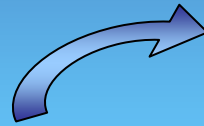


Internet Mapping



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Internet Mapping

- Make maps for the masses
- Geoprocessing on the Internet
- Intranet enterprise GIS



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Internet Mapping

- Maps for the masses
 - Non GIS users
 - Environmental, historical, scientific, community data
 - Recreational mapping
 - Level playing field
 - Publisher discretion
 - Increased speed = increased information
 - Get results through maps *****



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Internet Enabled Geoprocessing

- GIS Users
- Spatial data for analysis
- Publish and download spatial data
- True client/server connectivity (data and services)



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Internet mapping

- Static Maps
 - Publish images of pre-generated maps
 - JPEG, GIF, PNG, etc.
- Dynamic Maps
 - Custom maps generated and *Spatial Analysis* performed on demand



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Dynamic Maps

- High performance Map server
 - Map renderer
 - Spatial Analysis
- Client browser
 - HTML, Java, ActiveX
- Object based integration
 - Web server and the internet map server
- Coupled to Spatial Database Engine
 - High performance, multi client
- Incorporates process manager
 - Control throughput and agents



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Intranet Enterprise GIS

- Connect to enterprise information
 - ArcSDE, Oracle, MS SQL, DB2, etc.
 - Results of spatial analysis
 - Distributed, organizational clients using enterprise spatial databases linked to GIS server processors



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Flavors

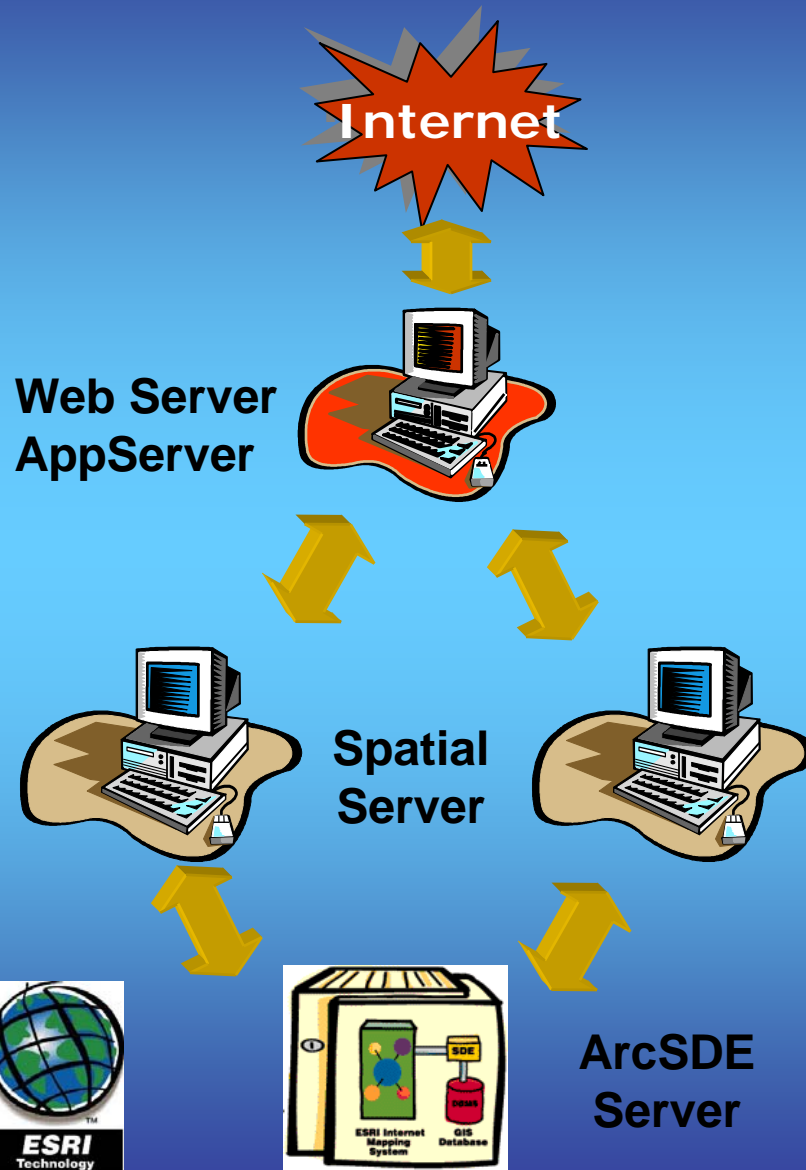
- ArcIMS
 - <http://www.esri.com>
- AspMap
 - <http://www.vdstech.com/aspmap.htm>
- Demis Map Server
 - http://www.demis.nl/DEMIS_UK/
- Geode
 - <http://geode.usgs.gov/>
- GeoServe.org
 - <http://sts.gsc.nrcan.gc.ca/>
- IMaper
 - <http://www.imapper.com/>
- InterroMap
 - http://www.interromap.com/im_portal
- MapServer
 - <http://mapserver.gis.umn.edu/>
- Map TV
 - <http://www.spatialmedia.com/>
- Web-Mapper
 - <http://www.web-mapper.com/main.cfm>
- WebView
 - http://www.zebris.com/english/main_produkte.htm



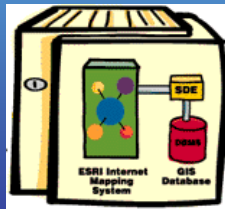
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Three Machine + DB Server Scenario



- Capacity
 - 150,000 maps/day (16 max. req/s)
 - 99% availability (3.6 days/yr)
- Configuration
 - 1 machine for Web server and AppServer
 - 2 machines for spatial server
 - 1 ArcSDE server



ArcSDE
Server

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Demos

- <http://206.229.43.15/phase2/test%20space/>
- <http://165.166.39.5/giswebsite/default.htm>
- <http://www.forestrim.org/>
- <http://minemaps.ky.gov/>



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