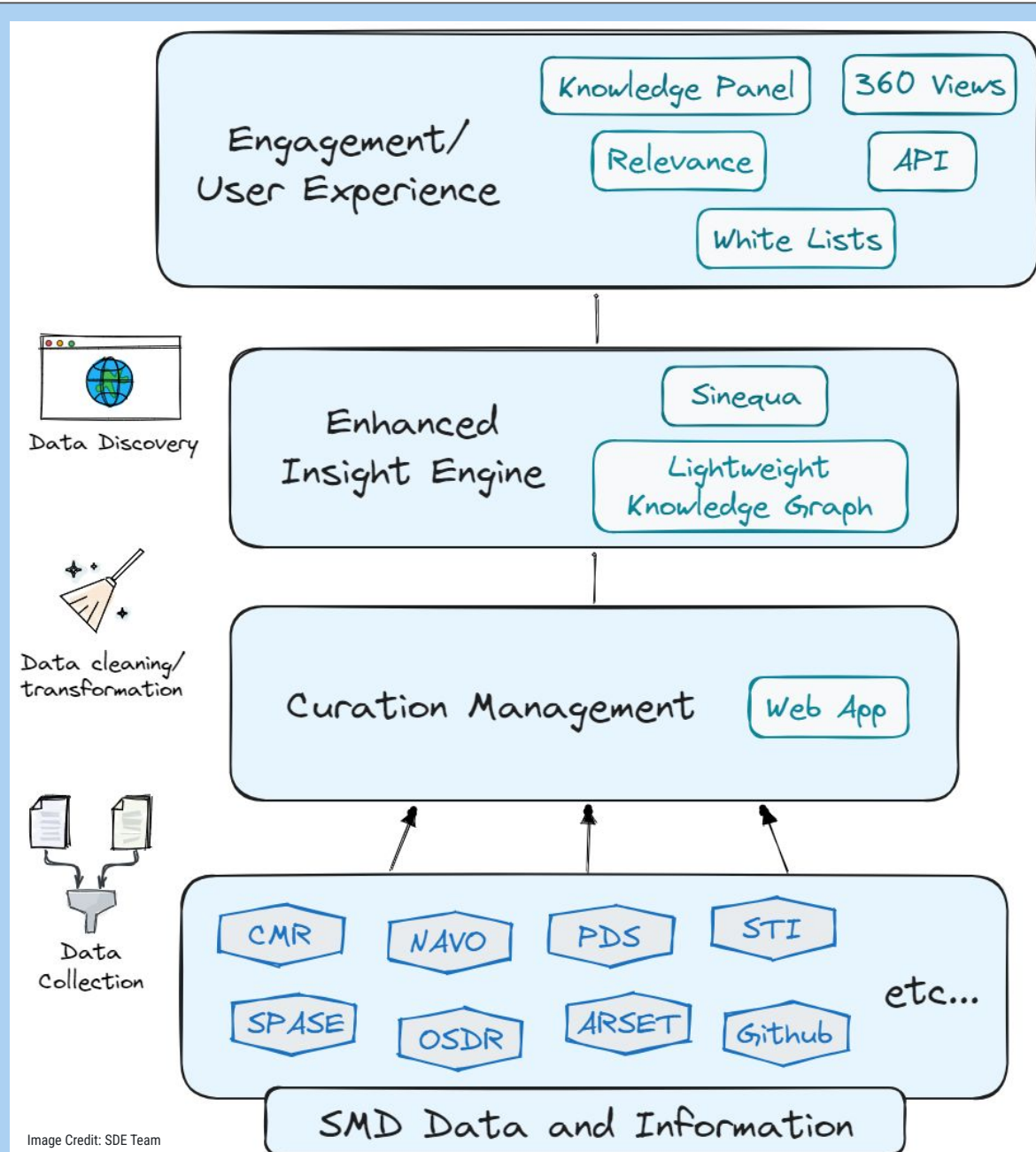
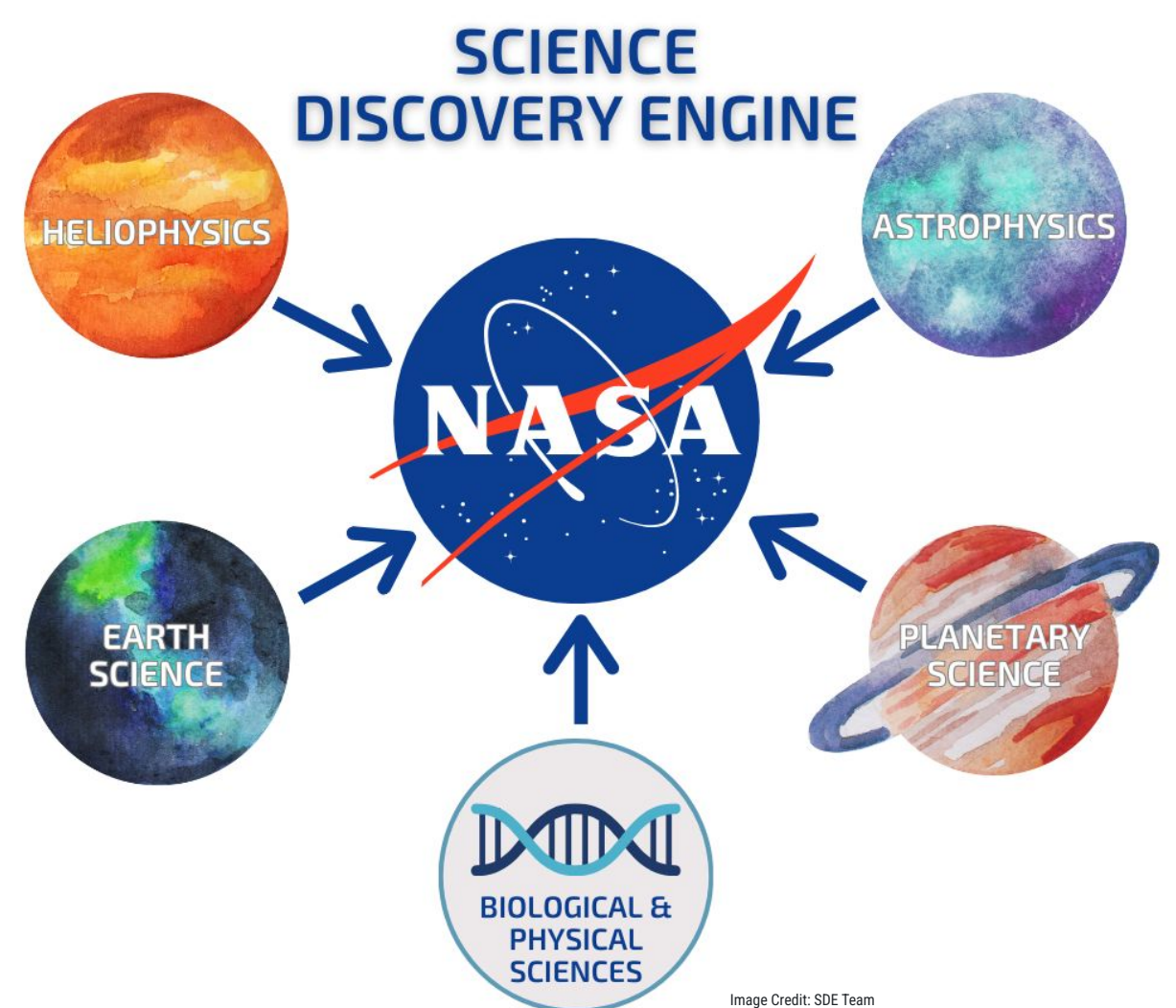


# SCIENCE DISCOVERY ENGINE

The Science Discovery Engine (SDE) provides a unified, insightful search experience to enable discovery of NASA's open science data across five topical areas: Astrophysics, Biological and Physical sciences, Earth Science, Heliophysics and Planetary Science.



The **SDE Architecture** indexes structured and unstructured information from across the SMD landscape. The content is curated in a web application, now called COSMOS. Sinequa, an Insight Engine capability, powers search. A customized user interface meets the needs of the scientific community by allowing free-text search or faceted search.

**Metadata about scientific datasets** serves as the foundation of SDE content.

Documentation includes software, code and tools to analyze the data, images to further explore the data, algorithm information, user guides, tutorials, and key information about the platforms, instruments and missions used to collect the data.



**Visit the SDE**

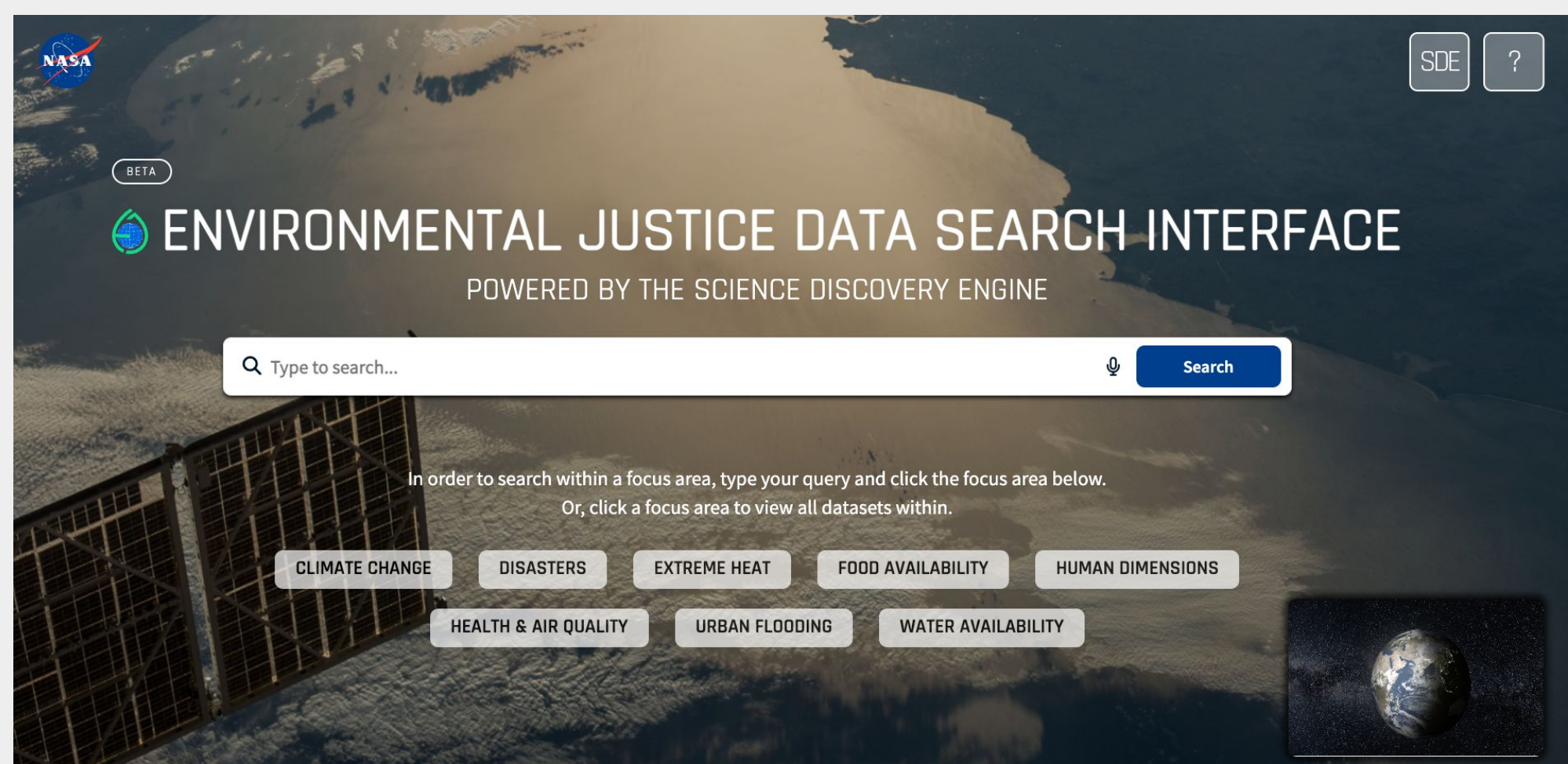
**Authors:** Kaylin Bugbee, Ashish Acharya, Emily Foshee, Muthukumaran Ramasubramanian, Bishwas Praveen, Kartik Nagaraja, Tarun Misra, Shravan Vishwanathan, Stephanie Wingo, Nikita Balsara; Xiang Li, Meghna Okhade, Justin John

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# Leveraging Insight Engine Capability To Enable Scientific Search

## Curated Search Applications

The SDE is being used to create **curated search applications** to meet the needs of specific scientific communities. The **Environmental Justice Data Search Interface** is the first application built in the SDE.



Explore the  
EJ Data Search  
Interface

## Share Your SDE Search Story!



What can you  
find with SDE?

