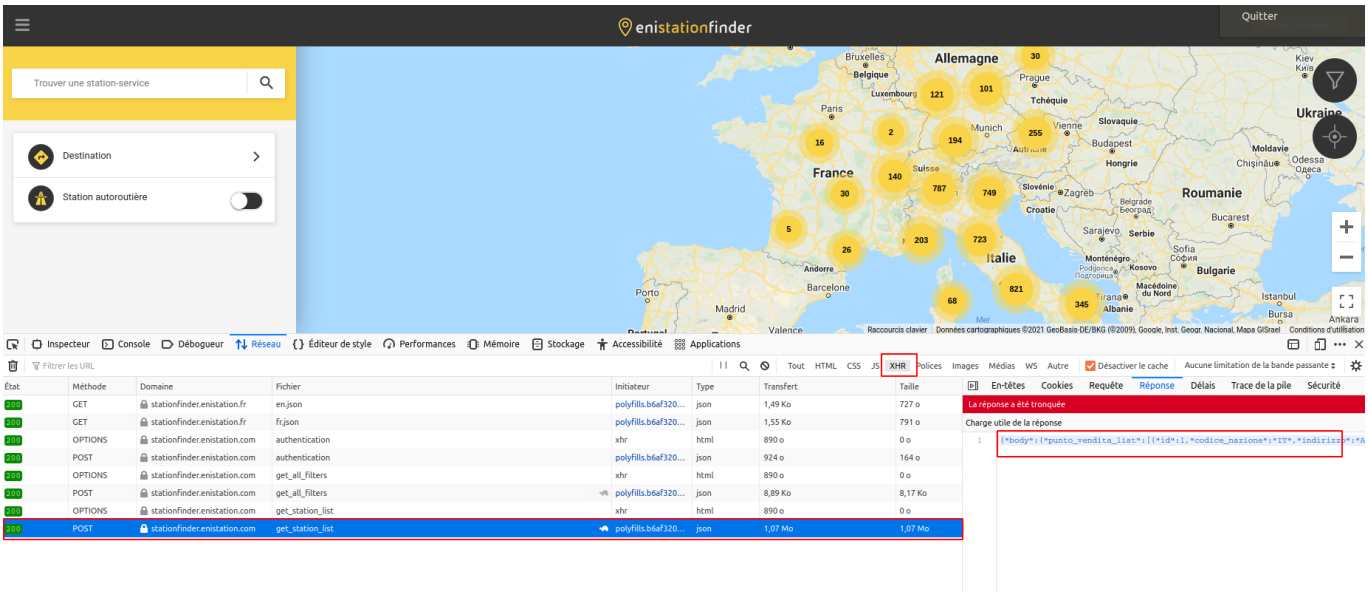
Example TWO - Import some OSINT-obtained json data and map them

Introduction

Using the developer tools of Firefox/Chrome, we extract the list of ENI/AGIP gas stations as a json file, import this in OpenRefine, filter the French ones and export them as a map on umap.

Get the data

- Open firefox (or Chrome) and browse the ENI Station Finder.
- Open the **developer tools/network** (F12 or using the menu) and reload the page (F5).
- Filter by XHR
- Search for the json request **get_station_list**
- Click **once** on the request, and go to response; this should show you a part of the stations list.



- **right click** on the request; select copy > copy as curl. You can now replay this request in a terminal and export it as a json file, by adding `> eni.json` at the end.

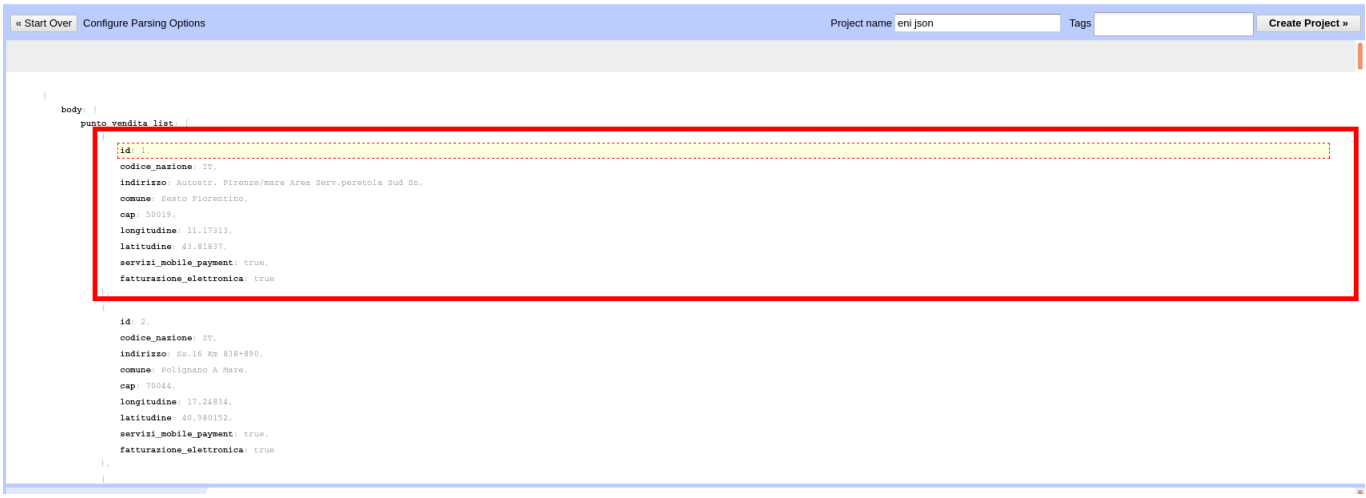
```
curl
'https://stationfinder.enistation.com/enistationfinder_be/public/index.php/
api/get_station_list' -X POST -H 'User-Agent: Mozilla/5.0 (X11; Ubuntu;
Linux x86_64; rv:93.0) Gecko/20100101 Firefox/93.0' -H 'Accept:
application/json, text/plain, */*' -H 'Accept-Language: fr,fr-FR;q=0.8,en-
US;q=0.5,en;q=0.3' --compressed -H 'Content-Type: application/json' -H
'Origin: https://stationfinder.enistation.fr' -H 'DNT: 1' -H 'Connection:
keep-alive' -H 'Referer: https://stationfinder.enistation.fr/' -H 'Sec-
Fetch-Dest: empty' -H 'Sec-Fetch-Mode: cors' -H 'Sec-Fetch-Site: cross-
site' -H 'Pragma: no-cache' -H 'Cache-Control: no-cache' -H 'TE: trailers'
--data-raw '{"credentials":
{"token":"0676d96d8d3ccd46e82694e8cafb2b2152c9c9ba478322109f6663e2b8d576a3"
```

```
,"requestId":1635865741,"device":"sdk"},"body":
{"isFiltered":1,"sorgente":1,"filters":{}}}' > eni.json
```

Import the data in OpenRefine

nota bene : For your convenience a version of this json file is included in this repository.

On the preview screen, move your mouse till the yellow selection completely encloses the 1st record (from id field, to fatturazione_elettronica:true). Then click on it.



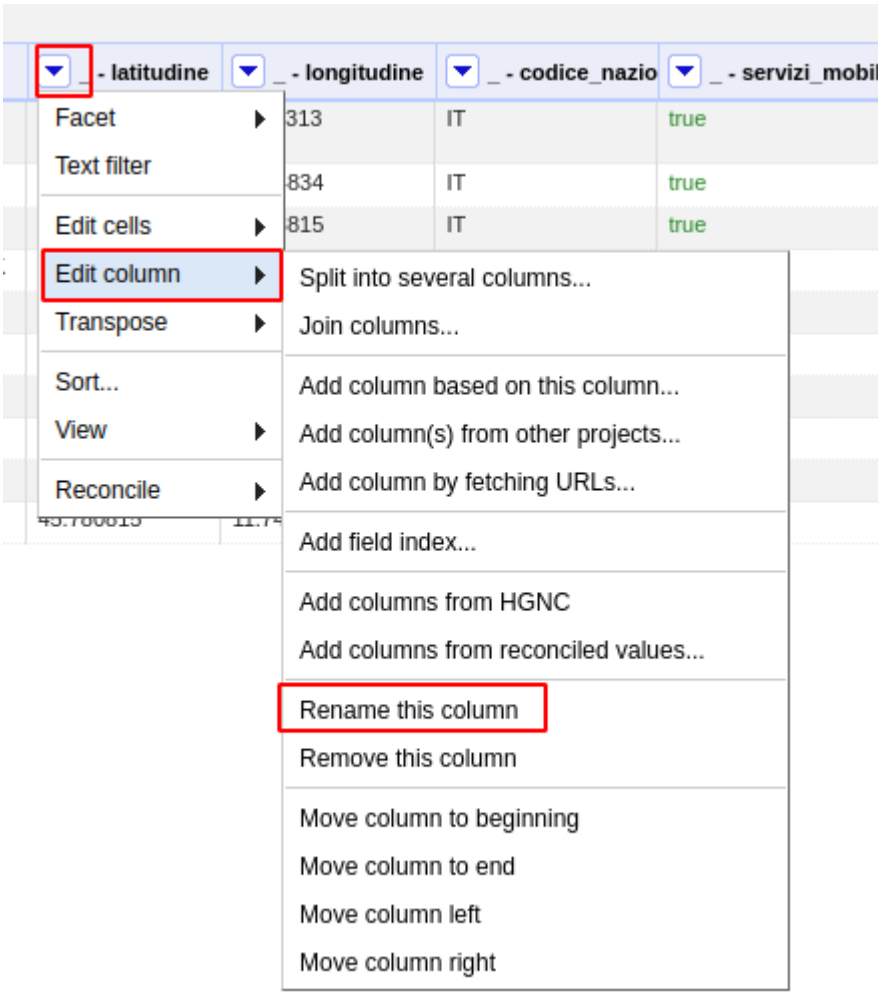
You should get this view :

	_ - id	_ - cap	_ - comune	_ - indirizzo	_ - latitudine	_ - longitudine	_ - codice_nazione	_ - servizi_mobile_payment	_ - fatturazione_elettronica
1.	1	50019	Sesto Fiorentino	Autostr. Firenze/mare Area Serv.peretola Sud Sn	43.81837	11.17313	IT	true	true
2.	2	70044	Polignano A Mare	Ss.16 Km 838+890	40.980152	17.24834	IT	true	true
3.	3	20127	Milano	Stam D'ancona/valtorta	45.50075	9.228815	IT	true	true
4.	4	50058	Signa	Via Pistoiese - Loc. S.angelo A Lecore - S.s. 66 K	43.81316	11.066446	IT	true	true
5.	5	70038	Terlizzi	Strada Provinciale 231 Km 19,800	41.11281	16.54901	IT	true	false
6.	6	46030	Dosolo	Sp 16 Correggioverde	44.931564	10.613708	IT	true	true
7.	7	21030	Mesenzana	Sp 54 Km 20+500	45.956284	8.762074	IT	false	false
8.	8	50132	Firenze	Piazza Donatello Snc	43.777493	11.269005	IT	true	true
9.	9	38070	Comano Terme	Loc.ponte Arche Ss 237 Km.99+779 S.n.c	46.037342	10.875812	IT	true	true
10.	10	36061	Bassano Del Grappa	Via Motton 103	45.780815	11.741053	IT	true	true
11.	11	22030	Orsenigo	S.s Briantea, Km 48+100	45.780968	9.168563	IT	true	true
12.	12	03100	Frosinone	Via Marco Tullio Cicerone 33/35	41.647785	13.343158	IT	true	true
13.	13	33050	Pocenia	Ariis	45.84141	13.09705	IT	false	false
14.	14	27049	Stradella	To/pc Stradella Nord Aut.	45.083668	9.315554	IT	true	true
15.	15	66010	Casacanditella	Ss 263 Cerrone	42.2683	14.1986	IT	true	true
16.	16	31029	Vittorio Veneto	Via S.antonio Da Padova Ss 51	45.96709	12.318058	IT	true	true
17.	17	30030	Pianiga	Loc.mellaredo Via Noalese Sud S.s.	45.457256	11.993365	IT	true	true
18.	18	07021	Arzachena	Porto Cervo	41.12852	9.530739	IT	true	true
19.	19	20070	Fombio	Via Roma/boccaserio	45.138386	9.685001	IT	true	true
20.	20	80121	Napoli	Via Argine, 336	40.84989	14.309388	IT	false	false
21.	21	00141	Roma	Prati Fiscali 46	41.94638	12.52318	IT	true	true
22.	22	25100	Brescia	Via Marconi	45.55488	10.227271	IT	true	true
23.	23	46029	Suzzara	Ss62 Km 162+100	44.995018	10.72794	IT	true	true
24.	24	95011	Calatabiano	C Da Pasteria Ss 114 Km 56+220 Sn	37.809284	15.229948	IT	true	true
25.	25	20066	Melzo	S.p. 13 Km. 15+860	45.493587	9.42167	IT	true	false
26.	27	90125	Palermo	V.le Reg.ne Siciliana Svinc,bonagia	38.11562	13.361376	IT	false	false
27.	28	54033	Carrara	Loc.nazzano Ss-1	44.05017	10.074896	IT	true	true

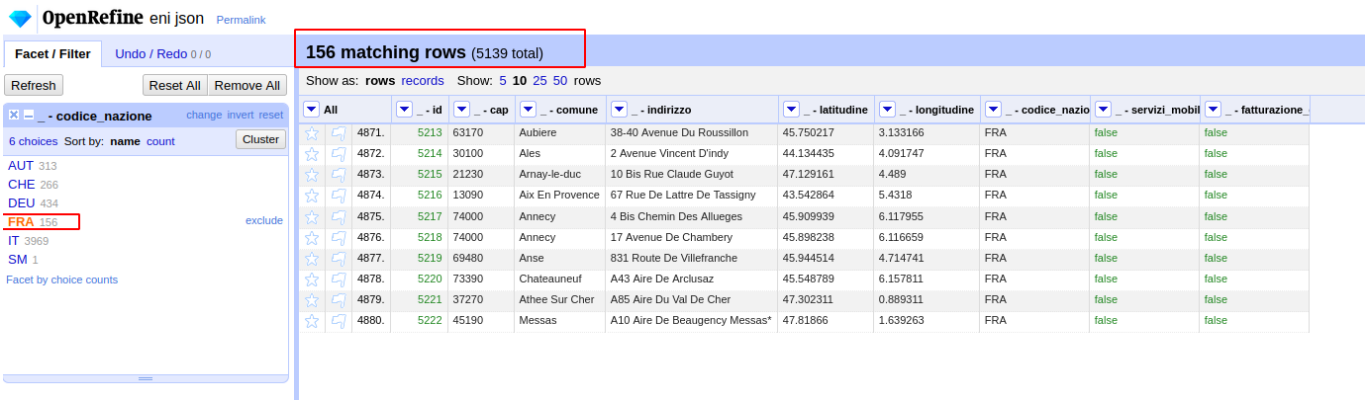
Create the project.

Filter and clean the dataset

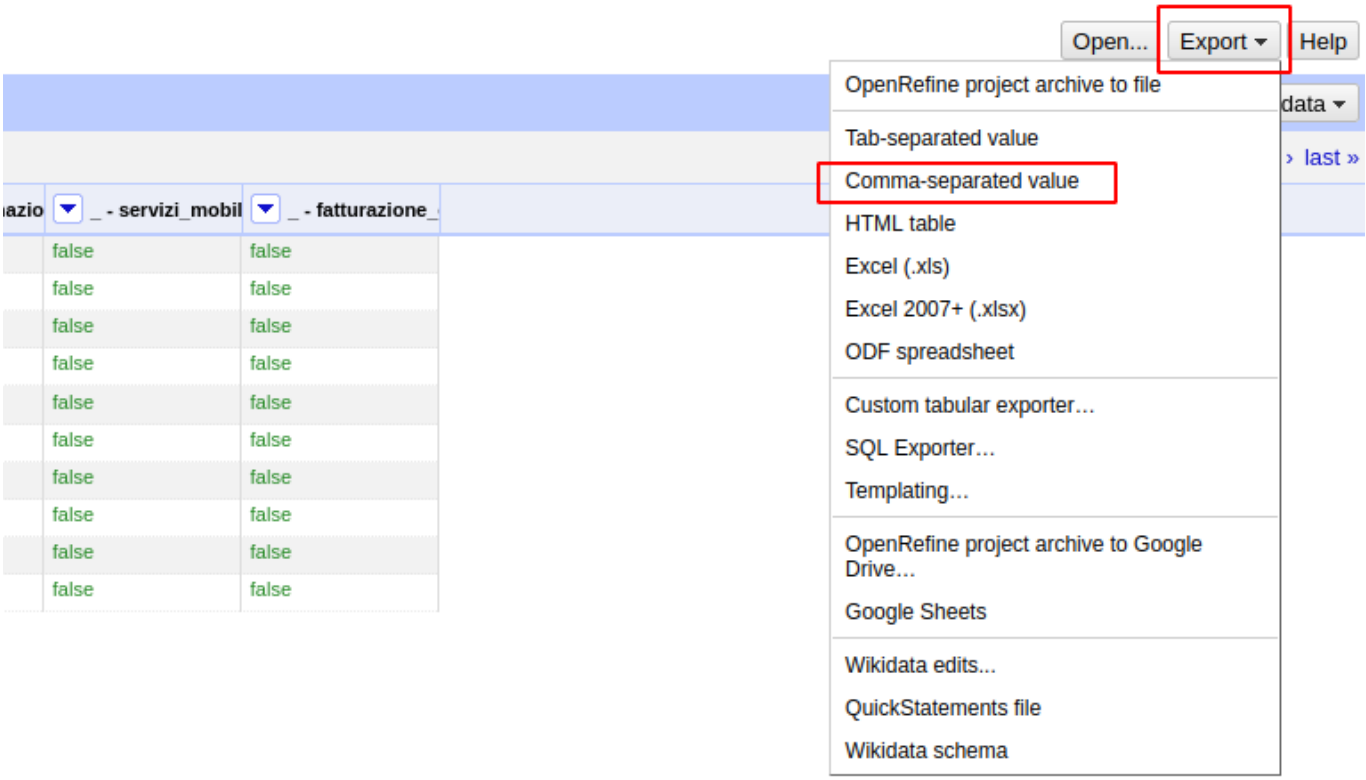
- Rename the column **_ - latitudine** as **lat**, and **_ - longitudine** as **lon**



- Facet the **codice_nazione** column by **facet** and select **FRA** on the left

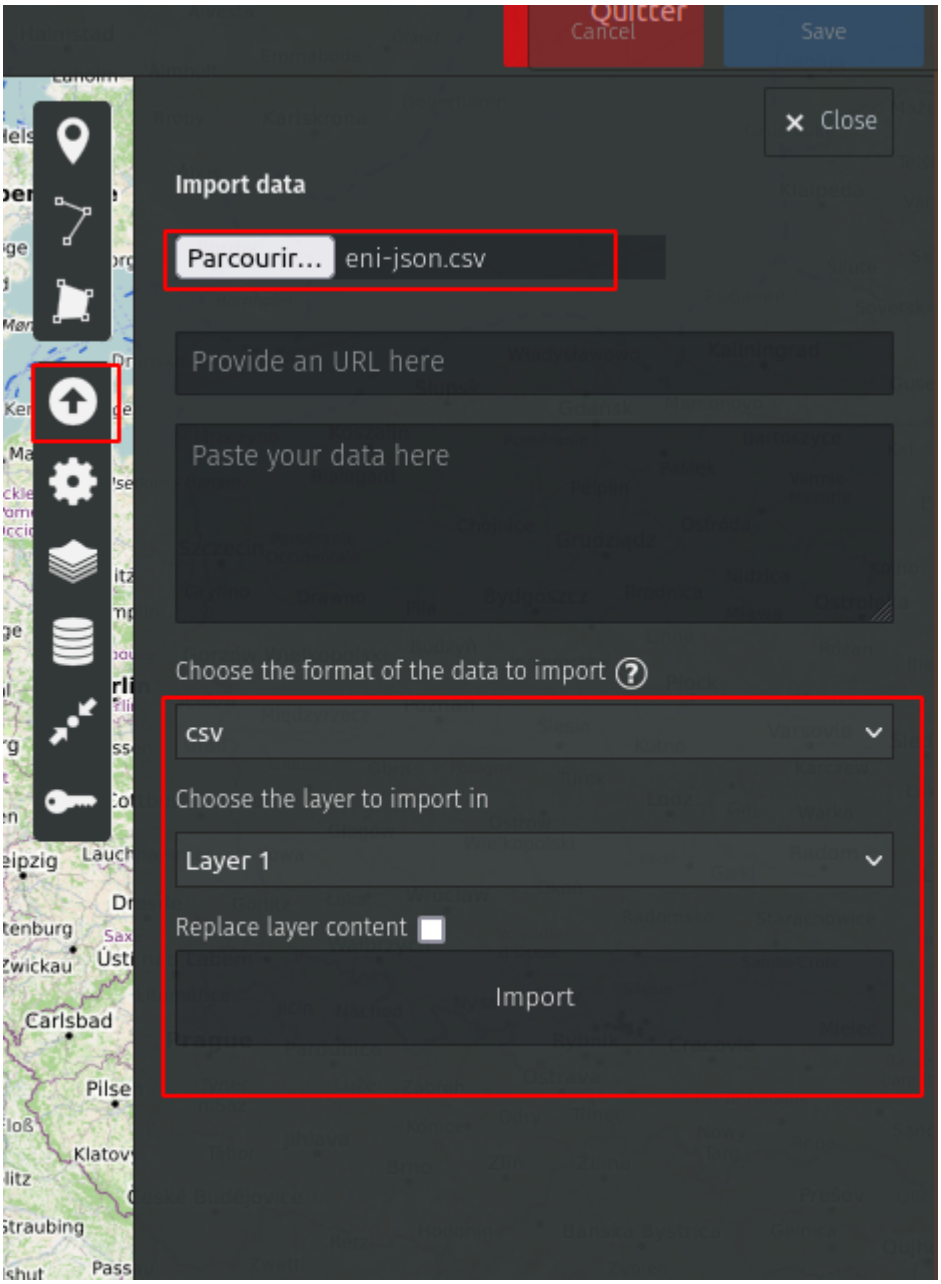


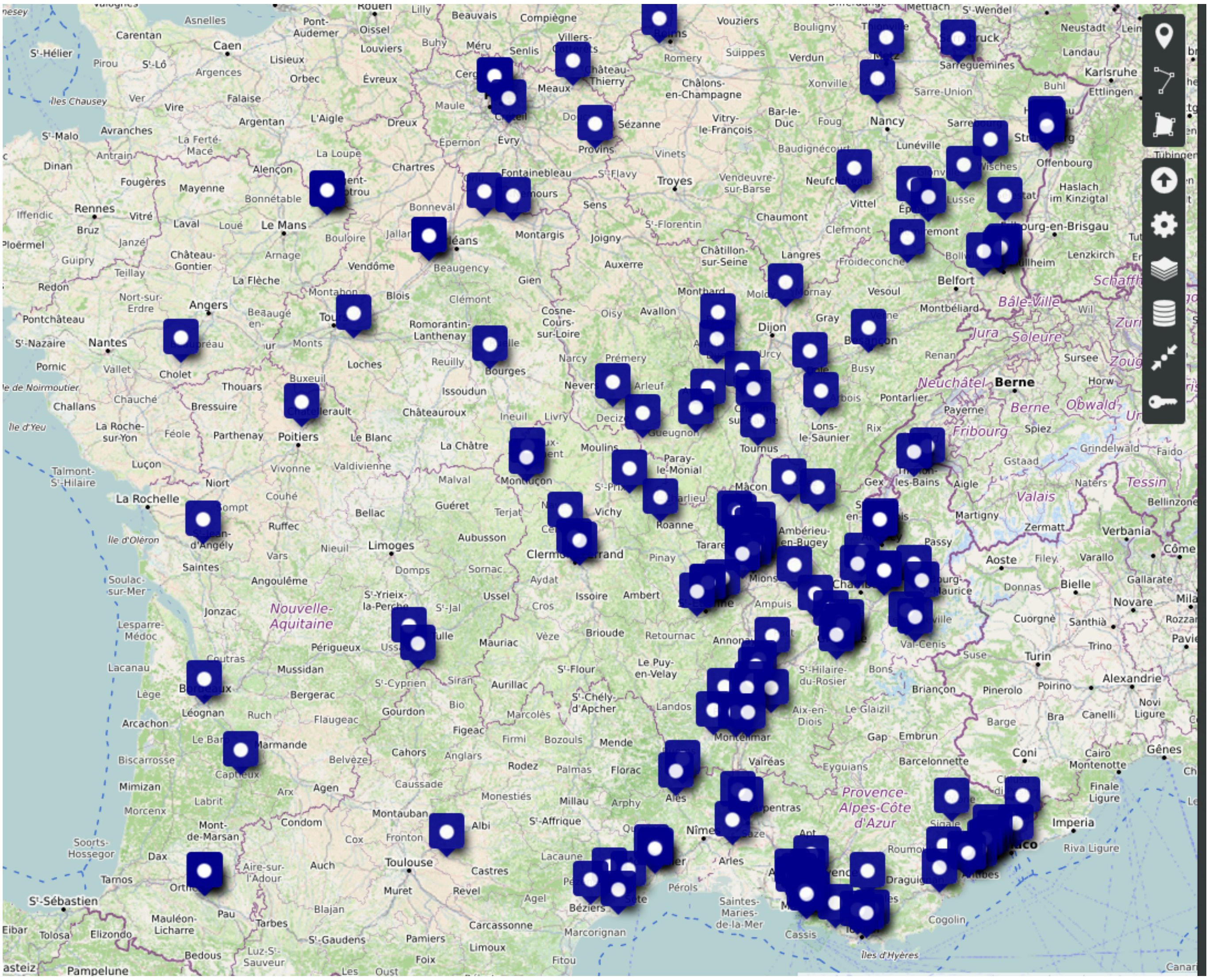
- Export your project as csv



Create a map

Browse to umap, an opensource tool to create maps with your data. Create a new map. Import your fresh dataset.


Quitter
Cancel
Save
Close
Import data
Parcourir...
eni-json.csv
Provide an URL here
Paste your data here
Choose the format of the data to import
csv
Choose the layer to import in
Layer 1
Replace layer content
Import



Conclusion

We quickly extracted some OSINT from a website, import them in openRefine in order to cleanse them and format them as we will. Finally, we created in 5mn an interesting geolocated map of our dataset.

Let's dive into this, by playing with APIs, with our third example!