Building an NRT Portal
Let’s do this
(if it makes sense)

NASA NRT Workshop
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Brief Recap from Yesterday

- Visualization
  - The Global Imagery Browse Services (GIBS) provides full-resolution imagery via web services for 200+ EOSDIS collections (a fraction of the total)
  - The Worldview client provides an interface for all GIBS products and will continue to categorize its layers into NRT application areas
Brief Recap from Yesterday

- **Search and Order**
  - The Common Metadata Repository (CMR) is a database for **ALL** collections (over 30k) available through EOSDIS
  - The Earthdata Search client provides a window into all collections in CMR
Let’s Customize Earthdata Search

• It has all EOSDIS collections + some from the outside

• It’s probably easier to add new products, as needed
Disclaimers

• The proposed approaches are relatively simple and are based upon what can be achieved “now”

• There have been many great ideas for portal capabilities discussed at this workshop; we want to hear them! (and HQ will need to fund them)
Existing Approach
Proposed Enhancement #1

• Extend existing Earthdata Search client: https://search.earthdata.nasa.gov/

• Apply NRT application-specific tags to collections
  – E.g., Add “Air Quality” or “Severe Storms” tags to create a new set of facets
Proposed Enhancement #1
<table>
<thead>
<tr>
<th>NRT Applications</th>
<th>Collections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Quality</td>
<td>64</td>
</tr>
<tr>
<td>Ash Plumes</td>
<td>1</td>
</tr>
<tr>
<td>Drought</td>
<td>145</td>
</tr>
<tr>
<td>Dust Storms</td>
<td>10</td>
</tr>
<tr>
<td>Fires</td>
<td>6</td>
</tr>
<tr>
<td>Floods</td>
<td>7</td>
</tr>
<tr>
<td>Severe Storms</td>
<td>64</td>
</tr>
<tr>
<td>Shipping</td>
<td>1</td>
</tr>
<tr>
<td>Vegetation</td>
<td>4</td>
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</tbody>
</table>

**10DIS/Aqua Near Real Time (NRT) Aerosol 5-Min L2 Swath 0km**
- MYD04. L2 v6NRT
- AISA/GSFC/EOS/ESDIS/LANCERMODIS
- 015-12-06
- ongoing | 1546 Granules

**10DIS/Aqua Near Real Time (NRT) Land Surface Temperature/Emissivity 5-Min 2 Swath 1km (C005)**
- MYD11. L2 v5NRT
- AISA/GSFC/EOS/ESDIS/LANCERMODIS
- 002-05-04
- ongoing | 2819 Granules

**10DIS/Aqua Near Real Time (NRT) Snow Cover 5-Min L2**
- MYD35. L2 v5NRT
- AISA/GSFC/EOS/ESDIS/LANCERMODIS
- 001-11-01
- ongoing | 358 Granules
Proposed Enhancement #2

• Take what we’ve done with Enhancement #1

• Then create a customized Earthdata Search client which only has NRT collections in it: https://search.earthdata.nasa.gov/portal/nrt/
Existing Example: CARVE Portal
https://search.earthdata.nasa.gov/portal/carve/search
Steps to Make This a Reality

1. Ensure all metadata needed is available in the Common Metadata Repository (CMR)

2. Complete the categorization of collections into NRT application areas in this workshop

3. Tag NRT collections with appropriate application area(s) in CMR
Steps to Make This a Reality

4. Work with Earthdata Search team to include the NRT application area facets and customize the portal accordingly
Takeaways / Questions

• Would either of these approaches be helpful?

• If so, are there strong preferences?
  – #1: Just add Application Area facets
  – #2: Custom portal + facets from #1