

GREENSPACE™

GreenSpace™ retrieves imagery from an image service from either ESRI Landsat Image Service hosted in AWS or Digital Globe™ EnhancedView Data hosted by the USG. It then uses ENVI® spectral services to compute several vegetation health and water estimates. These results are used to monitor agricultural crop growth, forest health, and areas susceptible to drought and flooding.

Normalized Difference Vegetation Index (NDVI)

— This index provides the health of vegetation by a measure of its chlorophyll content. The darker green color indicates more robust health of the plants.

Optimized Soil Adjusted Vegetation Index (OSAVI)

— This index a measure of green vegetation health that is an enhancement of NDVI. It accounts for when soil is visible through the vegetation canopy and is most suited for agricultural use or sparsely vegetated areas.

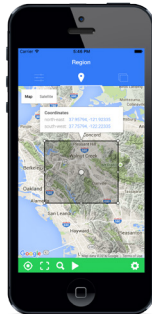
Modified Normalized Difference Water Index (MNDWI)

— This index enhances open water sources and suppresses the effects of built-up land, vegetation, and soil to indicate the presence of standing and running water both natural (rivers, lakes, marshes) and man-made (pools, fountains, drainage ditches).

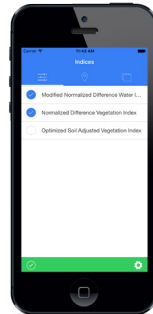
Get the Mobile App at: <https://apps.nga.mil>



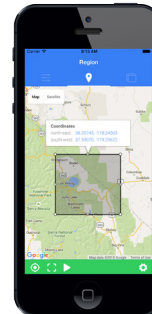
GreenSpace™ App



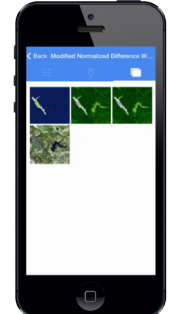
Region Selection



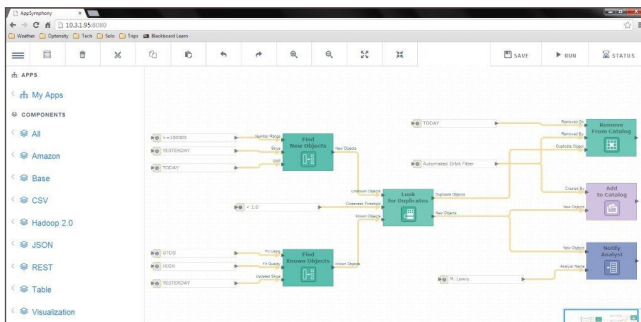
Spectral Services Selection*



Cloud Based Processing

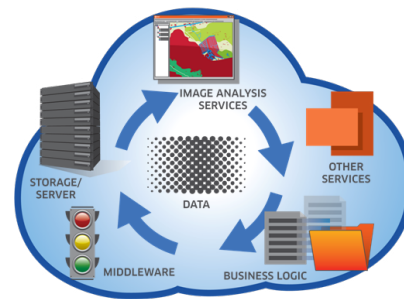


Results



AppSymphony

A cloud-based, integration platform that creates applications by integrating data sources with analytical services and algorithms in the cloud.



ENVI Services Engine

ENVI Services Engine --- provides state-of-the-art image processing analytics as RESTful services in a cloud environment

Get the App at:

