Project information FACT SHEET 19130

19130 Geographic information – Sensor and data models for imagery and gridded data

This international standard specifies a sensor model describing the physical and geometrical properties of each kind of photogrammetric, remote sensing and other sensors that produces imagery type of data. It also defines a conceptual data model that specifies, for each kind of sensor, the minimum content requirement and the relationship among the components of the content for the raw data that was measured by the sensor and provided in an instrument-based coordinate system, to make it possible to geolocate and analyze the data. The sensor model defines the information needed to describe the physical and geometrical properties of the sensors and to relate the sensor configuration to the platform configuration. It classifies sensors according to their geometrical properties, whether they collect data a point at a time, a line at a time or an area at a time and lists the required information for each collection type. Then, it defines the required parameters for physical description of the type of sensors. The data model describes the different forms in which geolocation data is provided, describes the minimum content for each and specifies how geolocation data is combined with the data in the structure provided to the user.

The standard is of particular relevance to the following sectors:

Sector	Of particular interest
Developers of GIS products	
Developers of GIS application systems	
Producers/ suppliers of geographic data	Yes
Users of geographic data and GIS	Yes
Developers of standards	

For further information on this standard and its implementation, please contact ISO/TC 211 secretariat via www.isotc211.org.

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