CNR-IREA

PRIN PROJECT: *URBAN GEOmatics for Bulk Information Generation, Data Assessment and Technology Awareness*

What we have done in this 7 months

We have evaluated the best possible solution to implement a geocatalog.

Possible solution :

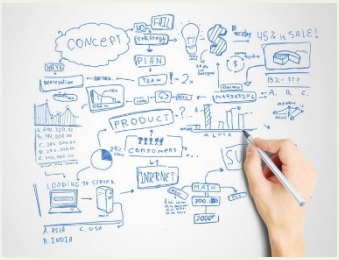
OPEN SOURCE GEOCATALOGUES

GeoNode

GeoNetwork opensource

CUSTOM SOLUTION

Apache Solr



MIXED SOLUTION

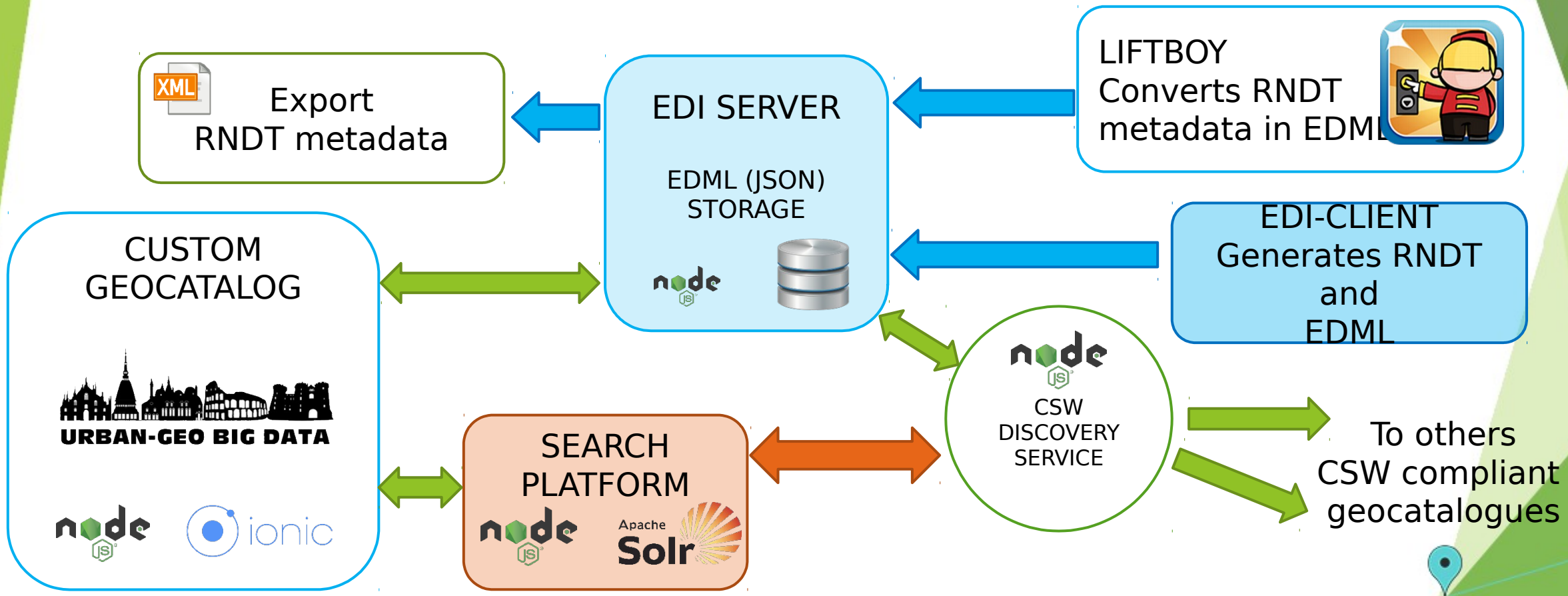
COMPLETE CUSTOM SOLUTION

Custom solution ?

It could have been an interesting solution.

We could have integrated other previously developed projects.

This is an example :



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Why an OPEN SOURCE solution ?

The custom solution has a problem : it is custom.

This is not a private project, this is a research project.

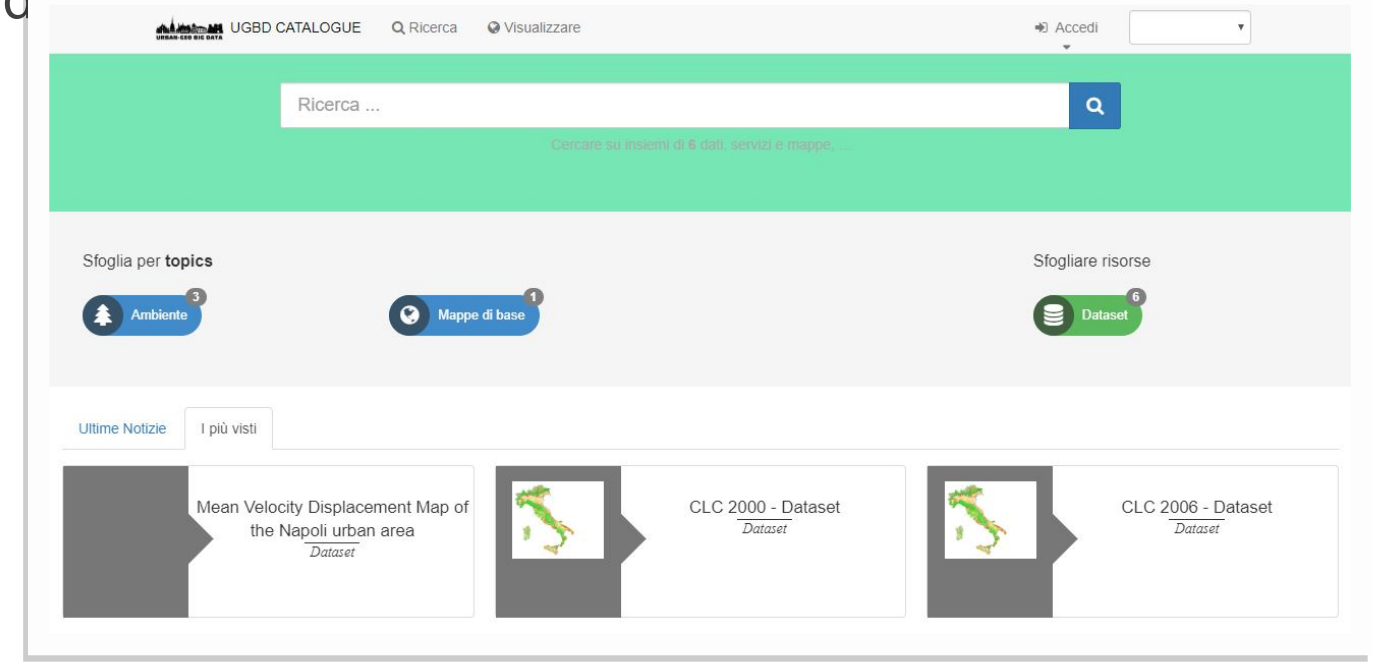
We need a community support.

That's the reason why we decided to adopt a open source solution with a big community.

Why Geonetwork ?

It is an open Source GeoCatalog with a good community on GitHub.
It has been writtend using Java for the core,
Apache Lucene as search engine,
but sadly Angular 1 for the web user interface.

In this period



Those are some example of metadata imported RNDT XML

Categorie

CLC 2000 - Dataset

Il Corine Land Cover (CLC) è un progetto integrante del Programma CORINE. Obbiettivo del CLC è quello di fornire informazioni sulla copertura del suolo e sui cambiamenti nel tempo. Le informazioni sono comparabili ed omogenee per tutti i paesi aderenti al progetto (attualmente 31 paesi compresi anche alcuni del Nord Africa). La fotointerpretazione da immagini

ISPRA

Istituto Superiore per la Protezione e la Ricerca Ambientale

Su questa risorsa

Categorie	Casi di studio; Ambiente
Keywords	• copertura suolo • uso suolo
GEMET - INSPIRE themes, version 1.0	• Land cover • Land use
Lingua	• Italiano
Identificatore della risorsa	• ispra_rm:clc2006_Italia_32
Classification	Non riservato
Legal constraints	dato pubblico
Resource constraints	nessuna limitazione
Contact for the resource	**ISPRA - Istituto Superiore per la Protezione e per la Ricerca Ambientale** • Punto di contatto : mais@isprambiente.it

Informazioni tecniche

Frequenza di aggiornamento	Irregolare
Representation type	Dati vettoriali
Scala	• 100000
Coordinate reference system	• :http://www.opengis.net/def/crs/EPSG/0/4258

Estensione temporale

Data di creazione
2012-11-29

Offerto da

Aggiornato:
16 giorni fa

Condividi su siti di social

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Those are some example of metadata imported :
Imported from a CSW service.

Mean Velocity Displacement Map of the Napoli urban area

We present a case study on the migration to a cloud computing environment of the results produced by the multi-temporal differential synthetic aperture radar interferometry (DInSAR) technique, referred to as Small BAseline Subset (SBAS). The technique, which was proposed in 2002, is widely used for the investigation of Earth surface deformation phenomena,

istituto per il rilevamento elettromagnetico dell'ambiente

Su questa risorsa

Keywords	• Deformation • SAR interferometry • SBAS Deformation Geographical grid systems
GEMET - INSPIRE themes, version 1.0	• Geographical grid systems
RITMARE - Parameter Usage Vocabulary	• Deformation
Identificatore della risorsa	• CNR_NAPOLI_DEFORMAZIONE_MAP
Classification	Unclassified
Resource constraints	Nessuna condizione applicabile (no applicable condition)
Contact for the resource	**CNR-IREA Napoli** • Point of contact : mailto:pepe.a@irea.cnr.it

Informazioni tecniche

Representation type	Vector
Resolution	• 80 m
Coordinate reference system	• http://www.epsg-registry.org/:wgs84
Genealogia	The analysis of surface deformations in the urban area of Naples has been carried out using the full- resolution adaptation of the Small Baseline Subset (SBAS) interferometric differential synthetic aperture radar (DInSAR) technique. SAR data were acquired at C band by the ERS and ENVISAT satellite platforms of the European Space Agency. The applied technique allows performing detailed analyses in urban areas and allows detecting very spatially localized deformation signals, such as those relative to single buildings and public infrastructures, highlighting the relative displacements of coherent structures with respect to the average movement of the ground. The

Estensione spaziale

Estensione temporale

Data di pubblicazione
2017-09-07

Offerto da

Aggiornato:

19 ore fa

Condividi su siti di social

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Those are some example of metadata imported :
Created and imported from Edi-Client (originally html)

Categorie

DB Geotopografico - lotto Padova - sist.rif. ETRF2000

DB Geotopografico - lotto Padova - sist.rif. ETRF2000

Su questa risorsa

Categorie	Mappe e grafici; Mappe di base
GEMET - INSPIRE themes, version 1.0	• Copertura del suolo
Identificatore della risorsa	• c0111114_ETRF2000
Classification	Non riservato
Resource constraints	IODL 2.0
Contact for the resource	**Regione del Veneto, Sezione Pianificazione Territoriale** • Punto di contatto : ptrc.cartografia@regione.veneto.it

Informazioni tecniche

Representation type	Dati vettoriali
Coordinate reference system	• http://www.epsg-registry.org/:etrs89
Formato	PNG
Genealogia	Database Geotopografico - lotto Padova - Secondo la versione 2.6 delle specifiche modello intesa. Rilievo fotogrammetico da piattaforma aerea. Conformità: specifiche Titolo: REGOLAMENTO (UE) N. 1089/2010 DELLA COMMISSIONE del 23 novembre 2010 recante attuazione della direttiva 2007/2/CE del Parlamento europeo e del Consiglio per quanto riguarda l'interoperabilita dei set di dati territoriali e dei servizi di dati territoriali Data: 2010-12-08 Tipo data: Creazione Spiegazione: Vedi specifiche Grado di conformità (INSPIRE): Non valutato

Estensione spaziale

Estensione temporale

Data di pubblicazione
2015-10-01

Offerto da

Aggiornato:
un giorno fa

Condividi su siti di social

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Imported Metadata

ISTITUTO	Esito	NOTE
CLC1990.xml		
CLC2000		
CLC2006		
CLC2012		
consumo_di_suolo		

ISPRA
Istituto Superiore per la Protezione e la Ricerca Ambientale

ISTITUTO	Esito	NOTE
Milano {F4B4E61C-9FA9-4C33-A79B-9517E381208B}		
DB Geotopografico - lotto Padova - sist.rif. ETRF2000		EPSG6706 -> WSG84

We have tried to support you

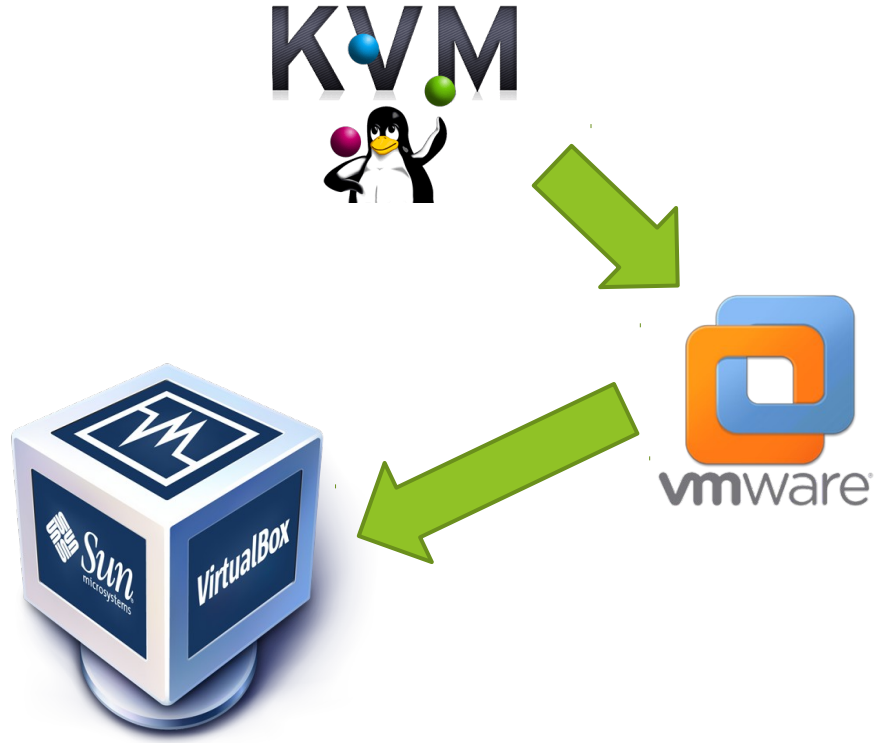
POLITECNICO
MILANO 1863

node PROXY FOR THE
Cross-Origin Resource Sharing

Cross-Origin Resource Sharing (CORS) is a mechanism that uses additional HTTP headers to tell a browser to let a web application running at one origin (domain) have permission to access selected resources from a server at a different origin.

GeoServer

ugbd.get-it.it



We have converted our GET-IT virtual Machine in different formats for

POLITECNICO DI TORINO 1859 1906

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MIUR

Problems we are trying to solve

- Chrome will soon mark all HTTP sites as ‘not secure’
- What is HTTPS-encryption ?
  HTTPS encryption protects the channel between your browser and the website you’re visiting, ensuring no one in the middle can tamper with the traffic or spy on what you’re doing.
- We have decided to adopt and HTTPS-encryption, but this was not a simple decision because there are a lot of problem related to this.

i.e.
We use in Get-It a lot of external services like some Sparql Database or javascript libraries that are not HTTPS-encrypted.

Problems we are trying to solve

- Open Source doesn’t mean easy stuff.

- We are trying to personalize GeoNetwork core to add more specific requests to query the metadata.
  The core is a very complex group of interdependent Java projects.
  Sometimes a little error, or misunderstanding of the procedure can generate a domino effect.

- AngularJS 1, used for the ui, is javascript framework, but it is very different from the more recent versions 2,3,4,5 (that I know better) that are very similar to each other.
  It is still manteined and used, but it is not so easy to find an help online.