

Vision

- ***State of the Art Retrieval Methodologies***
- ***Same Science and common Software Modules for all platforms***
 - AIRS/AMSU/MODIS/AMSR-E
 - IASI/AMSU/AVHRR
 - CrIS/ATMS/VIIRS
 - HIRS/AMSU/AVHRR
 - GOES-R ABI/HES/P3I-Microwave

How to get there?

Science teams

Review of current approaches

Algorithm demonstration and selection

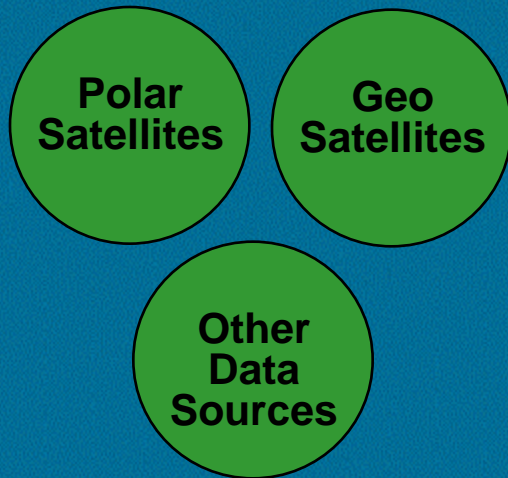
Common datasets for developing and testing algorithms

Common software development standards

Common documentation standards

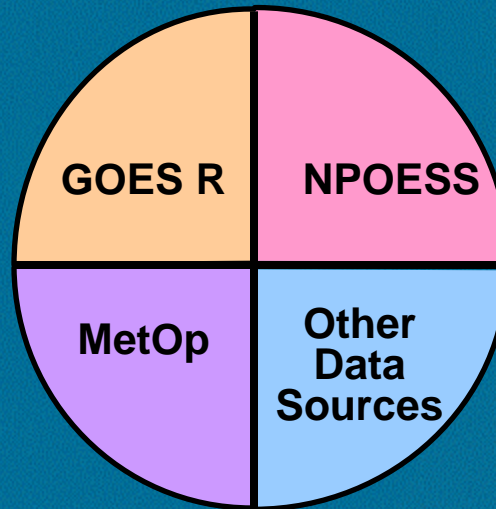
Goal - Transition Products from Individual Satellites to a “System of Systems”

Today



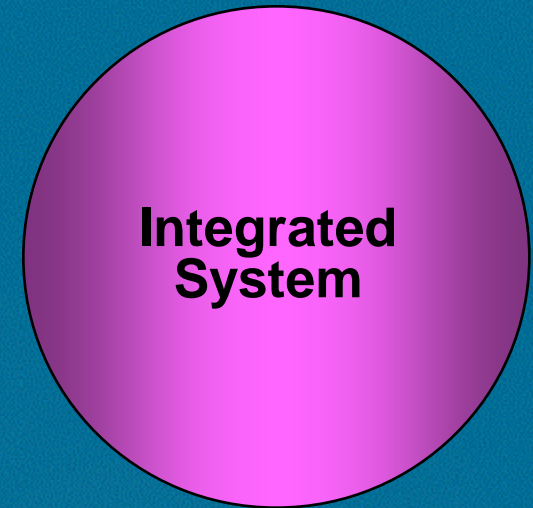
Environmental Products that are mostly generated from observations that are independent of one another

2008-2016



Formulate and Integrate Environmental products using GOES-R series, NPOESS series, and MetOp satellites along with Other Structured Data Sources

2020+



Products are formulated and produced as one integrated system

The Steps to Successfully Achieving Our Goals

- **Integrated Sensors:** Initially need to simplify the complexity of building products between instruments on one platform
- **Integrated Calibration:** Then we need to evaluate the calibration between multiple satellites at different orbits
- **Integrated Satellites:** Finally we can utilize these cross-calibrated, collocated data sets to build enhanced products

