WA+ implementation

International Water Management Institute

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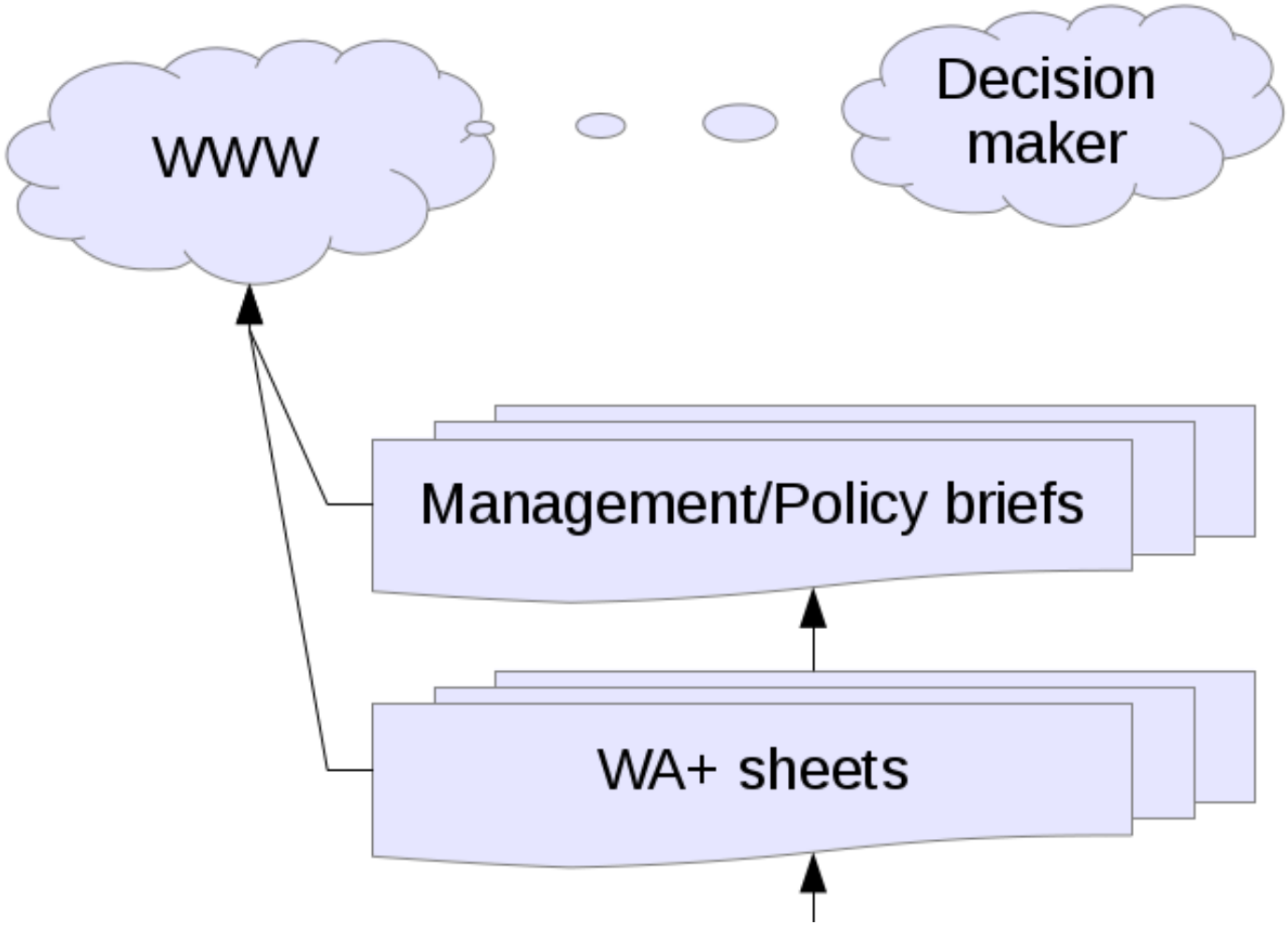
Genie

System architecture required by IWMI to implement the WA+

- Policy briefs
- Online basins/systems
- GIS Processing unit
- GeoRaster abstraction DB
- Handle dataset sources

Online & End-Users

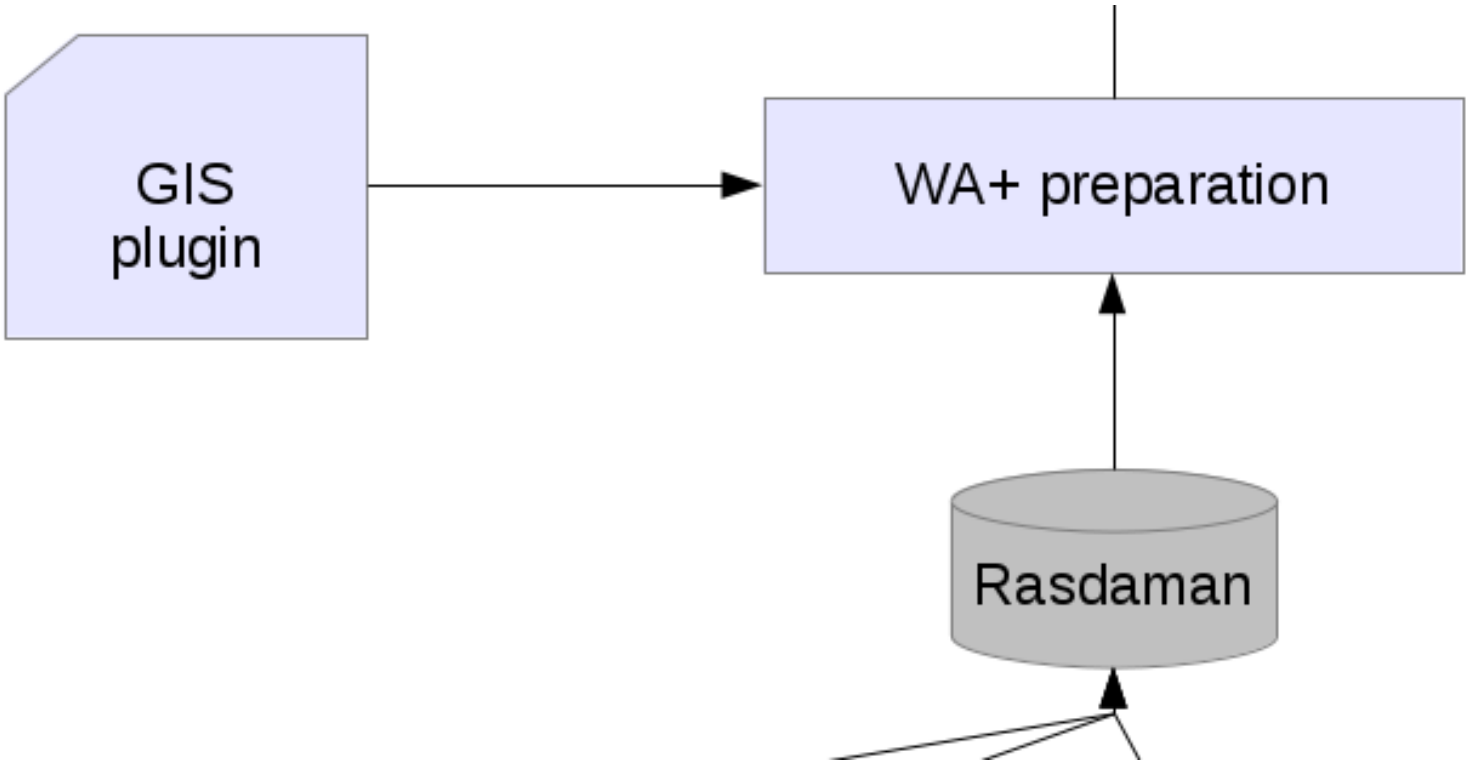


Online genie

IWMI WA+ online repository

- Different multiple datasets
- Various sources aggregation
- Parametric sensitivity handling
- WA+ routines
- GIS spatio-temporal processing server

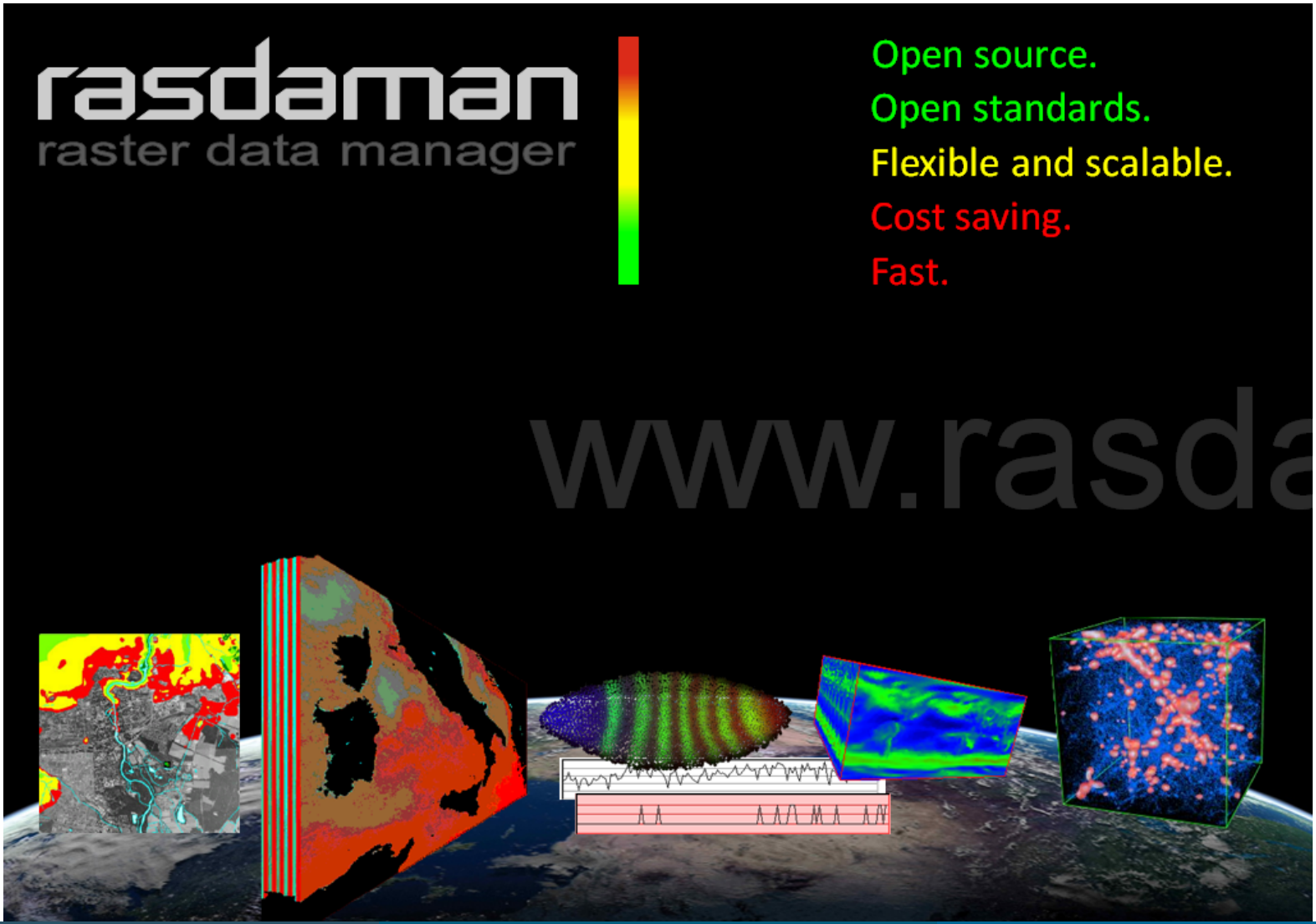
GeoDatabase



Rastaman

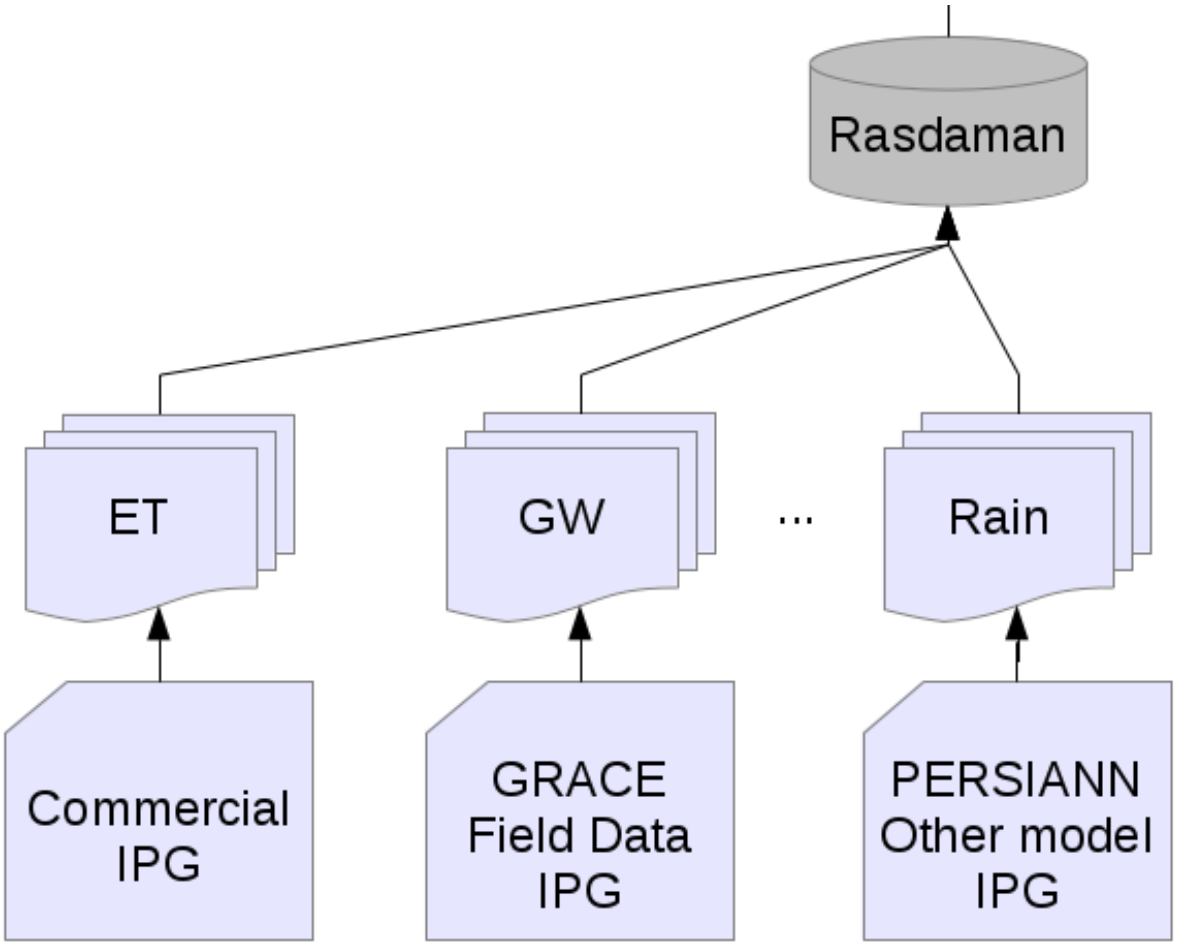
Rasdaman

Supports OGC WCS 2.0, WCPS 1.0, WPS 1.0
Supported by Jah! Heavenly Cloud service



Data Sources

- Live linking IPGs
- IWMI own GeoDBs of sources



Data sources

Data sources and WA+:

- Highly integrative nature (uncertainty)
- Fall-back datasets (IPGs) for users

Dimensionality (proposed)

- Time: daily and monthly
- Space: 100m and 1km

This will have most of the dimensions of interest addressed, while respecting most of the scientific sources.

Conclusions

WA+ can be implemented

- Uncertainty is going to be the biggest scientific concern
- GeoDB advanced solutions already exist

Thank You