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Advancing Geospatial and Earth Observation Data Analysis: The Role of ISO's Technical Committee 211 in Standardizing Imagery and Gridded Data

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ISO's Technical Committee 211's Working Group 6 (WG6) standardizes geographic information, focusing on imagery, gridded data, and coverage data, along with their associated metadata. With emphasis on remote sensing and earth observation, WG6 provides standards for geopositioning, calibration, and validation. These combined efforts are foundational in creating structured, multidimensional data for use in data cubes and other gridded data endpoints. Upstream structured grid data is foundational, providing consistency for downstream AI analytics. WG6's standards foster interoperability for use in diverse systems, enabling machines to process and interpret data over spatial, temporal, and spectral dimensions. Such work is critical in advancing open standards for interoperable, multi-dimensional analysis-ready data, for future geospatial and Earth observation data analysis. We will present some of the fundamental standards that exist or are in creation to support multi-dimensional analysis-ready data.