











URBAN GEO BIG DATA Meeting Milan, 11 July 2017

CNR-IREA

R.Lanari

- Milano L.Frigerio, G.Bordogna, P. Carrara, S.Lanucara
- Napoli M.Bonano, M.R. Manzo, A.Pepe

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



METADATA: what we have done.

We have created 2 EndPoints to create Metadata:

An instance of Get-it both to upload layers and to deploy related web services and to create their metadata.

It is a sandbox for learning to use Get-It.

http://ugbd.get-it.it/

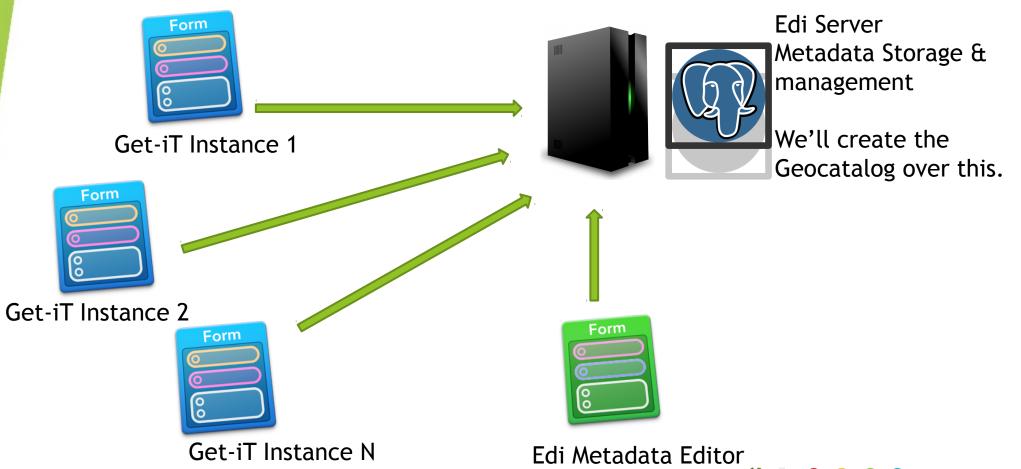
An instance of EDI, the stand alone metadata editor to create metadata for those units who deploy their layers at their own end-point.

http://test-ugbd.get-it.it/dist/RNDT_dataset.html

And an instance of Edi Server to store them all.

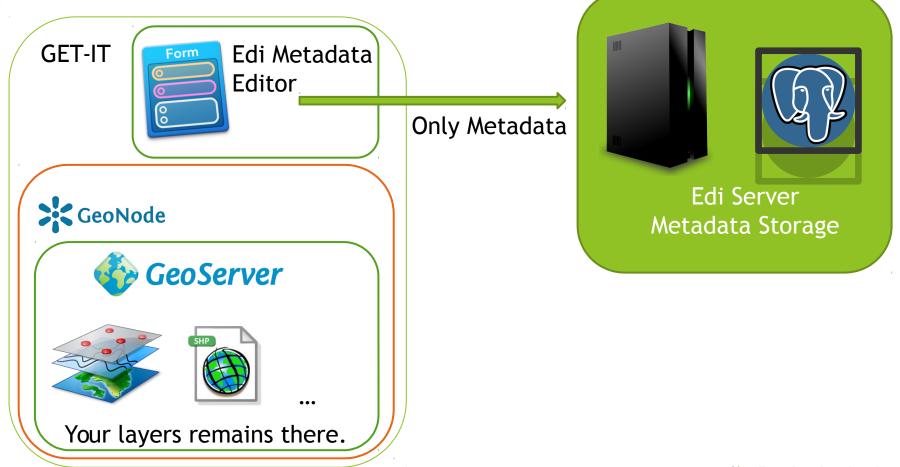


What is Edi-Server?





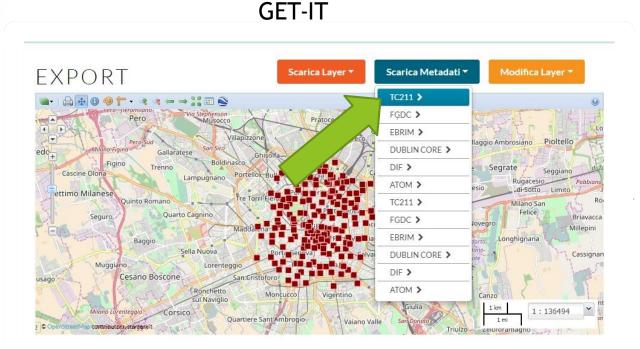
Schema 2 : How Edi-Server Works



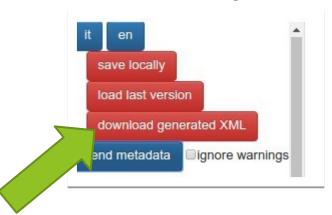




▶ Both the EndPoints offer the possibility to download the XML metadata created compliant with the RNDT standard schema.



EDI EDITOR







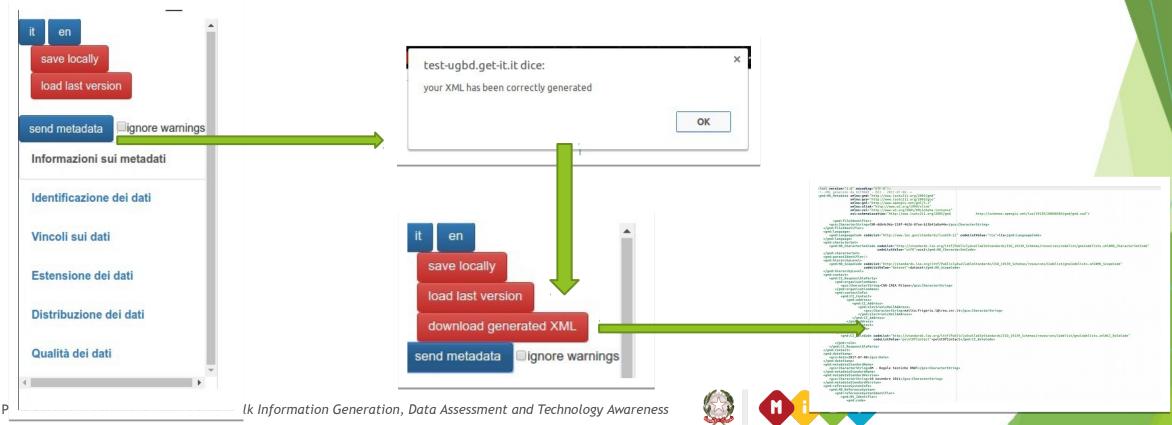
What does it mean Save Locally in the stand alone editor?



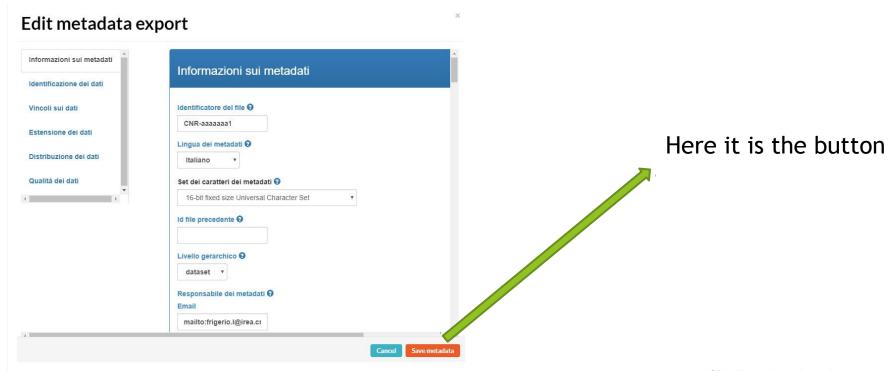




In order to create and download metadata by the Edi stand alone metadata editor you must send them to the Edi-Server using this button. After that you can download them.



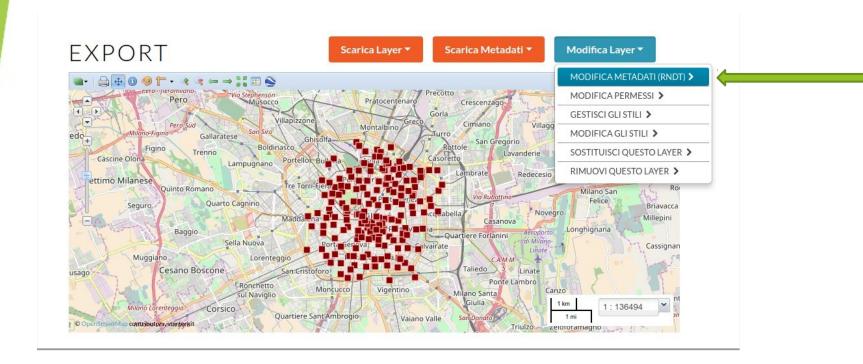
In order to create metadata in the Get-IT Edi metadata editor you must send them to the Edi-Server using this button. After that you can download them.







With Get-IT Edi metadata editor you can modify the metadata of your layer.

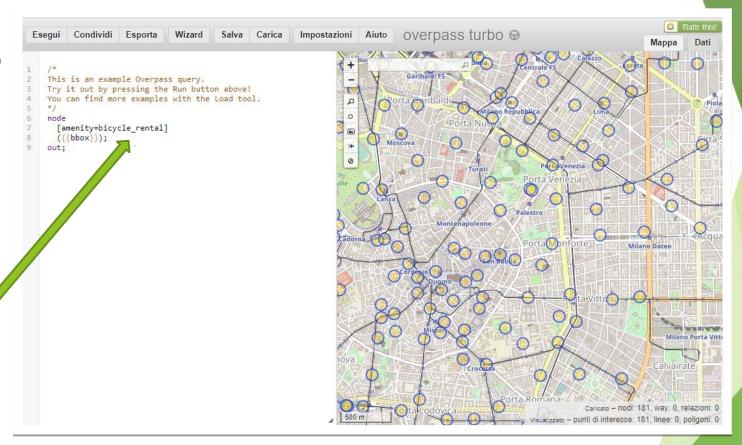






An example: bycicle rental layer from OSM.

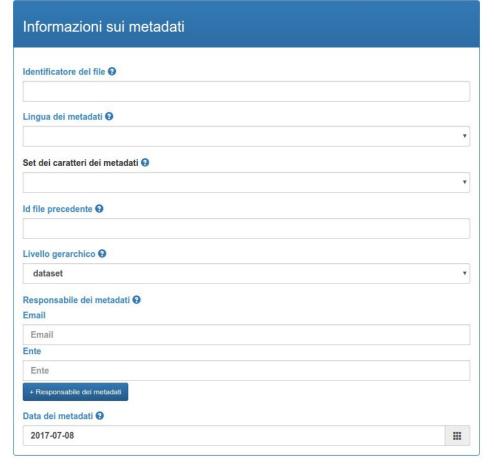
- Downloaded with Overpass Turbo
- Converted with Qgis
- Deployed on the Web as WFS by using Get-IT

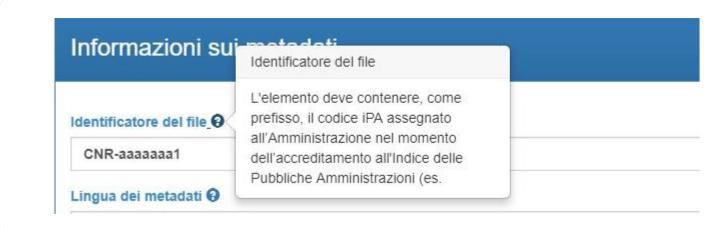






RNDT metadata fields: IPA code ?





Each institute has its own IPA code.

You can find a document in the Google Drive repository with those of the PRIN URBAN GEO-BIG DATA project units.

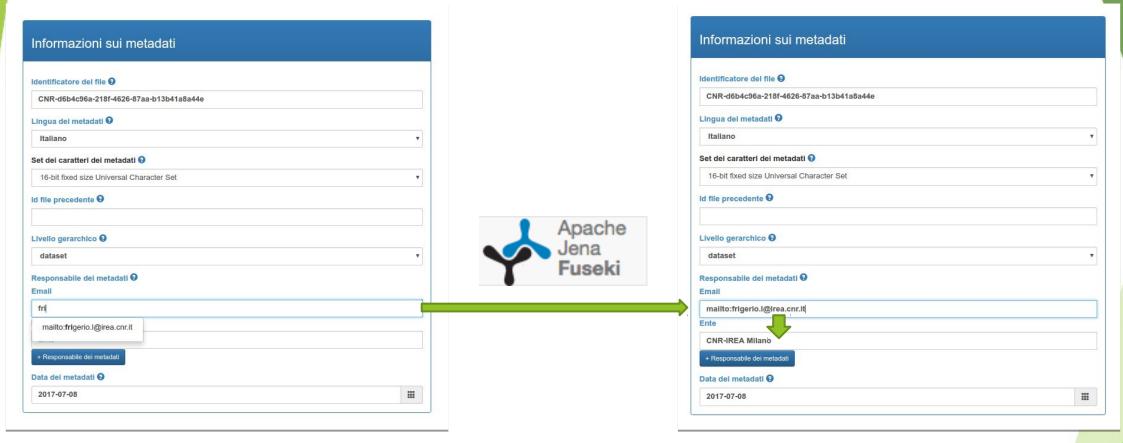
The identifier string needs to have this IPA code according to the Inspire rules.

- i.e. CNR-6b9fd4c9-a4ef-4656-81d3-5422363ad7ee
- i.e. 6b9fd4c9-a4ef-4656-CNR-81d3-5422363ad7ee





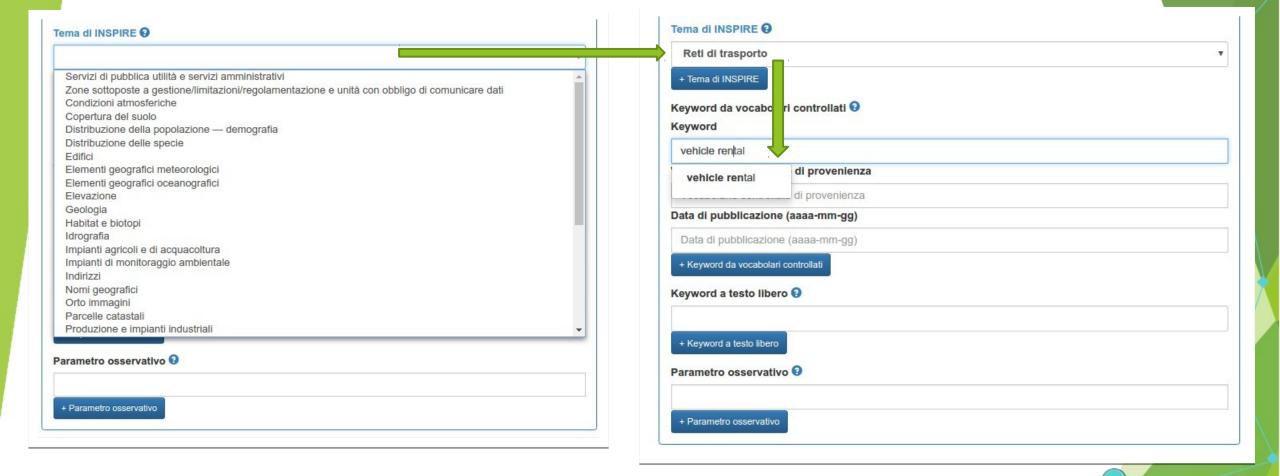
RNDT metadata fields: Autocompletion



Please fill in the Google Sheets in the Drive repository.

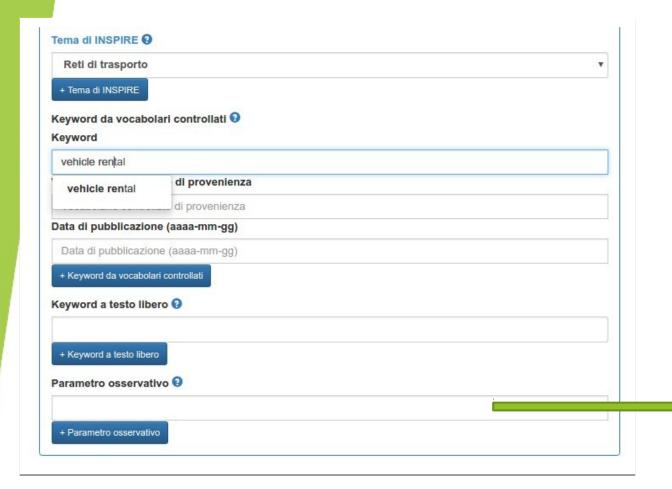


The importance of the Inspire Theme





The importance of the Inspire Theme

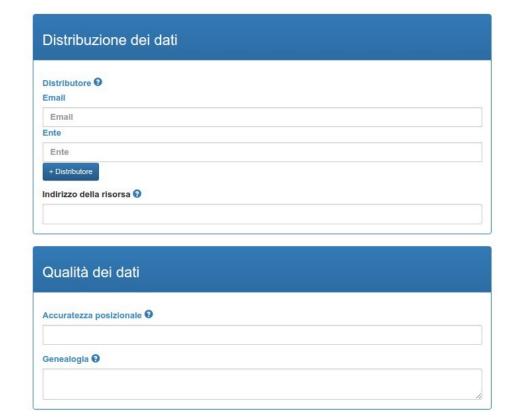


Only for scientific purpose.





RNDT metadata fields: Next Step: extend quality fields





Useful Links:

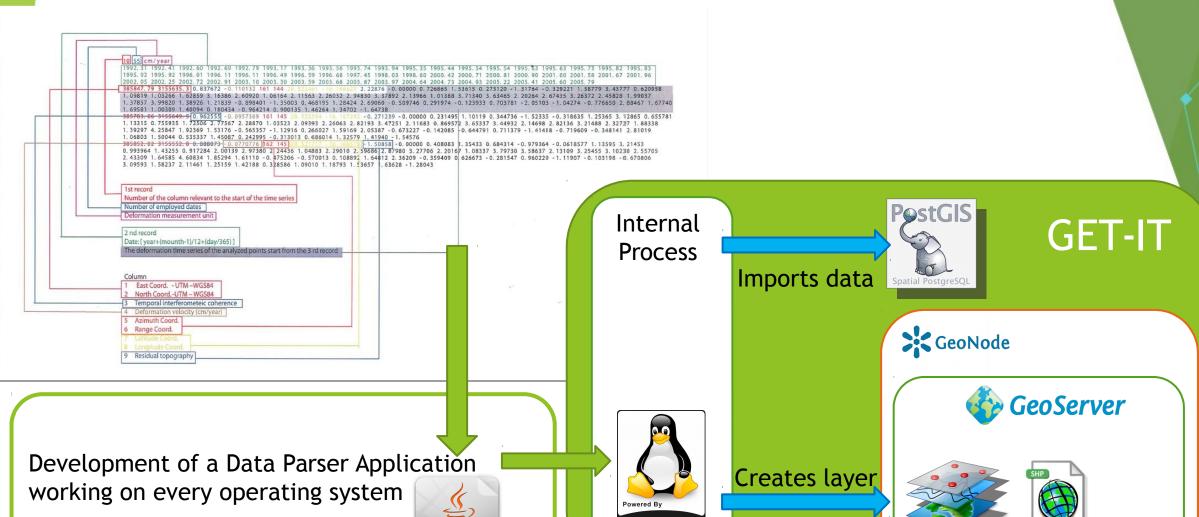
RNDT Fields Manual :

http://
www.rndt.gov.it/RNDT/home/images/RNDT guida operativa dati v2.0 20140
725.pdf

Get-IT
http://www.get-it.it/



IREA Naples: Web Deploy of Time Series



GNU/Linux

PRIN PROJECT: URBAN GEOmatics for Bulk Information Generation, Data Assessment and Tech

The <u>result</u>:

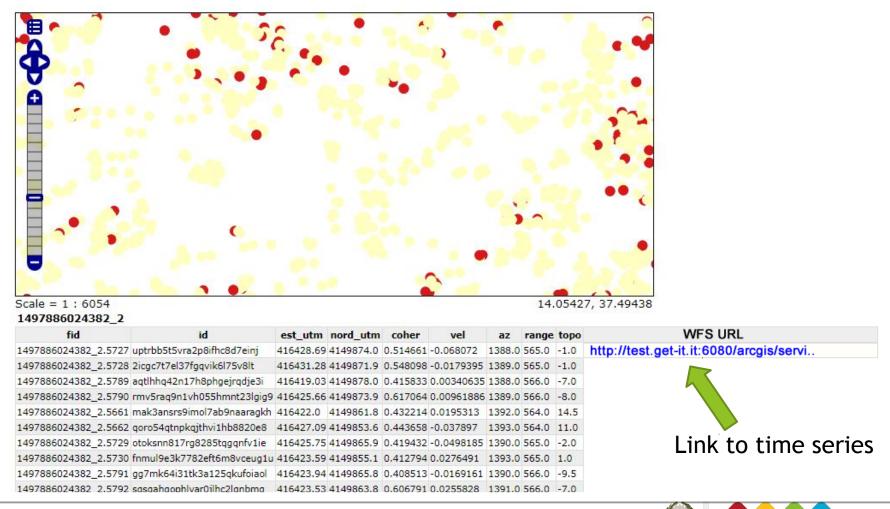


The Layer of average values of Terrain Displacement was created and deployed by using Get IT



WMS

The Layer Terrain Displacement is served as WMS layer in a standard way







Each acquisition point is deployed as WFS so as to be able to access all the time series in the point.

The service is available for any standard WFS requests



Useful Link:

Get-IT instance hosting the example of Metadata from IREA-Napoli: http://heavy.get-it.it/

