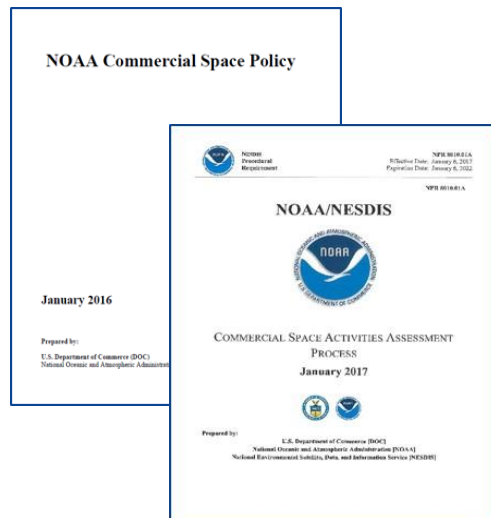


Status of NOAA's Commercial Engagement and Commercial Weather Data Pilot

Presented to CGMS-47, Plenary session, agenda item 3.2

Planning for the Future

- NOAA is evolving toward a mission-effective, integrated, adaptable, and affordable portfolio
 - Focus on leveraging innovations, emerging partnerships, and cost-effective trends
 - Goal is to leverage commercial capabilities and innovation



“NOAA will explore and, where appropriate, pursue **demonstration projects** to validate the viability of assimilating commercially provided environmental data and data products into NOAA meteorological models and add value to the forecast.”

“NESDIS will issue one or more solicitations...for NOAA to **acquire and evaluate on-orbit observations from commercial sources**, where industry has or will establish on-orbit capabilities that were identified by NOAA as promising option(s)...”

Commercial Weather Data Pilot Round 1 Results

- *CWDP Round 1 completed in Q1 FY2018*
- *Execution*
 - Issued contracts to two companies for RO data
 - Received data from one company
- *Findings*
 - The commercial sector was not able to provide the quality and quantity of RO data that NOAA requires for use in operational weather forecasting
 - Commercial RO systems show potential and, if progress continues, could serve in the future as complimentary sources to existing and future government systems
 - Outcomes warrant a second CWDP Round focused on RO

Commercial Weather Data Pilot Round 2

– *CWDP Round 2 initiated in 2018*

- **Objectives**

- Include additional operational considerations for RO data purchase
- Perform comprehensive assessment of the value of commercial RO data
- Develop NOAA systems readiness for future purchases of operational weather data from commercial sources

- **Execution**

- Contracts awarded to three companies for RO data
- Data currently flowing into NOAA
- NWP impact assessment ongoing
- Data coming into NOAA through the Secure Ingest Gateway Pilot

June 2017

April 2018

Sept 2018

Nov 2018 - July 2019

Through 2019-2020

Draft RFP/Industry Day

Final RFP

Contracts
Awarded

Data Collection

Data Evaluation

Round 2 Data Sharing

- CGMS Members have access to Round 2 data for evaluation purposes
 - Not for further redistribution
- As with other NOAA data, we anticipate:
 - User organization will coordinate with NOAA on assessment
 - Any proprietary information will be protected



Upcoming Commercial Engagement

Industry input into next generation pre-formulation

Potential JPSS-2 Rideshare

Round 3 RFI to inform Pilot in 2019 and beyond

Operational Commercial RO data purchase

Continue to canvass the commercial sector for data sets to meet mission needs

Execute CWDP Round 2, with results possible in 2020

Consider commercial capabilities as a potential part of future architectures