

The NOAA Earth Information System (NEIS)

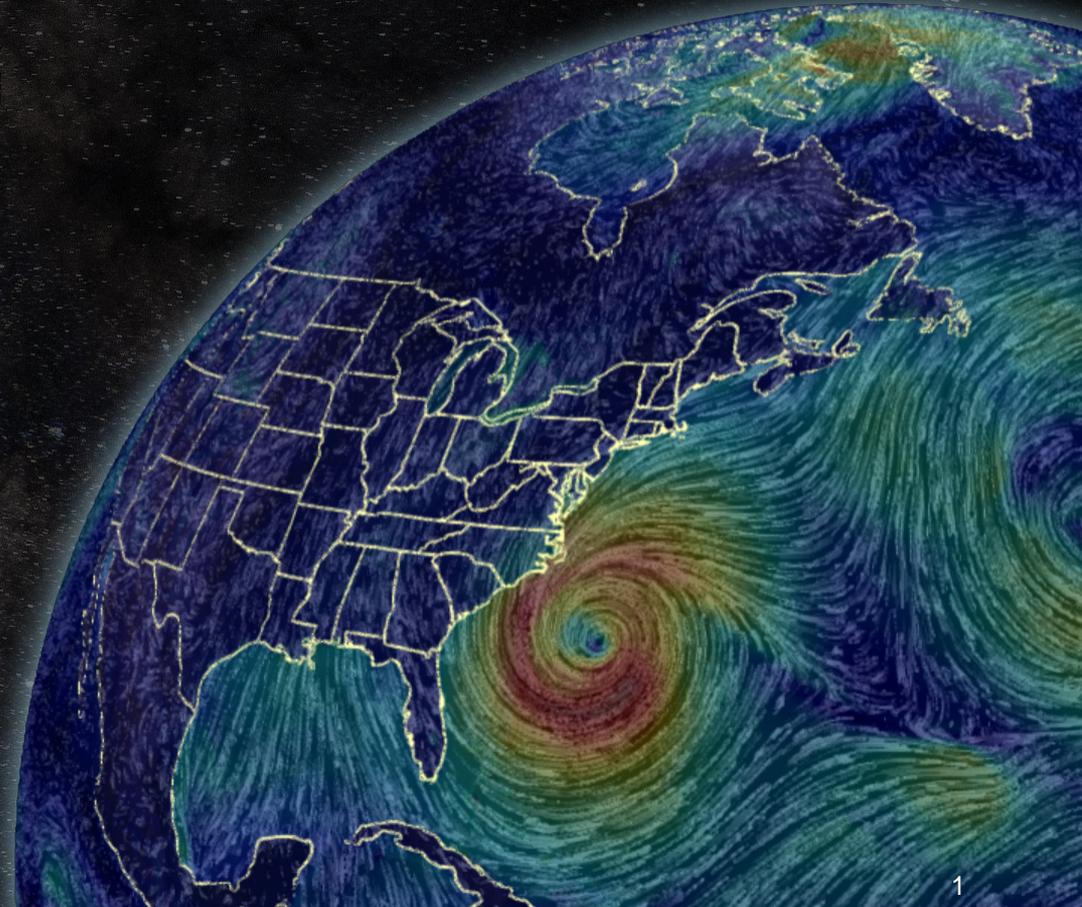
Jebb Q Stewart

CIRA

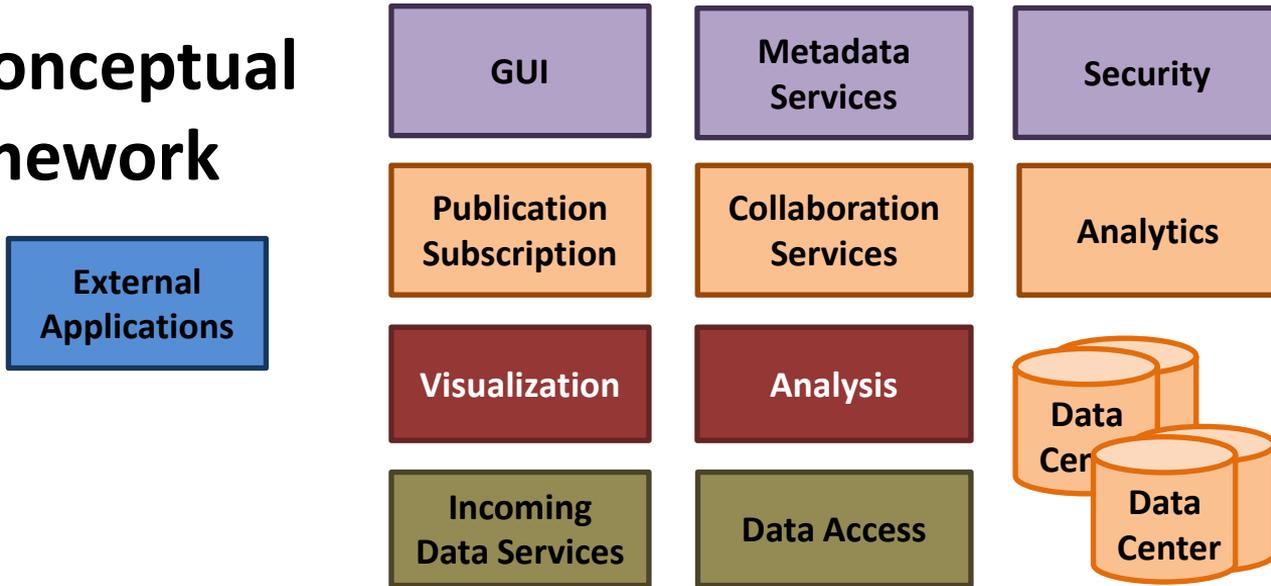
Performing work for ESRL/GSD



GSD Science Review
3-5 Nov 2015



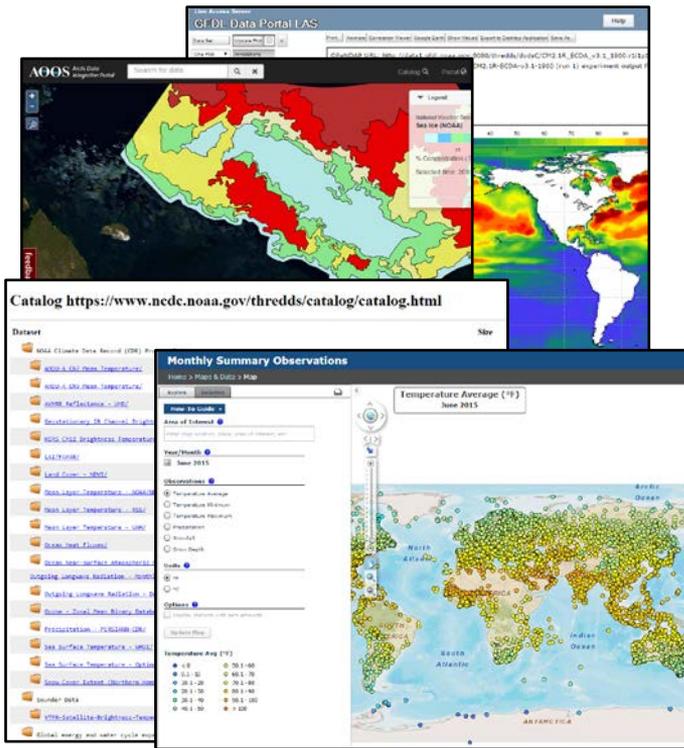
NEIS Conceptual Framework



Framework provides the capability to answer questions that require data from different data sources regardless of format or location.

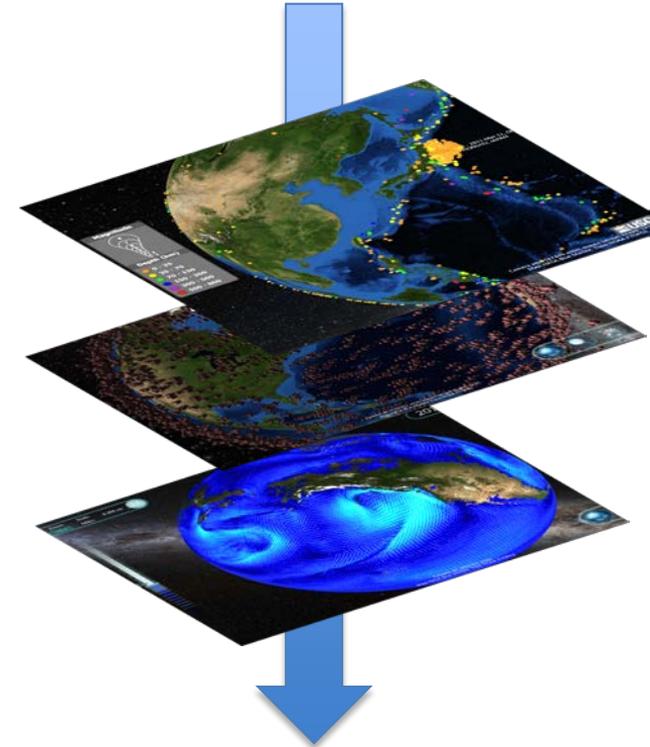
Discovery and Interoperability

- Improve access, interaction, and integration of NOAA data



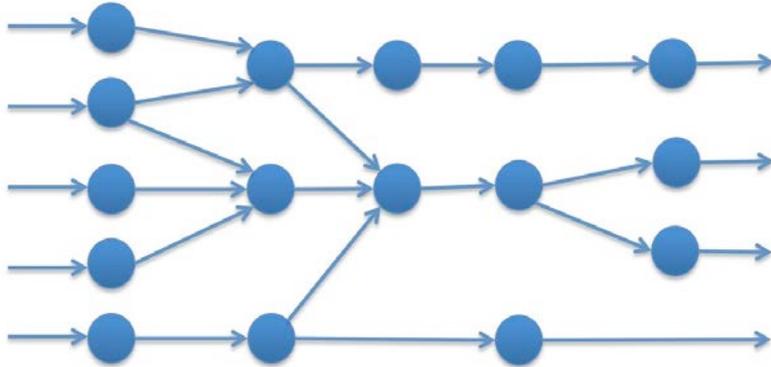
The figure shows two screenshots of e-commerce websites. The top screenshot is the Amazon website, showing a search for 'Tablets' and a list of products. The bottom screenshot is the Zappos website, showing a search for 'Shoes' and a list of products.

Improve the User Experience
Applying existing concepts to NOAA data.

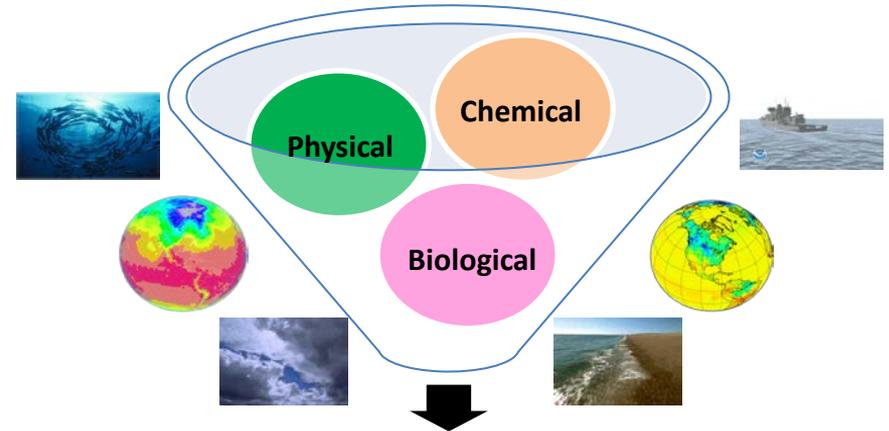
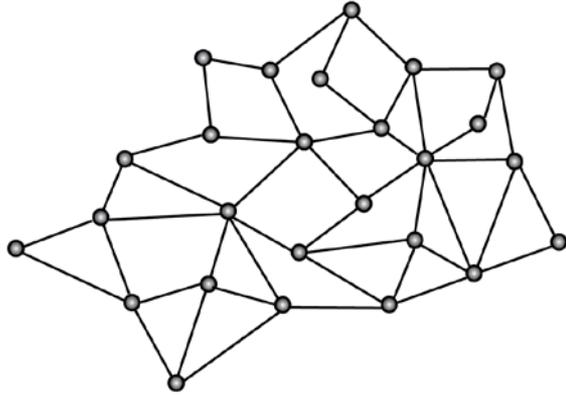


Data Ingest and Distribution

- Event Driven, Asynchronous, Stream based data processing
- Server Side GPU processing

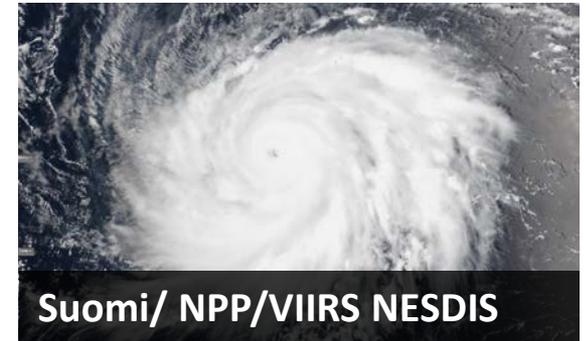
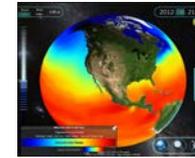


Summary



Next

- Continue evaluation of new emerging technologies
- Larger and Larger data
- Modular Distributed services



Suomi/ NPP/VIIRS NESDIS