

Commercial Spatial DB Systems

Visualizing Spatial Data with ...

GeoMedia

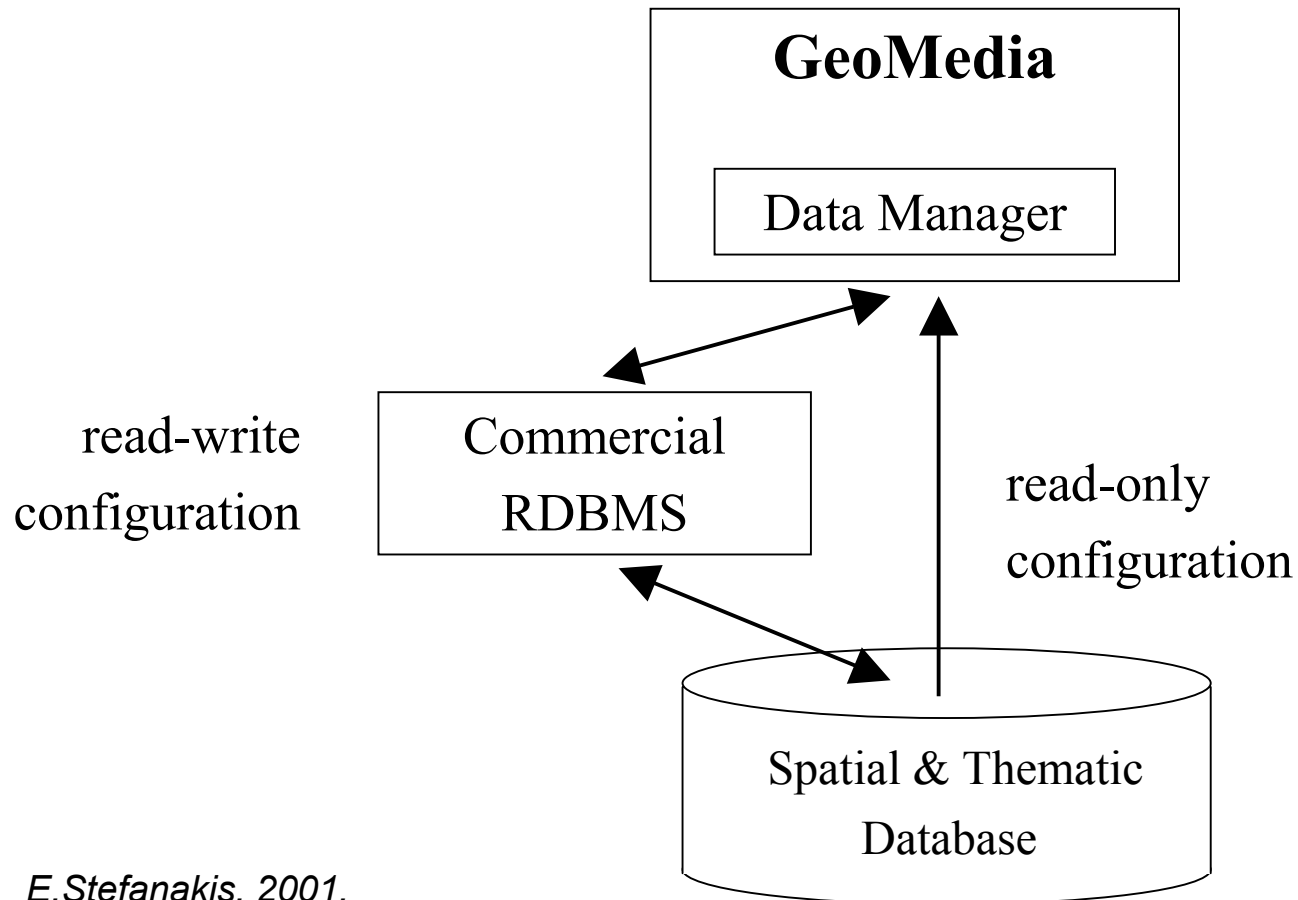
(Professional - version 4)

GeoMedia Pro

- GeoMedia Professional (Pro)
 - a spatial data collection and management product
 - specifically designed to work with **standard relational databases**
 - focused on high productivity data capture and editing, data analysis and reporting

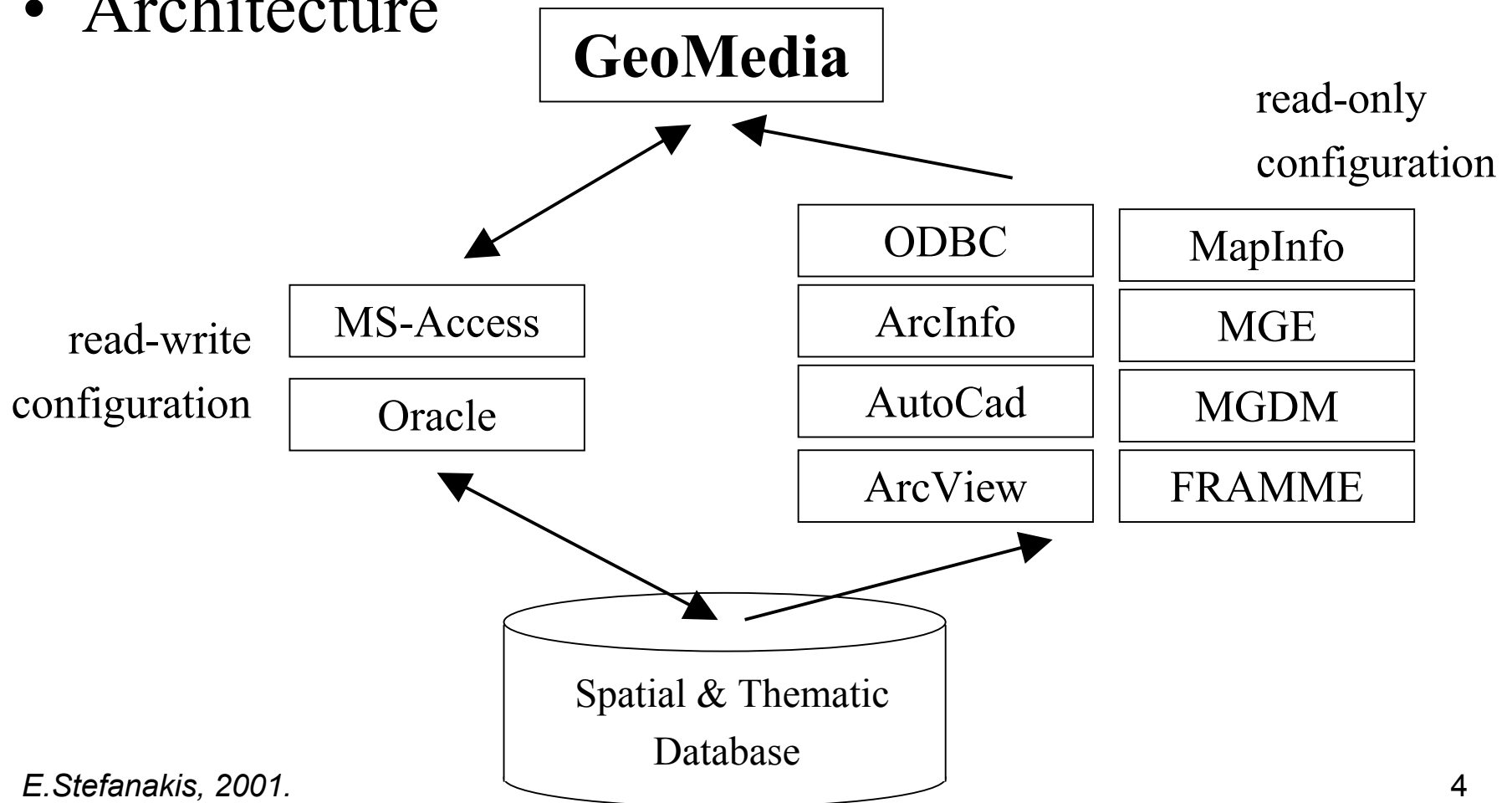
GeoMedia Pro

- Architecture



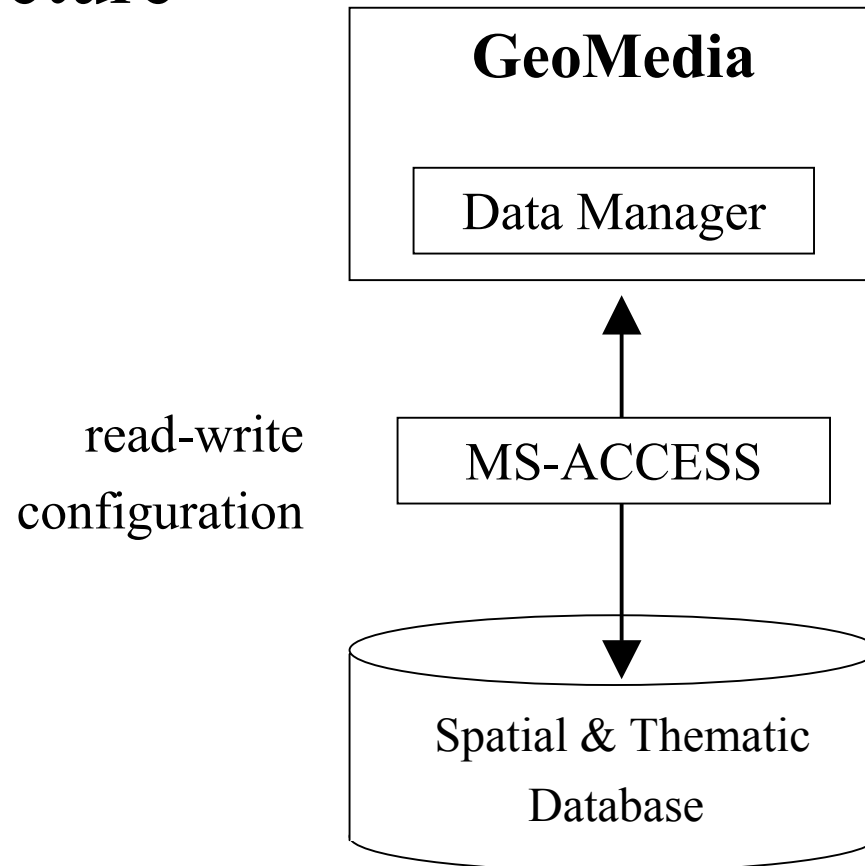
GeoMedia Pro

- Architecture



GeoMedia - MSAccess

- Architecture



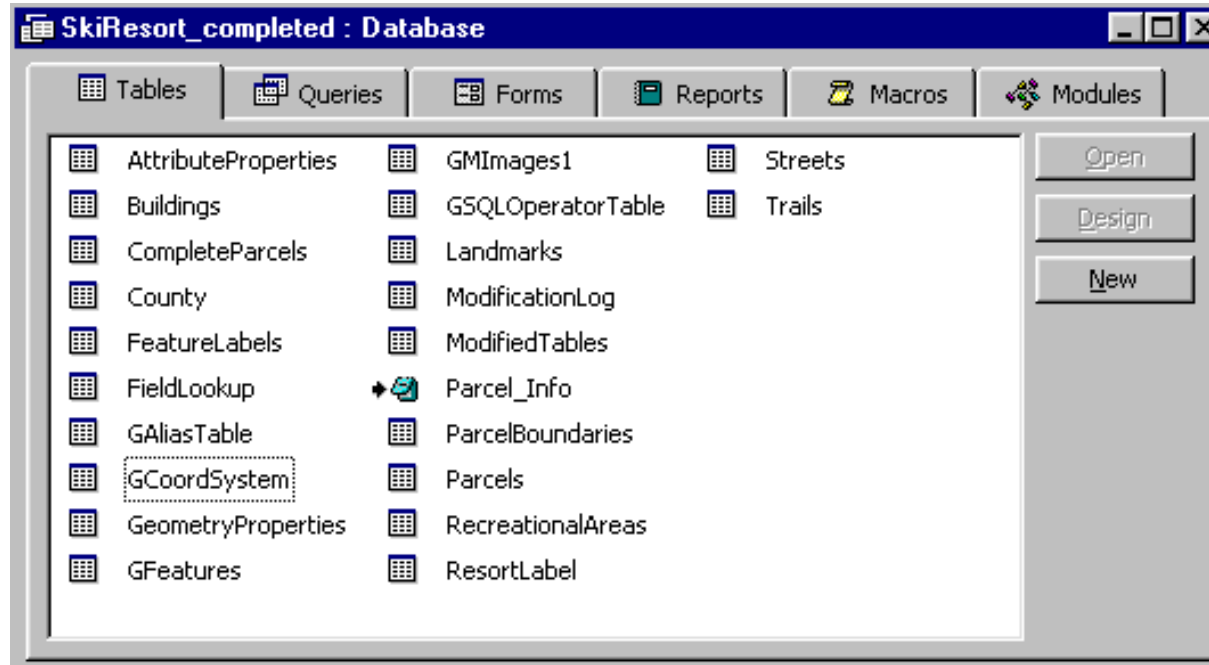
GeoMedia - MSAccess

- Data storage ...
 - **Geometry** is stored in a **binary field** along with thematic data in MS-Access tables

Streets : Table				
	Name	Type	Street_ID	Geometry1
▶	Street A	RD	1	Long binary data
	Street B	RD	2	Long binary data
	Street C	RD	3	Long binary data
	Service Road	RD	5	Long binary data
	Street A2	AVE	16	Long binary data
*				

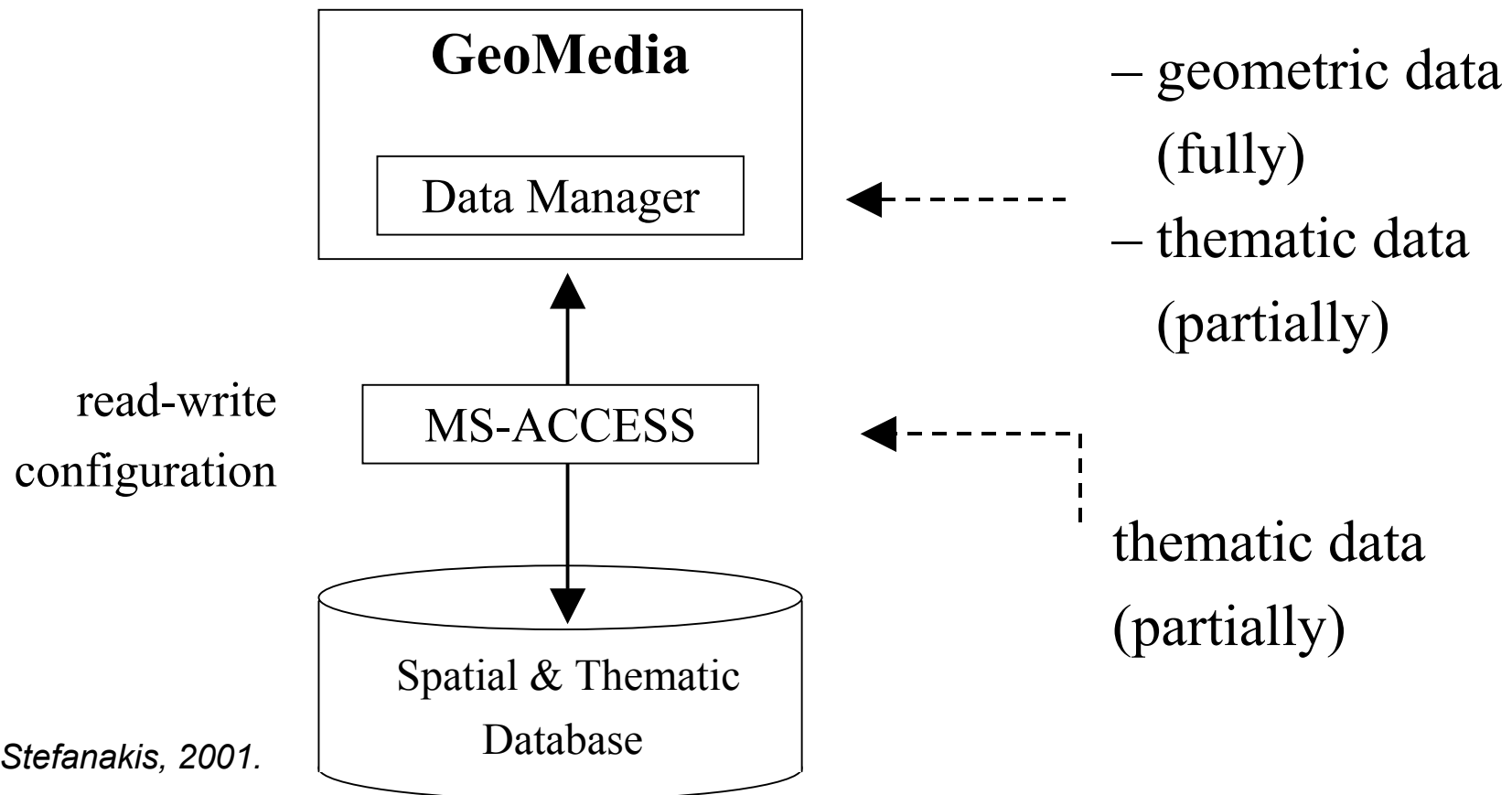
GeoMedia - MSAccess

- Data storage ...
 - Additional tables store geometry type descriptions, coordinate system definitions, etc.



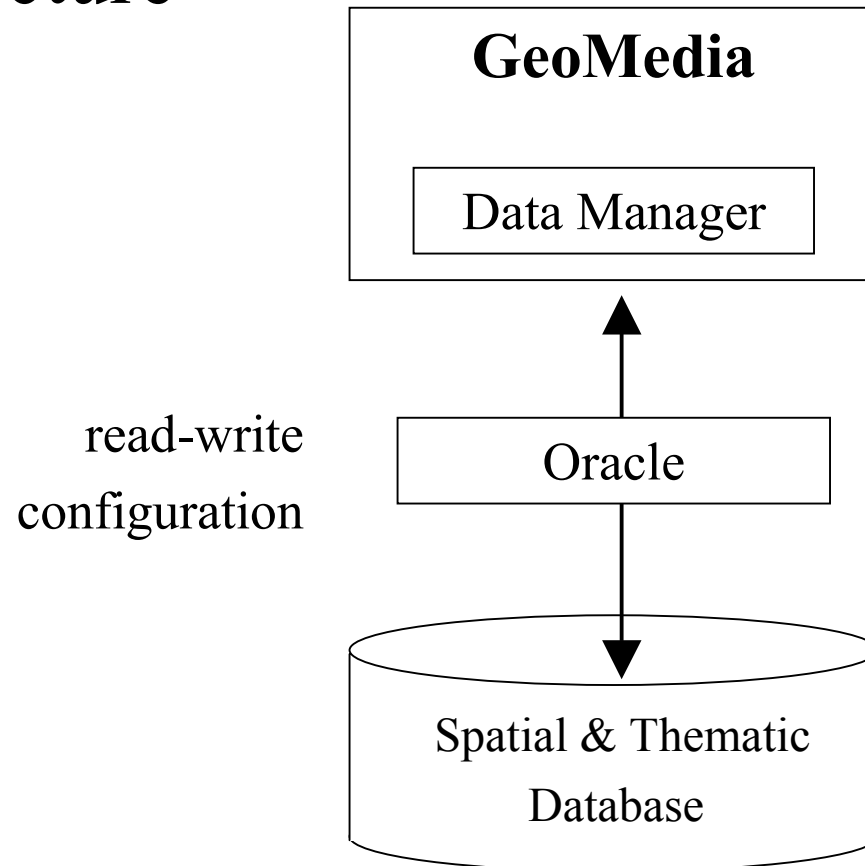
GeoMedia - MSAccess

- Data Management ...



GeoMedia - Oracle

- Architecture



GeoMedia - Oracle

- Data Storage and Management
 - inside Oracle
 - exploitation of ...
 - data model
 - operation model
- provided by Oracle Spatial

GeoMedia - Oracle

- Data Storage and Management
 - two alternative models (two options in GeoMedia 4)
 - object relational model (enhanced capabilities)
 - relational model
 - Object-relational model
 - generation of geometry tables
 - SDO_GEOMETRY object type (class)
 - Relational model
 - geometry stored in four tables

GeoMedia - Oracle

- Data Management

