# 510 Data Catalog Manual





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### 510 Data Catalog Introduction

Welcome to the 510 Data Catalog Manual! Here you will be able to learn about how to use the data catalog i.e. to add datasets in the catalog and to find data in the catalog.

The 510 Data Catalog provides an overview of all (important) datasets in use within 510. It enables the 510 team members to share information about the data they are using with each other and other stakeholders.

You can add the data after logging in. When you search for data in the data catalog you can see information about the data and can also see where it sits in the database or the datalake.

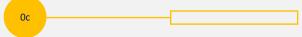
**Intended users:** 510 staff, consultants, volunteers (anyone making use of technical architecture, making pipelines or storing data in the 510 cloud).

#### **Features of the Application:**

- The user can access certain data without logging in
- The user can access all the data after logging in
- The user can add data to the catalog after logging in.

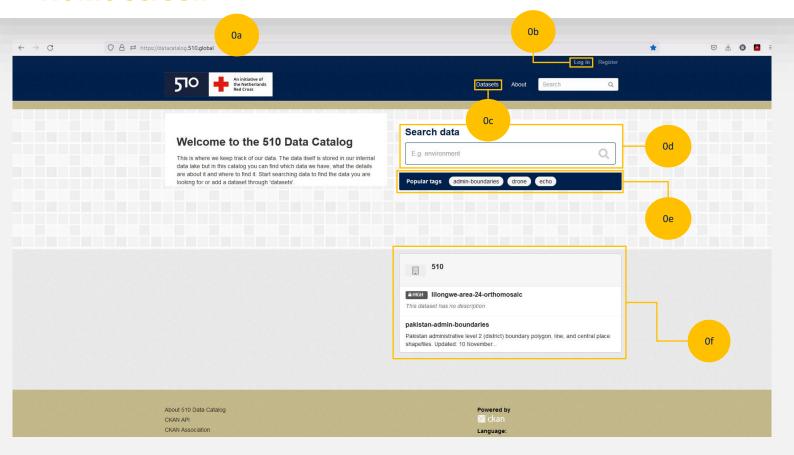
#### Legend:

Yellow circles with a line and box will indicate different features, which will be explained in text with the same yellow bubble and number.



#### How to use the 510 Data Catalog

#### Home screen



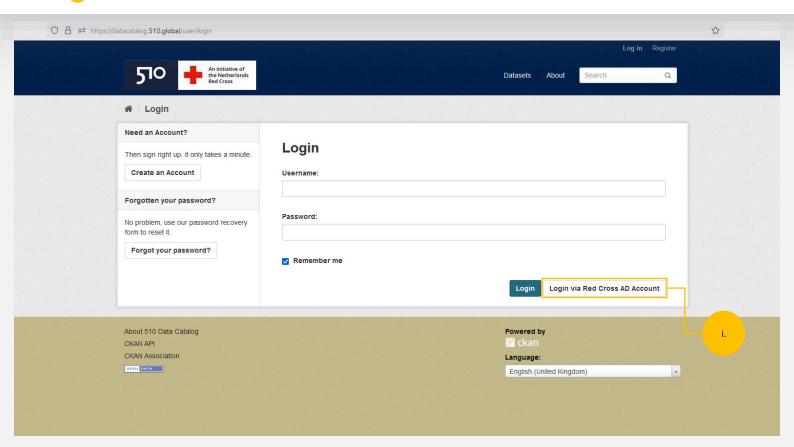
#### O. Home:

- a. The URL of the Data Catalog is https://datacatalog.510.global
- b. Click to log in to your account.
- c. Click to access datasets.
- d. Type in text about the dataset you are looking for and click enter to search.
- e. The most common tags for the datasets can be found here.
- f. Shows you recent datasets.

You use this screen to login to 510 Data Catalog or look for a dataset.

#### **How to use the 510 Data Catalog**

#### Log in screen



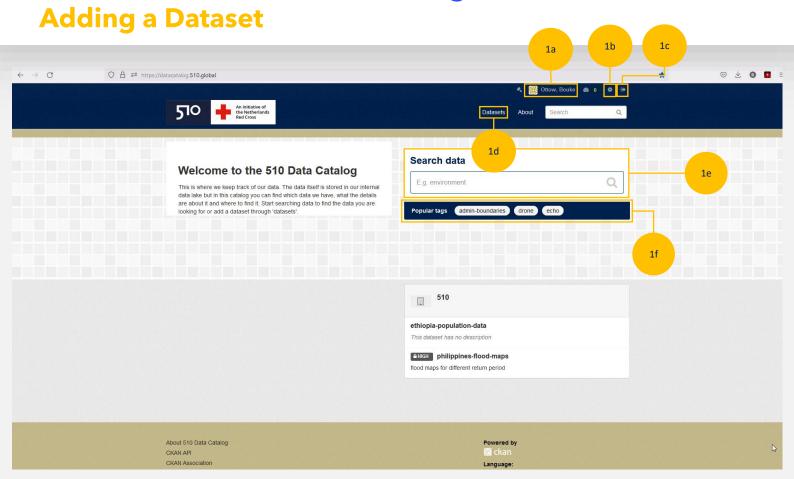
Ob. Log in:

i. Click here to log in using the Red Cross AD Account.

WHEN DO YOU USE THIS SCREEN
You use this screen to login to 510 Data Catalog.



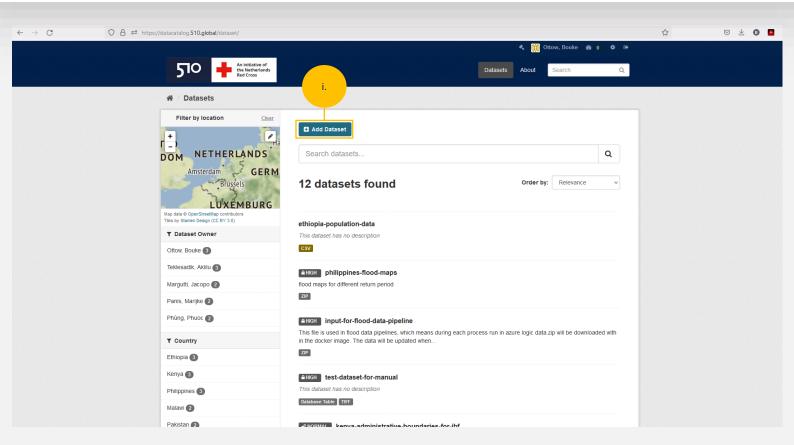
**How to use the 510 Data Catalog** 



- 1. Home:
- a. Click here to see information about your account and datasets.
- b. Click here to change account details.
- c. Click here to log out.
- d. Click here for an overview of all the datasets.
- e. Type here to directly search for a dataset.
- f. Click a tag to see all datasets with that tag.

#### **How to use the 510 Data Catalog**

#### **Adding a Dataset**



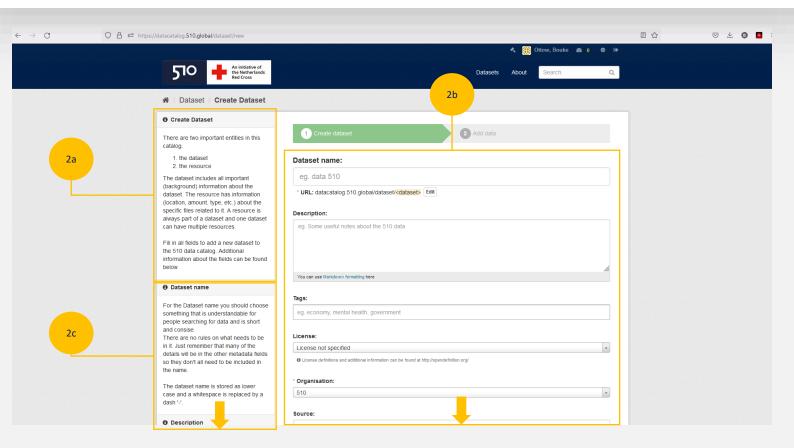
1d. Datasets:

i. Click here to add a new dataset.

You use this when going to the datasets page to add a new dataset.

#### How to use the 510 Data Catalog

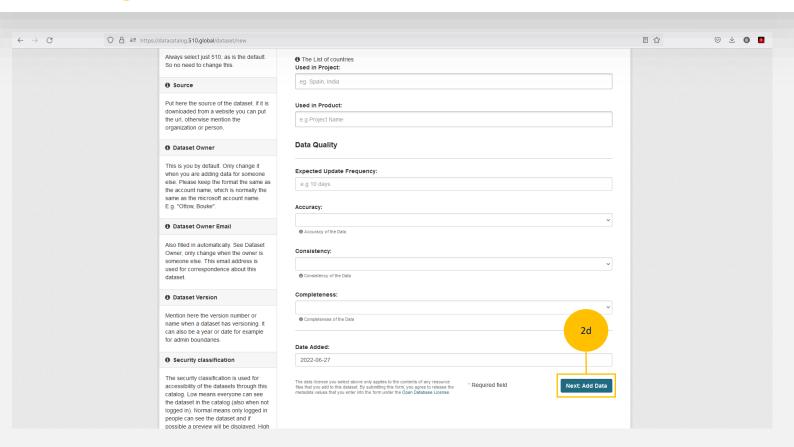
#### **Adding a Dataset**



#### 2. Create Dataset:

- a. Read this to understand how a dataset is built up.
- b. Fill in all the metadata fields to describe the dataset and...
- c. look up information about the field to understand what is expected of you.

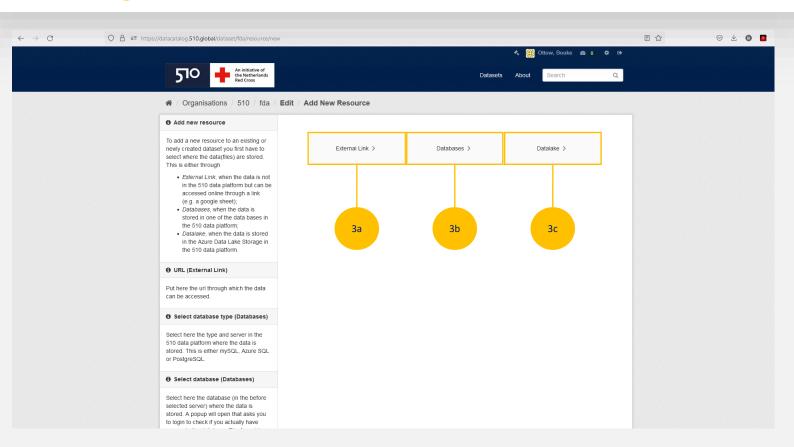
#### **How to use the 510 Data Catalog**



- 2. Create Dataset:
  - d. When all the fields are filled in click on 'Next: Add Data'.

#### **How to use the 510 Data Catalog**

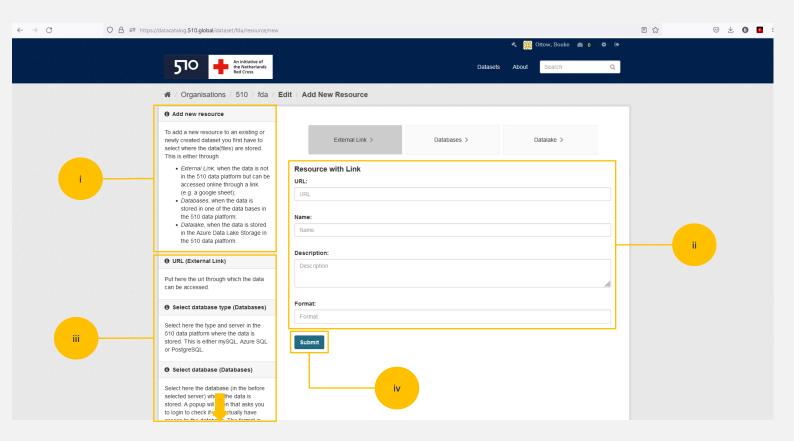
#### **Adding a Dataset**



#### 3. Create Dataset:

- a. If the data is stored externally and accessible through a link click 'External Link'.
- b. If the data is stored on one of the 510 database servers click 'Databases'.
- c. If the data is stored in the 510 Azure Datalake Storage click 'Datalake'.

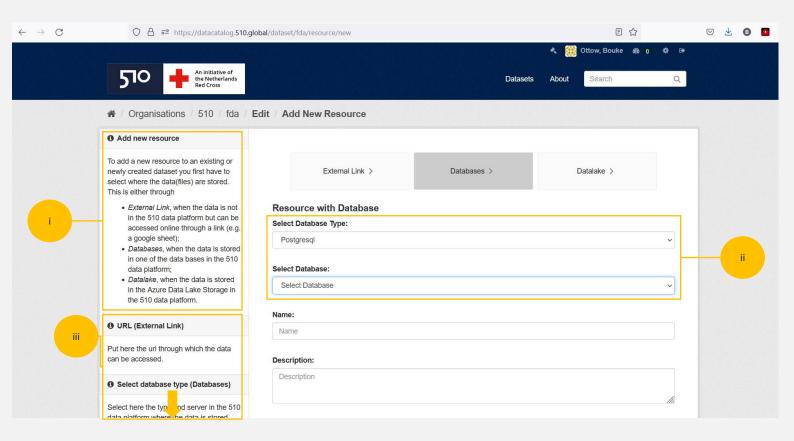
#### **How to use the 510 Data Catalog**



- 3a. External Link:
  - Read general information about resources.
  - ii. Fill in the information about the External Link.
  - iii. Look up advice how to fill in the fields.
  - iv. When everything is filled in click on 'Submit'.

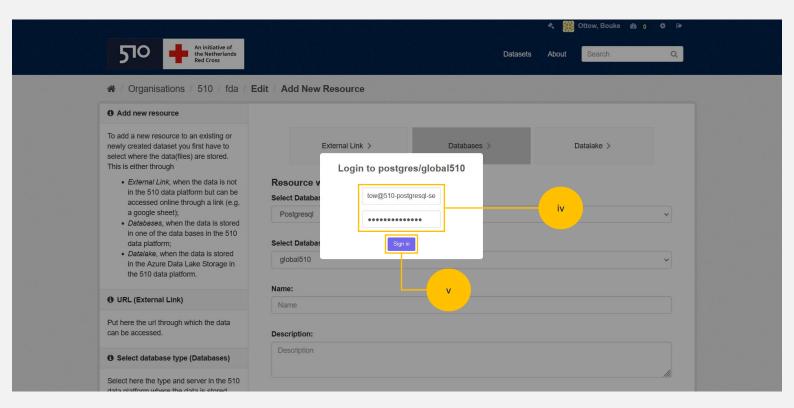


#### **How to use the 510 Data Catalog**



- 3b. Database:
  - Read general information about resources.
  - ii. Select the type of the database where your dataset is stored and select the name of the database.
  - iii. Look up advice how to fill in the fields.

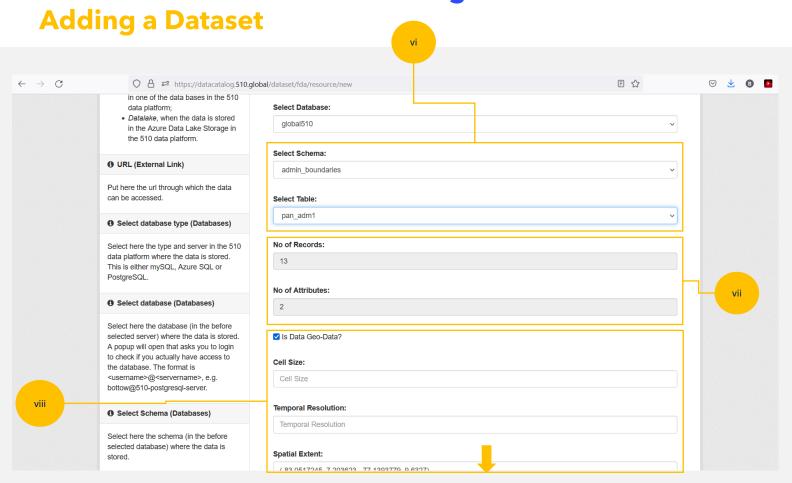
#### **How to use the 510 Data Catalog**



- 3b. Database:
  - iv. Fill in your login to the database.
- v. Click 'Sign in'. It will show the below pop-up if you have indeed access with that login.

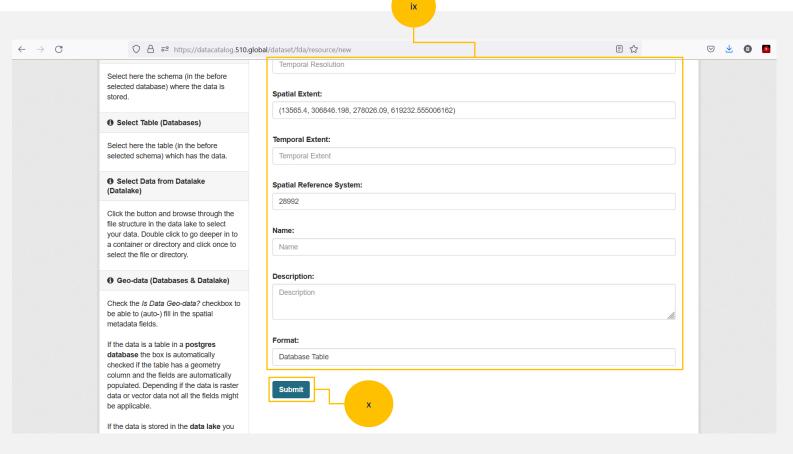


**How to use the 510 Data Catalog** 



- 3b. Database:
  - vi. Select Schema and then the table of the dataset.
  - vii. The number of records and attributes will be filled in automatically.
  - viii. It will also recognize if the data is geo-data and will then fill in cell size (if it is raster) and spatial extent.

#### How to use the 510 Data Catalog

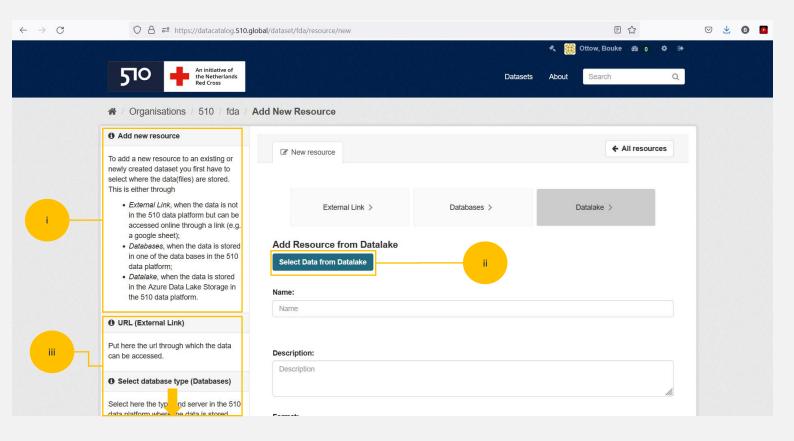


- 3b. Database:
  - ix. Fill in temporal resolution and extent and the name and description. Format is always Database Table.
  - x. And finally click Submit.

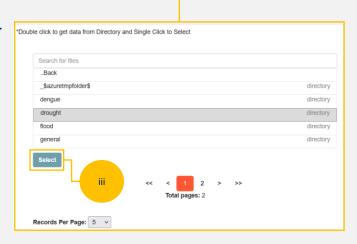


#### **How to use the 510 Data Catalog**

#### **Adding a Dataset**



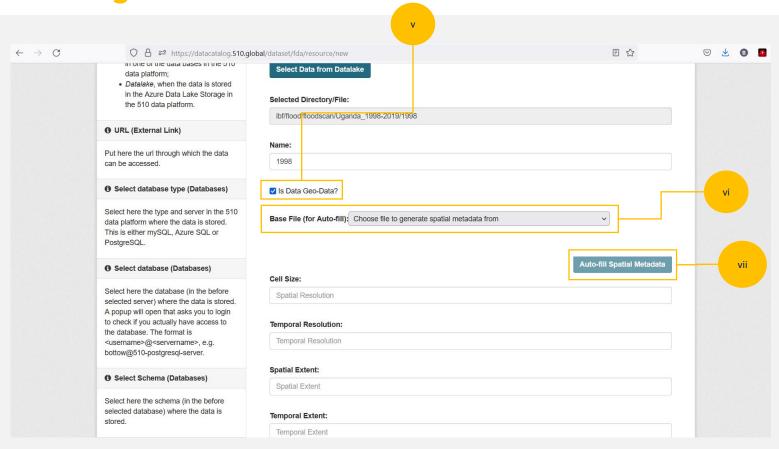
- 3c. Datalake:
- Read general information about resources.
- ii. Click select Data from Datalake and browse the datalake for your dataset. Doubleclick on a container or folder to open it, single select a file or folder to select it.
- iii. Click on Select to select the file or folder.
- iv. Look up advice how to fill in the fields.



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#### **How to use the 510 Data Catalog**

**Adding a Dataset** 



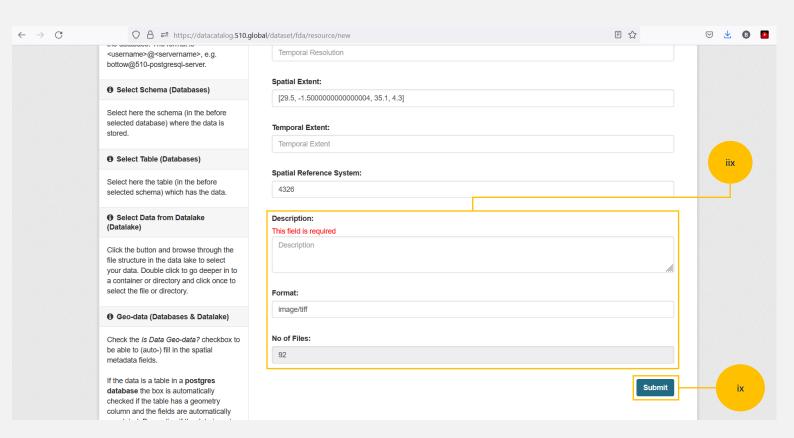
- 3c. Datalake:
- v. Check the check-box next to 'Is Data Geo-Data?' only if it is geo-data.
- vi. The application can then automatically extract the details, select here which file.
- vii. Click the button to confirm. This is limited to datasets of 100 Mb and can take some time. Confirm by clicking Continue.

Auto-fill spatial metadata?

To auto-fill, we will download the file to our servers. This process may take time. Please reconsider if the file is

#### **How to use the 510 Data Catalog**

#### **Adding a Dataset**



3c. Datalake:



Fill in the description. Format will be automatically extracted if possible, otherwise fill this in as well.

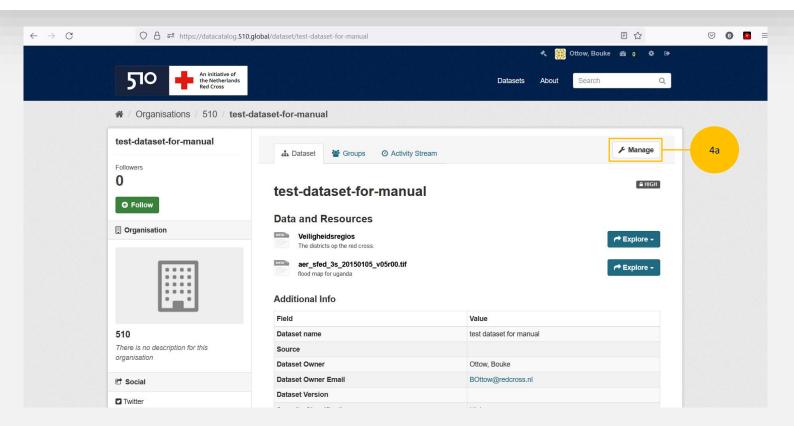


And finally click Submit.



#### **How to use the 510 Data Catalog**

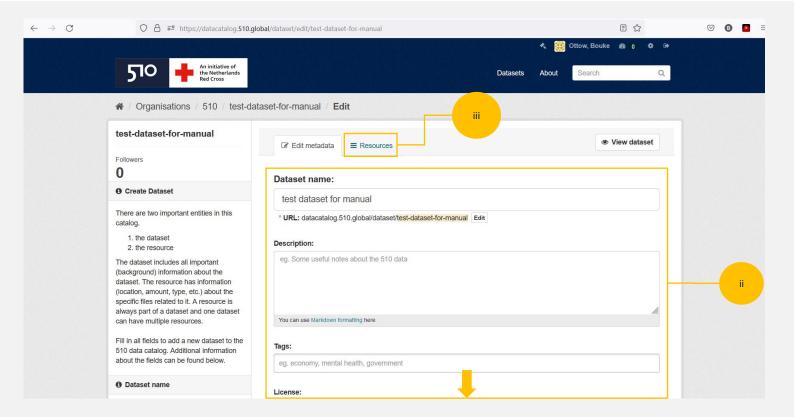
#### **Edit a Dataset**



- 4. Manage Dataset:
  - a. Find the dataset you want to edit (see page 23 and further) and click 'Manage'

#### **How to use the 510 Data Catalog**

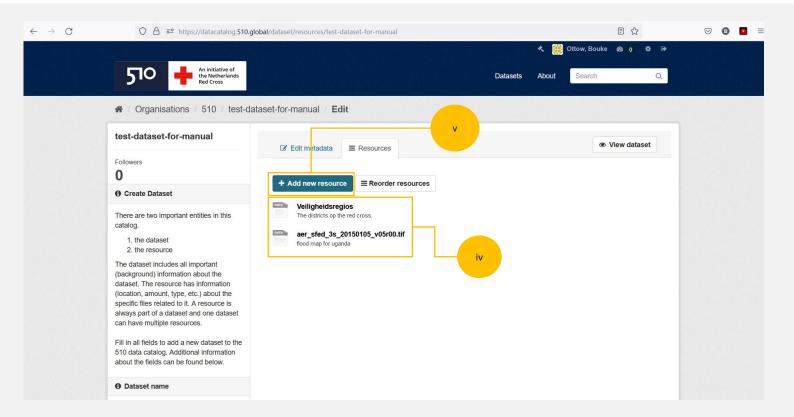
#### **Edit a Dataset**



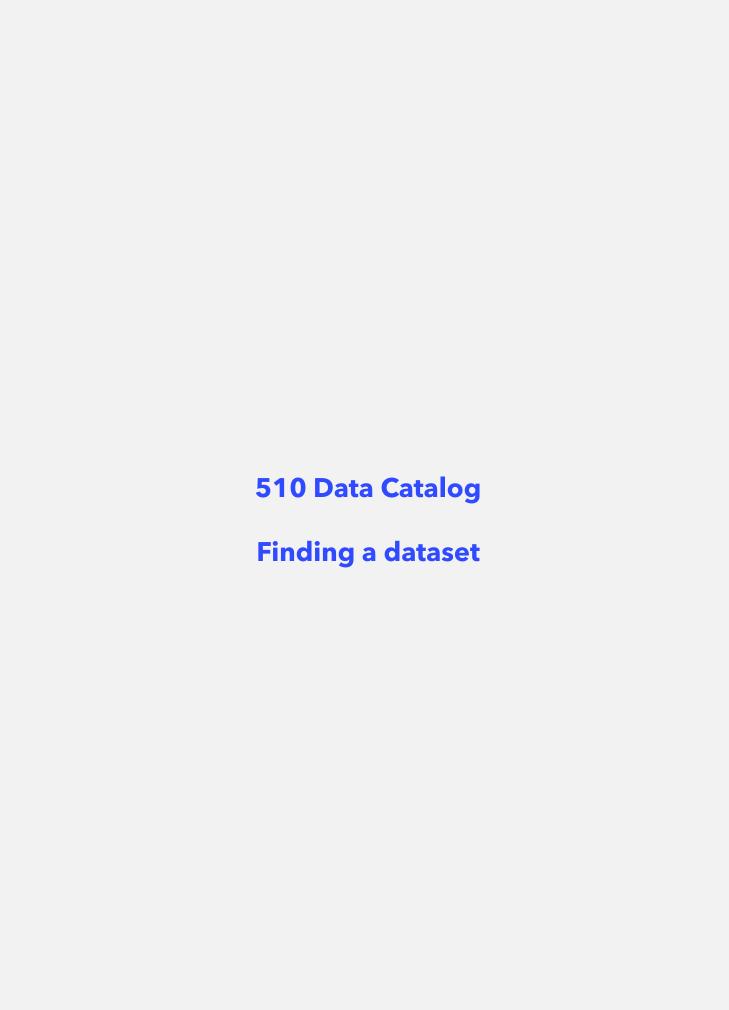
- 4a. Manage Dataset:
  - ii. Edit here any of the metadata fields of the dataset.
  - iii. Click 'Resources' to add or edit a resource.

#### **How to use the 510 Data Catalog**

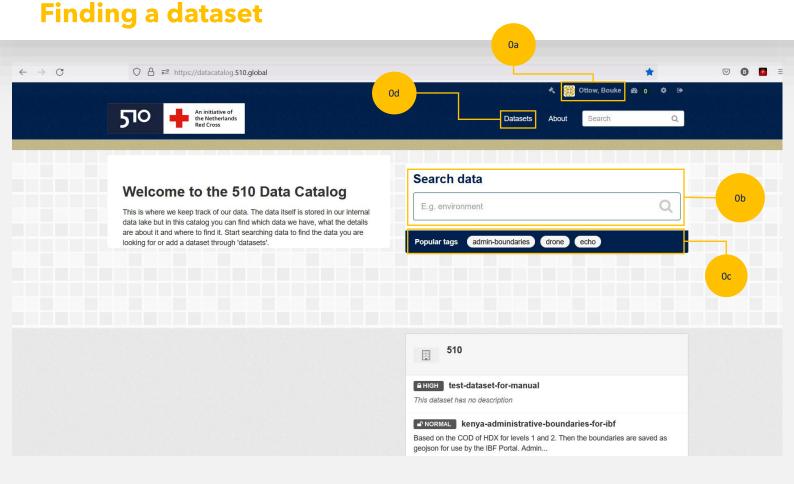
#### **Edit a Dataset**



- 4a. Manage Dataset:
  - iv. Click on a resource to edit the metadata of the resource.
  - v. Click 'Add new resource' to add another resource. See page 11 and further for help on selecting a resource.



#### **How to use the 510 Data Catalog**

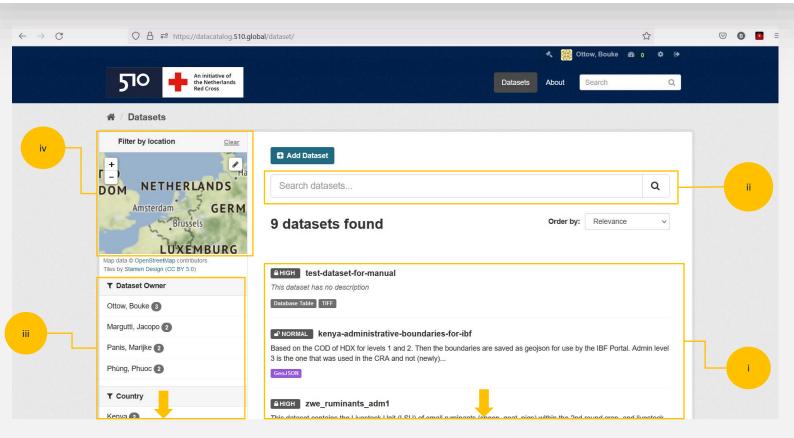


O. Home:

- a. Make sure you are logged in (see page 4 and 5).
- b. You can directly type in the search box to start searching for keywords.
- c. You can also directly click on a popular tag to filter datasets on a tag.
- d. Or you go to Datasets first for an overview of all the datasets (preferred route to start).

#### **How to use the 510 Data Catalog**

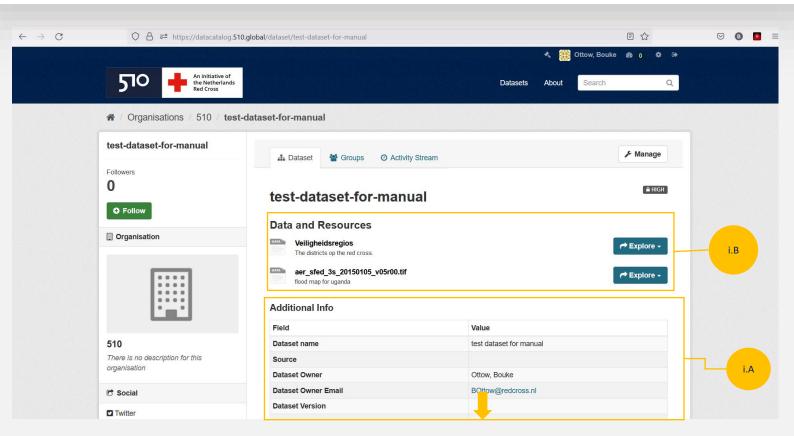
#### Finding a dataset



- Od. Datasets:
- You can select a dataset directly from the list.
- ii. You can search for keywords to make the list of datasets found smaller.
- iii. You can filter the dataset on Dataset Owner, Country, Dataset Quality, Security Classification, Project or Product.
- iv. You can also do a geo search by drawing a rectangle on a map returning all the datasets of which the first geo-data resource has an overlapping extent.

#### How to use the 510 Data Catalog

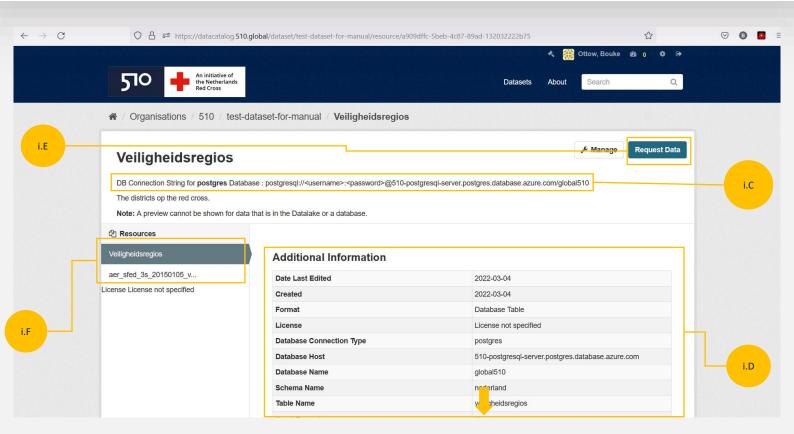
#### Finding a dataset



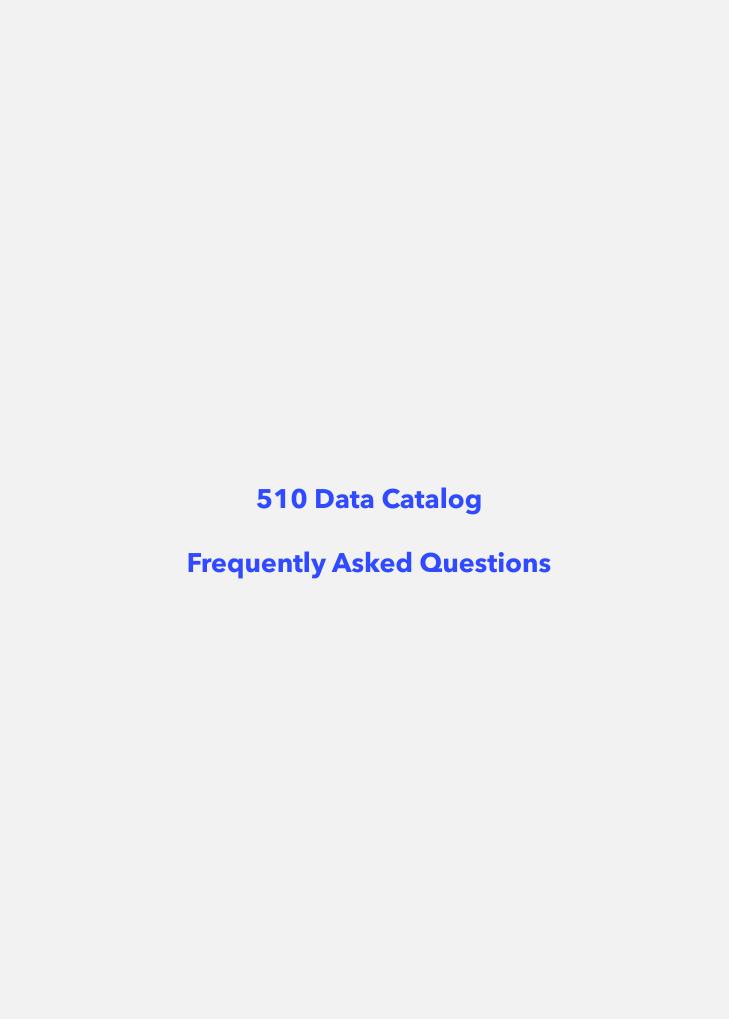
- Od. i Dataset:
- A Here you find the information about the dataset.
- B Here you find the resources attached to the dataset, click on it to find out more.

#### **How to use the 510 Data Catalog**

#### Finding a dataset



- Od. i Dataset:
- C This is the connection string to connect to the dataset through code.
- D Here you find the information about the resource and the location where it is stored.
- E If the resource is stored in a location where you don't have access to you can request access by sending an email to the Dataset Owner. This button starts the email.
- F Here you can browse to the other resources linked to this dataset.



# 510 Data Catalog How to use the 510 Data Catalog Frequently Asked Questions

Questions people ask a lot: