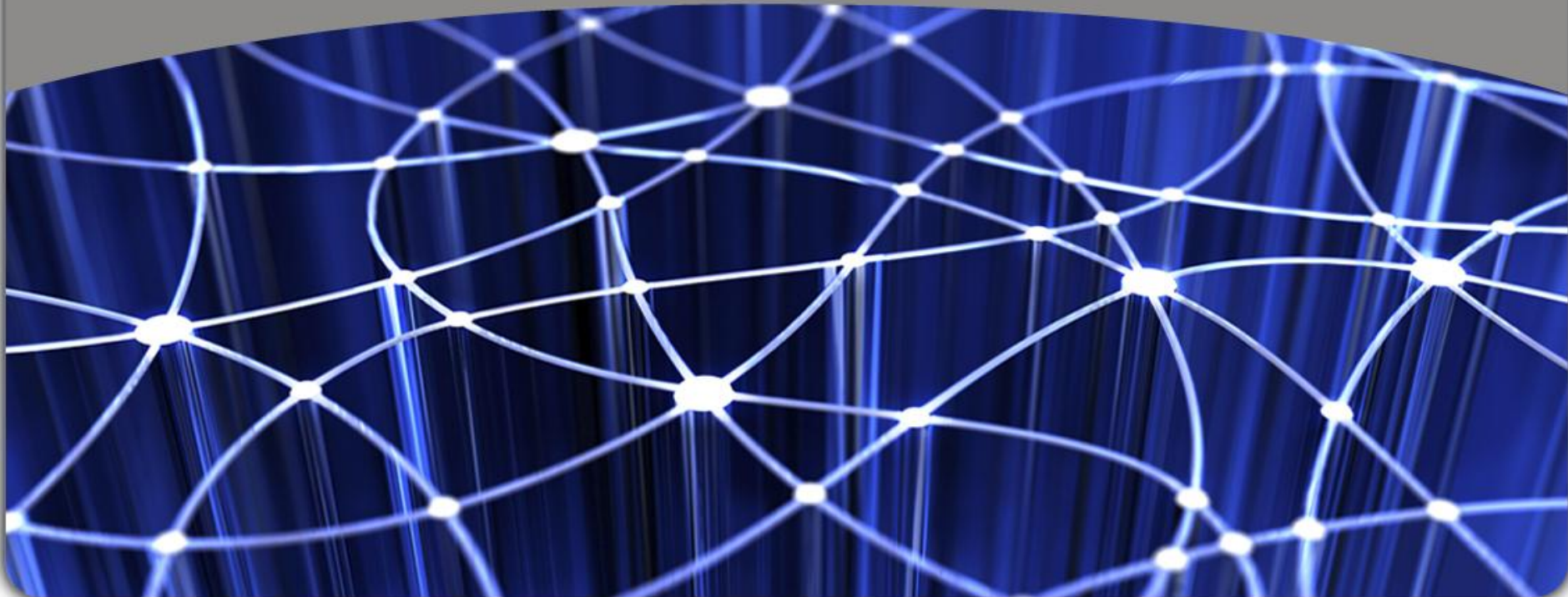


A white five-pointed star icon with a white line extending from its top-left point towards the top-left corner of the slide.

**A demonstration of how simple the database is set up:  
The Slovenian Experience**

*Uros Mladenovic (SMA)*

*Dejan Jeric (EFOS)*



## SI-EGN      The Slovenian Experience

### Topics:

- Installation of PostgreSQL 8.2.6
- Installation of PostGIS 1.3.2
- Configuration and setup EGN schema (Apache Tomcat & Deegree WFS & Reference Application included)
- Insertion of geographic name into the database and preview over the Reference Application in local environment
- Demonstration of in advance prepared BitNami LAPPStack to be capable to run EGN local service. The only need is computer with WM Player installed.

## SI-EGN      The Slovenian Experience

### Topics :

- Experience with mapping data into EGN database

Short explanation of our approach to map data into EGN will be presented. We will present some problems we faced and solutions we reach. On the end we list some open issues for the future.

## SI-EGN

## Installation of PostgreSQL 8.2.6

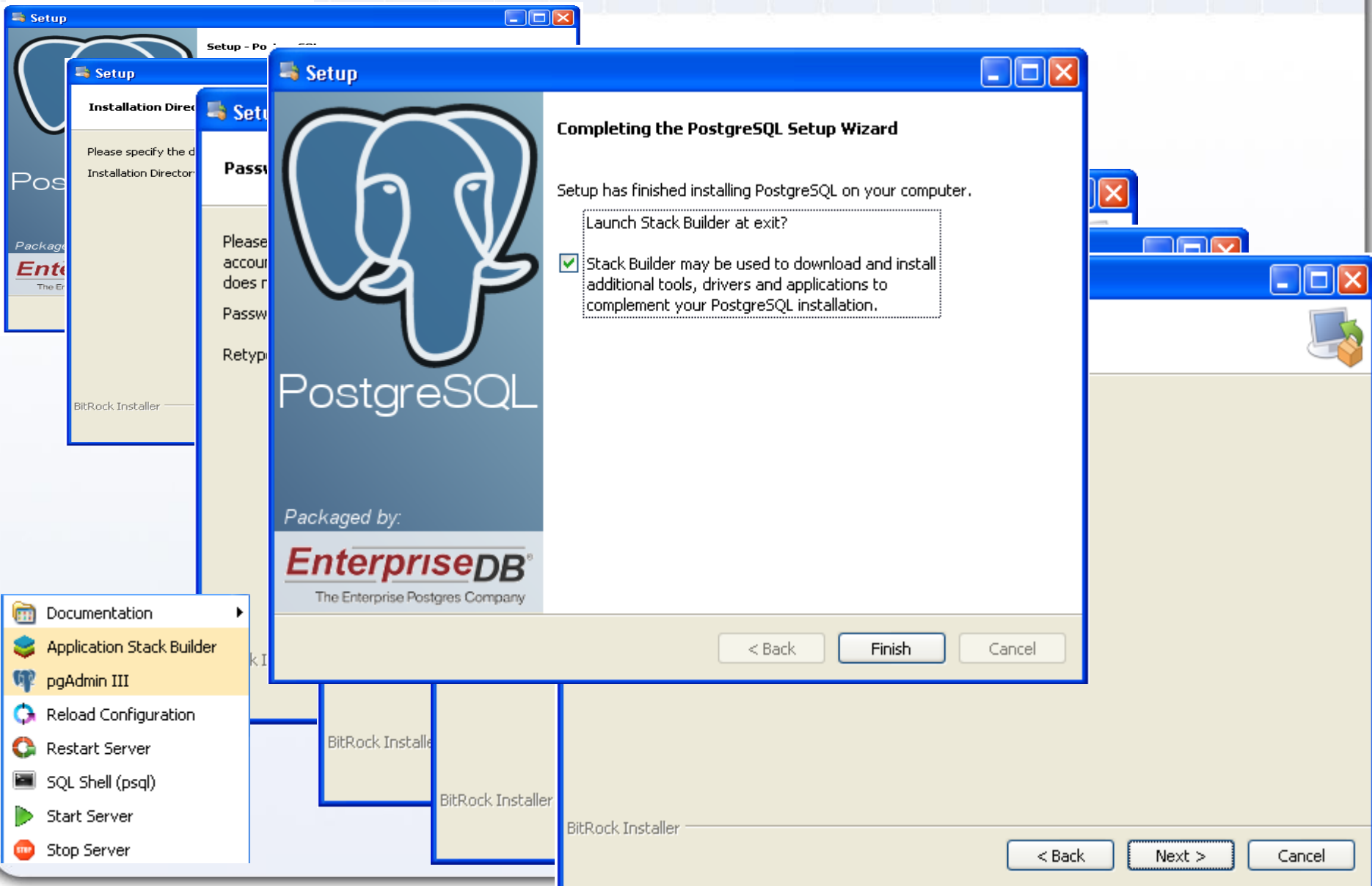
<http://www.postgresql.org>.

Start the installation

Database cluster encoding **UTF-8**

Check “**accept connections on all addresses**”

Contrib modules to install: '**Adminpack**' and '**Fuzzy string match**'.



The screenshot shows the PostgreSQL Setup Wizard completion screen. The window title is "Setup" and it features the PostgreSQL elephant logo and the text "PostgreSQL" and "EnterpriseDB® The Enterprise Postgres Company". The main text reads "Completing the PostgreSQL Setup Wizard" and "Setup has finished installing PostgreSQL on your computer." Below this, there is a checkbox labeled "Launch Stack Builder at exit?" which is checked. A dashed box highlights the text "Stack Builder may be used to download and install additional tools, drivers and applications to complement your PostgreSQL installation." At the bottom of the window are buttons for "< Back", "Finish", and "Cancel".

Documentation

Application Stack Builder

pgAdmin III

Reload Configuration

Restart Server

SQL Shell (psql)

Start Server

Stop Server

BitRock Installer

BitRock Installer

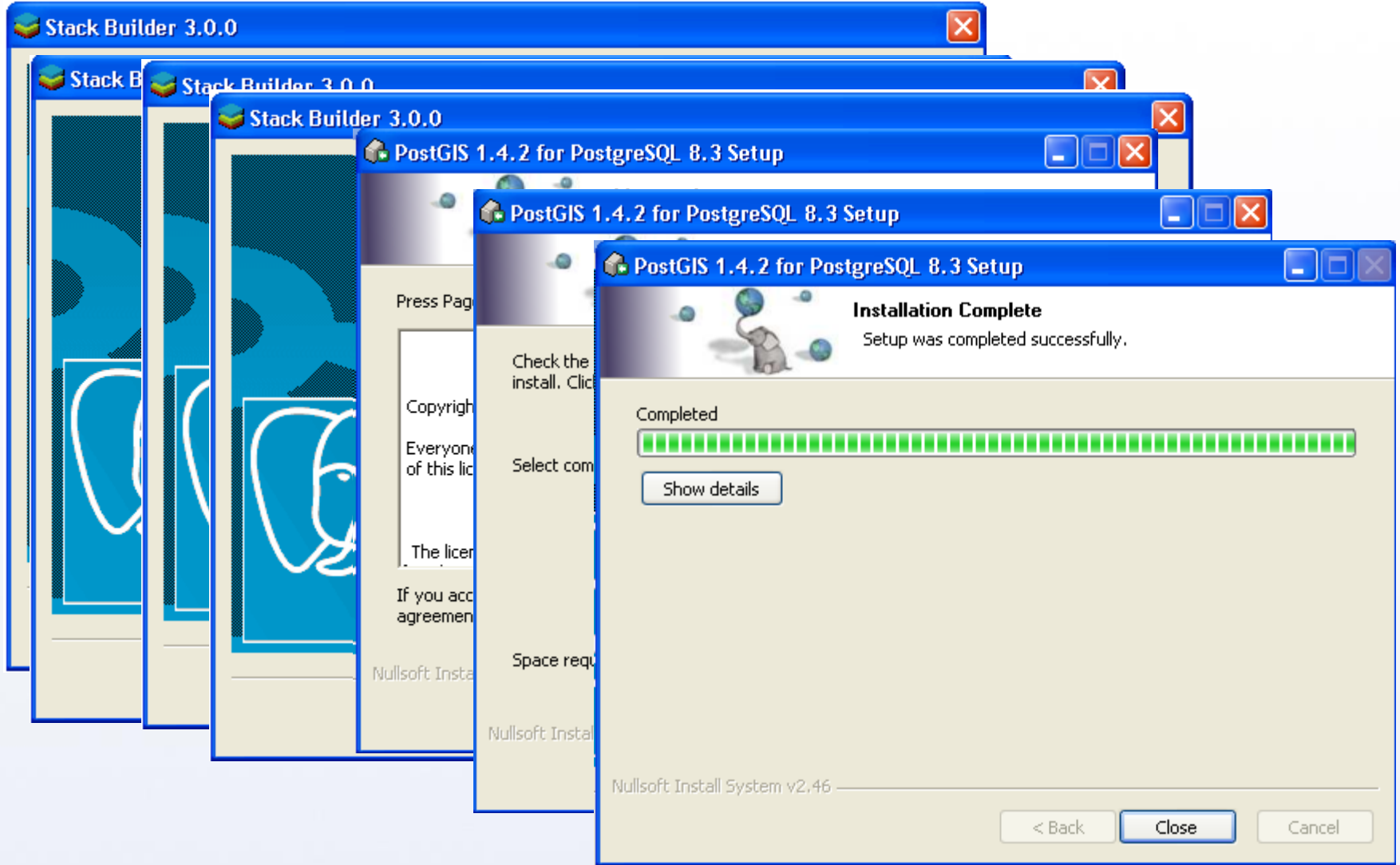
BitRock Installer

## SI-EGN

## Installation of PostGIS 1.3.2

<http://postgis.refractions.net/download/>

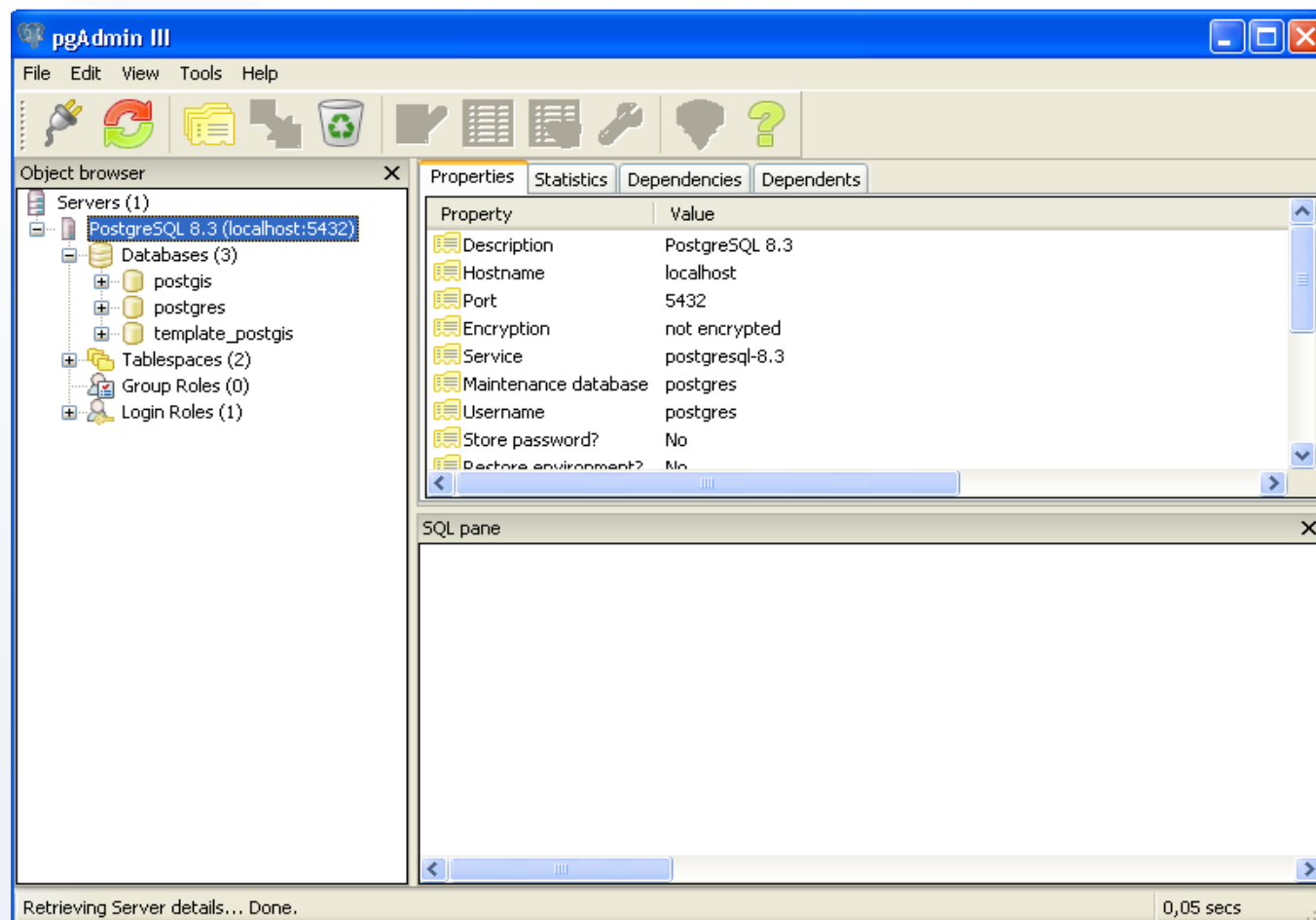
Start the installation and use default settings



The image shows a series of overlapping windows from the Stack Builder 3.0.0 application. The top-most window is titled "PostGIS 1.4.2 for PostgreSQL 8.3 Setup" and displays the "Installation Complete" screen. The text on this screen reads "Installation Complete" and "Setup was completed successfully." Below this, there is a progress bar labeled "Completed" which is filled with green segments. A "Show details" button is located below the progress bar. At the bottom of the window, there are three buttons: "< Back", "Close", and "Cancel". The text "Nullsoft Install System v2.46" is visible at the bottom left of the window. The background shows several other instances of the Stack Builder 3.0.0 application, each displaying a different step of the installation process, such as "Press Page", "Check the install. Click", "Copyright", "Everyone of this lic", "Select com", "The licen", "If you acc", "agreement", "Space req", and "Nullsoft Insta".



## Empty database



The screenshot shows the pgAdmin III interface. The 'Object browser' on the left shows a tree view of the server 'PostgreSQL 8.3 (localhost:5432)'. Under 'Databases (3)', there are three entries: 'postgis', 'postgres', and 'template\_postgis'. The 'Properties' tab is selected, showing the following details:

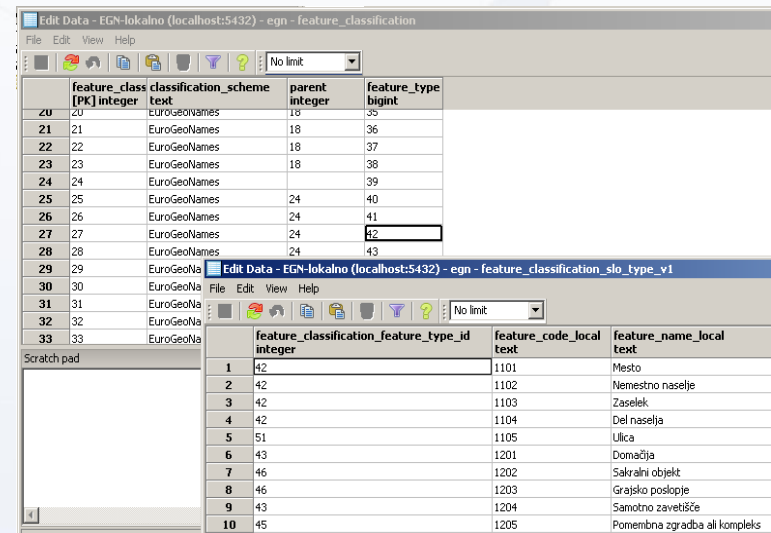
Property	Value
Description	PostgreSQL 8.3
Hostname	localhost
Port	5432
Encryption	not encrypted
Service	postgresql-8.3
Maintenance database	postgres
Username	postgres
Store password?	No
Default environment?	No

The 'SQL pane' at the bottom is empty. The status bar at the bottom indicates 'Retrieving Server details... Done.' and '0,05 secs'.



## SI-EGN Configuration and setup EGN schema

- EGN Local Service Installation Guide manual
- init\_database.bat
- Local classification - EGN classification
- Spatial Reference System
- Apache Tomcat
- Deegree WFS
- Reference Application



The screenshot shows a database management interface with two tables. The top table, 'feature\_classification', has columns for feature\_class, classification\_scheme, parent, and feature\_type. The bottom table, 'feature\_classification\_slo\_type\_v1', has columns for feature\_classification\_feature\_type\_id, feature\_code\_local, and feature\_name\_local.

feature_class	classification_scheme	parent	feature_type
20	EuroGeoNames	18	35
21	EuroGeoNames	18	36
22	EuroGeoNames	18	37
23	EuroGeoNames	18	38
24	EuroGeoNames	24	39
25	EuroGeoNames	24	40
26	EuroGeoNames	24	41
27	EuroGeoNames	24	42
28	EuroGeoNames	24	43
29	EuroGeoNa		
30	EuroGeoNa		
31	EuroGeoNa		
32	EuroGeoNa		
33	EuroGeoNa		

feature_classification_feature_type_id	feature_code_local	feature_name_local
1	1101	Mesto
2	1102	Nemestno naselje
3	1103	Zaselek
4	1104	Del naselja
5	1105	Ulica
6	1201	Domačija
7	1202	Sakralni objekt
8	1203	Grajsko poslopje
9	1204	Samotno zavetišče
10	1205	Pomembna zgradba ali kompleks

## SI-EGN Insertion of geographic name into the database and preview over the Reference Application in local environment

location instance  
location type  
location type local  
geographic extent

# DEMO

### insert into **location\_instance**

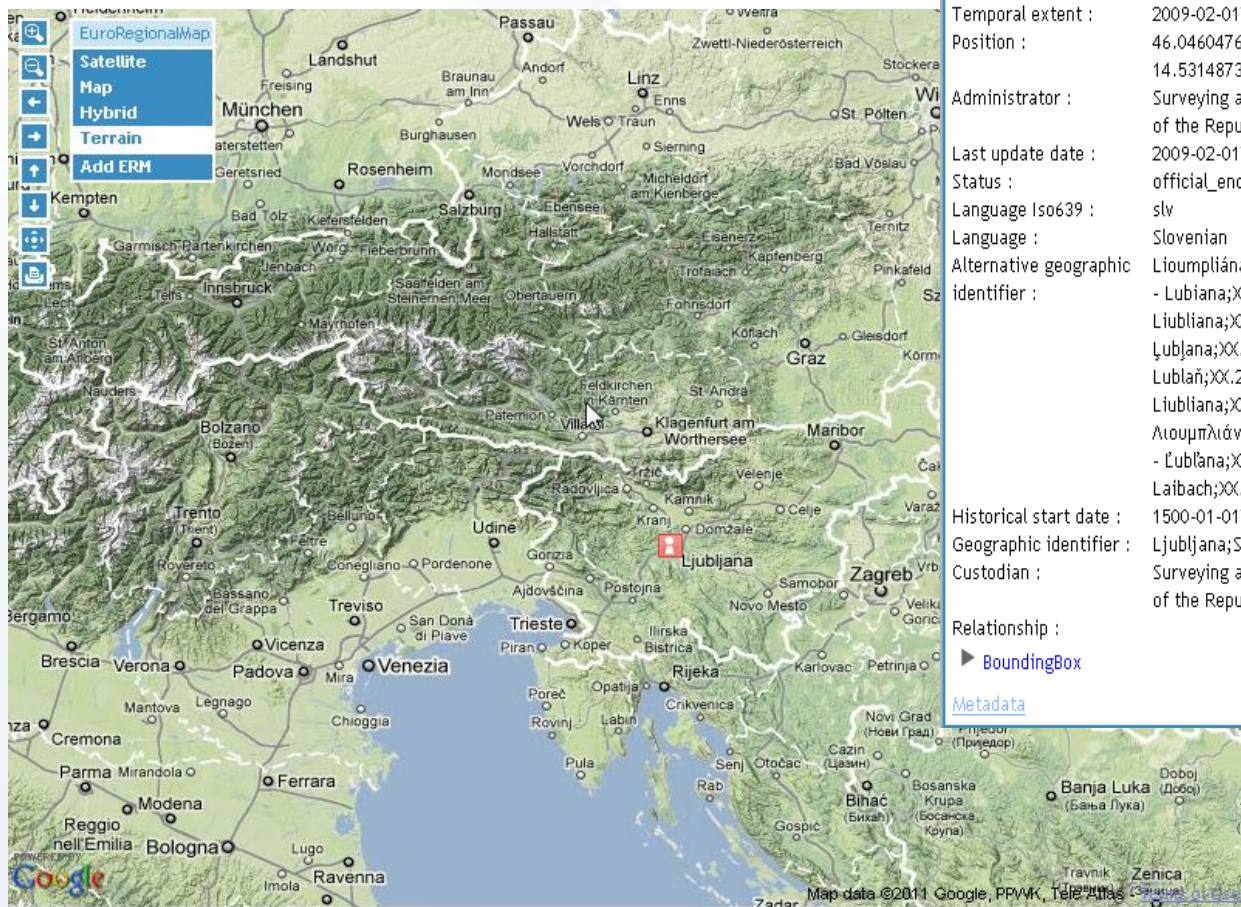
```
(location_instance_id, geographic_identifier, temporal_extent, administrator, historical_start_date, historical_end_date, pronunciation_audio, ipas, last_update_date, data_source, custodian, location_type, location_type_local, spatial_object, position, geographic_extent) values (nextval('location_instance_id_seq'),trim(r.ime_p)||';SI.'||lc_location_instance_id,current_timestamp - interval '72 hours','GURS', to_date(r.d_od,'YYYYMMDD'),null,null,null, current_timestamp - interval '72 hours',null,'GURS', r.feature_classification_feature_type_id, r.tip_danosti, currval('complex_geometry_id_seq'), st_transform(GeomFromText('POINT('||r.Y1||' '||r.X1||')',3787),4258), lv_ext );
```

### insert into **pt\_free\_text** (pt\_free\_text\_id, language, character\_encoding, plain\_text)

```
values (nextval('pt_free_text_id_seq'),'slv',(select md_characterset_code_id from md_characterset_code where text = 'utf8'), trim(r.napis));
```



### insert into **location\_instance\_name**

```
(location_instance_name_id, location_instance, name, status, local_status, national_unique_id, gender,grammatical_number) values (nextval('location_instance_name_id_seq'),currval('location_instance_id_seq'), currval('pt_free_text_id_seq'),r.egn_status,r.status, r.en_mid,null,null);
```



### Feature Information

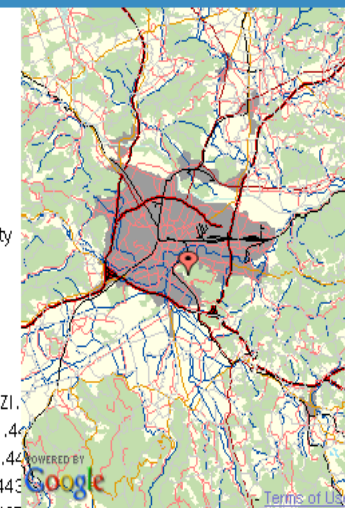
#### Ljubljana

Country :  Slovenia  
 Feature type :  Other populated places  
 Feature type local : Mesto(Slovenian)  
 Temporal extent : 2009-02-01T00:00:00  
 Position : 46.04604760143694  
 14.531487333858559  
 Administrator : Surveying and Mapping Authority  
 of the Republic of Slovenia  
 Last update date : 2009-02-01T00:00:00  
 Status : official\_endonym(English)  
 Language Iso639 : slv  
 Language : Slovenian  
 Alternative geographic  
 identifier : Lioumḗliána;XX.181SI.GURS.REZI.44378  
 - Lubiana;XX.2984SI.GURS.REZI.44378  
 - Liubliana;XX.2537SI.GURS.REZI.44378  
 - Ljubljana;XX.2592SI.GURS.REZI.44378  
 - Lublaň;XX.2037SI.GURS.REZI.44378  
 - Liubliana;XX.918SI.GURS.REZI.44378  
 - Λιουμπλιάνα;XX.538SI.GURS.REZI.44378  
 - Ľubľana;XX.385SI.GURS.REZI.44378  
 - Laibach;XX.271SI.GURS.REZI.44378  
 Historical start date : 1500-01-01T00:00:00  
 Geographic identifier : Ljubljana;SI.44378  
 Custodian : Surveying and Mapping Authority  
 of the Republic of Slovenia

Relationship :

► [BoundingBox](#)

[Metadata](#)



Close

## SI-EGN In advance prepared VMWare image for EGN Local service

### Requirements:

- computer with VM Player installed
- image with EGN local service
- network connection
  
- Pros
  - portable
  - no EGN installation tasks
  - backup
  
- Cons
  - load of computer with VM Player

**SI-EGN**

**In advance prepared VMWare image for EGN Local  
service**

**Demonstration**

Insert Geographic Name & Preview

<http://egnimage:8080/eurogeonames/ReferenceApplication/>



## SI-EGN

## Mapping data into EGN database

### Oracle source

- Flat file export

### PostgreSQL destination

- Import flat file
- PL/pgSQL procedure; insert data into proper entities

### We have faced with this issues:

- one feature many inscriptions (cartographic history)
- coordinates conversion
- local classification – EGN classification

**gazetteer**  
**location instance**  
**geographic extent**

Pros:  
- flexibility

Cons:  
• handling changes  
in DB

**SI-EGN**

## The Slovenian Experience

[uros.mladenovic@gov.si](mailto:uros.mladenovic@gov.si)

[dejan.jeric@efos.si](mailto:dejan.jeric@efos.si)



**SI-EGN**

## **The Slovenian Experience**

QUESTIONS ?

