

JIIIDE 2014

V Jornadas Ibéricas de Infraestruturas de Dados Espaciais

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INSTITUTO
GEOGRÁFICO
NACIONAL



JIIIDE 2014

 **GeoSmartCity**

Open geo-data à escala municipal (Oeiras) no projeto GeoSmartCity

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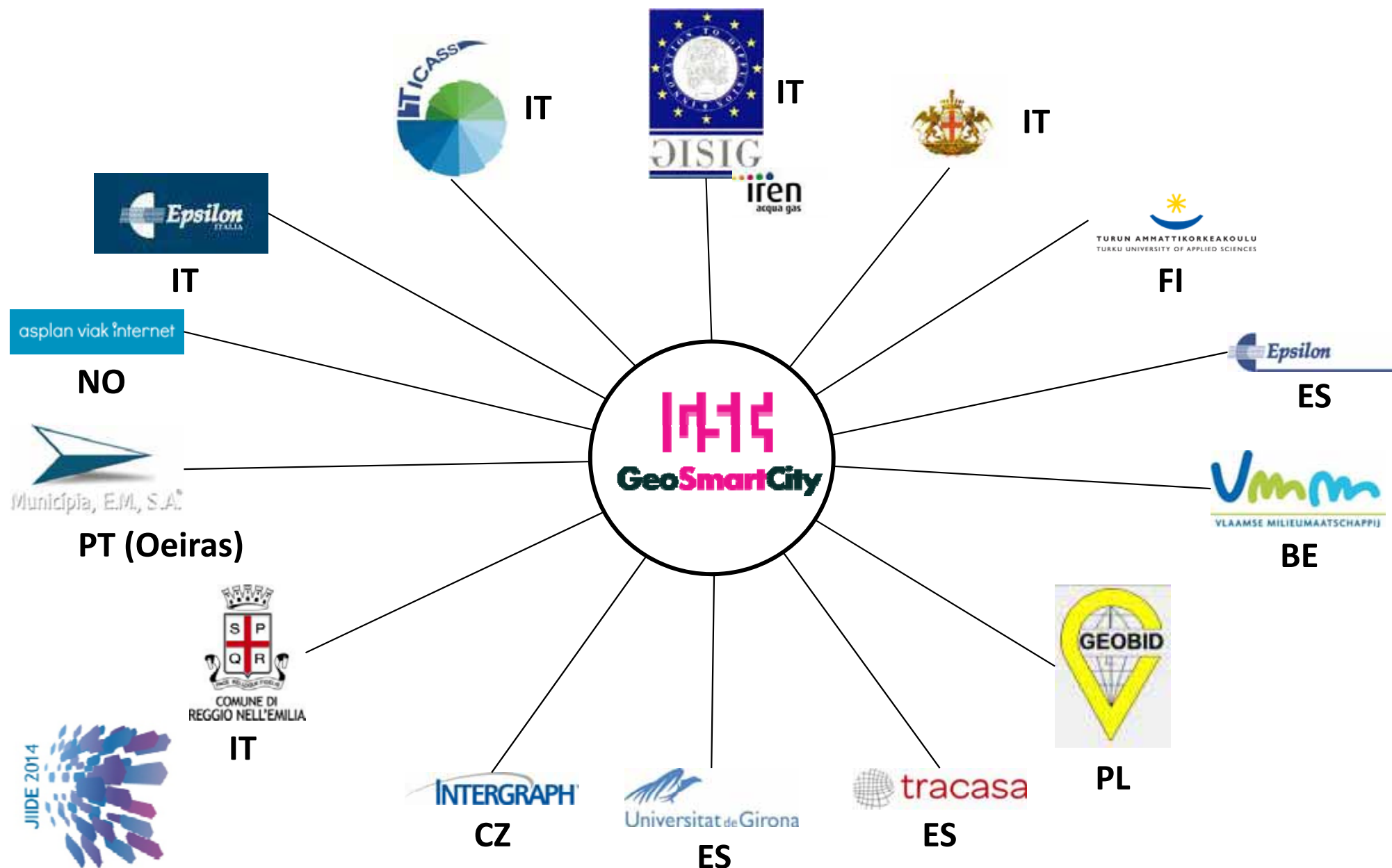
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Open geo-data à escala municipal no projeto GeoSmartCity

OBJECTIVOS DO PROJETO:

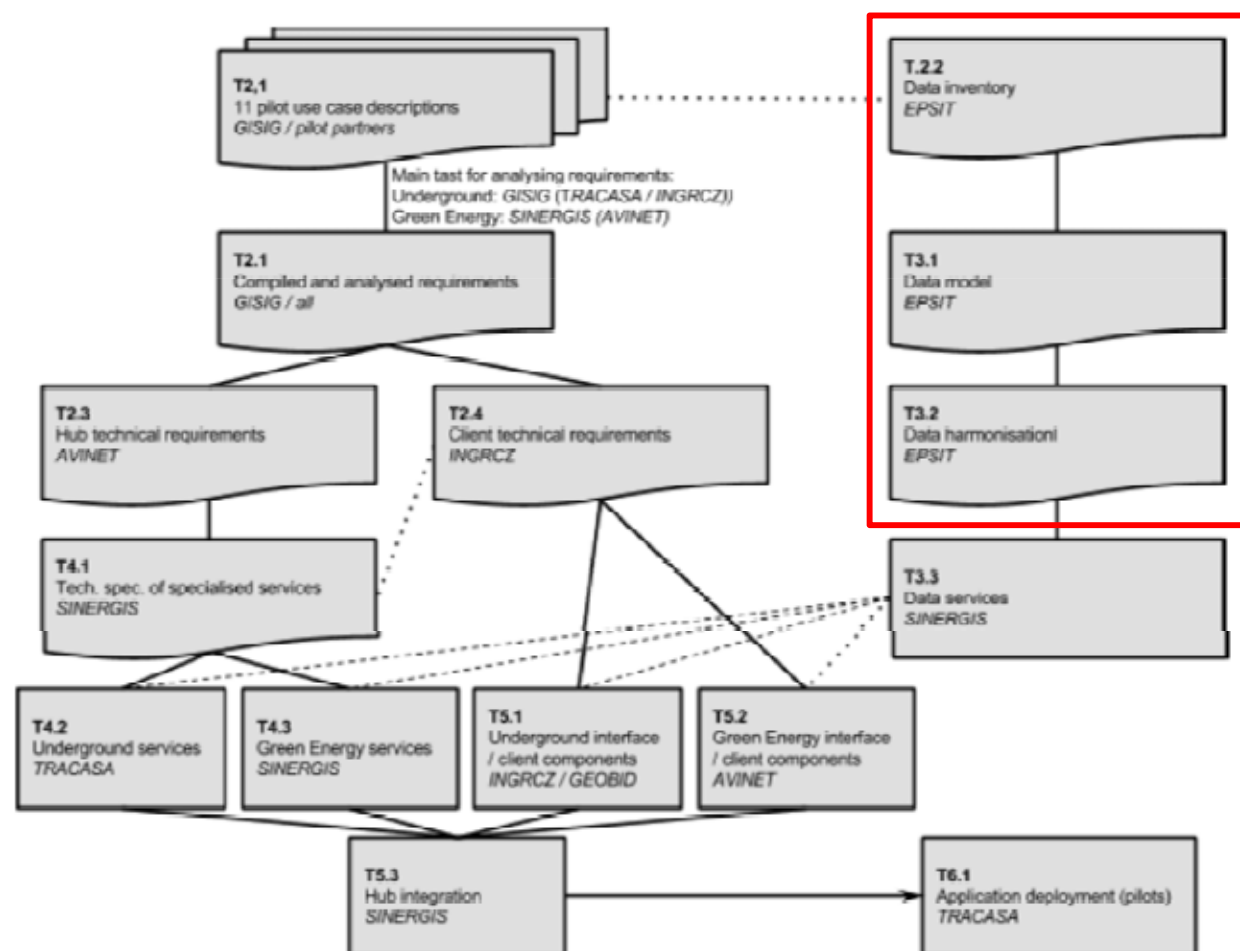
- Apoiar as cidades a "abrir" os seus dados a profissionais e cidadãos;
- Estabelecer uma plataforma, reutilizável, capaz de publicar dados (G) abertos, em contexto urbano, mas com uma dimensão europeia;
- Disponibilização de ferramentas e funcionalidades para integrar dados/informação (G) abertos;
- Partilha e serviços de integração dados restritos\proprietários com dados (G) das cidades abertos.

PARCEIROS



OBJECTIVOS vs EXPLORAÇÃO

- Infraestrutura aberta extensível ao conceito de Smartcities
- Dois cenários de aplicação:
 - *Underground*
 - *Green Energy*



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OBJECTIVOS DO CENÁRIO “GREEN ENERGY”:

- Fornecer à AP instrumentos para a definição e gestão da sua política de "energia inteligente";
- Apoiar o processo de transição energética (tradicional para renovável) e fornecer o conhecimento necessário;
- Demonstrar a importância da integração de dados para otimizar e melhorar a utilização dos recursos energéticos: sensores em tempo real (ambiente / meteo / consumo de energia), smart metering, smart grid;
- Para ativar e testar, novas colaborações público-privadas, com alto valor acrescentado;
- Para criar um ambiente que favoreça o desenvolvimento económico territorial explorando as oportunidades da transição energética e das potencialidade das TIC.

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- Caso de estudo PT: Oeiras
- 3 Use cases para o cenário “*Green Energy*”:
 - 1) **Urban Sustainable Planning Tool**
 - 2) **Zero-balance calculation**
 - 3) **Calculation of energy performance (EPBD class energy) at building level**



DIRETIVA 2010/31/UE DO PARLAMENTO EUROPEU E DO CONSELHO
de 19 de Maio de 2010
relativa ao desempenho energético dos edifícios

DIRETIVAS

DIRETIVA 2012/27/UE DO PARLAMENTO EUROPEU E DO CONSELHO
de 25 de outubro de 2012
relativa à eficiência energética, que altera as Diretivas 2009/125/CE e 2010/30/UE e revoga as
Diretivas 2004/8/CE e 2006/12/CE
(Texto relevante para efeitos do EEE)

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- Caso de estudo PT: *Urban Sustainable Planning Tool*



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- Caso de estudo PT: *Zero-balance calculation*



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- Caso de estudo PT: Calculation of energy performance (EPBD class energy) at building level



- | Dataset name ⁽¹⁾ | Use Case | | | Target Data Model | | UML Target Data Model (other than INSPIRE) | | XSD Target Data Model (other than INSPIRE) | | Existing UML Source Data Model | | Existing XSD Source Data Model | | Existing Source Data Model in other format | | Dataset remapped onto INSPIRE gml application schema | | Remapped dataset compliant against INSPIRE Data Specifications | | Source dataset format(s) (e.g. shp, ESRI geodatabase, GeoMedia warehouse, PostGIS, Oracle Spatial, etc.) |
|---|--------------------------|----------------------|-----------------------|-------------------|-----------------|--|----|--|----|--------------------------------|----|--------------------------------|----|--|----|--|----|--|----|--|
| | unique ID ⁽²⁾ | Input ⁽³⁾ | Output ⁽⁴⁾ | INSPIRE Theme | Other (acronym) | Yes ⁽⁵⁾ | No | Yes ⁽⁶⁾ | No | Yes ⁽⁵⁾ | No | Yes ⁽⁶⁾ | No | Yes ⁽⁷⁾ | No | Yes ⁽⁸⁾ | No | Yes ⁽⁹⁾ | No | |
| D1 - Solar potential | UC-GSCP04-011 | X | | X | | | X | | X | | X | | X | | X | | X | | X | ASCII GRID |
| D2 - Buildings footprint | UC-GSCP04-011 | X | | X | | | X | | X | | X | | X | X | | | X | | X | Postgres\Postgis |
| D3 - Census tracts | UC-GSCP04-011 | X | | X | | | X | | X | | X | | X | | X | | X | | X | Postgres\Postgis |
| D4 - Economic activity location | UC-GSCP04-011 | X | | X | | | X | | X | | X | | X | X | | | X | | X | Postgres\Postgis |
| D5 - Street lights | UC-GSCP04-011 | X | | X | | | X | | X | | X | | X | X | | | X | | X | Postgres\Postgis |
| D6 - Solar potential calculation for buildings | UC-GSCP04-011 | | X | X | | | X | | X | | X | | X | | X | | X | | X | WMS |
| D7 - Solar potential calculation for census tracts | UC-GSCP04-011 | | X | X | | | X | | X | | X | | X | | X | | X | | X | WMS |
| D8 - Electric energy consumption calculation for census tracts | UC-GSCP04-011 | | X | X | | | X | | X | | X | | X | | X | | X | | X | WMS |
| D9.1 - Annual Electric balance | UC-GSCP04-01 | | X | X | | | X | | X | | X | | X | X | | | X | | X | WMS |
| D9.2 - Predictive Electric balance | | | | | | | | | | | | | | | | | | | | |
| D10 - Electricity consumption data | UC-GSCP04-01 | X | | X | | | X | | X | | X | | X | | X | | X | | X | XLS |
| D11 - Project limit | UC-GSCP04-012 | X | | X | | | X | | X | | X | | X | | X | | X | | X | SHp |
| D12 - New buildings | UC-GSCP04-012 | X | | X | | | X | | X | | X | | X | | X | | X | | X | KML/CityGML |
| D13 - Energy balance | UC-GSCP04-012 | | X | X | | | X | | X | | X | | X | | X | | X | | X | KML |
| D17 - New Building Solar Potential | UC-GSCP04-012 | | X | X | | | X | | X | | X | | X | | X | | X | | X | KML |
| D21 - Crowd sourcing - Share Solar System Location | UC-GSCP04-012 | X | X | X | | | X | | X | | X | | X | X | | | X | | X | WMS |
| D14 - Building units (flats) energetic classification | UC-GSCP04-013 | X | | X | | | X | | X | | X | | X | | X | | X | | X | XLS |
| D16 - Location of building units (flats) energetic classification | UC-GSCP04-013 | | X | X | | | X | | X | | X | | X | | X | | X | | X | WMS |
| D18 - Municipality Interventions | UC-GSCP04-02 | X | X | X | | | X | | X | | X | | X | X | | | X | | X | Postgres\Postgis |
| D19 - Water/Sewer Interventions | UC-GSCP04-02 | X | X | X | | | X | | X | | X | | X | X | | | X | | X | Oracle Table |
| D20 - Crowd sourcing communications | UC-GSCP04-02 | X | X | X | | | X | | X | | X | | X | X | | | X | | X | WMS |

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- Porquê harmonizar?
- Todos os dados vão ser harmonizados?
- Têm alguma relação com diretiva INSPIRE?





INSPIRE
Infrastructure for Spatial Information in Europe

D2.8.III.1 Data Specification on *Statistical Units* – Technical Guidelines

Title	D2.8.III.1 INSPIRE Data Specification on <i>Statistical Units</i> – Technical Guidelines
Creator	INSPIRE Thematic Working Group <i>Statistical Units</i>
Date	2013-12-10
Subject	INSPIRE Data Specification for the spatial data theme <i>Statistical Units</i>
Publisher	European Commission Joint Research Centre
Type	Text
Description	This document describes the INSPIRE Data Specification for the spatial data theme <i>Statistical Units</i>
Contributor	Members of the INSPIRE Thematic Working Group <i>Statistical Units</i>
Format	Portable Document Format (pdf)
Source	
Rights	Public
Identifier	D2.8.III.1_v3.0
Language	En
Relation	Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE)
Coverage	Project duration





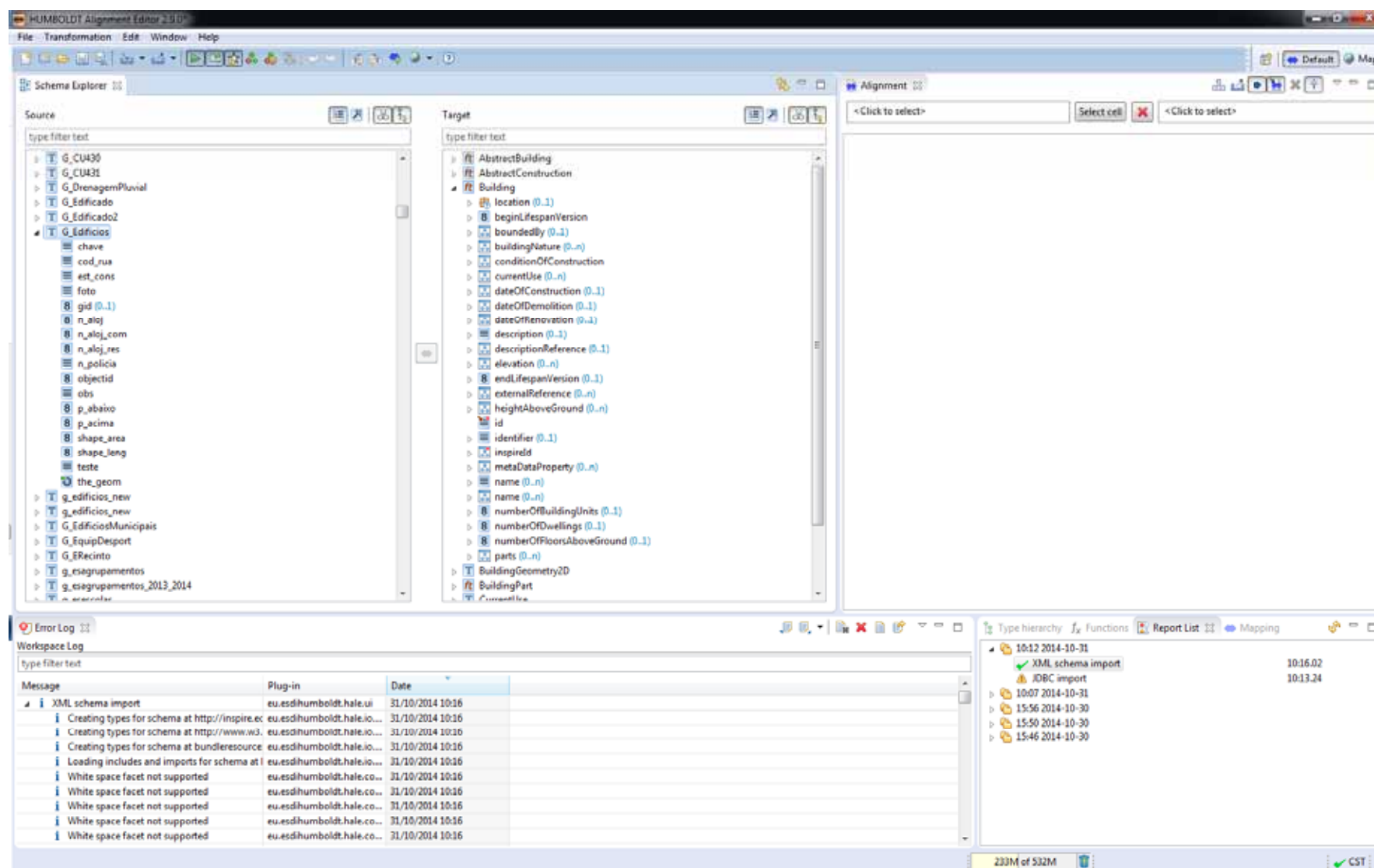
INSPIRE
Infrastructure for Spatial Information in Europe

D2.8.III.2 Data Specification on Buildings – Draft Technical Guidelines

Title	D2.8.III.2 INSPIRE Data Specification on <i>Buildings</i> – Draft Technical Guidelines
Creator	INSPIRE Thematic Working Group <i>Buildings</i>
Date	2013-02-04
Subject	INSPIRE Data Specification for the spatial data theme <i>Buildings</i>
Publisher	INSPIRE Thematic Working Group <i>Buildings</i>
Type	Text
Description	This document describes the INSPIRE Data Specification for the spatial data theme <i>Buildings</i> . This version (version 3, release candidate 3) reflects the content of the draft amendment to Commission Regulation (EU) No 1089/2010 for the Annex II+III spatial data themes as submitted to the INSPIRE Committee.
Contributor	Members of the INSPIRE Thematic Working Group <i>Buildings</i>
Format	Portable Document Format (pdf)
Source	
Rights	Public
Identifier	D2.8.III.2_v3.0rc3
Language	En
Relation	Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE)
Coverage	Project duration

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- Como é que a Municíпия vai harmonizar os dados?

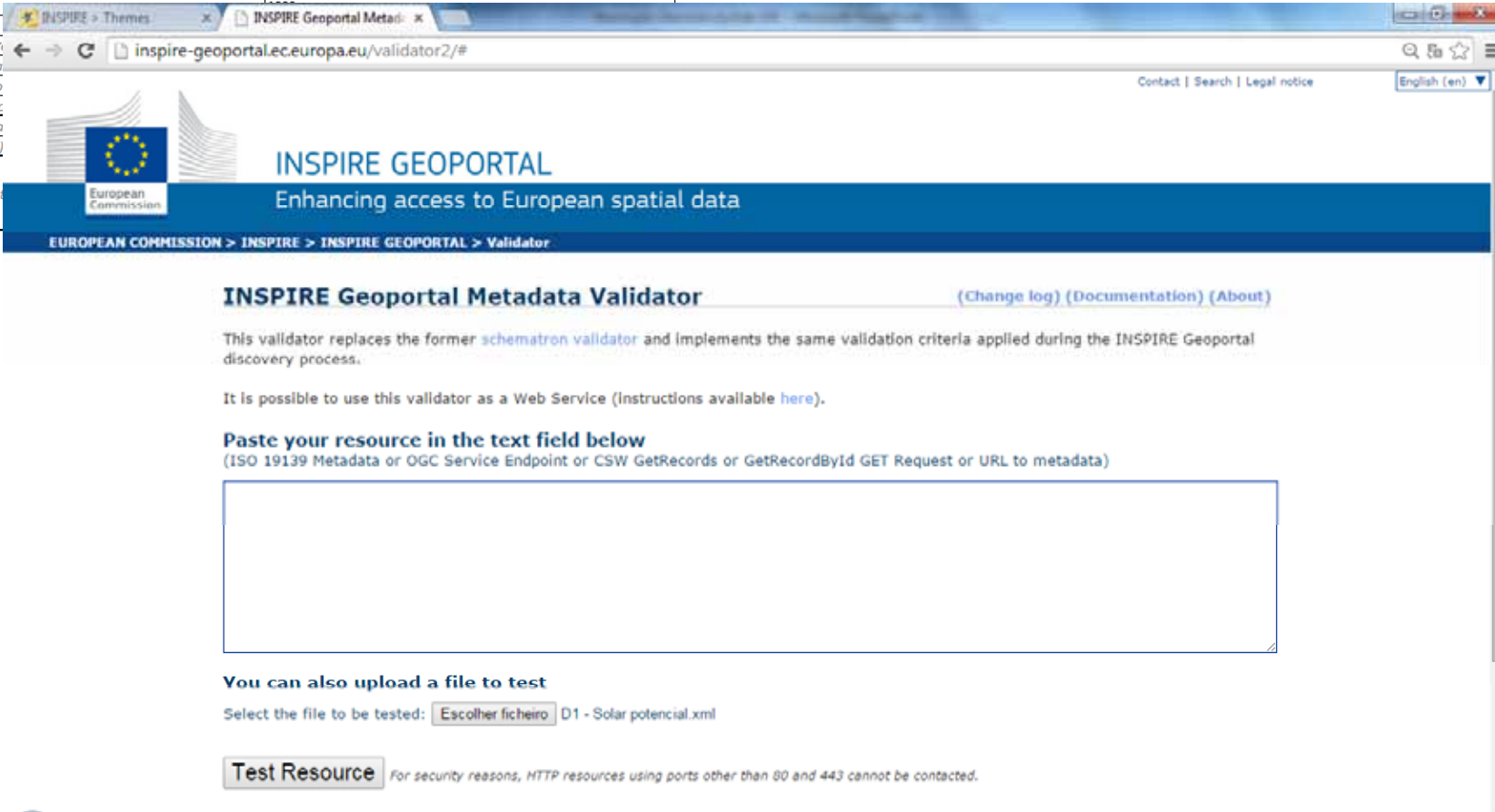


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- E os metadados?

resource	Web site	http://www.somewebsite.org
	Abstract	Brief description of the resource
Classification, constraints and coverage	Free keyword	free text
	INSPIRE keyword	Administrative units
	Restrictions applied to the resource	free text to describe any restrictions applied to the resource
	Equivalent scale	
	Topic category	
Distribution	Bounding box - W	
	Bounding box - Ea	
	Bounding box - So	
	Bounding box - Nc	
	Distribution forma	
	Access point (URL)	
	Lineage statements	

Export XML Show\Hide



INSPIRE GEOPORTAL
Enhancing access to European spatial data

EUROPEAN COMMISSION > INSPIRE > INSPIRE GEOPORTAL > Validator

INSPIRE Geoportal Metadata Validator

[\(Change log\)](#) [\(Documentation\)](#) [\(About\)](#)

This validator replaces the former [schematron validator](#) and implements the same validation criteria applied during the INSPIRE Geoportal discovery process.

It is possible to use this validator as a Web Service (Instructions available [here](#)).

Paste your resource in the text field below
(ISO 19139 Metadata or OGC Service Endpoint or CSW GetRecords or GetRecordById GET Request or URL to metadata)

You can also upload a file to test

Select the file to be tested: D1 - Solar potencial.xml

For security reasons, HTTP resources using ports other than 80 and 443 cannot be contacted.