

AUTONOME PROVINZ BOZEN -
SÜDTIROL

Abteilung 9 - Informationstechnik

Amt 9.6 – Amt für raumbezogene und statistische
Informatik



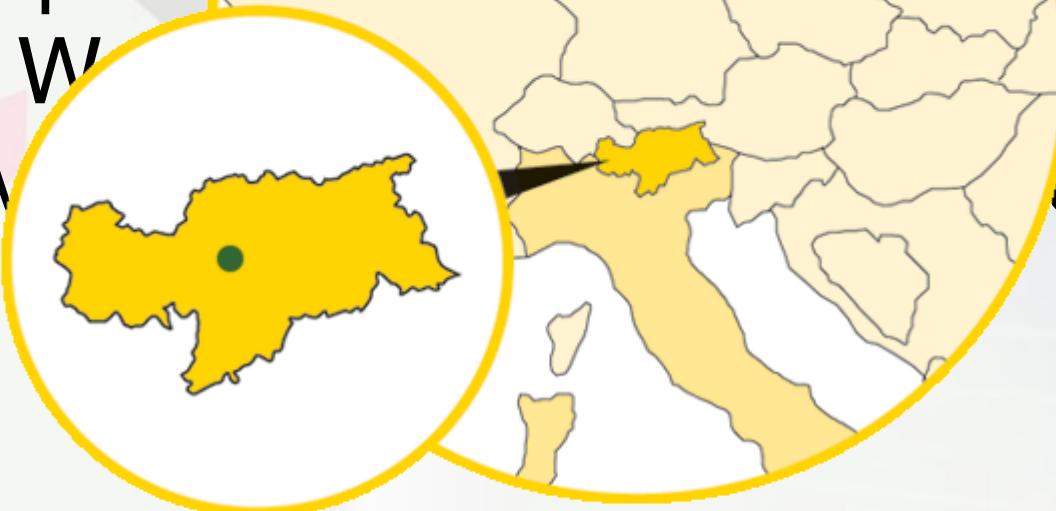
PROVINCIA AUTONOMA DI BOLZANO – ALTO
ADIGE

Department 9 – Information Technology

Office 9.6 – Statistical and Geo-

El uso de gvSIG
extensiones reutilizables
standard para
base en Web
„proyecto“

el desarrollo de
el cliente
que se
para la
o“



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gvSIG as a standard client for an infrastructure based on GIS WebServices te standard para una infraestructura que se basa within the Autonomous Province of Bolzano

The implementation of gvSIG extensions.

Leitner Helmuth
Rizzolli Susanne
Zambaldi Martin



History

Objectives

The role of gvSIG

Module 1: WG EDIT

Module 2: geneSIG

Outlook



History

1990



ArcView® GIS

ArcINFO 1995

Coverages

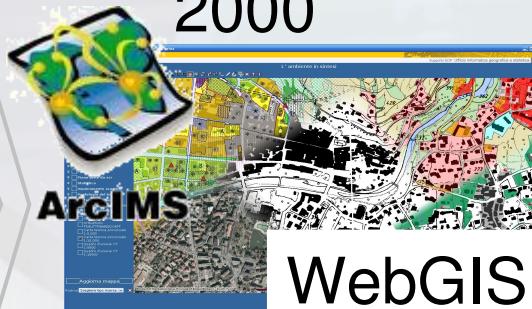
ArcView
Shapefiles



Integration of GIS-Tools,
Diffusion of GIS-Tools

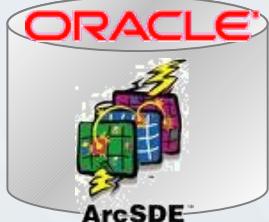
2000

2000



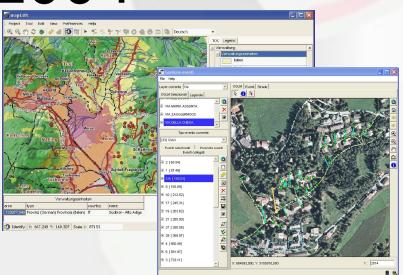
WebGIS

2005

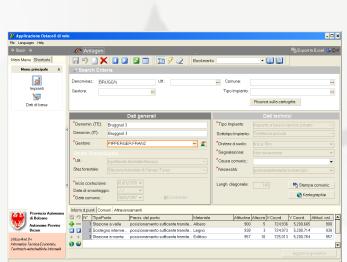


Diffusion of data,
Centralization of data

2004



Requests for solutions for
Geodata management



2007

Objectives for the
future

- GIS Infrastructure
 - Geodata Management
- Geodata Infrastructure, new GIS**

2009

Leitner Helmut, Rizzoli Susanne, Zambaldi
Martin



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Objectives

Three-tier architecture

System has to cover a large number of requests

System with reduced costs for maintenance

Persistent topology

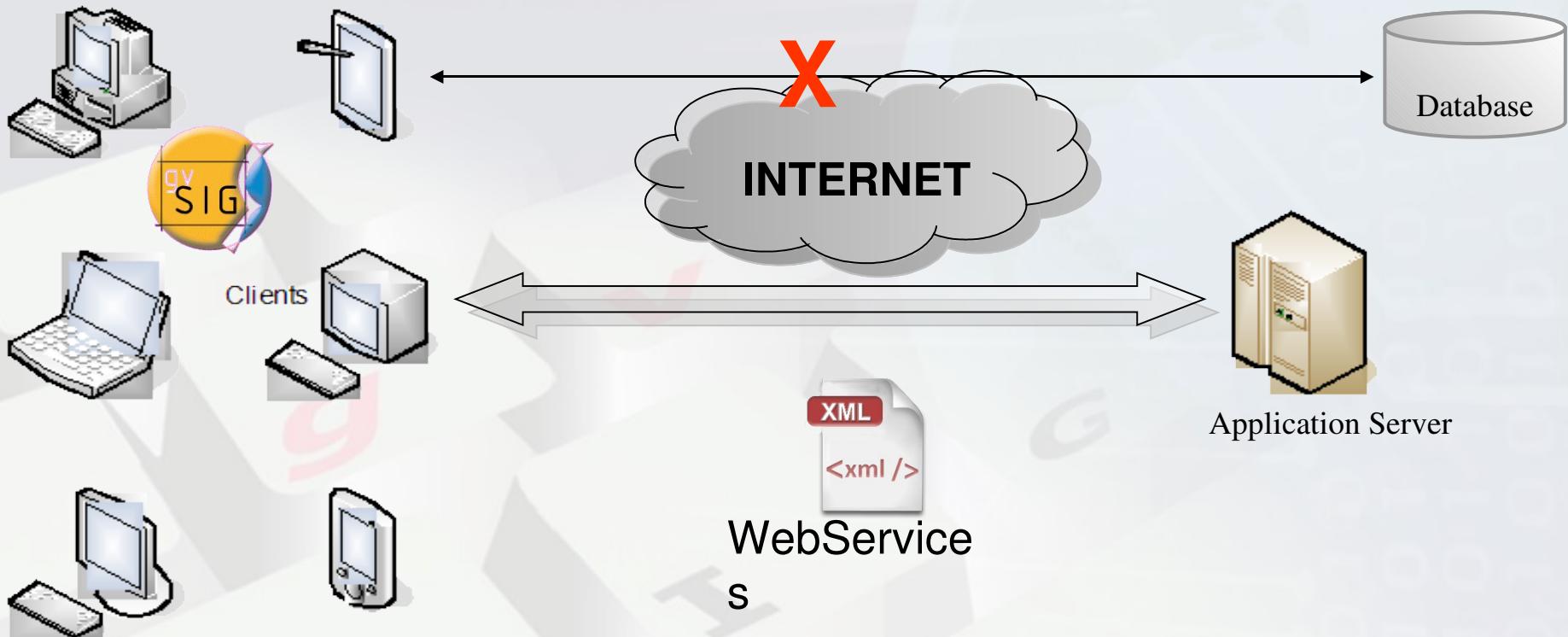
Unified management of geodata and alphanumeric data

Database – data integrity, data security

Standardisation of the communication interfaces
(WebServices)



Objectives



The role of gvSIG

Requirements for a standard Client:

Complete GIS-Tool

Free/open source product

GIS-Tool with guarantee of continuity

User friendly interface (GUI)

The standard client



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Leitner Helmtuh, Rizzoli Susanne, Zambaldi
Martin



The role of gvSIG

2007

2009

2011

2013

EDIT:

gvSIG as editing client in a data management system of the road WEGE and the correlation goes 2 newGIS

Project geneSIG:

Structure based on gvSIG as standard client. geneSIG with editing functionalities to interact with the

Requests for solutions for Geodata management

gvSIG ...
as a client within a running system

newGIS as a new running system

gvSIG ...
as client to interact with newGIS

geneSIG the new standard client



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History

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The role of gvSIG

Module 1: WG EDIT

Module 2: geneSIG

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Module 1: WG_EDIT

WG_EDIT = WEGE + EDITING

What is WEGE?

Geographic information system for the road infrastructure management and correlated elements.

Module based system to unify and manage the whole data concerning road / traffic

Collaboration and coordination



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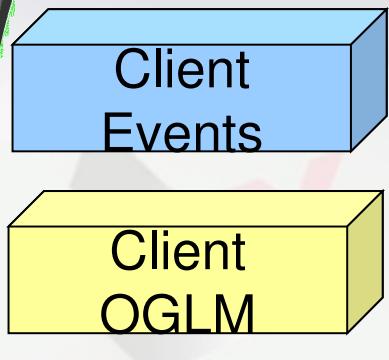
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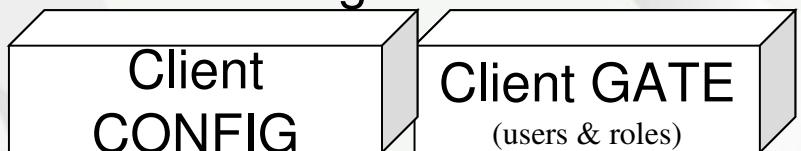


Module 1: WG EDIT

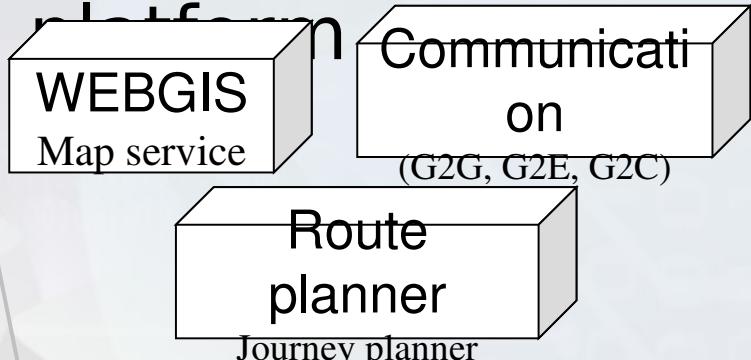
Data management



Configuration



Internet



www.provinz.bz.it/verkehrsporta

Module 1: WG_EDIT

Objectives:

Guarantee the topology of the road network

Follow the flexible and open system of newGIS

Create an innovative application

Manage the geometry including the
z-coordinate

Assure user's requirements

Create a multiuser application with user access
rights

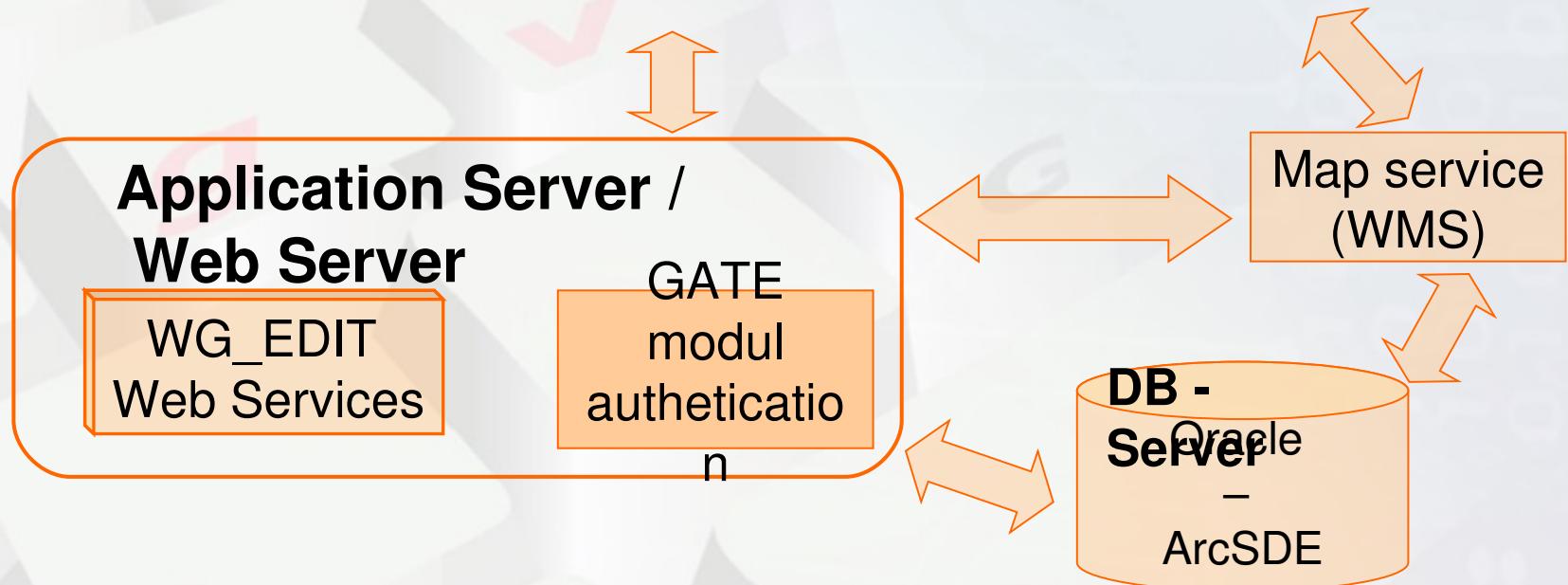


Module 1: WG EDIT

USER INTERFACE



gvSIG Extension:
WG_EDIT



Module 1: WG_EDIT

Functionalities:

Editing geodata (lines)

Editing attributes of roads

Calculating/editing z-coordinate

Functionalities to guarantee the network topology (snapping, managing multipart objects)

Query functionalities



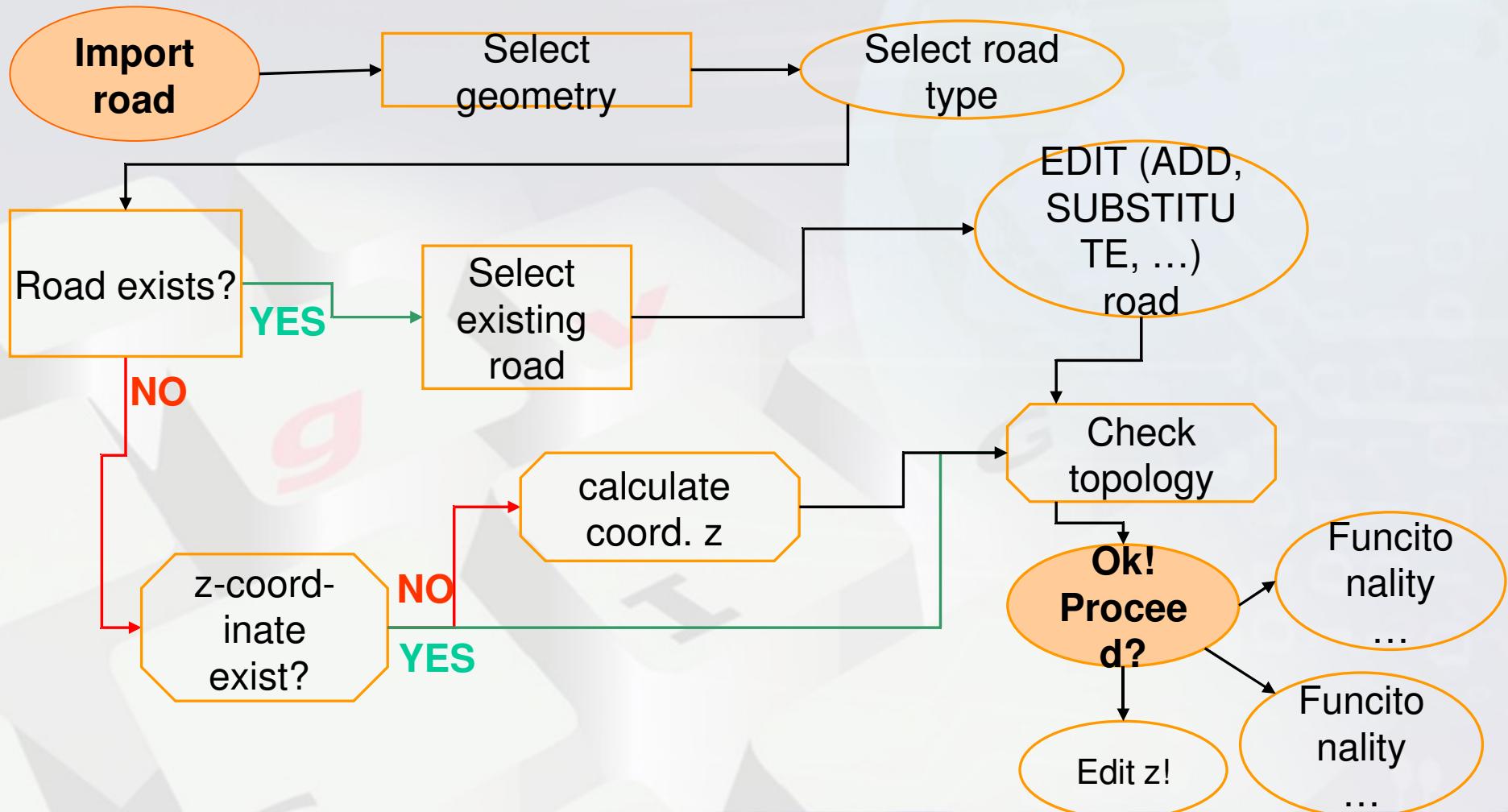
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Module 1: WG EDIT



History

Objectives

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Module 1: WG_EDIT

Module 2: geneSIG

Outlook



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Module 2: geneSIG

gvSIG customized with Extensions

Realisation of Geodata Management
Infrastructure called newGIS

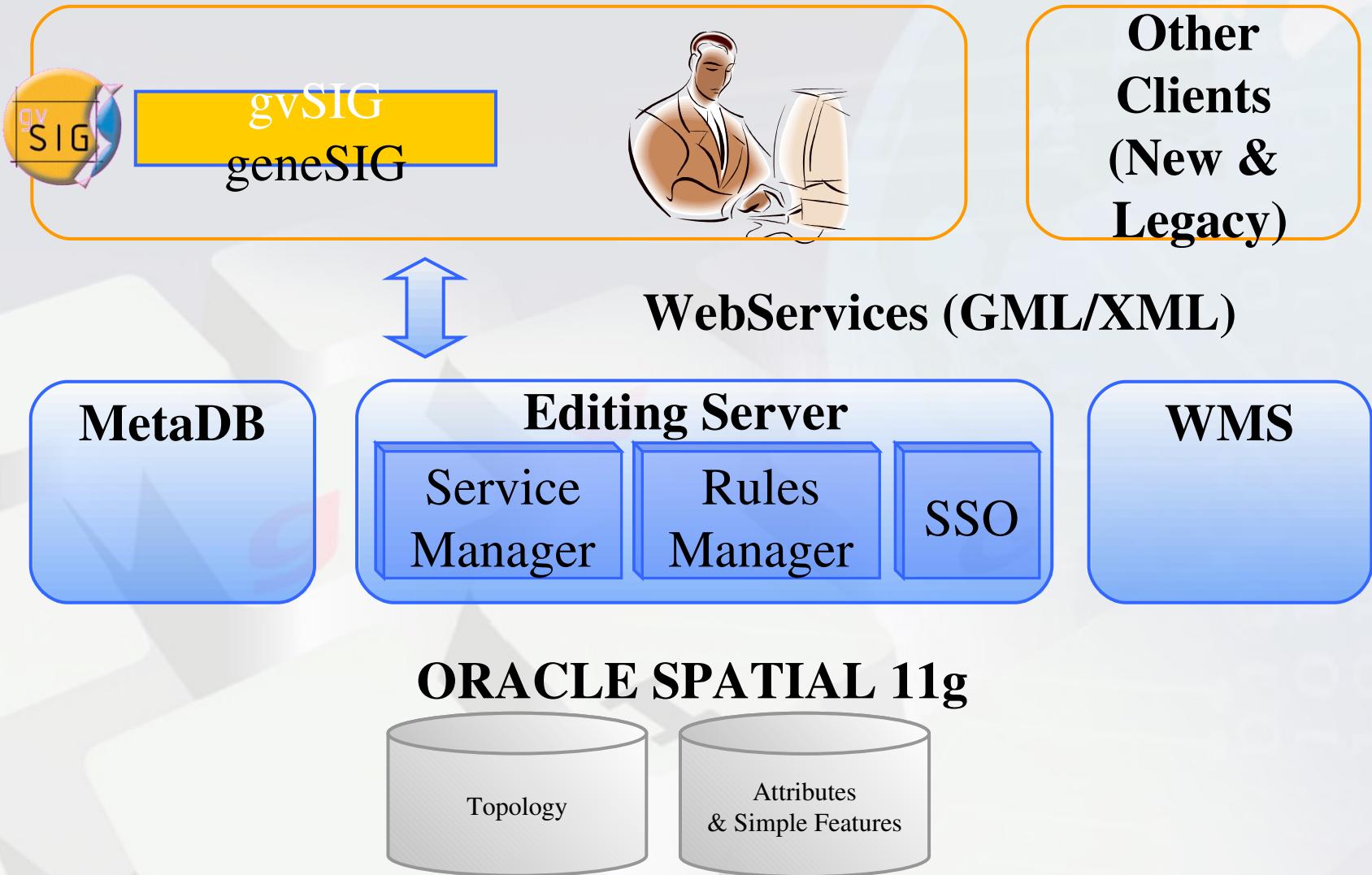


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Module 2: geneSIG

Data topology

Data integrity/Data security

Unified management of Geodata and alphanumerical data

Geometry as an Attribute

ORACLE SPATIAL 11g



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Module 2: geneSIG

MetaDB

SSO Manager

Editing Server

Rules Manager

Service Manager

Data Export/Data Import

MetaDB

Editing Server

Service
Manager

Rules
Manager

SSO

WMS



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Module 2: geneSIG

Multilingual User Interface

Load project from MetaDB

Sign on through SSO Manager

Support of topology/transactions

Verifies newGIS Rules

Supports newGIS Services



gvSIG
geneSIG



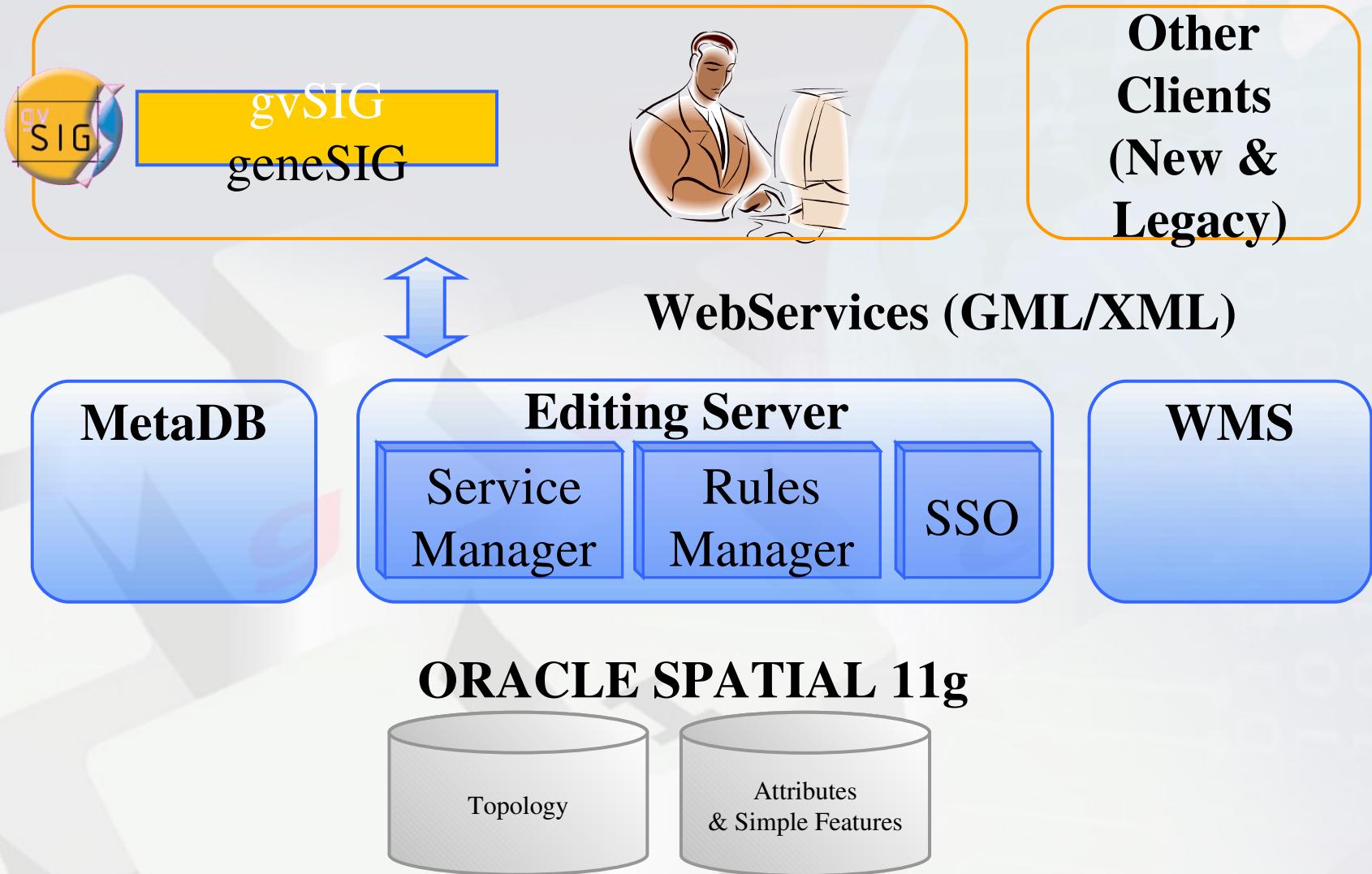
Other
Clients
(New &
Legacy)



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Outlook

gvSIG as the "Standard-GIS-Client" within the public administration

gvSIG as substitution of proprietary clients taking advantage of OpenSource & gvSIG communities

secured future developement
reduce current licence costs



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<http://www.provinz.bz.it/informatik/themen/maps-webgis.asp>

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Rizzolli Susanne
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Poster
For detailed information:

Friday, 10:45 Coffee-Break

