Role of Geospatial Standards for Building New Product Market Opportunities
About SatSure

We leverage advances in satellite remote sensing, machine learning, big data analytics and cloud computing to help enterprises make smart decisions. We are currently serving clients globally across sectors.

Banking

SATSURE SAGE

Farm credit management solution

- 2mn+ farmers loans disbursed
- 390k+ farmers claim settled

Agriculture and Climate

SATSURE SPARTA

Platform for application ready data products

- 160mn+ hac of land analyzed
- 5K+ farm’s ground data validated

Infrastructure

SATSURE SKIES

Infrastructure monitoring solution

- 12k civilians rescued in floods
- 20% cost savings for transmission lines

Confidential
Impact of Missing Open Standards

- Data captured and maintained at different sources like Revenue Departments, Agriculture department other Private and Government organisations
- Multiple level of data duplications with no standard collection and maintenance systems
- No standards for storage and fetching
- No Bulk API calls available for Government Data sets
- Data has to be integrated from multiple sources like Government Departments, Banks, Insurance Companies, Field Staff Vendors etc.
- The data has no common standard and every organisation has its own data collection and management methods
- Without standardisation, data storage, retrieval, and processing systems becomes a challenge
Geospatial standards are a set of guidelines and protocols that define how geospatial data and information should be organized, structured, and exchanged to ensure consistency, compatibility, and interoperability among various systems and applications.

Standards provide a common language and framework for data sharing, analysis, and collaboration.

Standards facilitate innovation and development in the geospatial industry by enabling the creation of new applications and solutions on a foundation of interoperability and consistency.
Geospatial Standards at SatSure

Web Map Service

- WMS is a standard that allows the retrieval of geospatial map images over the internet. It provides a standard interface for serving maps as images, which can be dynamically generated on user request.
- Widely used in various domains such as monitoring, planning, emergency response for geospatial data visualisation and analysis in the form of maps facilitating better decision making.

Different Imagestacks converted to Maps
GeoAPI is an OGC standard that enables developers to write geospatial applications that are compatible with different data sources and processing frameworks.

STAC is a community-driven specification that provides a standardised way to organise and describe geospatial assets, making it easier to discover, access and process them.
Cloud Optimized GeoTIFF

- COGs are a file format and storage optimisation approach for geospatial raster data.
- COGs are widely used in cloud based geospatial applications like analysis of satellite imagery, remote sensing etc.
- COGs enable users to efficiently access and process large volumes of geospatial raster data in cloud environments, resulting in faster analysis, reduced costs and better scalability.

Image from Deciphering Cloud Optimized GeoTIFFs by kitware.com
Unlocking The Potential: The Power of Standards

Consistency, Interoperability, Collaboration, Efficiency and Innovation

- Data can flow more freely across platforms, reducing compatibility issues
- Streamlined processes, reducing the time and effort required to access and use geospatial data
- Data is structured consistently, making it easier to understand and work with, regardless of its source
- With standards, developers can create new applications and solutions more easily, accelerating the innovation
Thank You