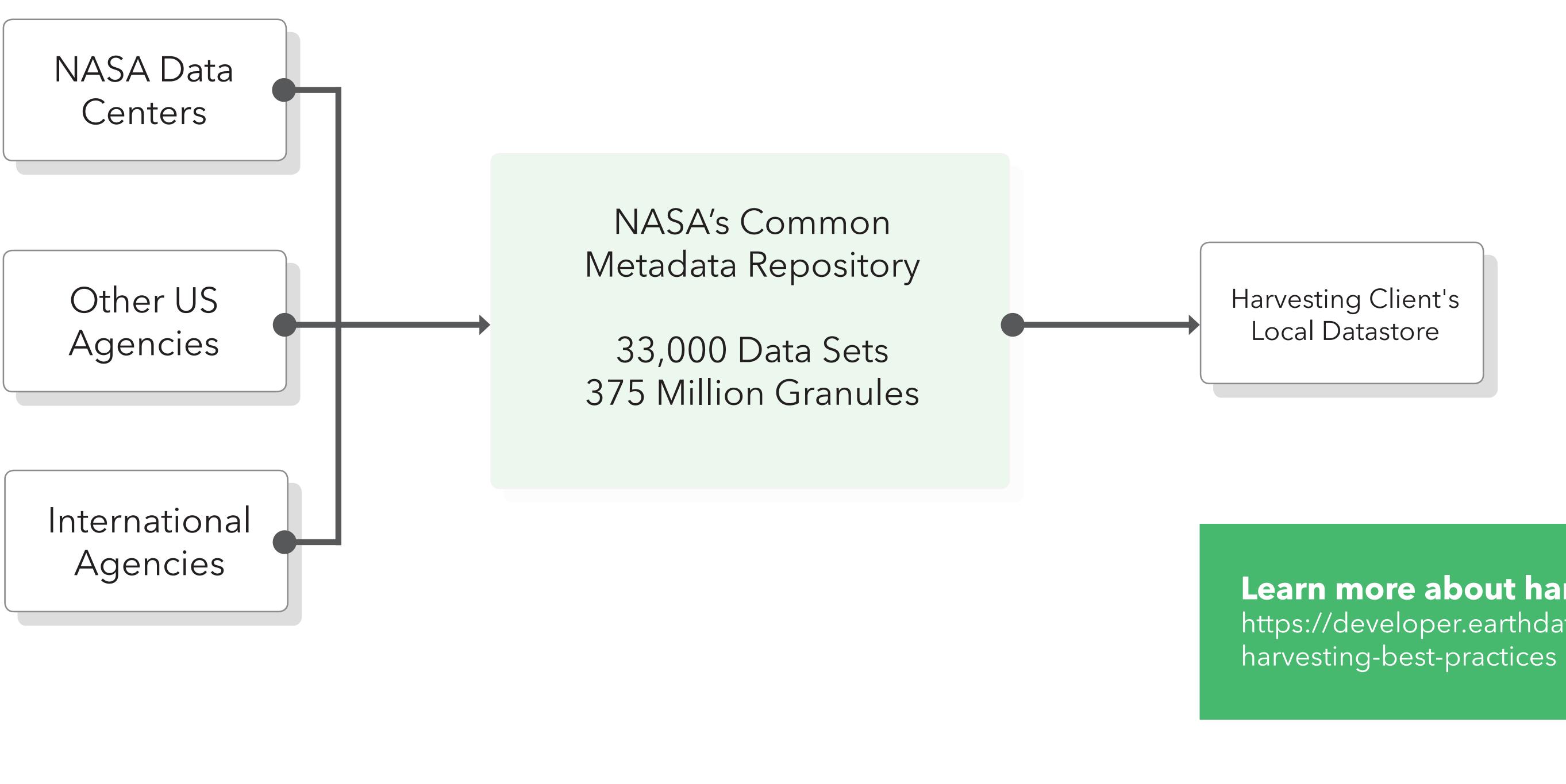


While the CMR's robust searching capabilities make it ideal for clients to use directly, the CMR now also supports the ability to harvest CMR's holdings. This enables clients to store the CMR's holdings locally and potentially combine the CMR's holdings with other non-CMR data.

The CMR Harvesting feature, added in 2017, supports the following types of requests:

- Return all datasets (collections)
- Return all granules for a given dataset
- Return datasets or granules modified after a given date
- Return datasets or granules added after a given date
- Return datasets or granules deleted after a given date



# Harvesting NASA's Common Metadata Repository

NASA's Common Metadata Repository (CMR) contains a vast amount of Earth Science metadata representing both US and International datasets.

## Dana Shum<sup>1</sup>

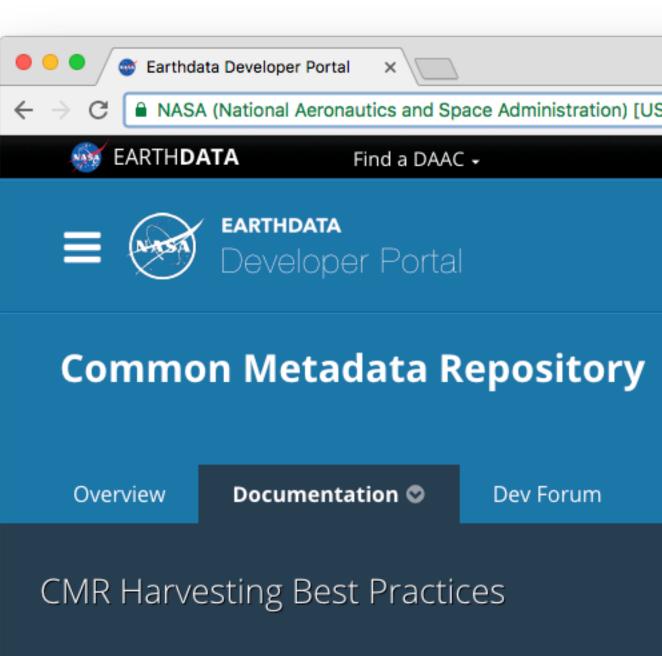
dshum@raytheon.com

## **IN51A-0003**

## **Technical Challenges**

following criteria are met:

- consistent
- requests



Both NASA EOSDIS data providers and external organizations NASA EOSDIS data providers are often looking for both collecti other organizations will primarily focus on harvesting collection

- The CMR's harvesting functionality was implemented to better
- 1. Large result sets can be retrieved
- 2. While iterating through result sets, the results remain consis
- 3. Performance of other queries in the system are unaffected
- 4. Changes to inventory are easily discoverable

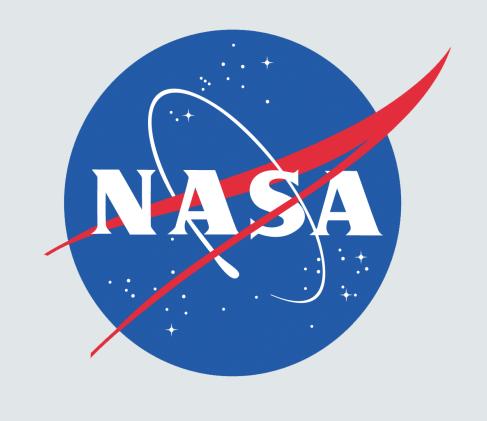
In order to meet those criteria, an important new concept nam categories of use cases related to harvesting:

- 1. Populating External Systems
- 2. Capturing Inventory Changes
- 3. Synchronizing External Systems with the CMR

### Learn more about harvesting:

https://developer.earthdata.nasa.gov/cmr/

# Chris Durbin<sup>1</sup> | James Norton<sup>2</sup> | Andrew Mitchell<sup>3</sup>



### The CMR's harvesting functionality was implemented to ensure that the

#### • Large result sets can be retrieved ( >1 million results) • While iterating through result sets, the harvesting request results remain

#### • Performance of other queries in the system are unaffected by harvesting

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https://developer.earthdata.nasa.gov/cmr/harvesting-best-	-practices	☆ 🖸	:
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uire mechanisms to enable baryosting the metadat	ta in NASA's Common Matadata Panasitany	While	
uire mechanisms to enable harvesting the metadat (dataset) and granule metadata in order to validate vel metadata to copy into their own unique reposit	e the CMR's holdings against their local arch		
e use cases in a way that the following criteria are n	net:		
,			
nt			
'scrolling' must be introduced. After introducing th	he scrolling concept we will walk through 3		



https://cmr.earthdata.nasa.gov

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