Registration

The participation is by the invitation and registration by the concerned NGEs & public organisations. There is no registration fee for participation.

Reg Link – https://www.inspace.gov.in/inspace?id=vedas_webinar

Last Date for Registration – March 24 2025

Why Should You Attend?

The VEDAS API Centre provides a unique opportunity for companies involved in developing applications and value-added services based on remote sensing data.

Key features include:

- Seamless Data Access: Instant access to a wide range of EO datasets via self-service APIs.
- Access to most recent and historical satellite imagery and products.
- Advanced Analytical Capabilities: Change detection, Temporal Analysis & AI enhanced products and services.
- Tech-Transfer & Hosting Options: Flexibility to self-host solutions for large-scale operations.
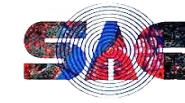
Agenda

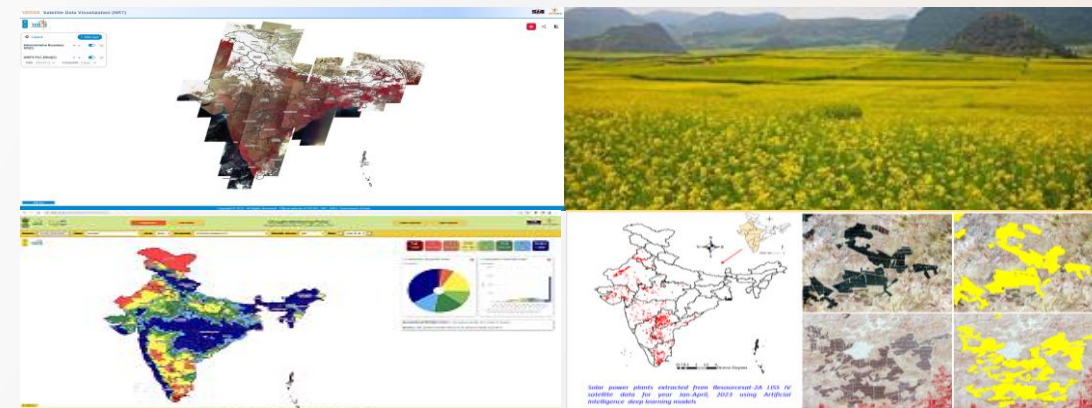|		
14:00-14:05 Hrs	Welcome	Shri Brijesh Kumar Soni DD, PD, IN-SPACe
14:05-14:15 Hrs	Opening Remarks	Shri Nilesh Desai Director, SAC
14:15-14:25 Hrs	Opening Remarks	Dr. Vinod Kumar Director, PD, IN-SPACe
14:25-14:45 Hrs	About Workshop	Dr. Rashmi Sharma DD, EPSA, SAC
14.45-15.30 Hrs	Demo of VEDAS	Shri Shashikant A Sharma GD, GAWG/EPSA, SAC
15.30-16.15 Hrs	Demo of API-Centre	Shri Pankaj Bodani Head VWAD/GAWG/EPSA
16.15-16.45 Hrs	Discussions and QA	VEDAS Team
16:45-16:50 Hrs	Vote of Thanks	

Contact Information

Shri. Shashikant Sharma
Scientist-G and Group Director
Email:sasharma@sac.isro.gov.in

Shri. Brijesh Kumar Soni
Deputy Director, PD, IN-SPACe
Email:brijesh.ksoni@inspace.gov.in

A
online workshop
on

VEDAS API Centre: An advanced self-service geospatial platform

Organized by

Indian National Space Promotion and Authorization Centre (IN-SPACe)

Dept. of Space, Govt. of India
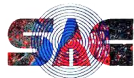
&

Space Application Centre (SAC)

Indian Space Research Organization (ISRO)

Dept. of Space, Govt. of India

March 26, 2025

https://vedas.sac.gov.in/en/

APIs available through VEDAS API Centre

About VEDAS

VEDAS (Visualization of Earth observation Data and Archival System) is an advanced geospatial platform developed by ISRO's Space Applications Centre (SAC). It offers a comprehensive suite of tools and services for **data visualization and analysis**, leveraging Indian Earth observation (EO) data **to support research, decision-making**, and operational applications.

The platform enables users to **explore diverse thematic content** across sectors such as **agriculture, forestry, desertification, wetlands, cryosphere, urban development, and air quality monitoring**. VEDAS provides a unique opportunity to **bridge the gap** between **data generators** and **analysts**, fostering innovation in geospatial applications and empowering users with valuable insights.
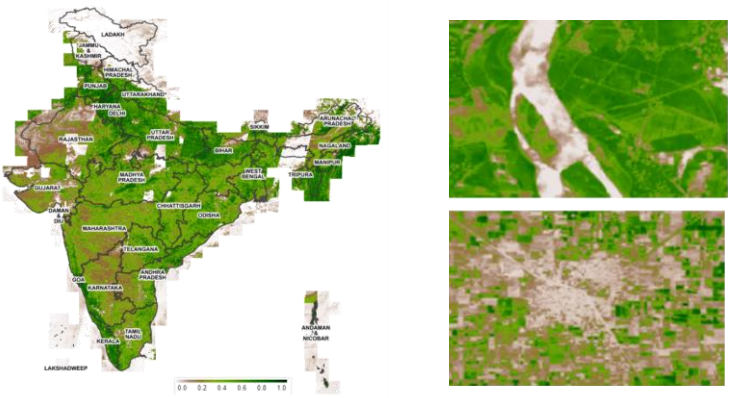
VEDAS API Centre

The **VEDAS API Centre** is an advanced self-service geospatial platform developed by ISRO's Space Applications Centre (SAC). It offers a comprehensive **suite of APIs** and **tools for data visualization and analysis**, enabling industry users **to harness EO data for research**, **decision-making**, and **operational applications**.

The platform allows **users to explore** and **integrate geospatial insights across** sectors such as **agriculture, forestry, desertification, wetlands, cryosphere, urban development, and air quality monitoring.** VEDAS API Centre provides a unique opportunity to streamline data access and foster innovation in geospatial applications, empowering users with actionable insights.
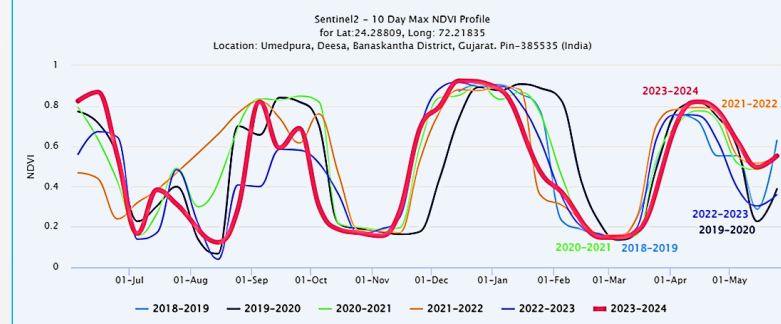
Web Map API

- False Color Composite (FCC) for AWIFS & Sentinel-2 and True Color Composite (TCC) for Sentinel-2.

- Temporal composites for customized mosaics.

- Popular geospatial indices such as NDVI, EVI, NDWI, MNDWI, SAVI, NBR, ARVI, BUI, NDSI, CI.

- Difference Maps for change analysis.

- AI-Based mask such as cloud mask or cloud shadow masks for enhanced image analysis.

Temporal API

- Provides temporal profiles of values through JSON API for a particular point or polygon area of interest (AOI).

- Offering statistics such as: Mean, minimum, maximum, and standard deviation for polygon AOIs.

- Direct time-series values for point locations.

- Temporal profiles available for both reflectance of individual bands and popular geospatial indices.

- AI-Based Cloud and Cloud Shadow Flags for improved data accuracy and reliability.

Sentinel2 – 10 Day Max NDVI Profile
for Lat:24.28809, Long: 72.21835
Location: Umedpura, Deesa, Banaskantha District, Gujarat. Pin-385535 (India)

Advantages

- Faster Time-to-Market
- Cost Efficiency
- Improved Operational Efficiency
- Reliable Insights for Business Growth
- User-Friendly Access
- Innovation Opportunities
- Up-to-Date Insights

API Centre Key Features

- Self-Service Registration
- Defined API Access
- Managed Keys
- Samples and Documentation