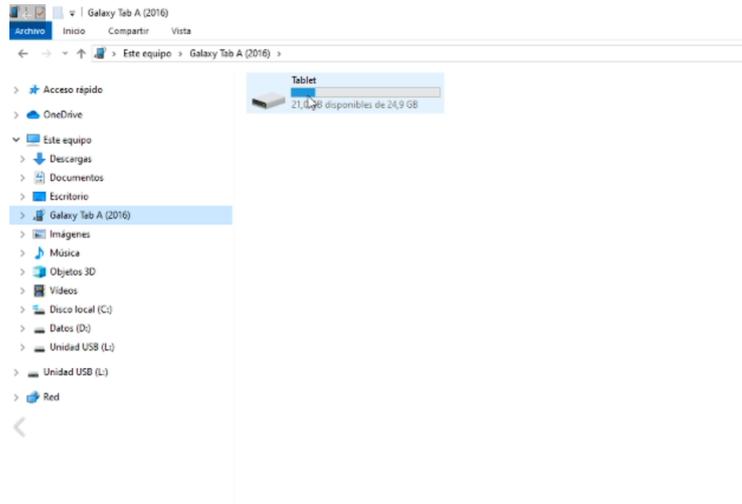




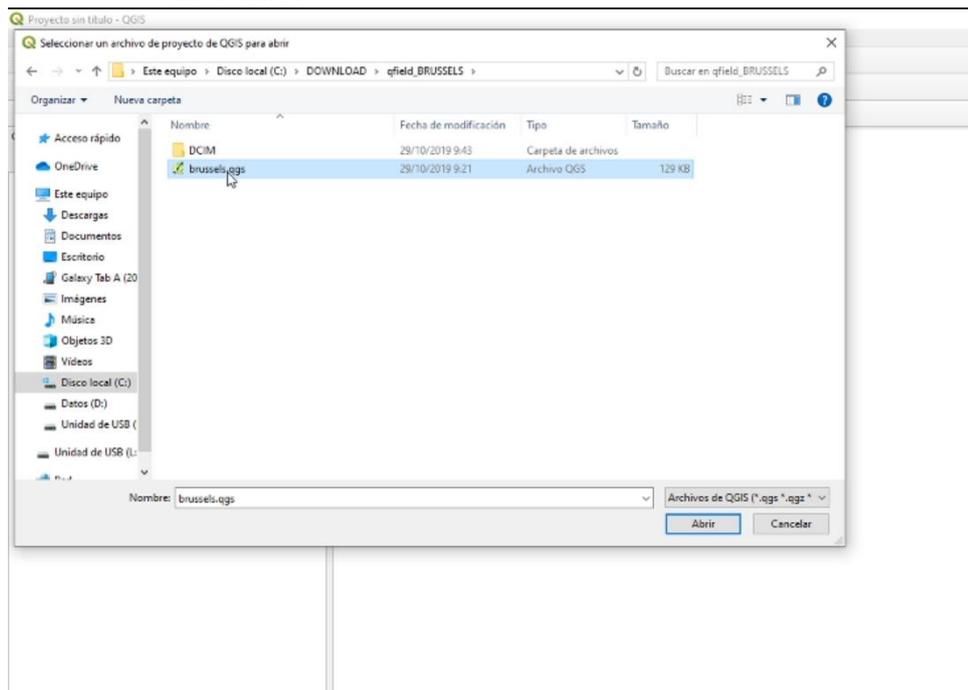
## Previamente... Módulo 2 – Tarea 4

### i. Descarga los datos al ordenador

Cuando conectes la tablet / móvil al ordenador, asegúrate que esta desbloqueado y que has permitido la transferencia de archivos por USB.

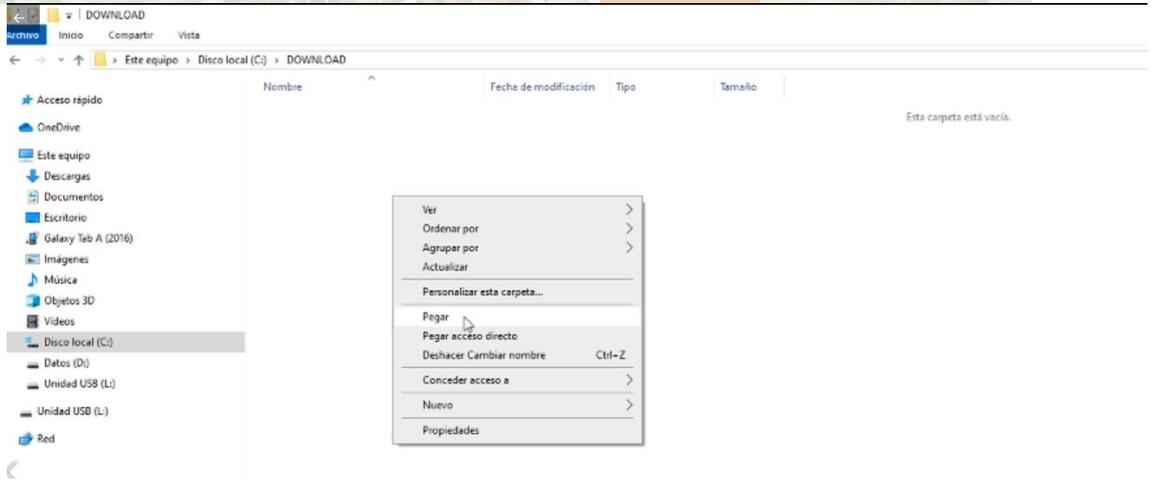


En el explorador de archivos del sistema operativo entramos a la Tablet, copiamos la carpeta del proyecto y la copiamos en nuestro disco duro.

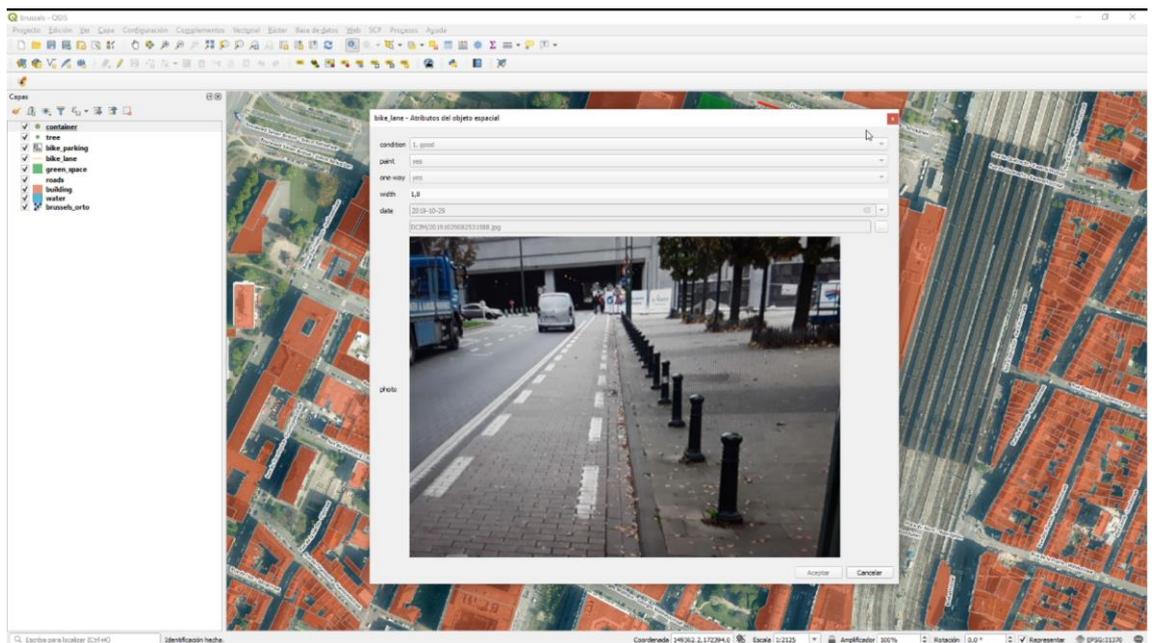




Module 2 - Task 5  
**INFORMATION  
 PROCESSING**



Abrimos el proyecto en WGIS y verificamos que los datos, incluidas las fotos, se han descargado correctamente.



**ii. Normalización y corrección de los datos (especial y temáticamente)**

Primero, comprobamos que la localización de los elementos sea correcta. Para reposicionar los elementos necesitamos usar la edición de nodos (puntos / vértices). Por otra parte, se comprobará la calidad de los datos recogidos. Así, se rellenan los campos vacíos o se analiza la causa de la ausencia de información. Es el momento de poder asignar códigos a cada uno de los elementos.



Module 2 - Task 5

## INFORMATION PROCESSING



### iii. Creación de metadatos

Usando CatMDEdit-GoSLab (Unizar), crearemos los metadatos para las 5 capas creadas.

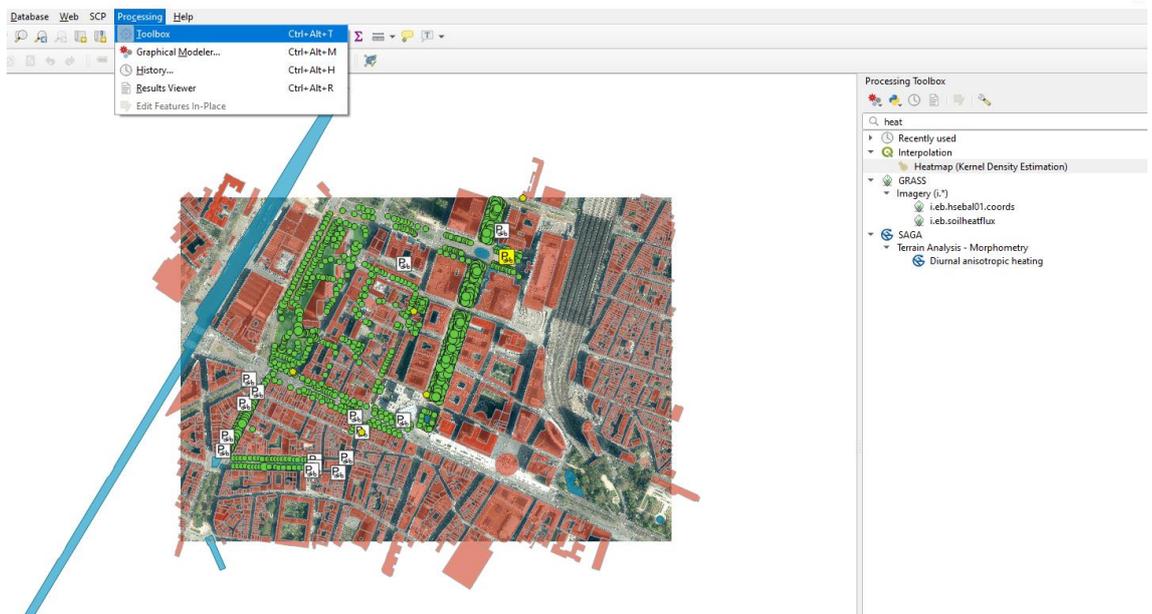
<http://catmdedit.sourceforge.net>

### PARA APRENDER MÁS....

Metadatos <https://gisgeography.com/gis-metadata/>

### iv. Interpolación Kernel

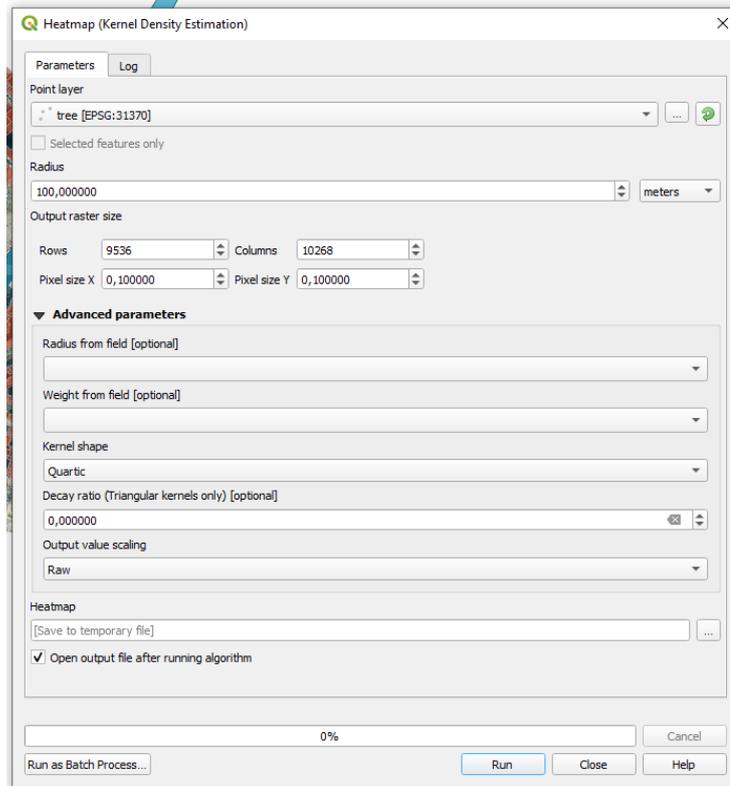
En la caja de herramientas de procesado buscamos la función heatmap.



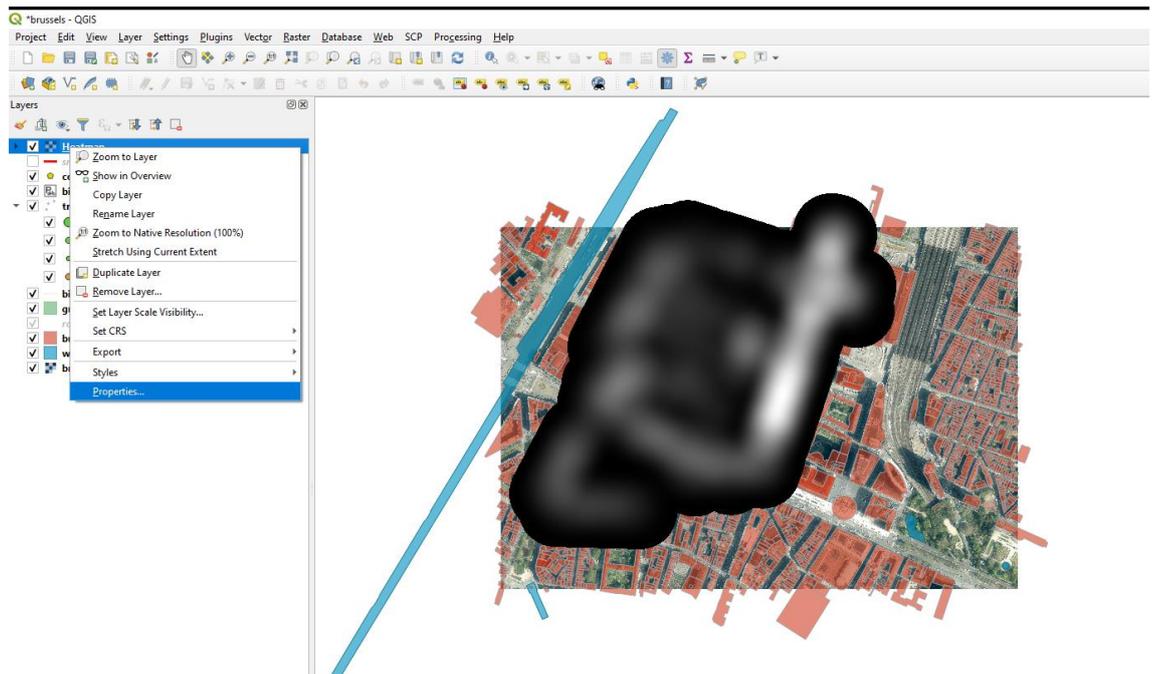


Module 2 – Task 5

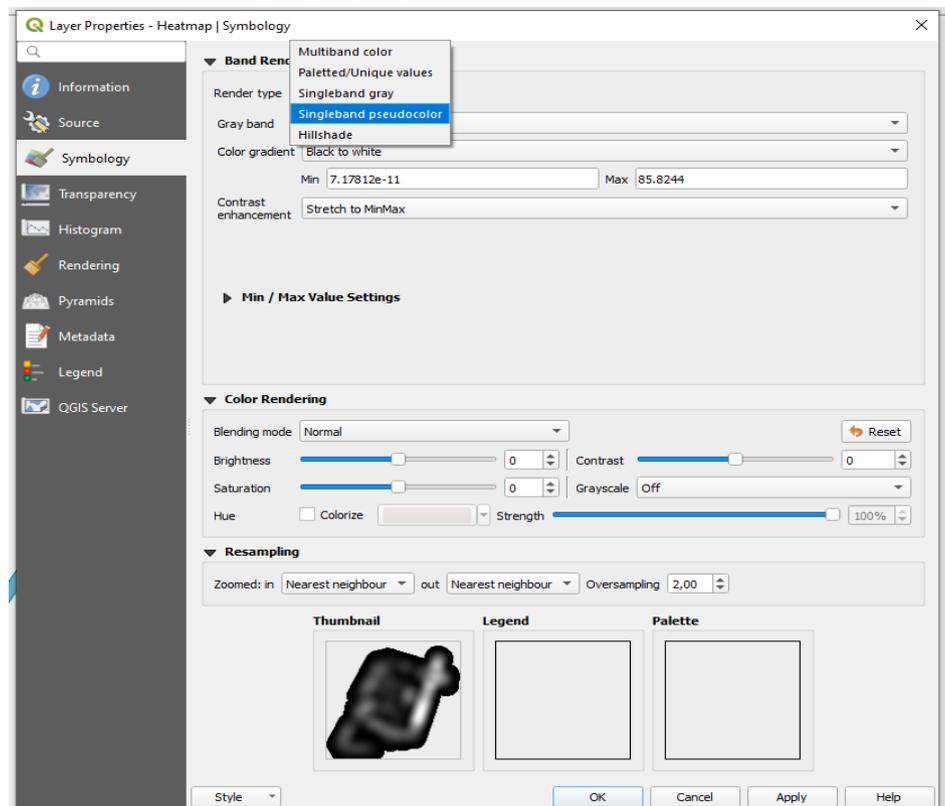
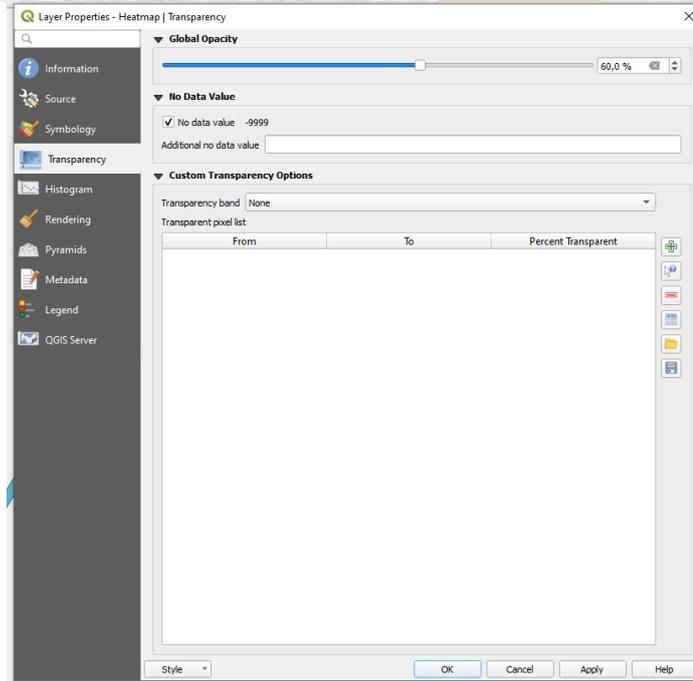
# INFORMATION PROCESSING



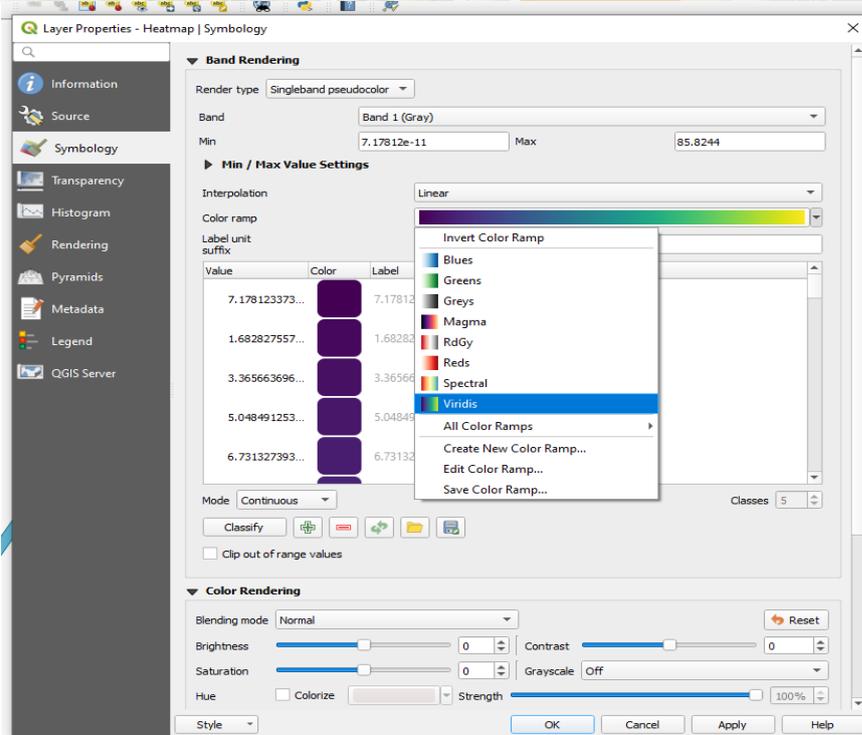
En el formulario seleccionamos la capa “train” e introducimos 100m de radio.



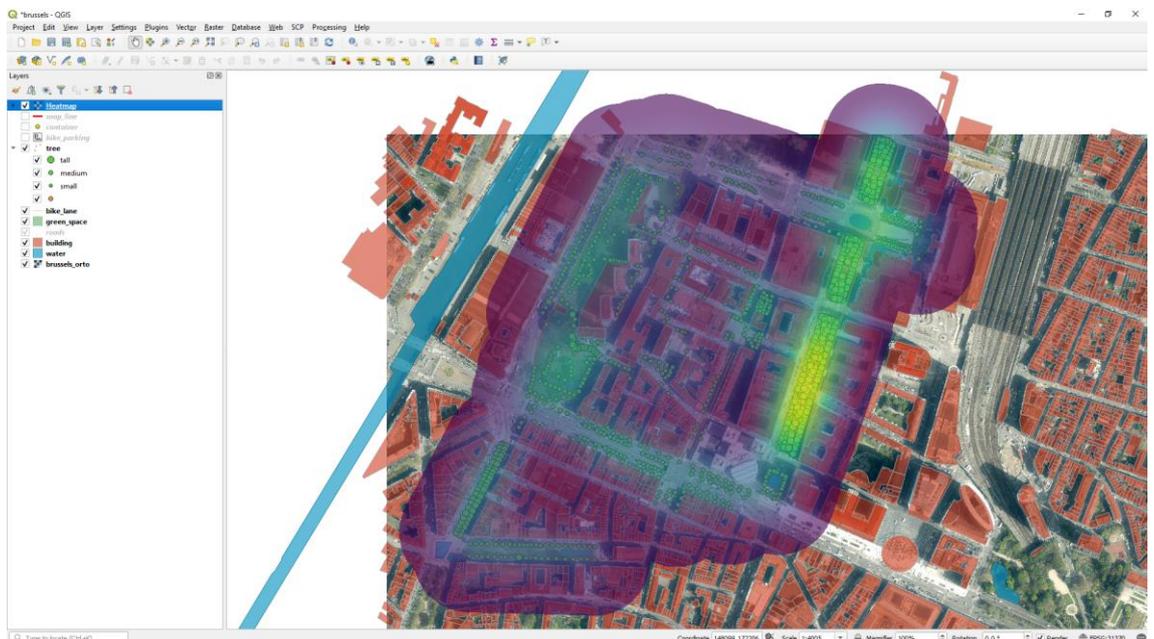
En las propiedades de la capa resultante modificamos la transparencia



Y en simbología, cambiamos el tipo de renderización a “singleband pseudocolor”.



Después cambiamos la rampa de color a “viridis”



De esta forma tenemos el resultado del análisis, lo que muestra áreas con gran presencia de árboles que almacenan la mayor parte del CO2 de la atmósfera.



Module 2 - Task 5



# INFORMATION PROCESSING



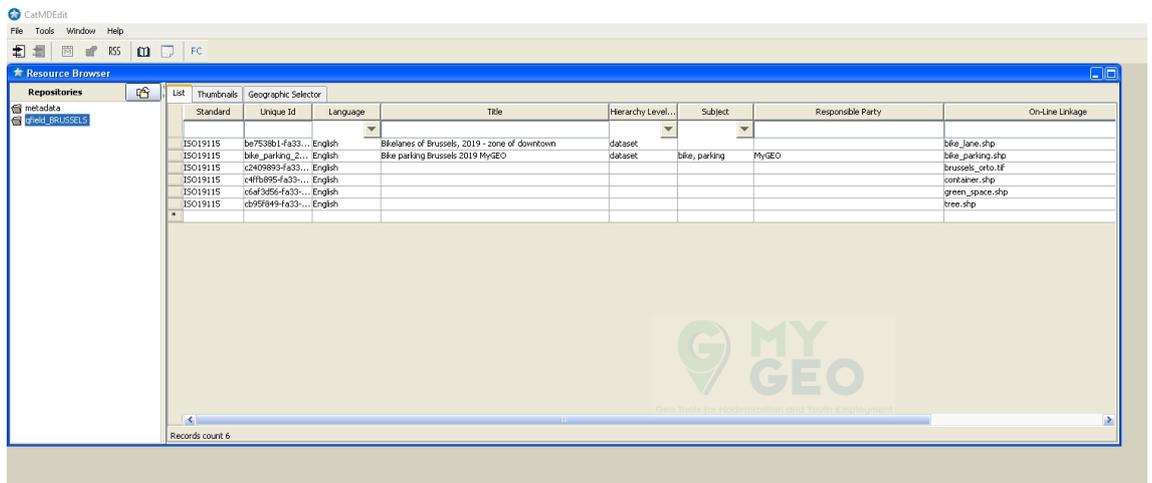
Después de la creación de capas de datos es importante crear metadatos que describan el nuevo producto.

### PARA APRENDER MÁS....

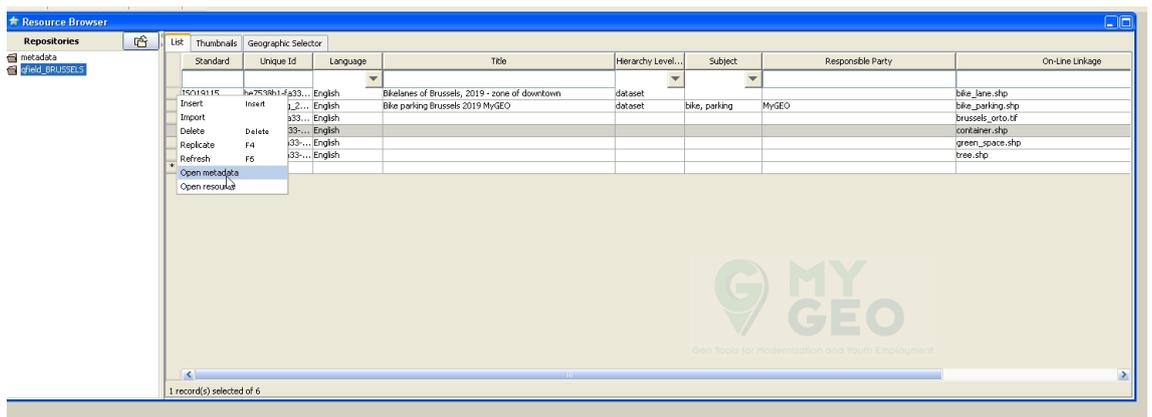
Qué son los metadatos? (Pista: es todo sobre los datos) - <https://gisgeography.com/gis-metadata/>

Metadatos y SIG- <https://www.esri.com/content/dam/esrisites/sitecore-archive/Files/Pdfs/library/whitepapers/pdfs/metadata-and-gis.pdf>

Para esta tarea deberías usar el software CatMDEdit



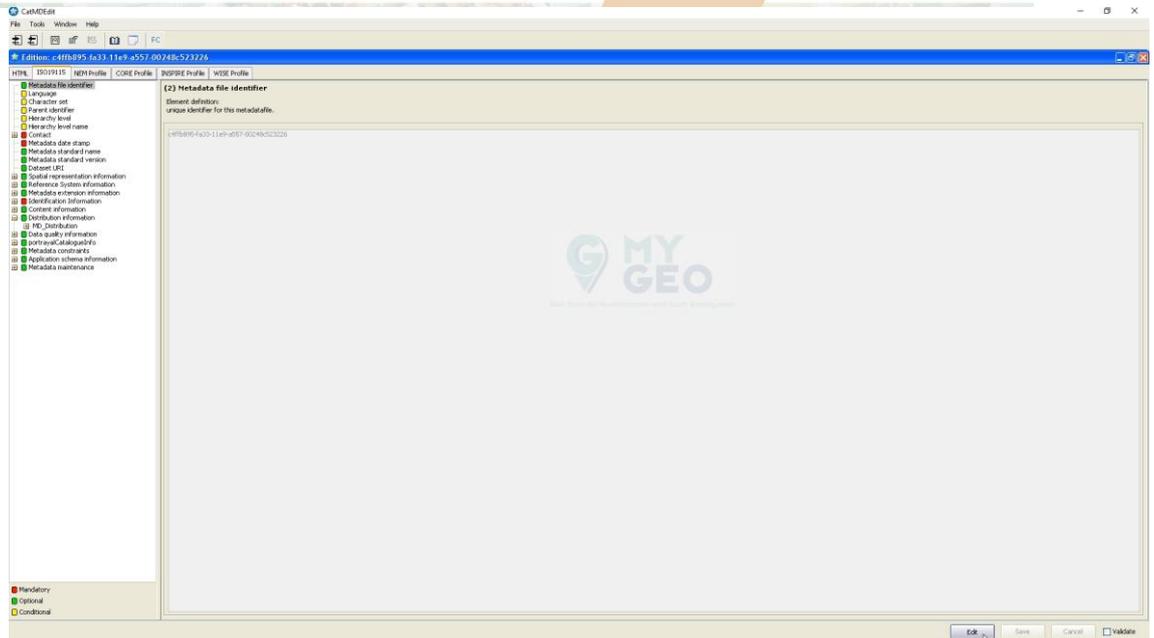
En el buscador de recursos importa un nuevo repositorio



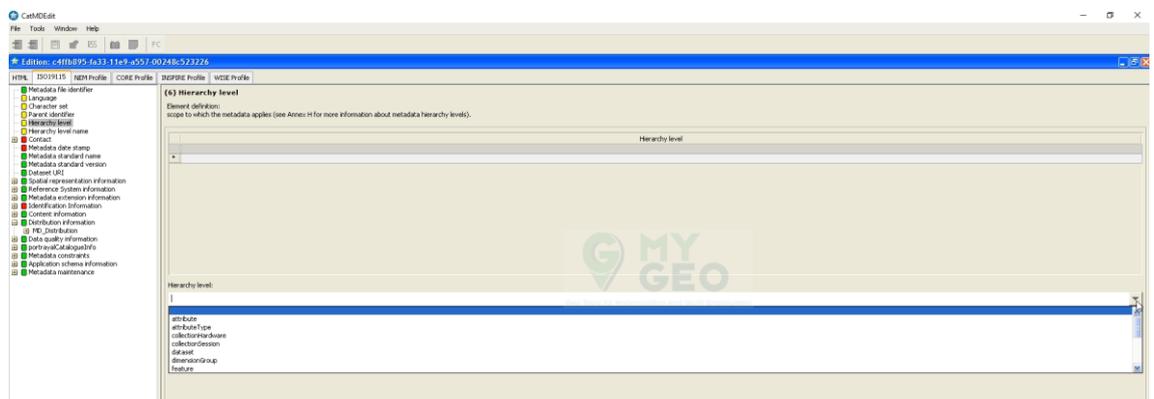
Abre el formulario de metadatos y selecciona ISO 19115



## Module 2 - Task 5 INFORMATION PROCESSING



Comienza a editar con el botón Editar y empieza a introducir la siguiente información: “metadata file: identifier”.



Jerarquía es “dataset”





## Module 2 - Task 5 INFORMATION PROCESSING

CatMDEdit

File Tools Window Help

Edition: c4ffb895-fa33-11e9-a557-00248c523226

HTML ISO19115 NEM Profile CORE Profile INSPIRE Profile WISE Profile

- Metadata file identifier
- Language
- Character set
- Parent identifier
- Hierarchy level
- Hierarchy level name
- Contact
  - CI\_ResponsibleParty
    - Individual name
    - Organisation name
    - Position name
    - Contact information
    - Role
- Metadata date stamp
- Metadata standard name
- Metadata standard version
- Dataset URI
- Spatial representation information
- Reference System information
- Metadata extension information
- Identification Information
- Content information
- Distribution information
- Data quality information
- portrayalCatalogueInfo
- Metadata constraints
- Application schema information
- Metadata maintenance

**(374.0) Contact.CI\_ResponsibleParty**

Element definition:  
identification of, and means of communication with, person(s) and organizations associated with the dataset.

Elements:

- [Individual name](#)
- [Organisation name](#)
- [Position name](#)
- [Contact information](#)
- [Role](#)

En la información de contacto, incluye tu nombre y rol como punto de contacto. También, rellena los metadatos de la fecha.

Edition: c4ffb895-fa33-11e9-a557-00248c523226

HTML ISO19115 NEM Profile CORE Profile INSPIRE Profile WISE Profile

- Metadata file identifier
- Language
- Character set
- Parent identifier
- Hierarchy level
- Hierarchy level name
- Contact
  - CI\_ResponsibleParty
    - Individual name
    - Organisation name
    - Position name
    - Contact information
    - Role
- Metadata date stamp
- Metadata standard name
- Metadata standard version
- Dataset URI
- Spatial representation information
- Reference System information
- Metadata extension information
- Identification Information
- Content information
- Distribution information
- Data quality information
- portrayalCatalogueInfo
- Metadata constraints
  - MD\_Constraints
- Application schema information
- Metadata maintenance

**(203) Metadata constraints**

Element definition:  
provides restrictions on the accessed use of metadata.

Values	Type
MD_Constraints	

Type

- MD\_Constraints
- MD\_Constraints
- MD\_SecurityConstraints
- MD\_SecurityConstraints

En “metadata constraint” selecciona “security constraint” con clasificación “unclassified”



★ Edition: c4ffb895-fa33-11e9-a557-00248c523226

HTML ISO19115 NEM Profile CORE Profile INSPIRE Profile WISE Profile

- Metadata file identifier
- Language
- Character set
- Parent identifier
- Hierarchy level
- Hierarchy level name
- Contact
  - Metadata date stamp
  - Metadata standard name
  - Metadata standard version
  - Dataset URI
- Spatial representation information
- Reference System information
- Metadata extension information
- Identification Information
  - MD\_DataIdentification
    - Citation
      - CI\_Citation
        - Abstract
        - Purpose
        - Credit
        - Status
        - Point of contact
        - Resource maintenance
        - Graphic overview
        - Resource format
        - Descriptive keywords
        - Resource specific usage
        - Resource constraints
        - Aggregation Information
        - Spatial representation type
        - Spatial resolution
        - Language
        - Character set
        - Topic category
        - Environment description
        - Extent
        - Supplemental information
  - Content information
  - Distribution information
  - Data quality information
  - portrayalCatalogueInfo
  - Metadata constraints
  - Application schema information
  - Metadata maintenance

(24) Identification Information.MD\_DataIdentification.Citation

Element definition:  
citation data for the resource(s).

Elements:

- Title
- Alternate title
- Date
- Edition
- Edition date
- Identifier
- Cited responsible party
- Presentation form
- Series
- Other citation details
- Collective Title
- ISBN
- ISSN



En la información de identificación rellena el título, fecha, resumen y lengua

★ Edition: c4ffb895-fa33-11e9-a557-00248c523226

HTML ISO19115 NEM Profile CORE Profile INSPIRE Profile WISE Profile

- Metadata file identifier
- Language
- Character set
- Parent identifier
- Hierarchy level
- Hierarchy level name
- Contact
  - Metadata date stamp
  - Metadata standard name
  - Metadata standard version
  - Dataset URI
- Spatial representation information
- Reference System information
- Metadata extension information
- Identification Information
  - MD\_DataIdentification
    - Citation
      - CI\_Citation
        - Title
        - Alternate title
        - Date
        - CI\_Name
        - Date Type
        - Edition
        - Edition date
        - Identifier
        - Cited responsible party
        - Presentation form
        - Series
        - Other citation details
        - Collective Title
        - ISBN
        - ISSN
        - Abstract
        - Purpose
        - Credit
        - Status
        - Point of contact
        - Resource maintenance
        - Graphic overview
        - Resource format
        - Descriptive keywords
        - Resource specific usage
        - Resource constraints
        - Aggregation Information
        - Spatial representation type
        - Spatial resolution
        - Language
        - Character set
        - Topic category
        - Environment description
        - Extent
        - Supplemental information
        - Content information

(348) Identification Information.MD\_DataIdentification.Citation.CI\_Citation.Presentation form

Element definition:  
media in which the resource is represented.

Presentation form

Presentation form:

- documentDigital
- documentMarketing
- imageDigital
- imageMarketing
- mapDigital
- mediaCopy
- modelDigital

También en el formulario selecciona “MapDigital”



## Module 2 - Task 5

# INFORMATION PROCESSING

La frecuencia de mantenimiento es irregular.

Rellena los “keywords”

Es importante seleccionar el tipo de archivos, incluyendo la versión en la distribución de la información.



## Module 2 - Task 5

# INFORMATION PROCESSING



Edition: c4ffb895-fa33-11e9-a557-00248c523226

HTML ISO19115 NEM Profile CORE Profile INSPIRE Profile WISE Profile

- Metadata file identifier
- Language
- Character set
- Parent identifier
- Hierarchy level
- Hierarchy level name
- Contact
- Metadata date stamp
- Metadata standard name
- Metadata standard version
- Dataset URI
- Spatial representation information
- Reference System information
  - MD\_ReferenceSystem
    - Reference system identifier
      - RS\_Identifier
        - Authority
          - Code**
          - Code space
          - Version
- Metadata extension information
- Identification Information
- Content information
- Distribution information
- Data quality information
- portrayalCatalogueInfo
- Metadata constraints
- Application schema information
- Metadata maintenance

**(207) Reference System information.MD\_ReferenceSystem.Reference system identifier.RS\_Identifier.Code**

Element definition:  
alphanumeric value identifying an instance in the namespace.

31370

Anota el Código del sistema de referencia.

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HTML ISO19115 NEM Profile CORE Profile INSPIRE Profile WISE Profile

- Metadata file identifier
- Language
- Character set
- Parent identifier
- Hierarchy level
- Hierarchy level name
- Contact
- Metadata date stamp
- Metadata standard name
- Metadata standard version
- Dataset URI
- Spatial representation information
- Reference System information
  - MD\_ReferenceSystem
    - Reference system identifier
      - RS\_Identifier
        - Authority
          - Code
          - Code space
          - Version
  - Metadata extension information
  - Identification Information
  - Content information
  - Distribution information
  - Data quality information
  - portrayalCatalogueInfo
  - Metadata constraints
  - Application schema information
  - Metadata maintenance

**(208.2) Reference System information.MD\_ReferenceSystem.Reference system identifier.RS\_Identifier.Version**

Element definition:  
version identifier for the namespace.

Validate

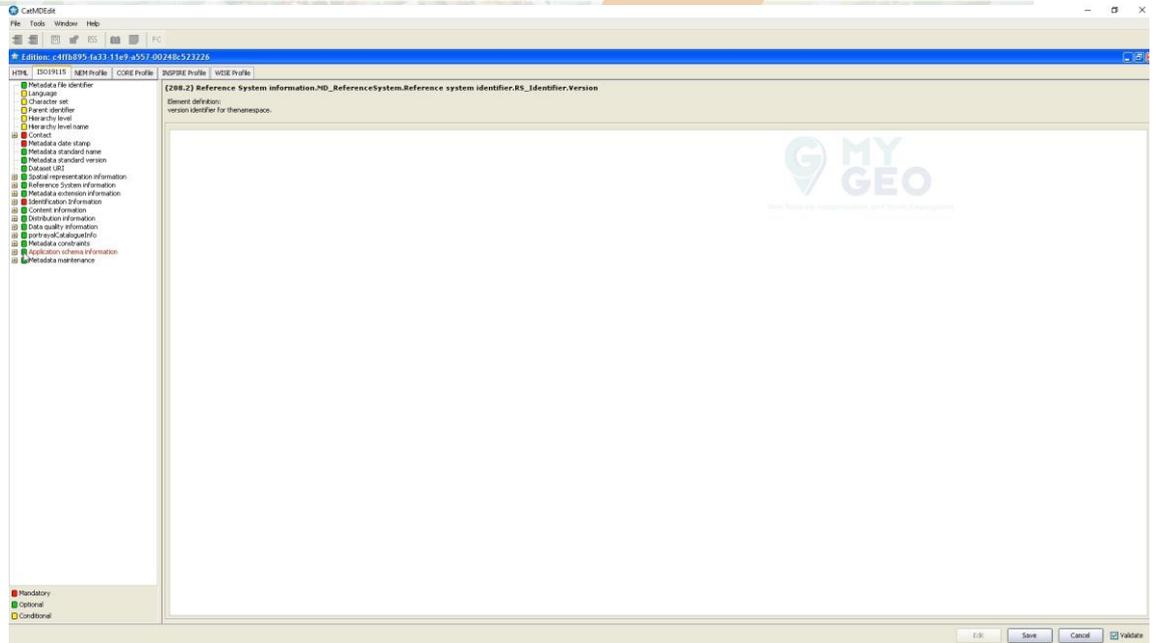
Validating metadata. Please, wait...

OK Save Cancel Validate

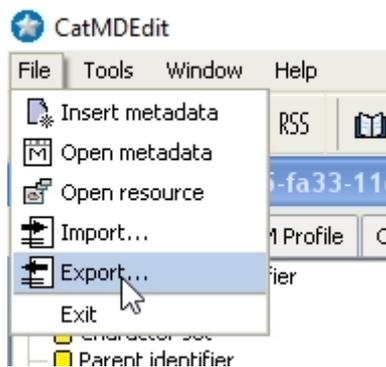
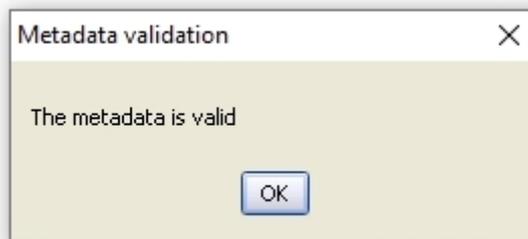
Haz click en validar.



Module 2 - Task 5  
**INFORMATION  
 PROCESSING**



Si los metadatos no son válidos, corrige los errores o rellena la información que falta y validalo de nuevo.



Exporta los metadatos como archivos XML y HTML

Export

Metadata to export:

Selected metadata	Standard	Output file name
Containers Brussels 2019	ISO 19115	Containers_2019

Output directory:  Browse...

Default format  
 User selection

Standard: ISO 19115  
Format: ISO 19115 XML

Export Close

Export

Metadata to export:

Selected metadata	Standard	Output file name
Containers Brussels 2019	ISO 19115	Containers_2019

Output directory: JRRO\_GEOI\_MY\_GEO\_MOOC\modulo\_2\meta\ Browse...

Default format  
 User selection

Standard: ISO 19115  
Format: ISO HTML (en)

Export Close

o

**Containers Brussels 2019**

**Index**

- [Metadata file identifier](#)
- [Language](#)
- [Hierarchy level](#)
- [Contact](#)
- [Metadata date stamp](#)
- [Metadata standard name](#)
- [Metadata standard version](#)
- [Spatial representation information](#)
- [Reference system information](#)
- [Identification information](#)
- [Content information](#)
- [Distribution information](#)
- [Metadata constraints](#)
- [Application schema information](#)

---

**Metadata file identifier**  
Containers\_2019  
[Back to index](#)

**Language**  
gmd:LanguageCode: English  
[Back to index](#)

**Hierarchy level**  
Dataset  
[Back to index](#)

**Contact**  
**Individual name**  
Ondrej  
**Role**  
Point of contact

**Metadata date stamp**  
2019-10-23  
[Back to index](#)

**Metadata standard name**  
ISO 19115  
[Back to index](#)

**Metadata standard version**  
ISO 19115:2003/cor 1:2006  
[Back to index](#)

**Spatial representation information**  
Geometric objects  
Geometric object type

Archivo HTML en navegador web



Module 2 - Task 5

## INFORMATION PROCESSING



### PARA APRENDER MÁS....

<https://dublincore.org/>

<https://www.iso.org/standard/53798.html>

<https://geonetwork->

[opensource.org/manuals/trunk/eng/users/annexes/standards/iso19115-3.2018.html](https://geonetwork-opensource.org/manuals/trunk/eng/users/annexes/standards/iso19115-3.2018.html)

