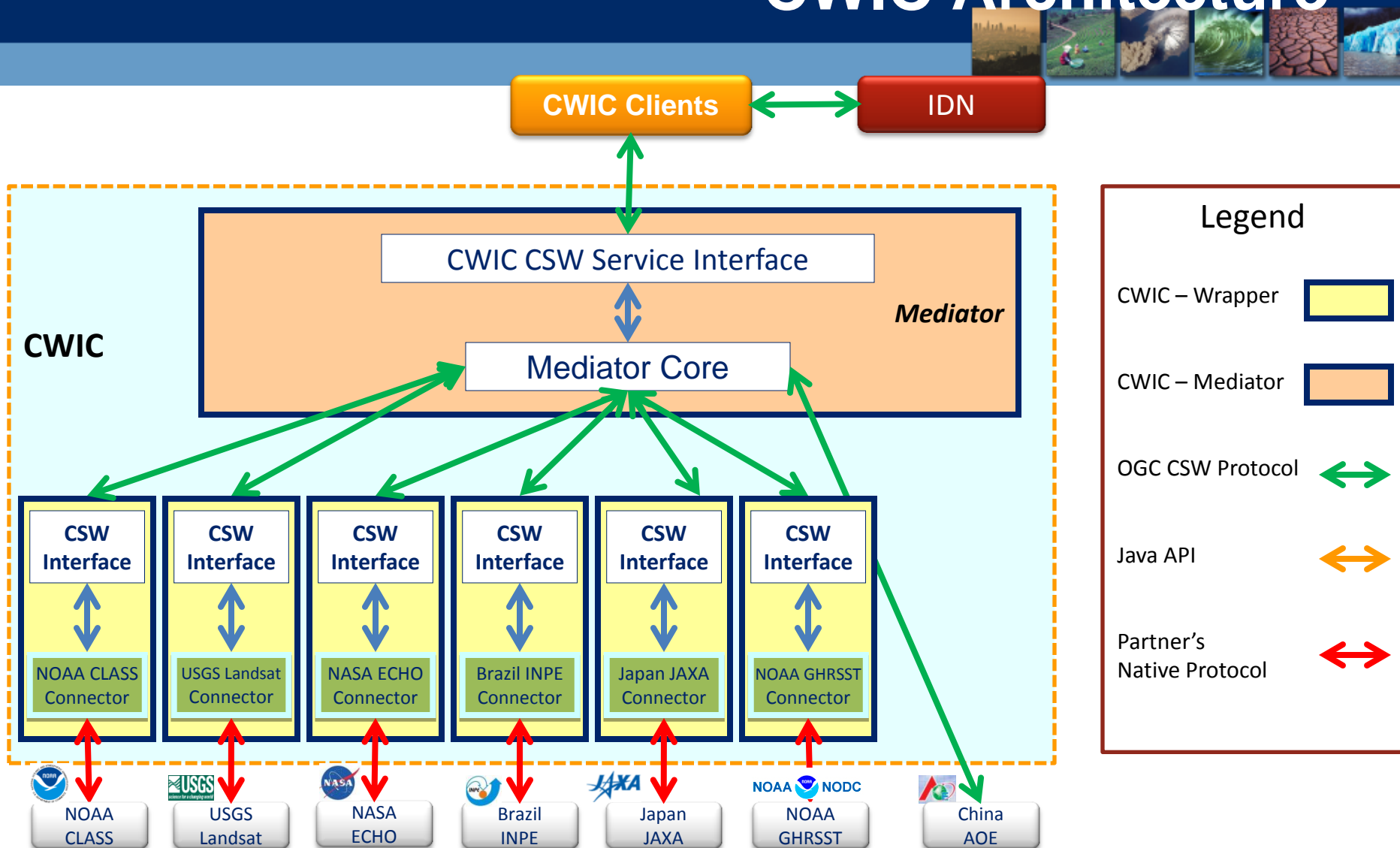


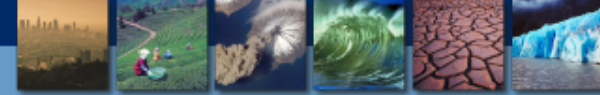
**CWIC provides the major source of satellite data inventory search and data access in GEO.**

**Current data partners include NOAA, NASA, USGS, INPE, AOE, JAXA, GHRSSST.**

- **USGS and INPE provides access to operational databases**
- **AOE added 3<sup>rd</sup> data center, CRESDA, in addition to BJ-1 and FengYun data centers.**
- **NOAA will add access to most of the data in CLASS when the new API is released in summer 2013**
- **NASA working to make all EO unrestricted online satellite data accessible from CWIC.**
- **JAXA is a new data partner (prototype), and will provide search to about 200 data collections (~16 million granules).**
- **GHRSSST adding ~ 60 data collections (~2.3 million granules)**
- **LSI team adding additional data to CWIC through the USGS CWIC connection.**

# CWIC Architecture





## **CWIC-Start – user interface client for scientists;**

- **Provides collection search by GCMD keywords (mission/instrument, science,..) via the IDN CSW**
- **Provides search and access to all CWIC accessible inventories via the CWIC Server**

## **LSI Portal**

- **Identifies the list of LSI datasets to search by searching the IDN (mission/instrument, science keywords) to narrow down the list of datasets to offer to users**

## **CCRS Agency Client**

- **CCRS system & CWIC connection**



## Who is on the CWIC team?

- **CWIC Design team**
- **CWIC Server Implementation team**
- **CWIC Data Partners**
- **CWIC Client partners**
- **IDN**

**Work together to solve common challenges for search and access – approaches and solutions that work for CEOS agencies' operational EO systems.**

- **Need to consider end to end implications for assumptions and approaches, diversity of providers and clients, and scalability and maintainability of solutions**



**[http: wgiss.ceos.org/cwic](http://wgiss.ceos.org/cwic)**

- **Link to youtube CWIC demo**
- **How-to documents : CWIC Data Provider, CWIC Client Provider, CWIC DIF Guide**
- **Link to CWIC DIF Builder tool**
- **Links to CWIC enabled clients**
- **Links to open source CSW software (for Partners)**
- **Link to Test Environment**
  
- **[cwic@wgiss.ceos.org](mailto:cwic@wgiss.ceos.org) email list**
- **Monthly CWIC Team telecons**



# CWIC Support for New Partners



**Welcoming new partners! ISRO!!, VCs, WGs, CEOS agencies**

- **Bi-lateral intro telecons – new partner can ask initial questions in “private” and not in full view of the BIG TEAM.**

## **CWIC Data Partners**

- **CWIC DocBuilder for CWIC DIFs – plus IDN staff assistance with questions**
- **CWIC Server team builds “Connector” to translate CWIC searches to Data Partner system with assistance from new data partner**
- **CWIC Server team assists with any testing issues**

## **CWIC Client Partners**

- **CWIC Server team assists with any testing issues**

**CWIC Servers : (DEV, TEST, PRODUCTION)**

**CWIC test clients – CWIC-Start TEST & GMU TEST**



- Both the IDN and CWIC integrated with GEO, and accessed by the GEO components (Geo Web Portal, DAB, GENESI).
- IDN provides collection metadata for over 21,629 data collections available to GEOSS (4 Sept 2012).
  - Registering a data collection in the IDN in effect registers the data collection in GEOSS.
  - A data collection must be registered in the IDN to be CWIC accessible.
- CWIC provides access to 1,778 (28 Aug 2012 figure) data collections with inventories.
- Providing technical support for GEO component teams accessing IDN and CWIC.
- Providing review comments on GEO documents with regards to IDN and CWIC and GEO capabilities to search and access satellite data.

# GEO Data Collection of Open Resources



*The GEOSS Data Collection of Open Resources for Everyone (GEOSS Data-CORE) is a distributed pool of documented datasets with full and open unrestricted access at no more than the cost of reproduction and distribution”*

- **GEO has 8668\* data collections tagged as geossDataCore.**
- **IDN provides geossDataCore tagging for 8181\* US agencies (and INPE) data collections.**
- **IDN staff ready and willing to tag data collections from CEOS agencies as “geossDataCore” if requested.**
- **Tools available to register data collections in the IDN**

**\*4 September 2012 figures**



## GCI Architecture

