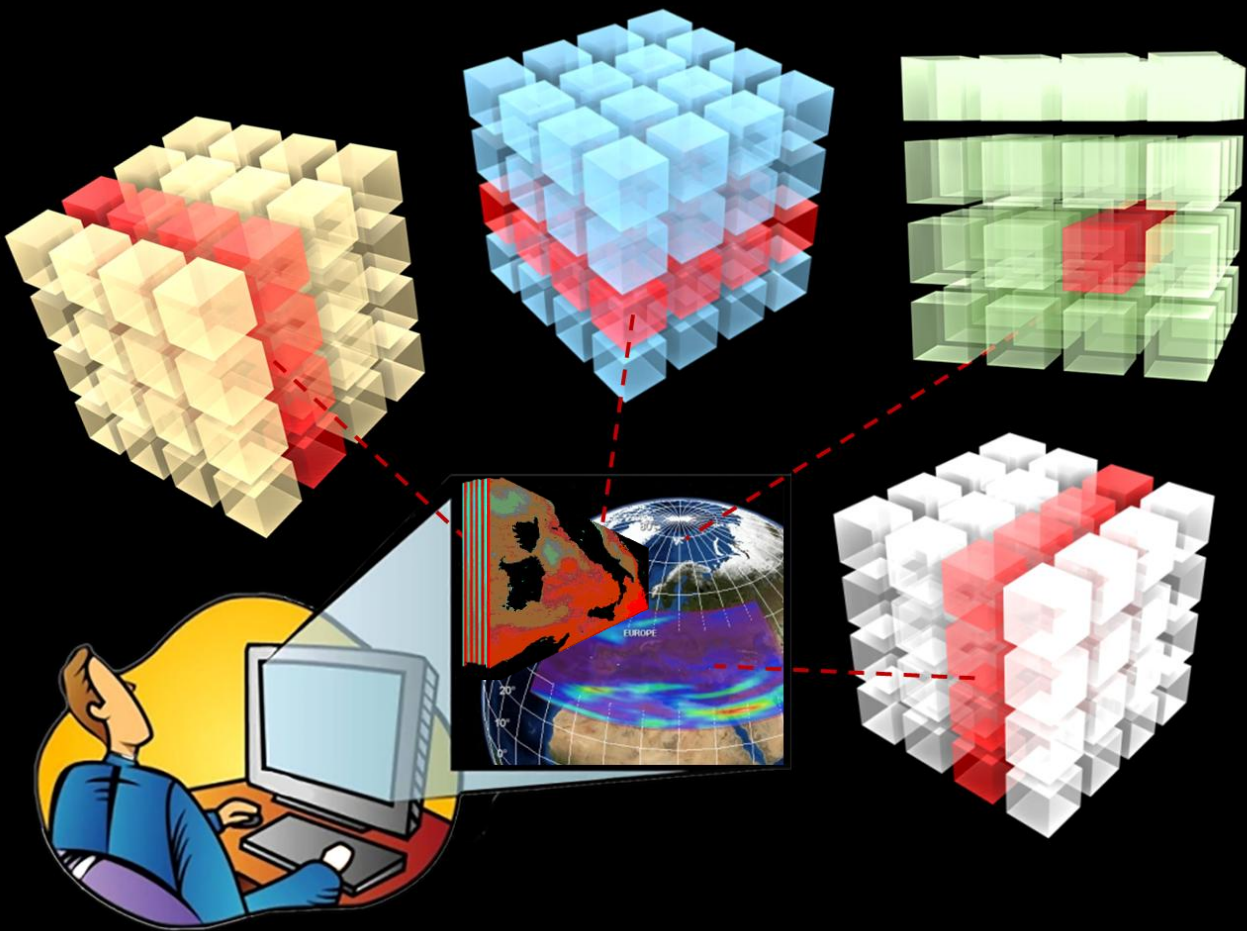


rasdaman

raster data manager



The leading Big Datacube Analytics engine

- any query, any time, on any size -



Fast.

Flexible.

Scalable.

Multi-dimensional.

Secure.

Open standards.

Open source.

Unprecedented performance through adaptive partitioning, parallel & distributed processing, mixed hardware use

Direct access, aggregation, analysis, and fusion – without coding, thanks to the enabling datacube query language

From laptop to cloud to planetary federation to nanosat

Complex analytics on n-D spatio-temporal sensor, image, simulation, and statistics data

Easy-to-define policies enforced down to single pixel level

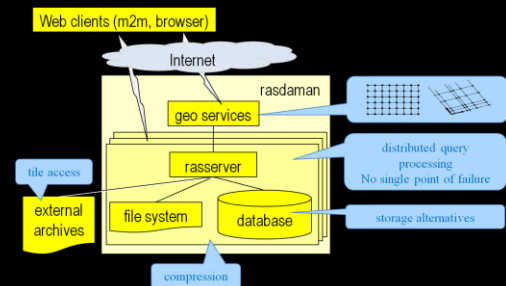
Blueprint for OGC, ISO, INSPIRE datacube standards
Official OGC and INSPIRE Reference Implementation

Free download from www.rasdaman.org

The high-performance **rasdaman** (“raster data manager”) datacube engine resembles the world’s leading, multi-award winning Array Database System – and the only one enabling location-transparent datacube federations. Through its unique “*what you get is what you need*” paradigm, **rasdaman** processes server-side and delivers only the exact result needed – no bandwidth is wasted. While developers enjoy the powerful query language, data users can remain in their comfort zone and, without requiring coding skills, simply use their well-known clients. Its patented architecture makes **rasdaman** the best performing of its kind, smoothly embedding itself into IT infrastructures, readily working directly on any archive without database import.

This **hitech made in Germany** is mature and operational on tens of Petabyte data assets; queries have been parallelized 1,000x in the Amazon cloud. Its enabling high-level datacube query language has made **rasdaman** the blueprint for the Big Datacube standards of OGC, ISO, and EU INSPIRE. **Application domains** include

- **Earth Science:** 1D sensor timeseries, 2D satellite imagery, 3D x/y/t image timeseries and x/y/z geophysical voxel data, 4D x/y/z/t atmospheric & ocean data, etc. Manifold clients are supported, ranging from navigation (e.g., OpenLayers) over Web GIS (e.g., QGIS and ArcGIS) to analytics (e.g., python and R) as well as visualization (e.g., NASA WebWorldWind), coupled through the open OGC standards; in fact, **rasdaman** is official OGC and INSPIRE WCS Reference Implementation.
- **Space Science:** optical & radio astronomy data, cosmological simulation data, etc.
- **Life Science:** all image modalities, such as X-ray, CAT scan, confocal microscopy, etc.
- **Statistics & Business:** next-generation MOLAP system, combining MOLAP speed with ROLAP scalability



rasdaman is available as open source *rasdaman community* and proprietary, compatible *rasdaman enterprise* edition which adds highly effective scalability enablers and various convenience tools; maintenance is available for both.

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