Developing Next-Gen Ground for NOAA's Future Earth Observation Architecture

Maximizing Benefits of Partnership & Coordination

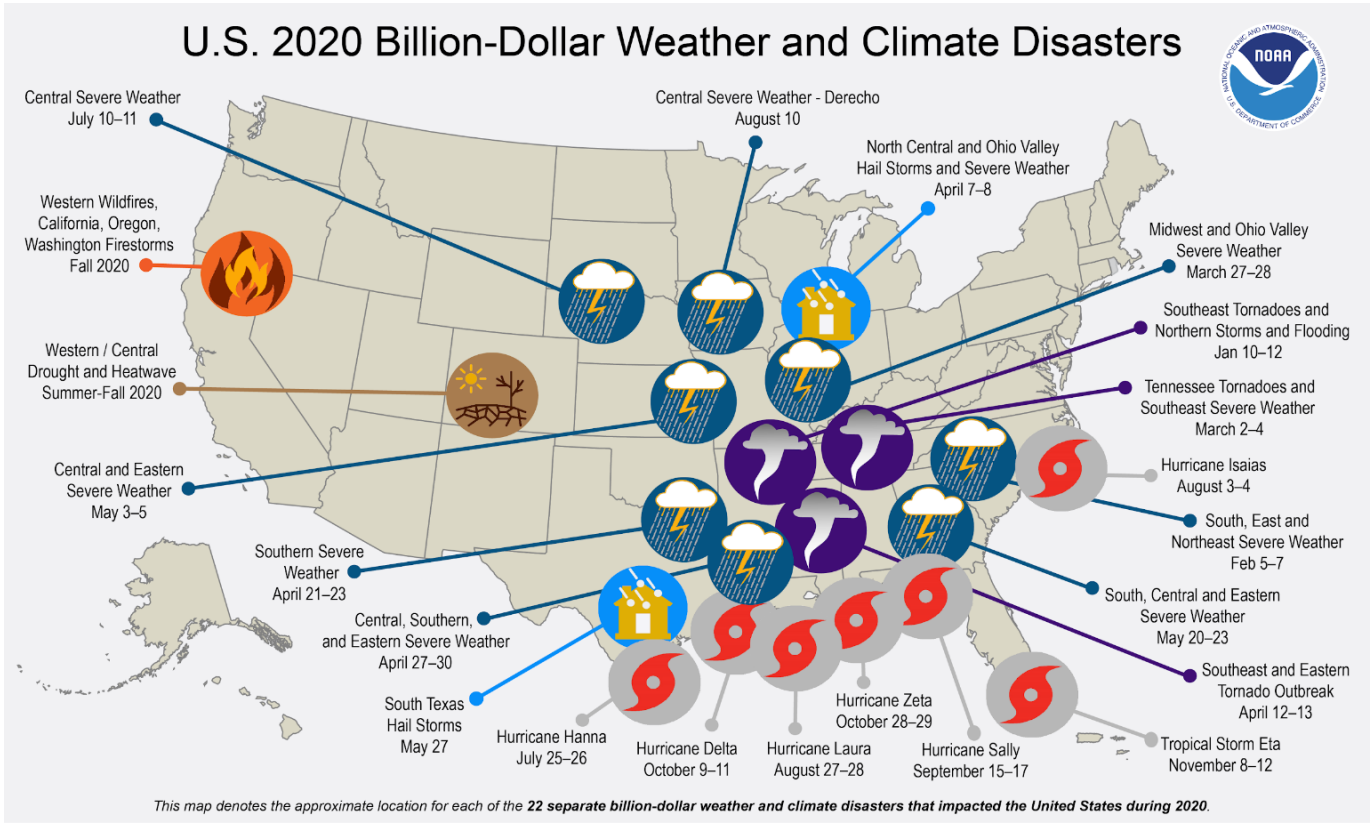
National Environmental Satellite, Data, and Information Service

March 11, 2021

Vanessa Griffin, Director, Office of Strategic Architecture and Advanced Planning

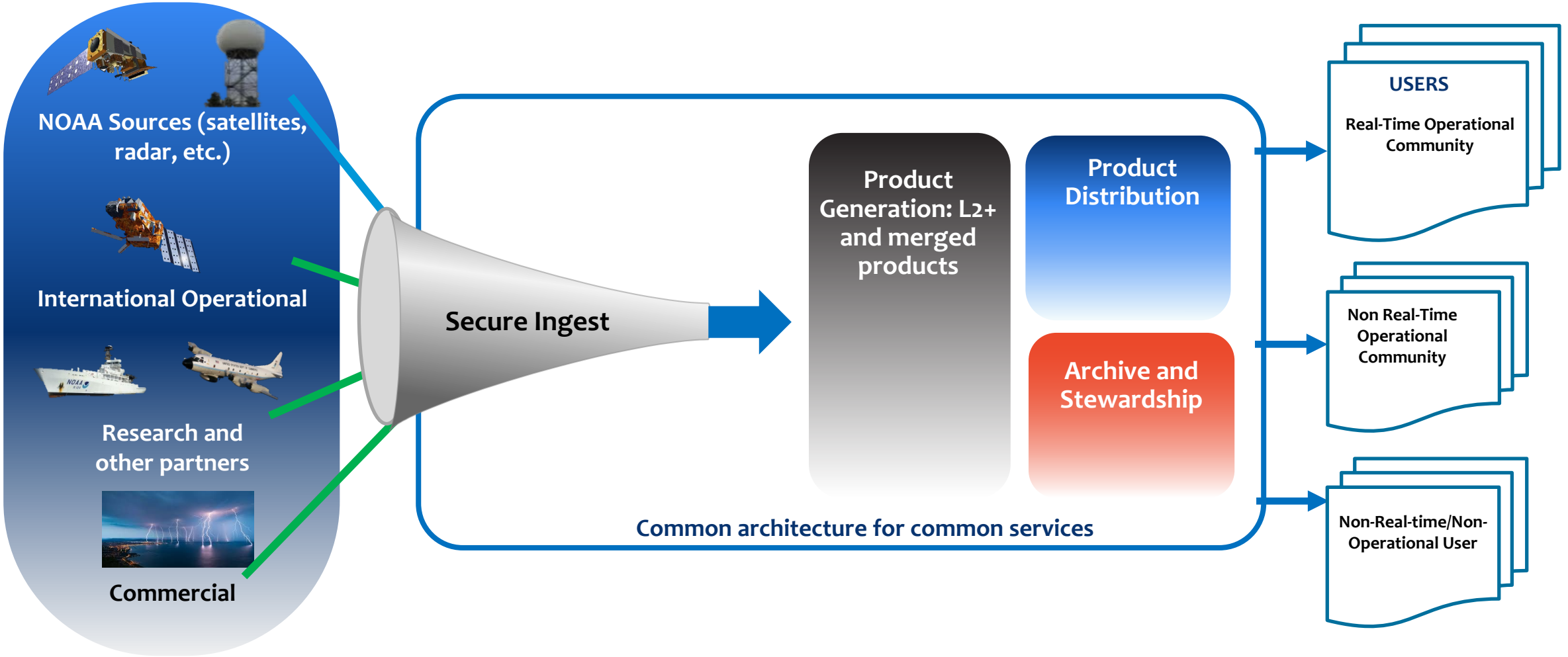
The Impact of Earth Observation Data

NOAA'S Earth observations support weather forecasts valued at $315 billion to the nation's economy, protecting and improving weather-vulnerable industries such as farming, shipping, and utilities.

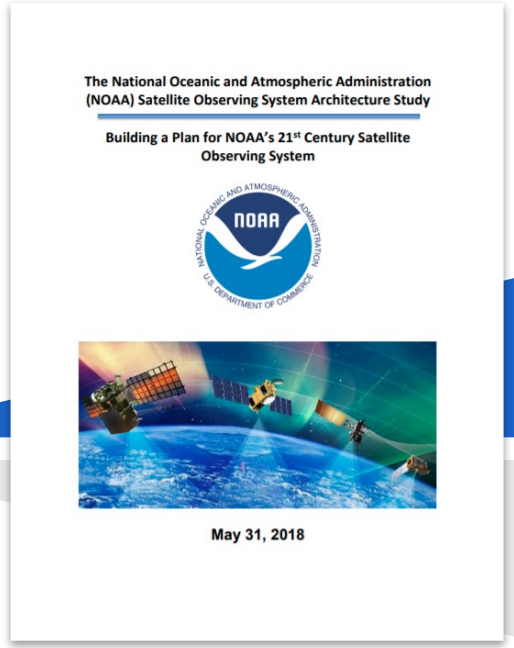


Leveraging Partnership Capabilities in our Next-Gen Space-Based Architecture Requires Enterprise-Level Coordination

Common Services Architecture & Data Systems Designed to Meet User Needs



Matching NOAA's Next-Gen Space Capability with Next-Gen Data Science & Ground Capability


The National Oceanic and Atmospheric Administration (NOAA) Satellite Observing System Architecture Study

Building a Plan for NOAA's 21st Century Satellite Observing System

May 31, 2018

DISAGGREGATED & HYBRID CONSTELLATIONS

- MORE SATELLITES, INSTRUMENTS & DATA
- COMMERCIAL BUYS
- INTERNATIONAL PARTNERSHIPS
- OTHER FEDERAL AGENCY PROVIDERS

"BROADER APERTURE" TO ABSORB ALL FORMS OF DATA

- SECURE INGEST & DATA INTEGRATION
- QUANTUM-COMPUTING, MACHINE-LEARNING
- CLOUD-BASED ACCESS, ARCHIVING & INFORMATICS
- USER-CENTRIC DATA DELIVERY

Thank you