envision

White Paper

National Observatory of Athens

ANALYTICS ON VEGETATION AND SOIL INDEX TIME-SERIES

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Our innovative product is here to modernize the way agriculture land is monitored, providing valuable insights and automating the process of detecting potential issues. By leveraging advanced analytics and Earth observation data, we have created a comprehensive solution that includes long time series of multiple vegetation indices for monitoring agriculture land at a national scale. Our product offers more than just vegetation indices, delivering additional information and statistics in user-defined areas of interest. It also enables soil monitoring and monitoring of compliance regulations of Common Agriculture Policy (CAP) such as statutory management requirements (SMRs) and good agricultural and environmental conditions (GAECs).

KEY FEATURES:

☑ *Monitoring of GAECs and SMRs requirements through Incompliance Maps*
- Proximity to waterways / Runoff Risk assessment for NVAs water pollution
- Minimum soil cover for Soil Erosion
- Stubble Burning Identification and Burnt Scar Mapping

☑ *Harvest Events Monitoring and Detection of illegal activity on Natura2000 regions*

☑ *Comprehensive GIS and Analytics Tools*
- Advanced Visualization of Vegetation Indices
- Robust Temporal and Zonal Statistics
- Dynamic Animations of Area Evolution over Time
- Smart Multi-Faceted Geospatial Queries
- Accurate Detection of Index Anomalies and Trends

PAS ADVANTAGES WITH ANALYTICS ON VEGETATION AND SOIL INDEX TIME-SERIES

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☑ Enhanced Monitoring

Continuous monitoring of vegetation and soil over time.

☑ Early Detection

The time-series analysis provides an early warning system for any potential problems.

☑ Improved Efficiency

The service helps to reduce the time and resources required for manual data analysis and interpretation.
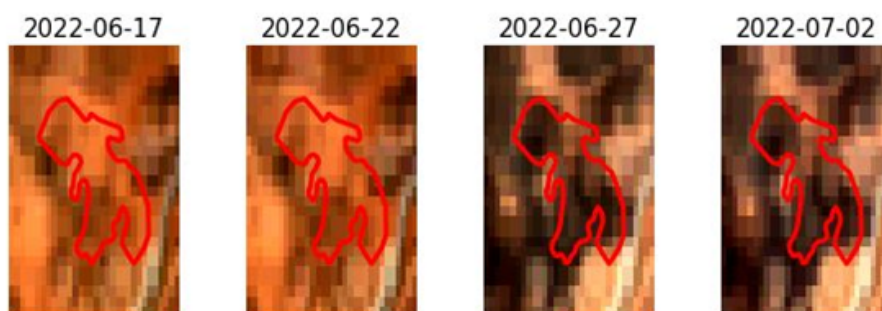
☑ Scalability

The service can be scaled to accommodate small areas of interest as well as large-scale national monitoring programs.

☑ Customizable Analysis

The service offers a variety of customizable analysis tools to meet specific needs and requirements.

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Stubble Burning Events Detection