EGN - local service
First attempt v_1.0

http://egn.gov.si/deegree-wfs/

NMCA Slovenia (SMCA)

- Dejan Jerič
- Marija Berden
- Uroš Mladenovič

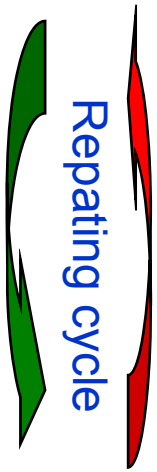
Goal

- To build local EGN service in the testing phase for testing purpose in the “EGN environment” (Postgres+PostGis+Deegree)
- To get knowledge about data model and data mapping between existing SMCA G.names and EGN ;
- To study - build in future local EGN service in “SMCA environment” (Oracle + ‘Geoserver’) as a final solution

Steps

- Study of models
  - EGN conceptual shema
  - EGN model ←→ Slovenian model
  - Mapping data between the models
- Instalation of the local service:
  - PostgreeSql + PostGis
  - Deegree
  - Security issues
    - firewall, proxy, list of allowed IP

Steps



- Export data from Slovenian model
  - Names are derived from the 1:25 000
- Import data into EGN model (PostgreSql)
  - About 15 min for 54932 names
- Testing

- Coordinate conversions
  - EPSG 3787 ---> EPSG 4258
    - Version 6.15 – 15 April 2008; New data for Azerbaijan, Bermuda, Canada, Croatia, Cuba, France, New Zeland, Pitcairn, Portugal, **Slovenia**, United States and Uruguay

EGN compliance check

++
EGN compliance check for WFS servers, version 0.1
++

Test subject 1: GetCapabilities

URL used for testing: http://localhost:8090/deegree-wfs-dev/services?service=WFS&version=1.1.0&request=GetCapabilities

>> Test 1.1: Is a response received?
Result: PASSED
Remark(s):

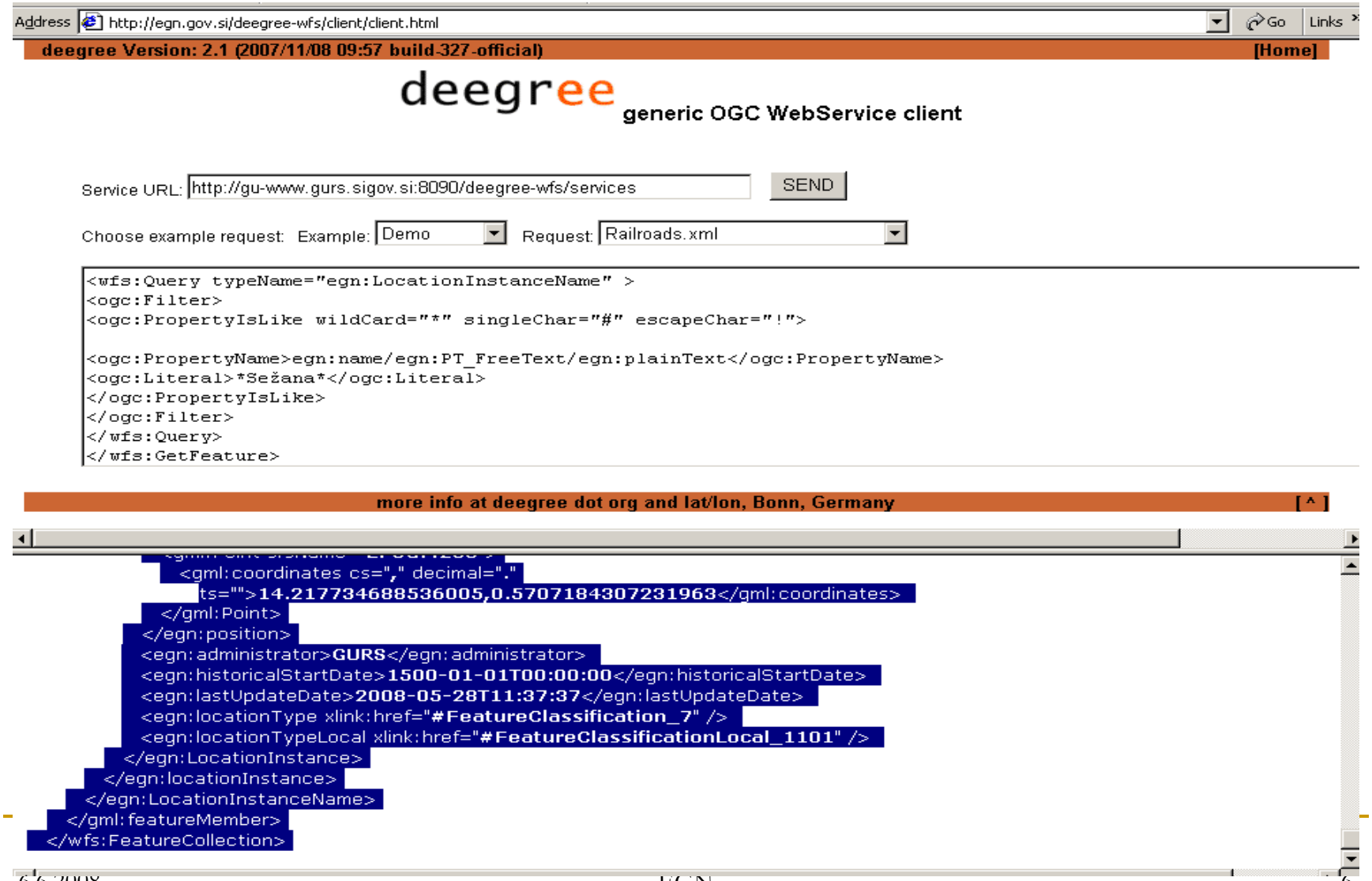
>> Test 1.2: Is the response received in time?
Result: PASSED
Remark(s): Response was received in 0.046 seconds.

>> Test 1.3: Is the response well-formed?
Result: FAILED
Remark(s): Error parsing XML: mismatched tag: line 1, column 1015

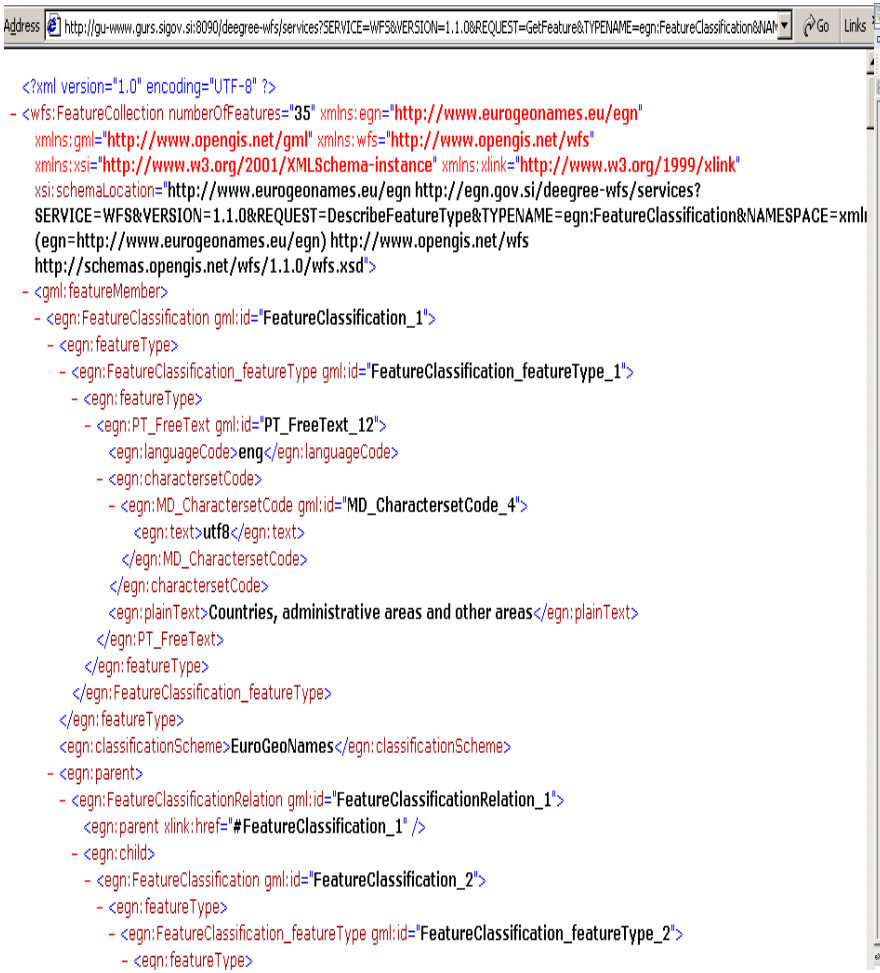
>> Test 1.4: Are the required feature types present?

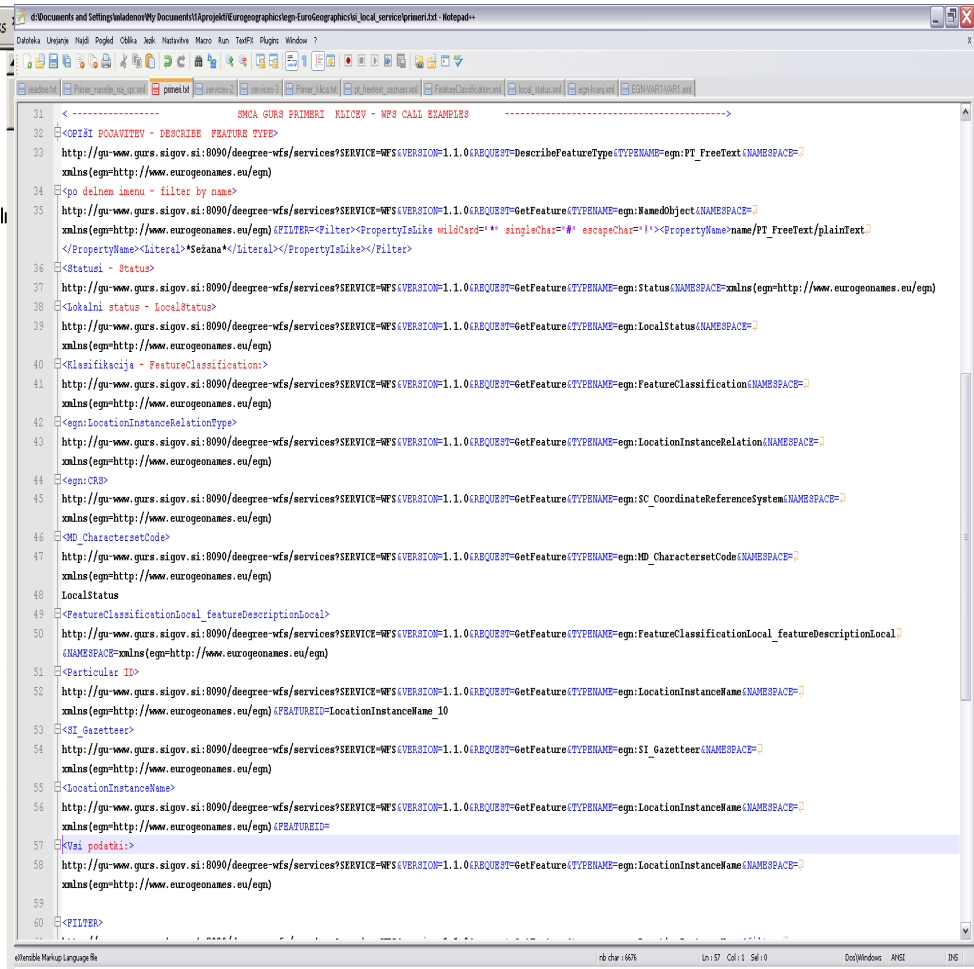
EGN compliance checker was not yet updated

Deegree generic client

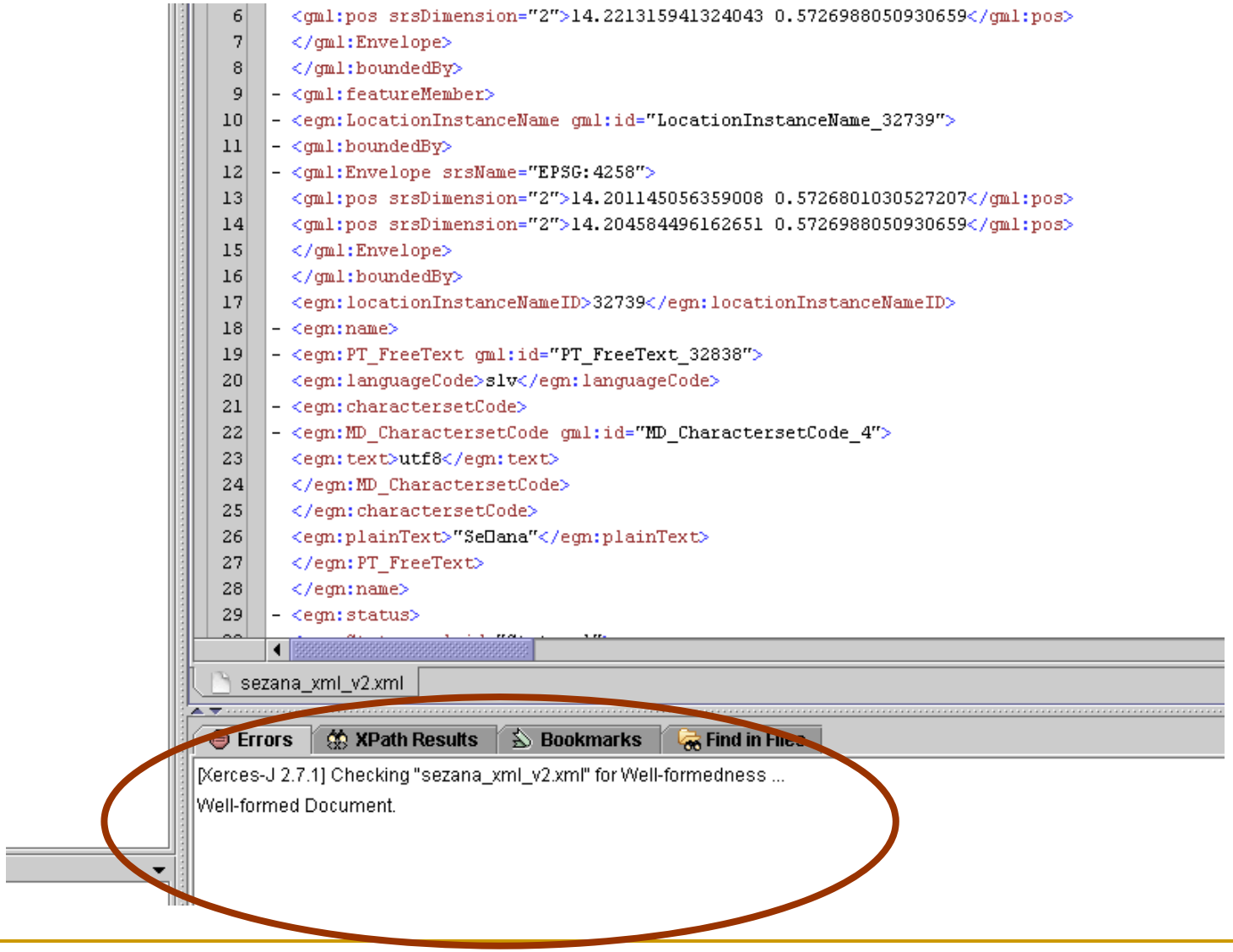


http://egn. sigov.si/deegree-wfs/services?SERVICE=WFS&VERSION=1.1.0&REQUEST=GetFeature&TYPENAME=egn:FeatureClassification&NAMESPACE=xmlns(egn=http://www.eurogeonames.eu/egn)

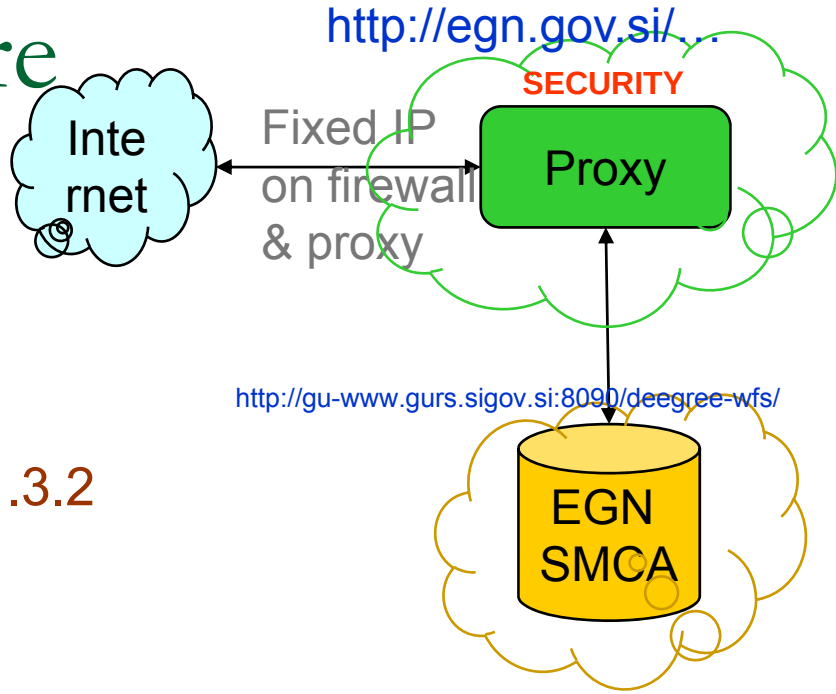




IS XML O.K. ?


6 <gml:pos srsDimension="2">14.221315941324043 0.5726988050930659</gml:pos>
7 </gml:Envelope>
8 </gml:boundedBy>
9 - <gml:featureMember>
10 - <egn:LocationInstanceName gml:id="LocationInstanceName_32739">
11 - <gml:boundedBy>
12 - <gml:Envelope srsName="EPSG:4258">
13 <gml:pos srsDimension="2">14.201145056359008 0.5726801030527207</gml:pos>
14 <gml:pos srsDimension="2">14.204584496162651 0.5726988050930659</gml:pos>
15 </gml:Envelope>
16 </gml:boundedBy>
17 <egn:locationInstanceNameID>32739</egn:locationInstanceNameID>
18 - <egn:name>
19 - <egn:PT_FreeText gml:id="PT_FreeText_32838">
20 <egn:languageCode>slv</egn:languageCode>
21 - <egn:charactersetCode>
22 - <egn:MD_CharactersetCode gml:id="MD_CharactersetCode_4">
23 <egn:text>utf8</egn:text>
24 </egn:MD_CharactersetCode>
25 </egn:charactersetCode>
26 <egn:plainText>"Se□ana"</egn:plainText>
27 </egn:PT_FreeText>
28 </egn:name>
29 - <egn:status>
sezana_xml_v2.xml
Errors
XPath Results
Bookmarks
Find in Files
[Xerces-J 2.7.1] Checking "sezana_xml_v2.xml" for Well-formedness ...
Well-formed Document.

Problems infrastructure



- Infrastructure:
  - In general no problems
    - Windows XP
      - PostgresSQL 8.2 +PostGIS 1.3.2
      - Apache Tomcat/6.0.16
      - deegree v.2
    - Linux SUSE 10
      - PostgresSQL 8.2 +PostGIS 1.3.2
      - Apache Tomcat/6.0.22
      - deegree v.2
- Proxy : time of inactivity (building index)
  - *Query timed out*

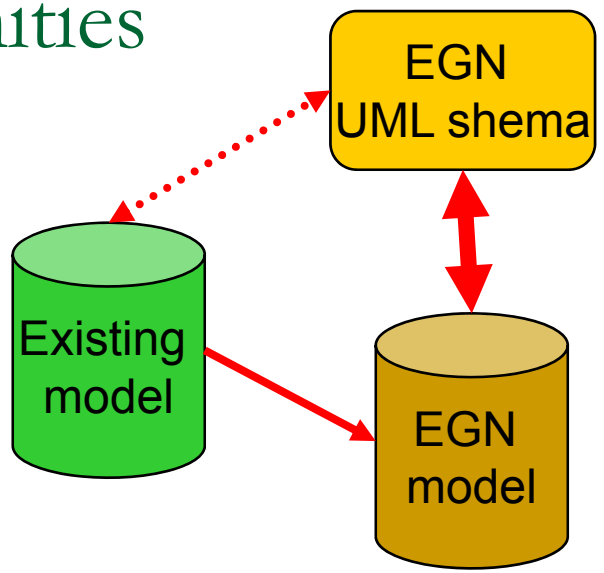
Problems: model, data

- Understanding of logical model (UMS Schema) and de-facto data model;
- Mapping data between the internal SMCA model and EGN model

SMCA:

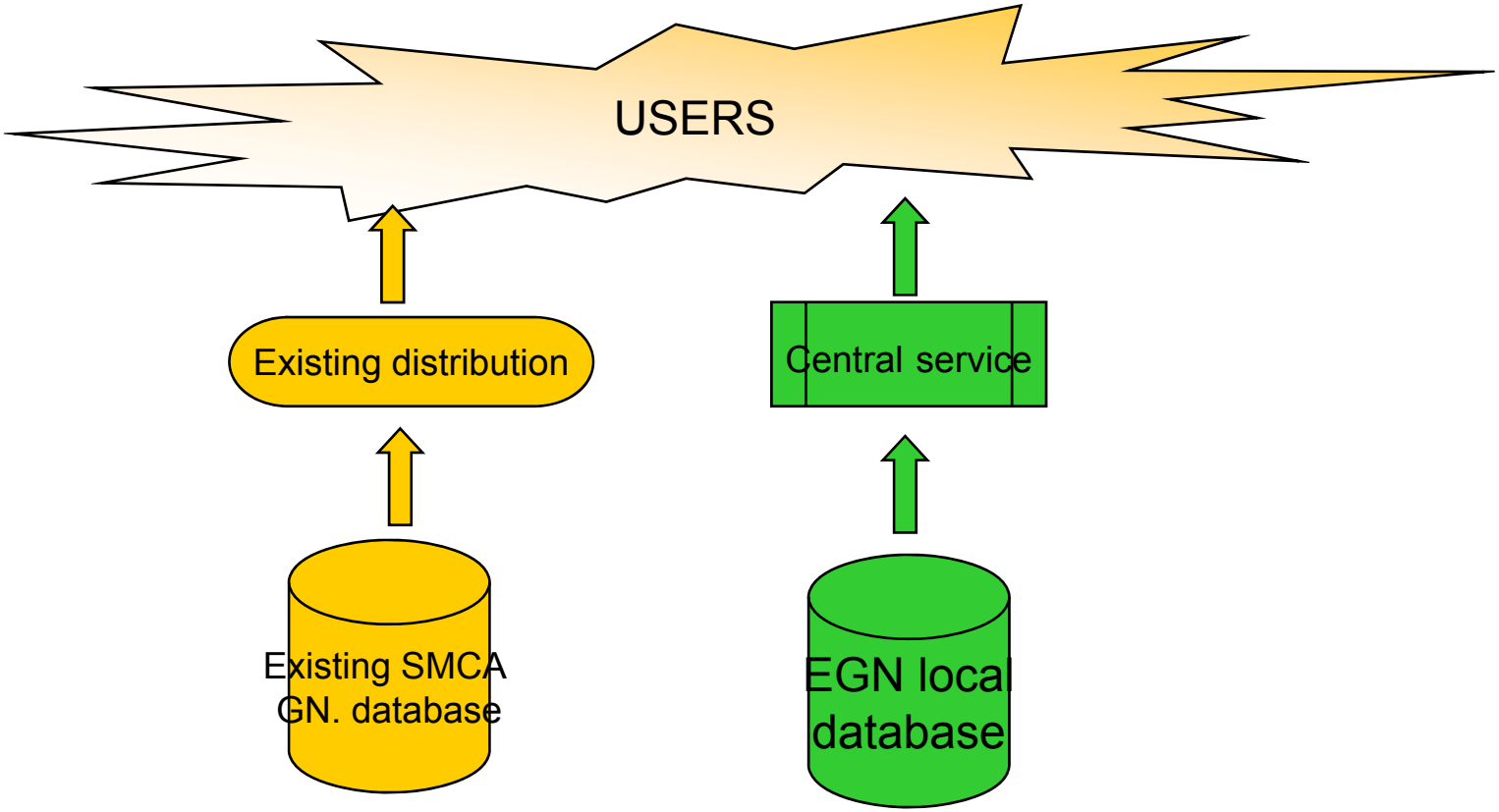
- Quality of existing data
- More cartographic approach – no object approach
  - No spatial object, geographic extend ?
  - Which position to take – first, second.. (river …)?

Suggestions, threats, opportunities



- Conceptual schema, EGN data model and existing data model should be studied in detail before loading the data

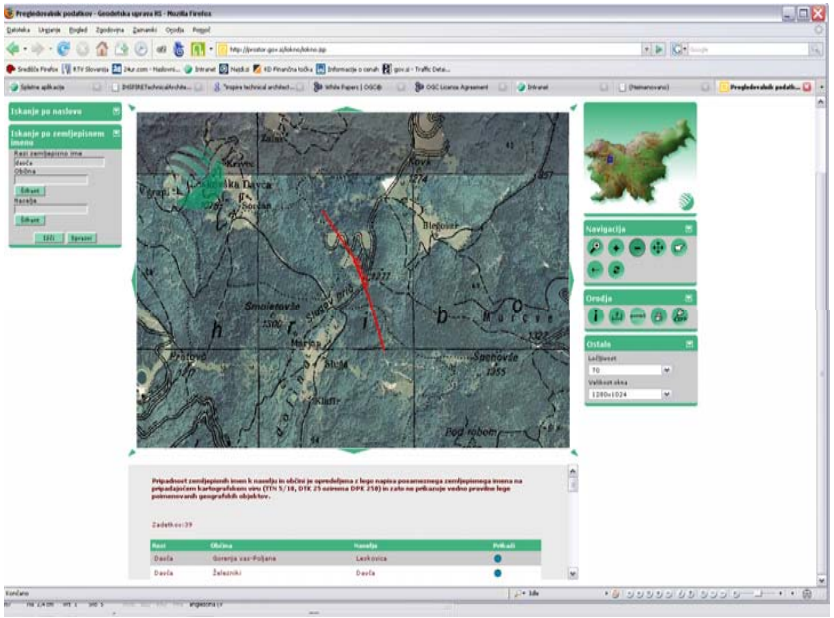
- Windows – easy installation
- Linux, unix – some more work (PostGIS)
- Data model is still in evolution ?
  -> modifications of data loading procedures
- INSPIRE ?
- Ability to add addresses, administrative units..



Data updating

Discussion

SMCA public viewer



Reference application