SAP HANA Spatial Services
Enabling Digital Transformation with EO

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SAP HANA

SAP HANA® Platform
On premise | Cloud

Application development
- Web server
- JavaScript
- SAP Fiori® user experience (UX)
- Graphic modeler
- Application lifecycle management

Advanced analytical processing
- Spatial
- Graph
- Predictive
- Search
- Text analytics
- Streaming analytics
- Series data
- Business functions

Data integration and quality
- Data virtualization
- Extract, load, transform, and replication
- Data quality
- Apache Hadoop and Apache Spark integration
- Remote data sync

Database management
- Columnar store – Transaction and analytical processing
- Multicore and parallelization
- Advanced compression
- Multitenancy
- Multitier storage
- Data modeling
- Openness
- Administration and security
- High availability and disaster recovery

ONE Open Platform
OLTP + OLAP
ONE Copy of the Data
HANA Spatial Services

Vision - Overview

The only business-ready spatial data platform

- Transparent combination of business and spatial data
- Establish locational data and services across all business processes
- Provide optimized industry solutions based on unified spatial and connected data
- Build an open and extendable ecosystem
- Combining sustainable development and business goals
- Reduced complexity, minimized costs, fast response to emerging trends

Open Spatial Platform leveraging HANA Spatial, Graph and ML

- Continuous data collection and information extraction
- Closing the gap between earth observation experts and business decision makers
- Seamless partner integration of location-based services, geo-referenced data, and expert extensions
- Unique industry and customer models based on spatial and business data
- Intelligent spatial services based on SAP HANA and supervised learning models
Value Chain

Bridding the Gap between Spatial & Business Experts

Customer Model
Industry models with customer data in business apps (for decision makers)

Industry Models
Industry models based on surface indices in business apps (for decision makers)

EO Apps
EO Apps based on surface information for GIS Experts

Surface Indices & Raw data
For experts, specialist, researchers and developers
SAP HANA spatial services (HSS)
Spatial information as a service

- Surface API
- Weather API
- Wildfire API
- Modeler API
- Object Detection API
- Spatial Data Management API
- Process Management API
- Earth Observation API
- Mapping API
- Point of Interest Search API

- Quit spending time processing imagery - we do it for you
- Manage cost and scale with spatial services in the cloud
- Easily integrate services into custom business applications
- Create custom services and models
- Visualize the results from spatial services in an application
Spatially Enable the Intelligent Enterprise
Optimized Supply Chain Management

1. Identify plantations
2. Get historical spatial information
3. Correlate with customer business data
4. Find key drivers and build yield prediction model
5. Run model 24/7 and improve business decisions
Thank you

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Landing Page

Reference Guide
https://help.sap.com/viewer/16e86e562ffa46a09ba1174616af11e5/1.0/en-US