Spatial RDBMS

PostgreSQL + PostGIS

3 November 2014
Players in the field

IBM

DB2® Spatial Extender

ORACLE®

Spatial

MySQL

Microsoft®

SQL Server™

PostgreSQL

PostGIS

Spatial PostgreSQL

Deltarcs

3 November 2014
PostgreSQL with PostGIS is a RDBMS…

- with support for a geometry type (point, line, polygon)
- able to index this geometry type data
- which has functions for the geometry type data

... and hence is able to answer GIS questions directly and on large volumes of data.

The DBMS is aware of the spatial data.
Why use PostGIS?

- Transactional integrity
  (concurrent users, concurrent edits)
- Data integrity
  (enforced by constraints)
- Uniform storage, management and access
  (by means of OGC standards and SQL)
Why use Postgis? (cont.)
Position Spatial RDBMS within OpenEarth:

catalogue of data

graphics of data
tailored data
standard data
raw data

OGC CSW: CATALOGUE: geonetworks, okan, …
OGC WXS: OTS WEB VIEWER (THIN CLIENT)
OGC WXS: geoserver
OGC WXS: ncwms, …
OGC WPS: web processing service
OGC SFS: PostGIS
ISO SQL: PostgreSQL
SubVersion
Lineage / version control of raw data, processing and ETL
www.openearth.eu

Legend:
ROADMAP
DEVELOPMENT
OPERATIONAL
Network topologies

WMS / WFS / KML

GeoServer

PostgreSQL + PostGIS

ArcGIS

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