

13th EC-GIS Workshop

Porto, 4-6 July 2007

...so you thought you had
nothing to do with
INSPIRE...

Andrea Giacomelli

Paolo Cavallini

Driver

- INSPIRE is coming...now it's here
- As a subject involved with GI in Europe, interest in defining a relation to this "creature"
- Sharing this interest/need with other users of data in Europe

Point of view: users!

- we are not LMOs (but may relate to SDICs)
- .we are not “institutional technology watchers”
- .this is not extensive/formal survey*
- .NOT computer scientist POV
-in principle: educated users
- . interested in awareness raising/ organisational implications

* = 150 people ?

Case studies

1: Multinational company (environmental sector)

2: GFOSS community in Italy

(3: Research groups in geoscience fields)

different progress on different cases, yet
interest to pick and choose different aspects
from each case

Case 1. Multi-national company

Engineering, services and consulting

- active for tens of years
- staff in the range of thousands
- hundreds of offices worldwide



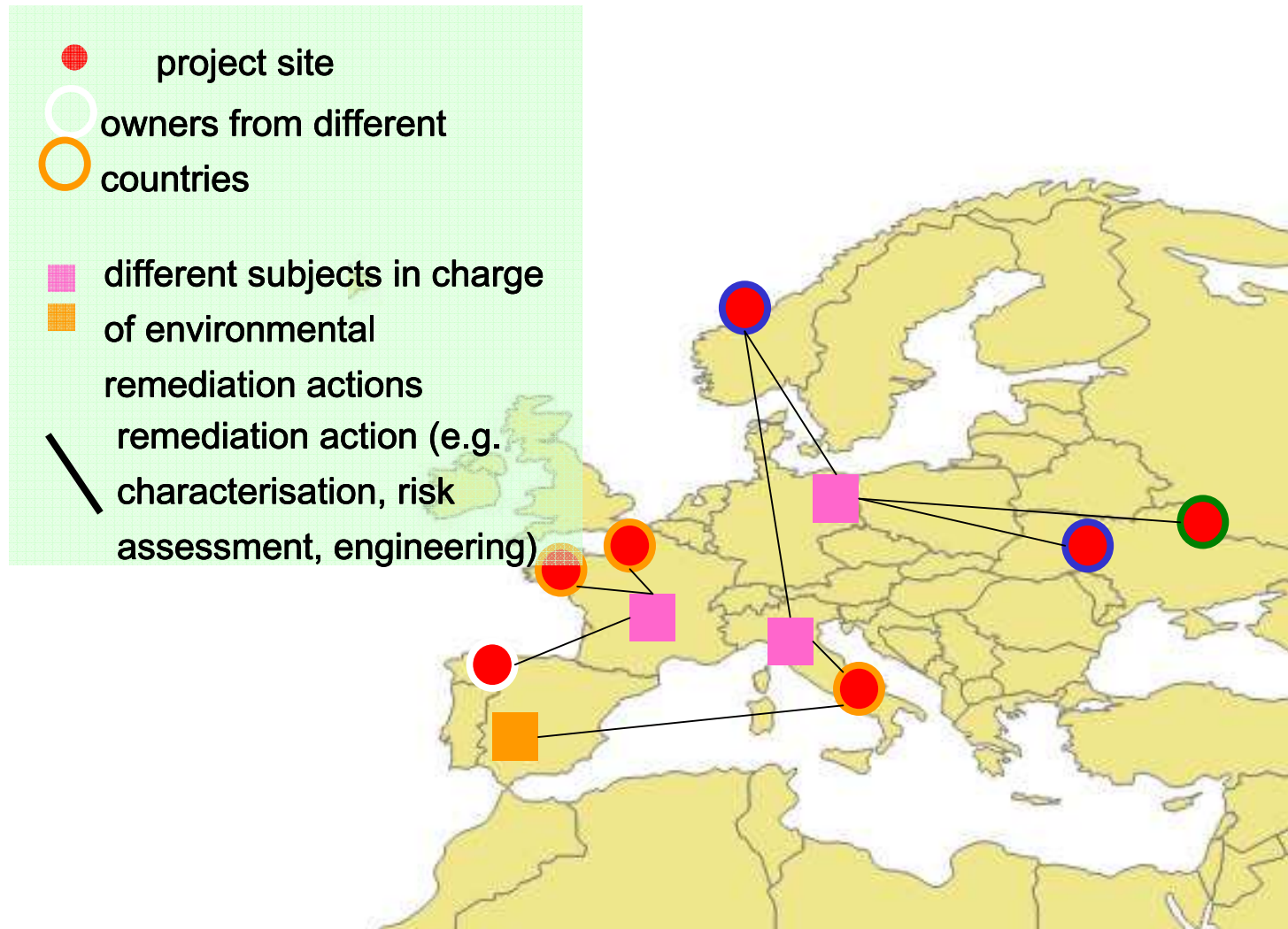
Business sectors:

- .Environment
- .Energy
- .Industrial Health & Safety
- .Transportation infrastructures
- .Telecommunications
- .Other utilities

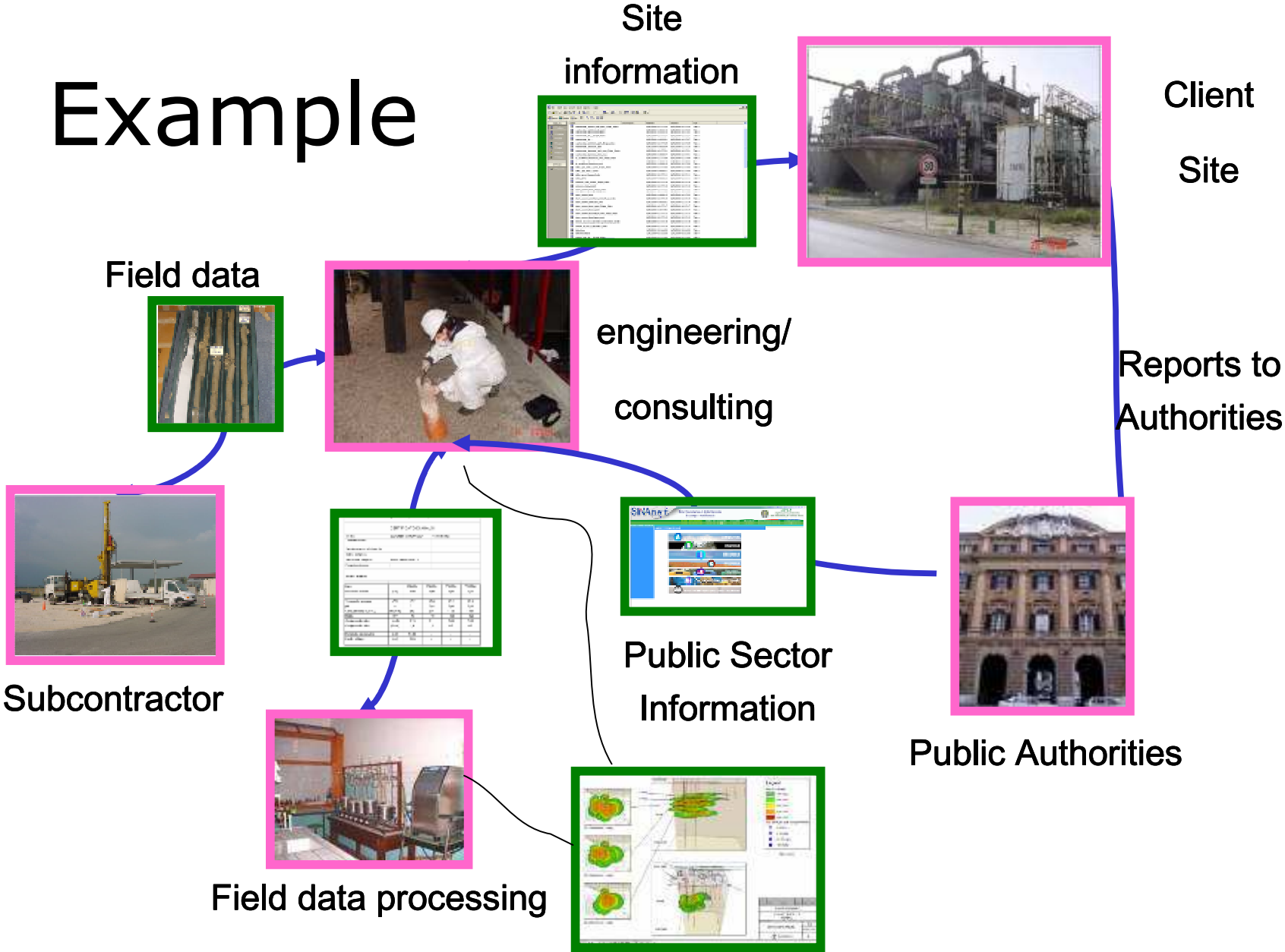
- spatial data as key resource in most of the above mentioned activities



Setting for “multi-national” operations



Example



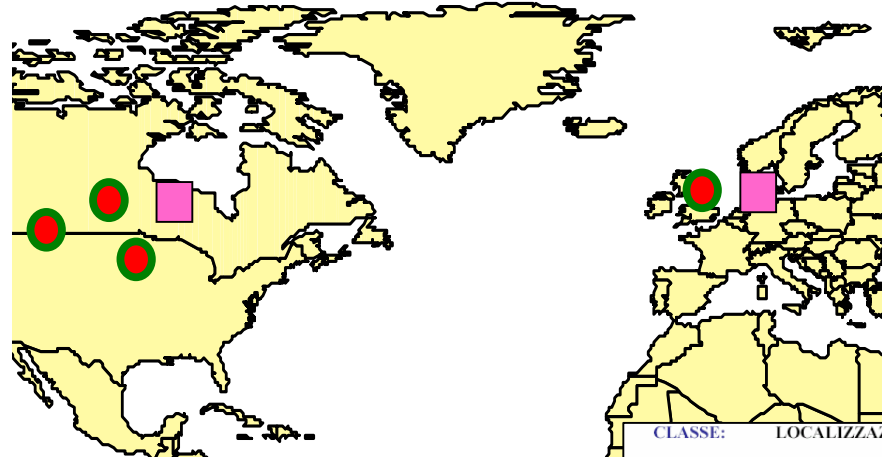
Fact

Most of the requirements identified by INSPIRE for the establishment of a spatial data infrastructure in Europe in terms of

- metadata
- data harmonisation
- data sharing

are of relevance, both in day-to-day tasks and in efforts covering a broader scope (e.g. transmitting data across different teams in long-term projects)

With an additional “degree of freedom”



CADD GIS TECHNOLOGY CENTER
for Facilities, Infrastructure, and Environment

Select an Entity Set

- geology
- hydrography
- improvement
- land_status
- landform
- military_operations
- offactory
- soil
- transportation
- utilities**
- visual

Select the desired Entity Class

Entity Class Name: utilities_electrical_system

Entity Types

Select the desired Entity Type

- utilities_cntrl_mntr_system
- utilities_cntrl_mntr_system_fm
- utilities_compressed_air_system
- utilities_electrical_ext_light
- utilities_electrical_system**
- utilities_electrical_system_fm
- utilities_fuel_system
- utilities_fuel_system_fm
- utilities_general
- utilities_general_fm
- utilities_heat_cool_system
- utilities_heat_cool_system_fm
- utilities_industrial_system

Entity Type Name: electrical_bus_line

Entity Class Name: utilities_electrical_system

Entity Set Name

Object Type: String

Definition: A rigid metallic conductor typically in the form of square tubing.

Facility Management

FMSFIE Classes Only ALL Incl

CLASSE: LOCALIZZAZIONE DI MANUFATTO DI RETE TECNOLOGICA

La componente spaziale della classe:

STRATO: RETI TECNOLOGICHE.....	227
TEMA: RETE ELETTRICA.....	227
CLASSE: TRATTO DI LINEA DELLA RETE ELETTRICA.....	227
CLASSE: NODO DELLA RETE ELETTRICA.....	229
TEMA: RETE DI DISTRIBUZIONE DEL GAS.....	231
CLASSE: TRATTO DI LINEA DELLA RETE DI DISTRIBUZIONE DEL GAS.....	231
CLASSE: NODO DELLA RETE DI DISTRIBUZIONE DEL GAS.....	233
TEMA: RETE DI TELERISCALDAMENTO.....	235
CLASSE: TRATTO DI LINEA DI TELERISCALDAMENTO.....	235
CLASSE: NODO DELLA RETE DI TELERISCALDAMENTO.....	237
TEMA: OLEODOTTI.....	239
CLASSE: TRATTO DI LINEA DI OLEODOTTO.....	239
CLASSE: NODO DELLA RETE DEGLI OLEODOTTI.....	241
TEMA: RETI DI TELECOMUNICAZIONI E CABLAGGI.....	243
CLASSE: TRATTO DI LINEA DELLA RETE DI TELECOMUNICAZIONE E CABLAGGI.....	243
CLASSE: NODO DELLA RETE DI TELECOMUNICAZIONE E CABLAGGI.....	245

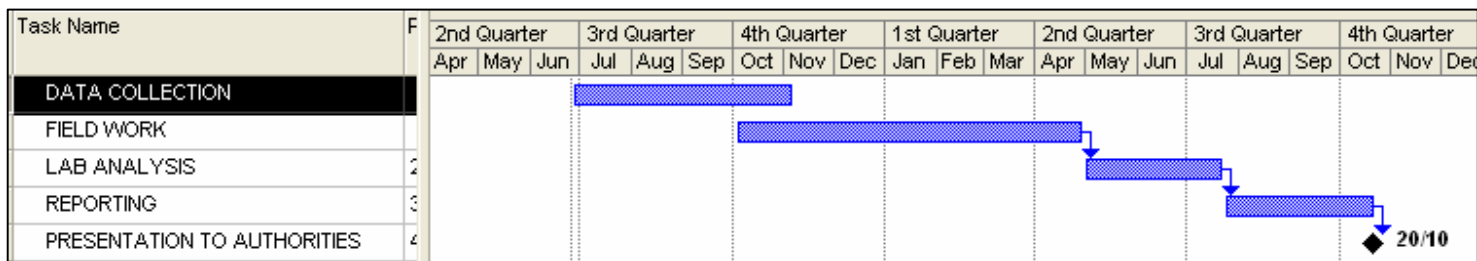
- pozzetto chiuso
- categoria rete telecomunicazione
- pozzetto
- categoria adduzione delle acque
- idrante
- idrante soprasuolo
- idrante in sottosuolo
- punto di presa

Notes

- The use of “home country” standards for data, metadata, or services is perfectly consistent to insure an efficient view of information across sites in different countries. From a corporate viewpoint.
- However, this approach may pose data sharing issues or communication issues with other subjects (e.g. maintenance of multi-lingual data sets for interaction with local public authorities)
- Furthermore, national/EU-level authorities, may rely on data standards which are more appropriate than non-EU data standards or services for activities based in Europe.

Implications

Lack of reference to standards for data, application, and services), in situations where spatial data infrastructures are not in place or only partially developed or acknowledged can be significant from the standpoint of resources and scheduling.



TIME

Notes

- The “footprint” in Europe of a multinational company USING data can be comparable, in terms of operations, to that of an LMO or a SDIC existing in the INSPIRE framework.
- Environmental private sector companies are also or producers of information included under INSPIRE data themes.
- Thus, it should be of interest for the multi-national environmental private sector to “interact” with INSPIRE developments.
- Vice versa, since subsets of environmental data produced by MultiNat may eventually “return” to public sector, public sector guideline/standard providers should foster the same type of interaction (or –simply- **enforce** standards...as soon as they reach the local level)

Case 2: GFOSS community in Italy

FOSS = Free/Open-source software

...and data

–some “drivers”
for the
community are
the similar as
initial INSPIRE
drivers (sharing
resources and
models, etc.)



GFOSS community in Italy

- head count...not immediate: some 300 known...others not yet “surfacing”
- evenly distributed from Alps to Sicily
- traces of efforts tracked back to early '90s

Affiliation

- Consulting
- Research
- Education
- Public sector

Thematic areas and skill sets

geology
water resources
architecture
biology
wildlife management
agronomy
climatology

....

(apparently few “pure IT” folks)

Active interest in promoting the GFOSS model “in the real world”

User communities...striving to serve both tools AND data

- “bottom up” generation of data sets

- Openstreetmap

- <http://www.openstreetmap.org/>

- Geocaching

- <http://www.geocaching.com/>

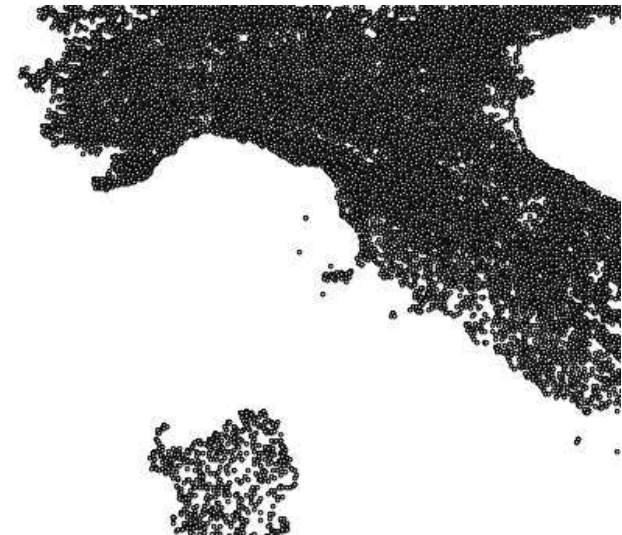
- (add one example per day!)

- Italian official statistical data (place names)

- **<http://geodati.gfoss.it/>** (WFS available)

- edited and improved by the community

- interaction with ISTAT to define “role”



GFOSS community in Italy

- Active interest in promoting awareness on the GFOSS model “in the real world”
- Active in developing and using some of the reference GFOSS tools (*GRASS, QGIS, UMN Mapserver, PostGIS...*)
- Clarification of concepts such as “free” and “open” remains one of the priorities

suggestions/ideas

- on case 1: shift “spotlight” from technology to regulatory aspects. (or: *add* a spotlight)
- on case 2: assess how/to what extent GFOSS “think tank” and resource pool can support in a more acknowledged manner INSPIRE-derived/related actions
- Willing to check if similar issues are found in other thematic or technological sectors
- it may sound as a truism: much awareness raising still needed, in order to define a user’s relation to INSPIRE (or possibly a change in awareness raising modes)...or maybe we can just wait a little longer ?

Thank you



Andrea Giacomelli

pibinko@gmail.com

<http://pibinko.altervista.org>