



Developing a European geographical names infrastructure and services

initiated by BKG and the Dutch- and German-speaking Division of UNGEGN

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The first access to spatial information is via geographical names

- They are core reference data components (Inspire)
 - (in general) still neglected
- They are geographic identifiers used for indirect spatial referencing (ISO 19112)
 - but there is no standardization organisation with power behind it
- They have to be integrated into national spatial data infrastructures (United Nations, Res VIII/6, 2002)
 - are (in general) not yet fully integrated into national spatial data infrastructures

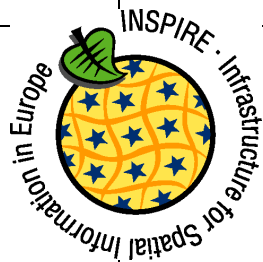
Identified needs to set up EuroGeoNames

Request for

- officially approved national names data (endonyms),
- relating exonyms with official endonyms, and vice versa,
- avoiding storage and maintenance of secondary data sets,
- continuous updating of geographical names data by the countries,
- integrating names data into National Spatial Data Infrastructures (NSDI) and ESDI,

as expressed by **EC services, translators and interpreters, tourism, news agencies, etc.**

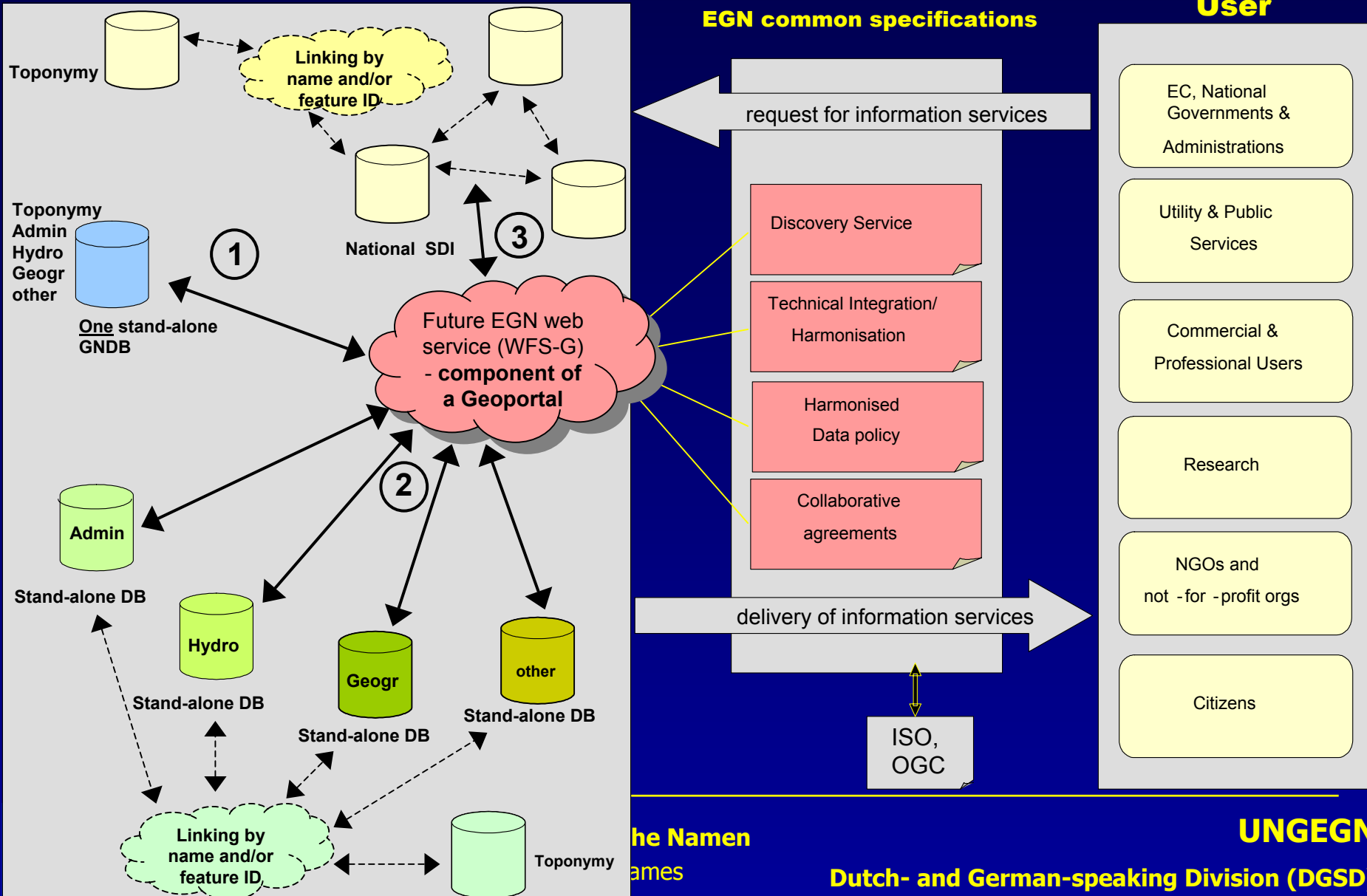
Analysis of EU policies versus INSPIRE data components



		6EAP Strategies						Policy Implementation					Policy review/monitoring					Total	
		Environment & Health	Marine thematic strategy	Urban thematic strategy	Soil protection thematic strategy	Biodiversity strategy	Air quality Directive - Café	Water Framework Directive	IPCC - Climate change	Noise	Forest protection	SEA	Nitrate Directive	Waste framework Directive	Habitats/Birds Directive	EIA	IPPC - EPER		Seveso
Annex I	Coordinate reference systems	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	17
Annex I	Geographical grid systems	X	X		X	X	X	X	X	X	X	X			X	X	X		13
Annex I	Geographical names	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	17
Annex I	Administrative units	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	17
Annex I	Transport networks	X	X	X	X	X	X	X	X	X	X			X	X	X	X		15
Annex I	Hydrography	X	X	X	X	X		X	X		X	X	X	X	X	X	X		15
Annex I	Protected sites		X		X	X	X	X	X		X	X	X		X	X			11
Annex II	Elevation	X	X	X	X	X	X	X	X	X	X				X	X		X	14
Annex II	Addresses	X		X						X						X	X	X	6
Annex II	Cadastral parcels	X		X	X	X	X	X		X	X	X	X	X		X	X	X	14
Annex II	Land cover	X		X	X	X	X	X	X	X	X				X	X	X	X	14
Annex II	Ortho-imagery	X	X	X	X	X	X	X	X	X	X				X	X	X	X	15

Concept

an integrated element of a European Spatial Data Infrastructure (ESDI)



Endonyms



Exonyms

Legend:
Endonym
German
English
French
Dutch
Polish
Portuguese



Names of European cities spelt in their local language (endonym) and in other European languages (exonym)

The 1st step to set up EuroGeoNames:

- To carry out a survey / inventory (SI-EGN) on the availability, quality, accessibility, responsibility for geographical names in European countries,
- To evaluate the survey,
- To conduct interviews with GI stakeholders to estimate and evaluate the market potential for EGN.

The 2nd step:

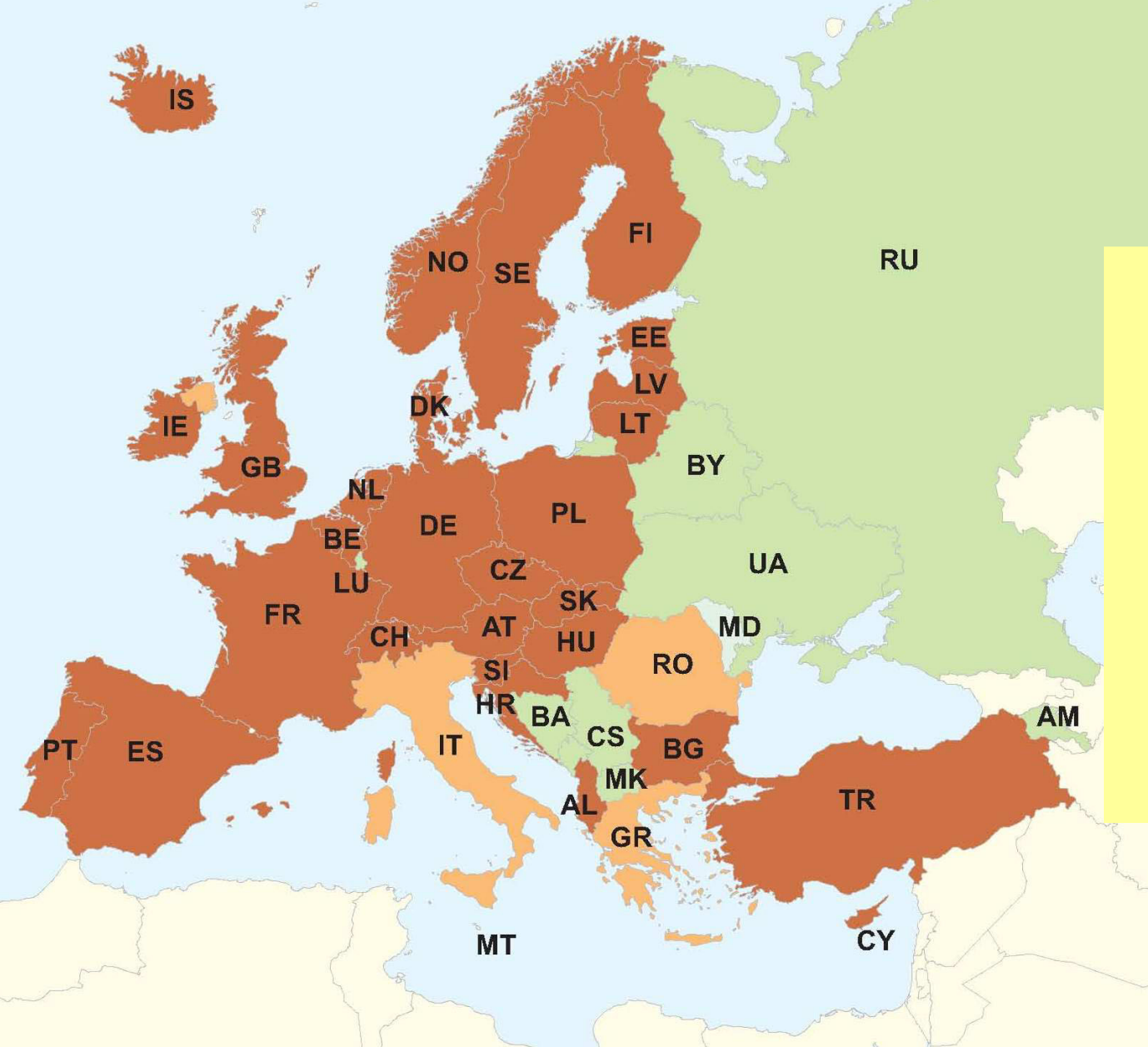
- Submission of a proposal to eContent⁺ ⇒ EGN service

Partners for the survey/inventory SI-EGN

- EuroGeographics (Association of National Mapping Agencies),
- University of Utrecht,
- Land Survey Office of Austria,
- Land Survey Office of Slovenia,
- ESRI Germany,
- BKG, Frankfurt am Main (project coordinator)

supported by

- UN Group of Experts for Geographical names (UNGEGN)
- Association for GI in South-East Europe (AGISEE)



Status:
July 2005

Detailed
questionnaire
replies

28 countries

Results of detailedQ replies

Q IV.5 Would you allow to use extracts of your database during a test phase?

YES

25

Don't know yet

3

NO

1

Results of detailed Q replies

Q IV.6 In principle, would your organization cooperate to EGN?

YES

Don't know yet

NO

25

3

1

Results of detailedQ replies

Q IV.7 State some conditions concerning accessibility of data

Individual searches free of charge?

YES
21

Don't know yet
2

NO
2

no reply
3

Downloading multiple datasets?

Free of charge
2

Nominal charge
17

Reasonable profit
24

Results of detailedQ replies

Q III.2.9 Is a list of selected exonyms in the language of your country available?

<u>Yes</u> (15):	AT	HU	<u>Not yet</u> (4):	CZ	<u>No</u> (8):	AL
	BG	IS		HR		CH _(fr, it, rm)
	CH _(de)	LT		LV		DK
	CY	NL		TR		ES
	DE	NO		IE		GB
	ES	PL				PT
	FI	SI				SE
	FR		<u>Don't know</u> (2)			SK

SI-EGN final report



SI-EGN Final Report

Status: 2005-11-15

EuroGeoNames – phase one

Survey/inventory on the state of the art of European geographical names data sources and assessment of a future European geographical names data infrastructure (SI-EGN)

SI-EGN Final Report

edited by Utrecht University (UU) and Federal Agency for Cartography and Geodesy (BKG)

- Edited by **University of Utrecht** and **BKG**
- Contributions made by **BEV, Austria** and **SMA, Slovenia**

available through:

www.eurogeonames.com

StAGN

Ständiger Ausschuss für geographische Namen
Permanent Committee on Geographical Names

UNEGN

Dutch- and German-speaking Division (DGSD)

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The 2nd step:

- Submission of a proposal to eContent⁺ ⇒ EGN service

eContent*Plus* Programme of EC

149 M € (26.6 M € in 2005)

granted by the Council and the European Parliament for

- Educational content (30%)
- Cultural content, scientific information and scholarly content (40%)
- Geographic information (30%)

Deadlines:

publication of the call	July 2005
submission of proposals	24th November 2005
start of funding	expected mid 2006

Status of work

- Completion of the survey/inventory on European geographical names data (SI-EGN) -> SI-EGN Final Report
- Establishment of the EuroGeoNames Consortium
- Establishment of the Reference Group & the EGN Group of Interest
- Submission of the EuroGeoNames proposal to the eContent*plus* programme of the EC in 2005, November 23
- Actions for updating the EuroGeoNames website www.eurogeonames.com

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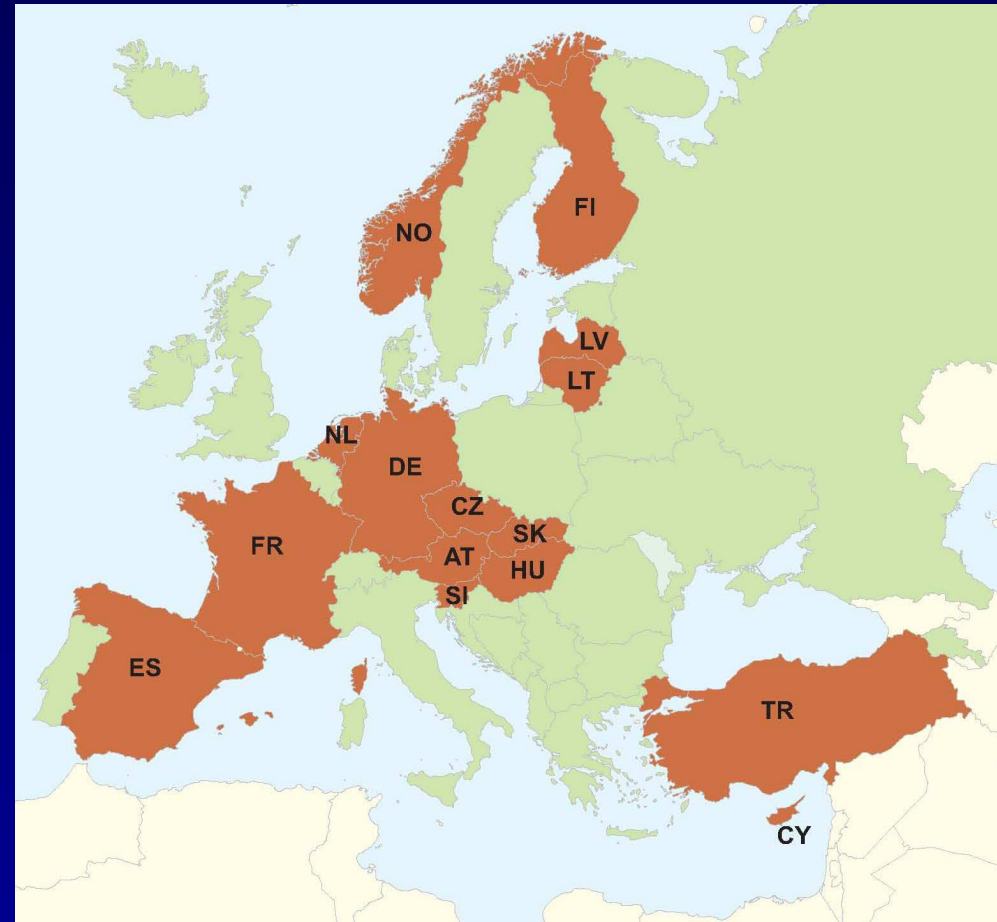
The EuroGeoNames Consortium

- BKG Germany (coordinator)
- Austrian Bundesamt für Eich- und Vermessungswesen
- Surveying and Mapping Authority of the Republic of Slovenia
- EuroGeographics Head Office (EGHO)
- Utrecht University
- EDINA National Data centre
- Geodan IT Holding
- GeoTask Germany
- ESRI Germany

The Reference Group

Austria, Cyprus, Czech Republic, Finland, France, Germany, Hungary, Latvia, Lithuania, Norway, Slovakia, Slovenia, Spain, The Netherlands, Turkey

signed a
‘Declaration of Participation’
(or are Consortium members)



The EGN Group of Interest

OGC Europe, **UNGEGN** (United Nations Group of Experts on Geographical Names) and several divisions, **ICA**, **Eurogi**, **DDGI** (German umbrella organization for GI), **GDI-DE** (Secretariat of the German spatial data infrastructure), **Imagi** (Interministerial Committee for GI of the German Federation), **AGISEE** (Association for GI in South-East-Europe), **National Geographic Germany**, **ICOS** (International Commission of Onomastics Sciences), **Westermann** (German publishing house for school atlases),

Ed. Hölzel (Austrian publishing house for school atlases), **CartoTravel** (German publishing house of GI products), **EEA** (European Environment Agency), **PCGN** (United Kingdom Permanent Committee on Geographical Names), **Greenland Language Secretariat** (Oqaasileriffik).

signed a 'Letter of Support'

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Plans for 2006

Date

- January 2006
- April 2006
- June – July 2006

- August 2006

Event

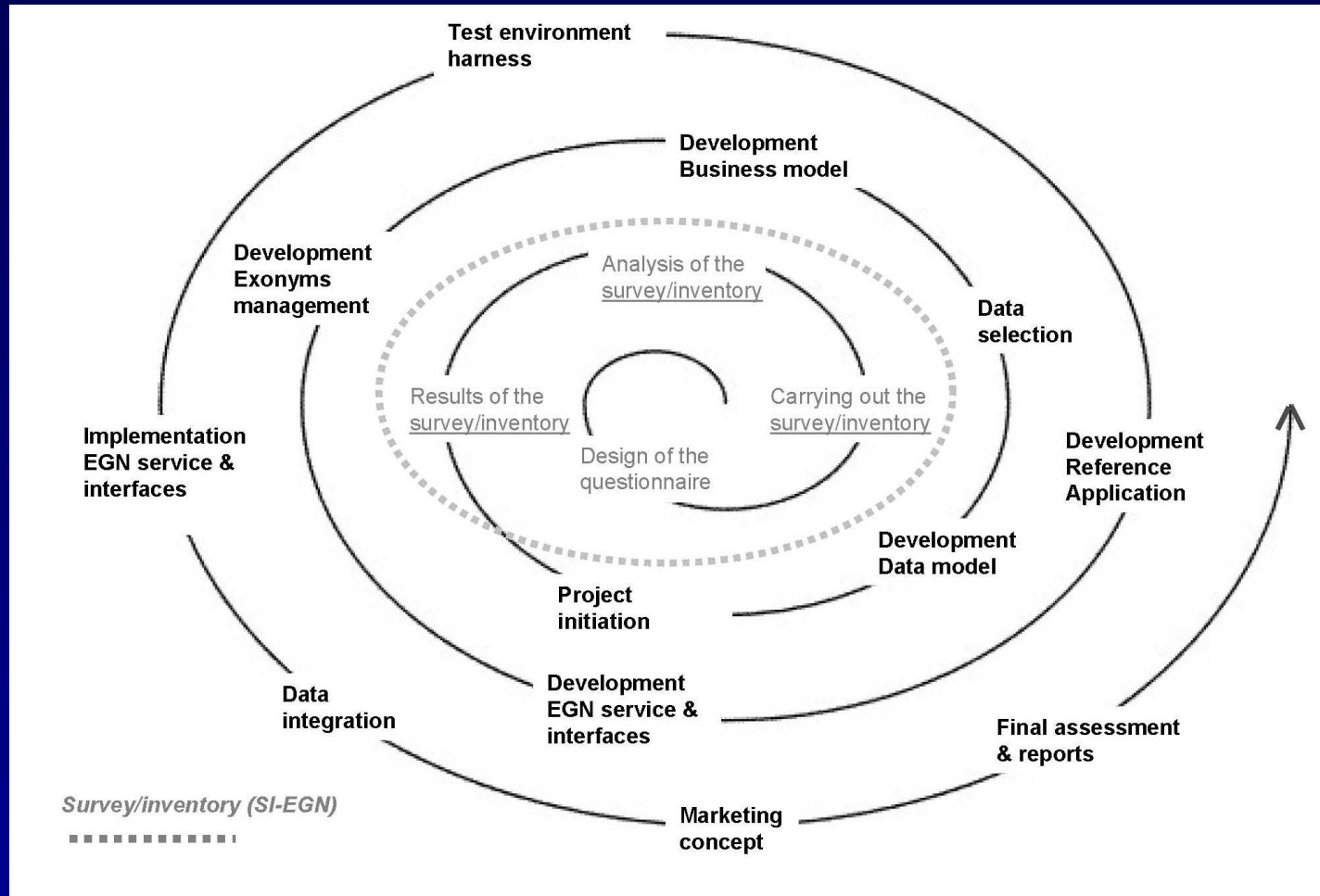
Evaluation by EC

Opening of negotiations with EC

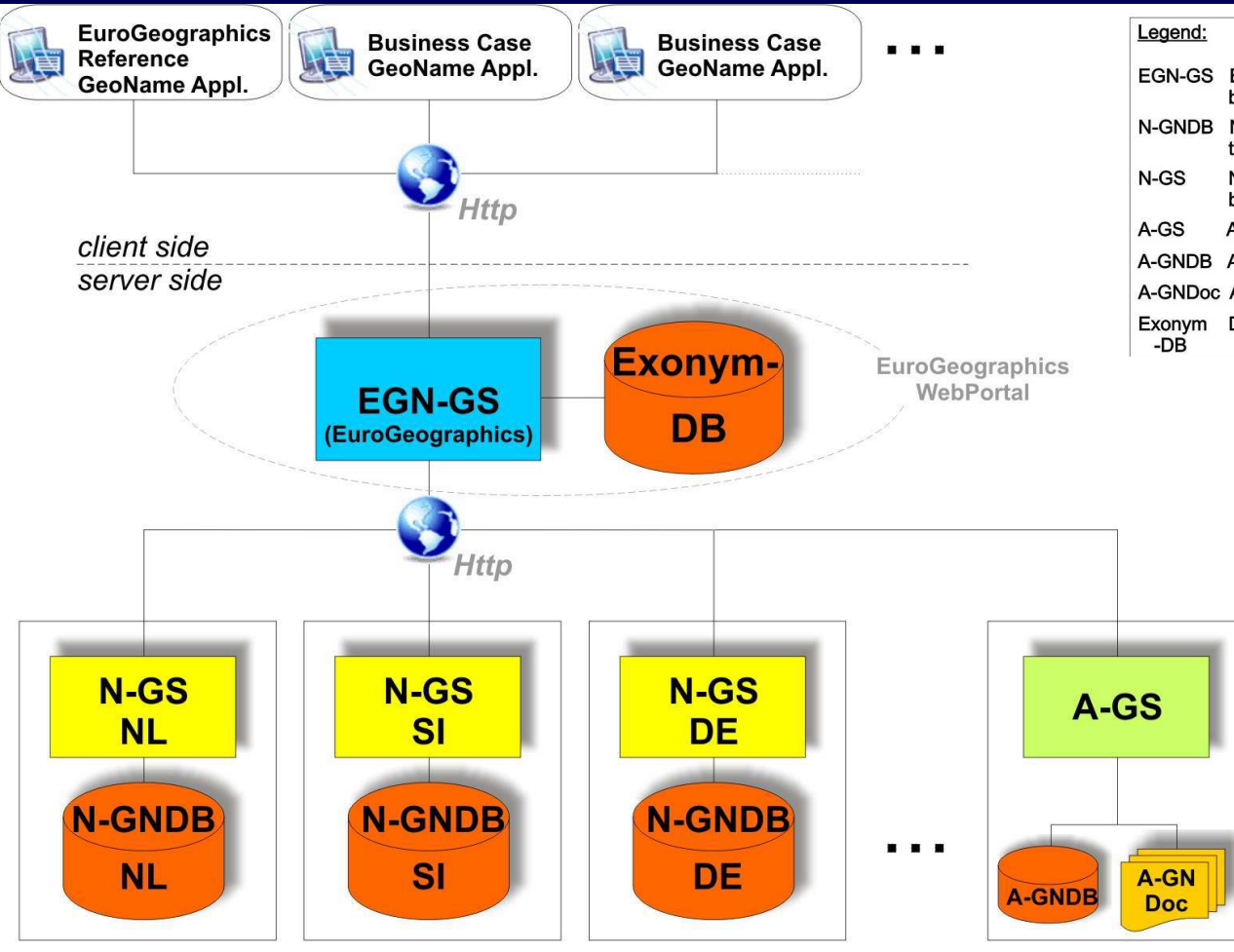
Completion of negotiations,
award decision, individual
commitments, grant agreements
signature

Project initiation ?

Spiral engineering process for 2006 - 2008



Possible service architecture & data flow



Legend:

- EGN-GS EuroGeoNames - Web (Gazetteer) Service based on a Web Feature Service (WFS)
- N-GNDB National Geographic Names Database (N-GNDB NL -> Database of the Netherlands containing authoritative Dutch geographical namesdata)
- N-GS National Gazetteer Service (N-GS NL -> Service of the Netherlands) based on a Web Feature Service (WFS)
- A-GS Additional gazetteer services
- A-GNDB Additional geographic name database
- A-GNDoc Additional geographic names held in document
- Exonym -DB Database containing exonyms

Examples for use cases (1)



Vivium Sign In | Contac
 International Property Listings Real Estate Rentals List Your Property
 Enter Listing ID or Location:

Vivium -> Real Estate -> Western Europe -> Villas

Location: [Andorra](#) - [Austria](#) - [Belgium](#) - [Cyprus](#) - [Denmark](#) - [Finland](#) - [France](#) - [Germany](#) - [Greece](#) - [Greenland](#) - [Iceland](#) - [Ireland](#) - [Italy](#) - [Liechtenstein](#) - [Luxembourg](#) - [Malta](#) - [Monaco](#) - [Netherlands](#) - [Norway](#) - [Portugal](#) - [San Marino](#) - [Spain](#) - [Sweden](#) - [Switzerland](#) - [UK](#) - [Vatican City](#) - [All Locations for Villas](#) - [List Your Property !!](#)

Also See: [Single Family Homes](#) - [Mansions](#) - [Townhouses](#) - [Duplexes](#) - [Triplexes](#) - [Bungalows](#) - [Timeshares](#)

Villas For Sale in Western Europe - Available Properties

Showing 1 - 10 of 253 listings (Page 1 of 26)

Villa For Sale in Lucca, Tuscany Italy - Pozzuolo 1,150,000 € [Also On Vivium](#)
[Western Europe Villa Rentals](#)

Private and secluded farm house in a beauty spot close to the charming walled city of Lucca. The original stone built house nestles in 3 hectares of land with a planting of chestnut (the house used to be a chestnut farm) and a swimming pool. (perfect for ...)

Holiday Villa For Sale in Tuscany, Italy 810,000 € [Sell Your Western](#)

Casa Migliano - 5 Migliano set in a little valley and the sea. Fully restored and used as a sleepy hamlet 20 km from the sea.

Villa For Sale in Limassol, Cyprus

The Most Exclusive villa built utilizing the best materials. Delivery time attested. This villa has been delivered partially furnished.

Village House For Sale in Olympia Raches Olympias

Village House For Sale in the village of Olympia with 500 civilians, recently renovated but needs further renovation. Mountain view from the front side, sea view from the back side. 2 balconies and garden. A 3-level house that can easily ...

Location based information on *Pozzuolo, Toscana (IT)* and its pronunciation, possibly directly from the Italian data repository!

International purchase of properties with Internet property services

⇒ EGN service could provide additional location based information

Examples for use cases (2)



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a service for global professionals

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Central Europe Online
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All Central Europe Newsfeeds

Poland to Be Represented by President Kwasniewski at Yushchenko's Inauguration 20 Jan 2005 13:44

Analysis: EU's Busek Says Kosova Needs 'Europeanization' 20 Jan 2005 13:43

MACEDONIA: Sasa Lead and Zinc Mine Most Likely to Be Offered at New Tender 20 Jan 2005 13:43

- SERBIA AND MONTENEGRO: DS Leads Negotiations with G17 Plus 20 Jan 2005 13:43
- SERBIA AND MONTENEGRO: Net FDI in Montenegro Surge 60% y/y to USD 44mn in Jan-Sep. 20 Jan 2005 13:43
- SLOVENIA: Government and KBC to Decide NLB's Future 20 Jan 2005 13:43
- SLOVENIA: Dimitrij Rupel and Air Sierra - Inseparable 20 Jan 2005 13:43
- Moravian neighbors report less foot traffic 20 Jan 2005 13:42
- EU's Busek Says Kosova Needs 'Europeanization' 20 Jan 2005 13:39
- EU's Busek Says Kosova Needs 'Europeanization'

PICTURE OF THE DAY

pageantry, tight at inauguration

U.S. Politics T... at inauguration

News

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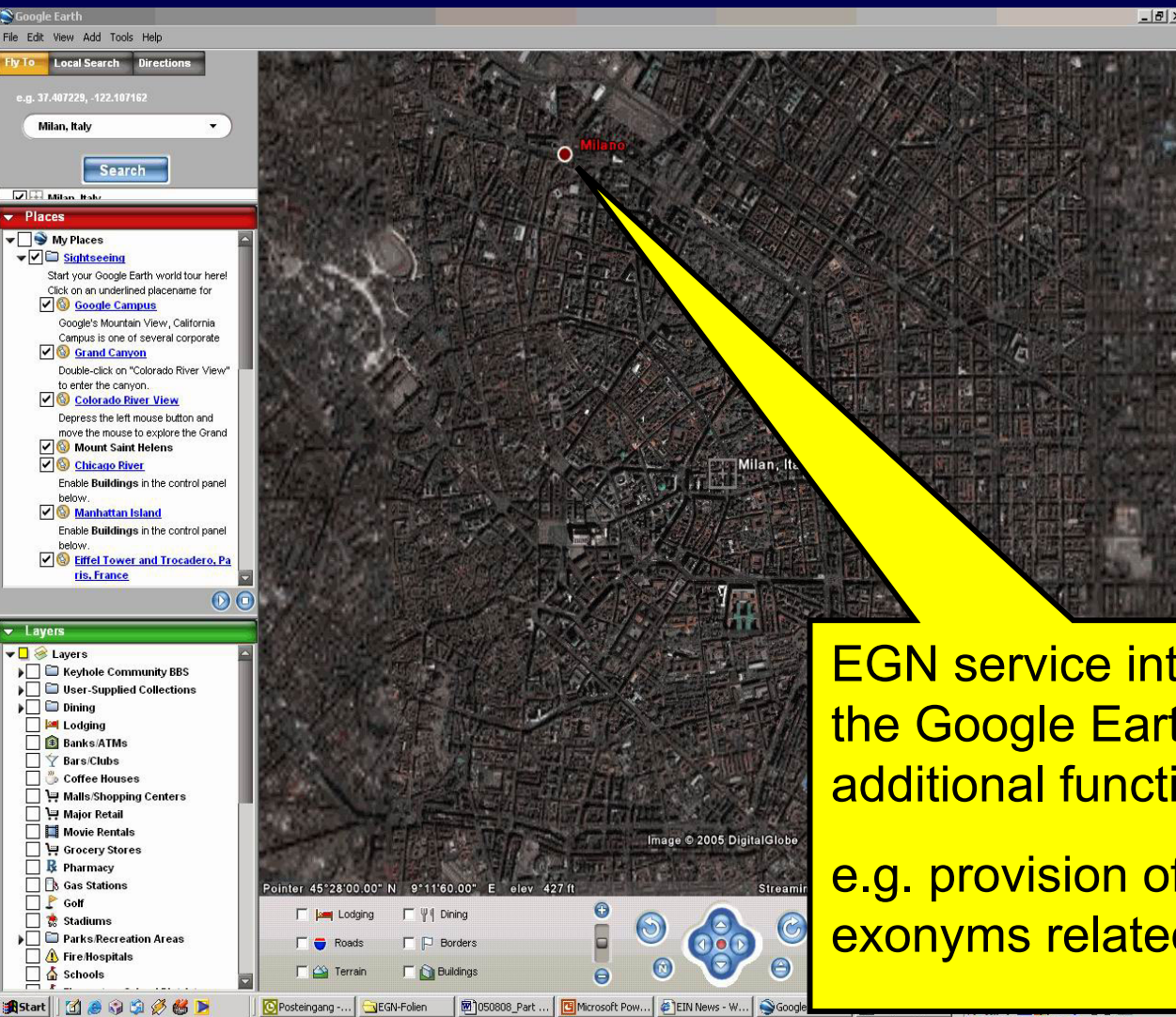
NASA News · Mars Exploration News

Provision of European news

⇒ EGN service could provide additional location based information

EGN service integrated in a news portal as additional functionality
e.g. search for "Macedonia"

Examples for use cases (3)



Google Earth Application

⇒ EGN service could provide additional location based information

EGN service integrated in the Google Earth portal as additional functionality

e.g. provision of the exonyms related to Milano

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- news and events
- projects
- products and services
- expert groups
- developments in europe
- partners

EuroGeoNames

EuroGeoNames (EGN) - developing a European geographical names infrastructure and services



The EuroGeoNames (EGN) project, submitted for being funded by the **eContentplus programme** of the EC, will be a core project under EuroSpec.

EGN will implement an interoperable internet service that will link and provide access to the official, **multilingual geographical names data** held at the national level across Europe. By that, EGN will make a major contribution to opening up public sector information within a wider European spatial (geographic) information infrastructure, and relates more specifically to the INSPIRE implementation rules.

The target will be to aggregate data for between 5 and 10 European countries - comprising most probably also Candidate as well as EFTA countries - by connecting their national databases in the EGN infrastructure. The user - primarily 'value added service' providers - will have access to this information through a Web GIS application which will enable searching using **all official European languages, including minority languages.**

The project estimated to about 1,9M € will probably start in mid 2006. It is to be coordinated by the Federal Agency for Cartography and Geodesy (BKG). The project consortium brings together **partners** from the public (3 NMCAS from Austria, Slovenia and Germany), academic (Utrecht University, Edina National Data Centre) and the private sectors (Geodan IT Holding, GeoTask AG, ESRI Geoinformatik GmbH) embracing the full 'value chain' from data providers > technology partners > value added service applications.

These partners have well established working relationships based on other work, including the **survey/inventory on European geographical names data (SI-EGN)** that was completed in advance of the proposal.

Click [here](#) to find the SI-EGN final report (pdf-file).
Click [here](#) to find a EuroGeoNames description narrative (pdf-file).

Projects Overview

- The EuroSpec Programme
- EuroRoadS
- RISE

EuroGeoNames

- ▶ Overview
- ▶ Workplan
- ▶ Partners
- ▶ Downloads
- ▶ Contacts

EuroBoundaries

Pricing & Licensing

EuroMapFinder - Metadata

EuroRegionalMap

EuroGlobalMap

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www.eurogeographics.org/eng/03_projects_EuroGeoNames

Advantages

- Accessibility of geographical names (GN) and their related toponymic attributes (e.g. exonyms, language, scripts/diacritics etc.),
- Continuous updating by the EU countries themselves, i.e. no secondary data sets,
- Endonym as a first entry,
- Considering of approved minority language names,
- Higher attractiveness of services / geoportals,
- Bringing in the knowledge of GN experts.

⇒ **Stimulating cooperation and the better integration of GN in a European SDI**

Thank you for your attention!

www.eurogeonames.com

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