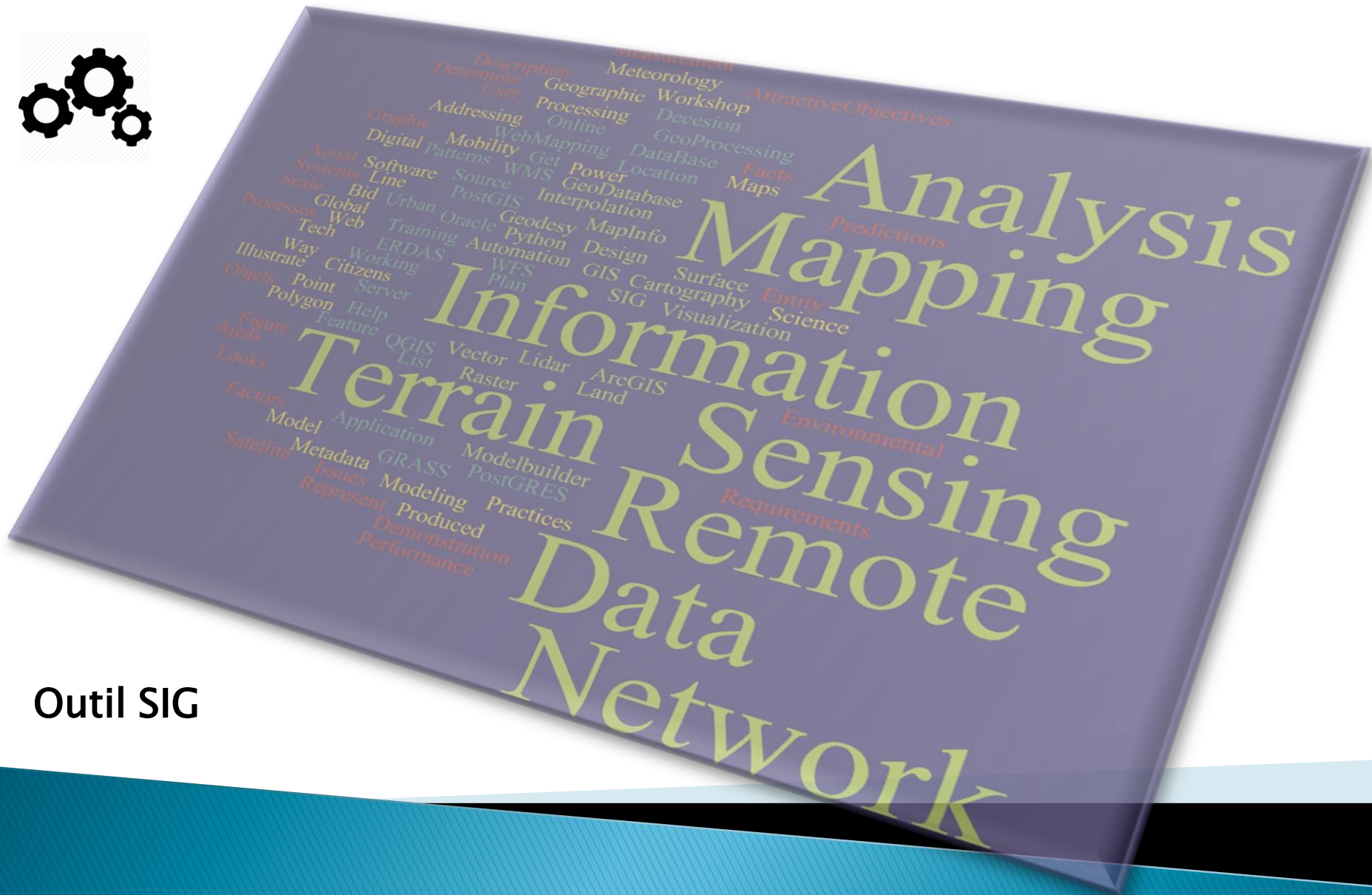




Spatialisation des données
application à l'écologie



Outil SIG

Outil SIG



Système d'Information Géographique (SIG)

Définition :

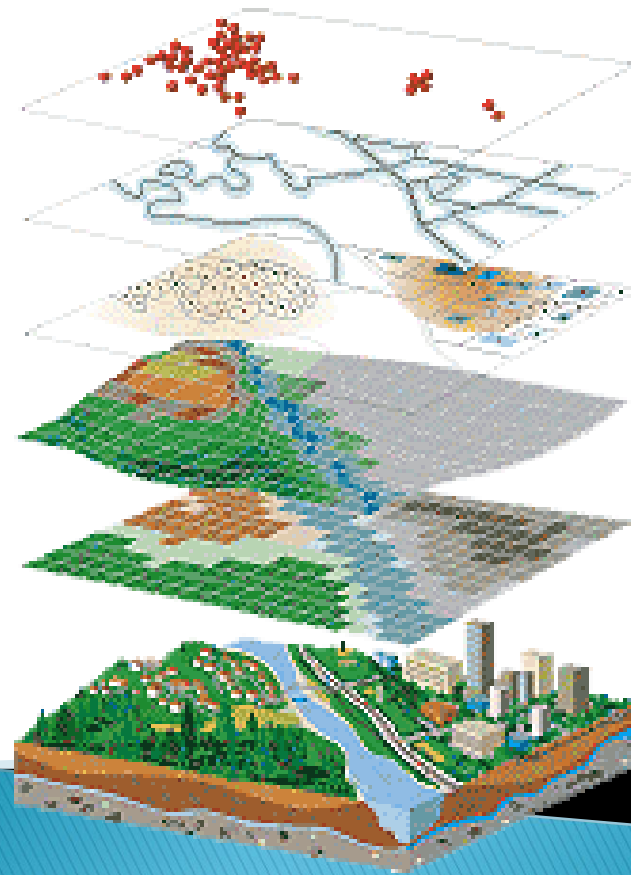
Logiciel ou système informatique qui permet de stocker, représenter, manipuler ou analyser des informations géographiques référencées (ou données géospatiales).

Concept de base :

Superposition, manipulation, analyse de « couches » d'information géographique.

Outil SIG

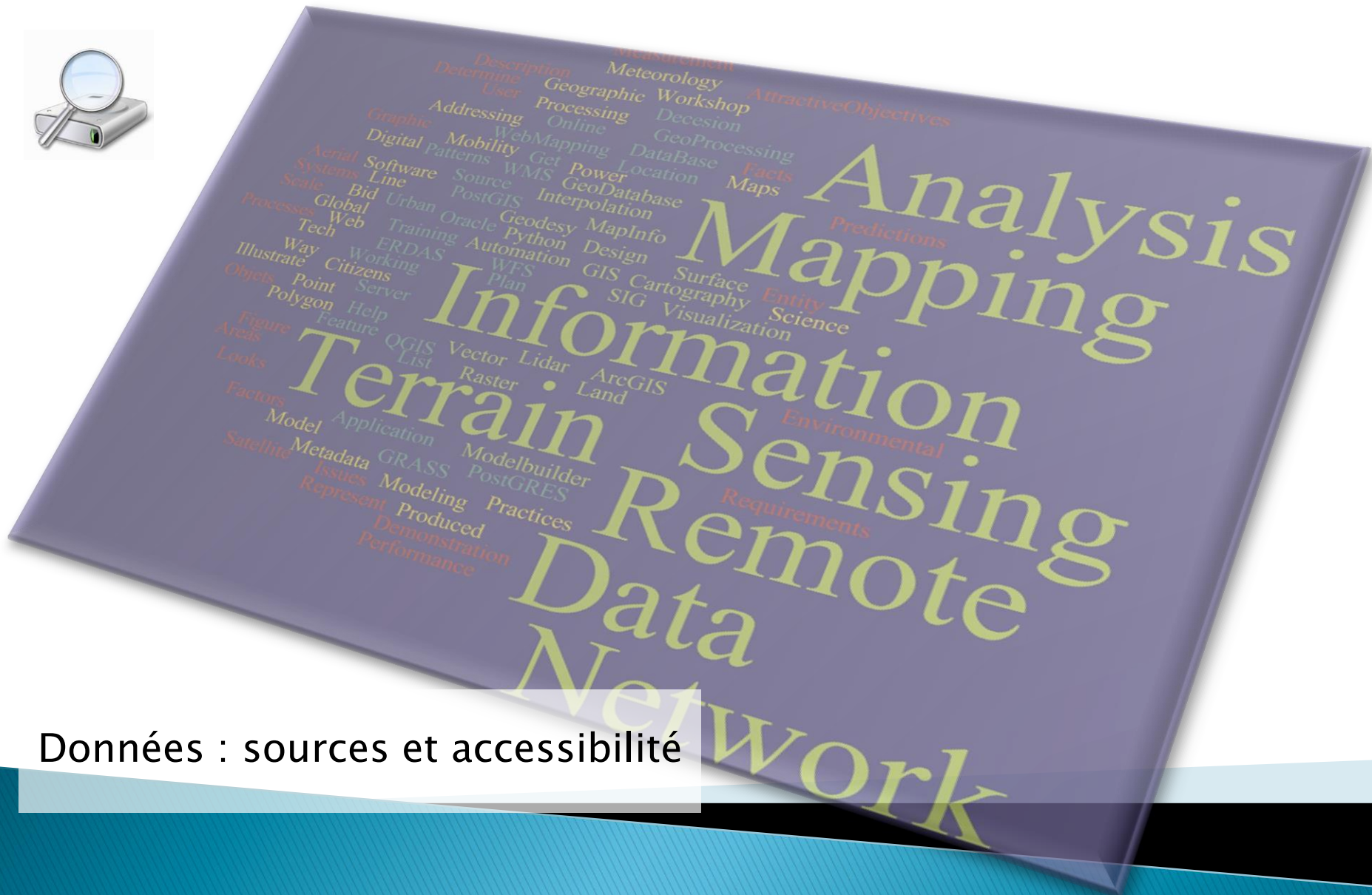
Système d'Information Géographique (SIG)



Outil SIG

Système d'Information Géographique (SIG)





Données : sources et accessibilité

Données : sources et accessibilité



Registre Parcellaire Graphique 2012: contours des flôts cultureux et leur groupe de cultures majoritaire des exploitations



Portail des données ouvertes de l'Union européenne


Données : sources et accessibilité





JOINT RESEARCH CENTRE
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 European Commission > Joint Research Centre > Institute for Environment and Sustainability > Land Resource Management Unit




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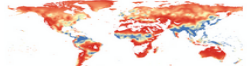
 Jet Propulsion Laboratory
 California Institute of Technology [View the NASA Portal](#)
 JPL HOME EARTH SOLAR SYSTEM STARS & GALAXIES TECHNOLOGY
ASTER
 Advanced Spaceborne Thermal Emission and Reflection Radiometer
 SEARCH ASTER GO **Get ASTER Data**



 **USGS**
 science for a changing world
Landsat Missions

Global Biodiversity Information Facility
 Free and Open Access to Biodiversity Data
 644,369,631 OCCURRENCES | 1,634,951 SPECIES | 28,115 DATASETS | 807 DATA PUBLISHERS

 **CGIAR-CSI**
 Consortium for Spatial Information
Datasets
 Showcase of popular spatial datasets shared by CGIAR-CSI Community
[View all our datasets](#)

CRU-TS v3.10.01 Historic Climate Database for GIS

 University of East Anglia (UEA)'s CRU-TS is one of the most widely used historical climate database. To help facilitate the use of this database in the CSI community, we have converted the raw data into the Esri ASCII raster format.

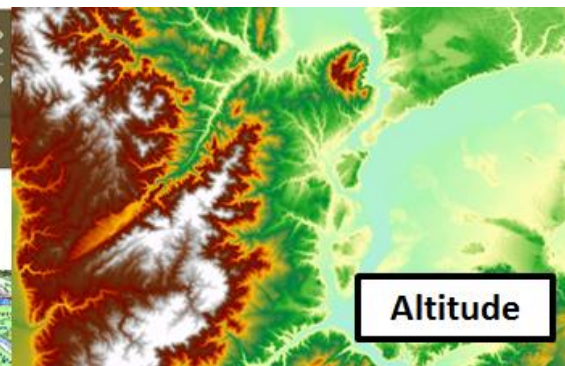
Données : sources et accessibilité



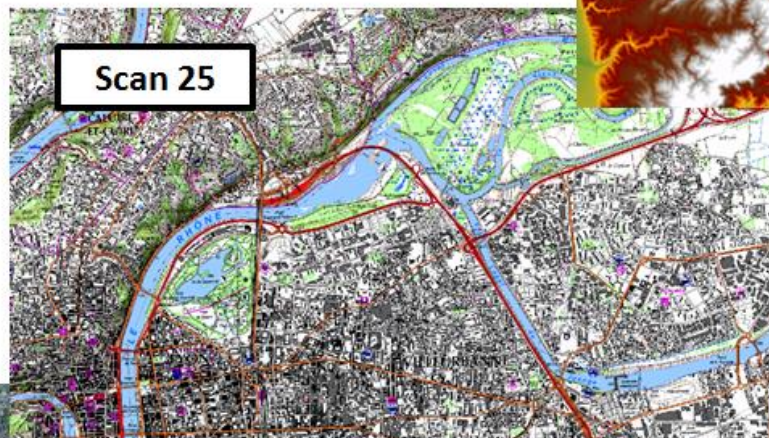
Type de données

- Land cover: eau, forêts, bâtiments, routes, surfaces agricoles, etc
- Climat: températures, précipitations, indice d'aridité, etc
- Photos satellites et aériennes: calcul de NDVI, températures de surface
- Informations ponctuelles: inventaires divers, arbres d'alignements, sites pollués, etc
- Autres: pollution chimiques, sonores et lumineuses, sous sol, trafic routier, etc

Données : sources et accessibilité

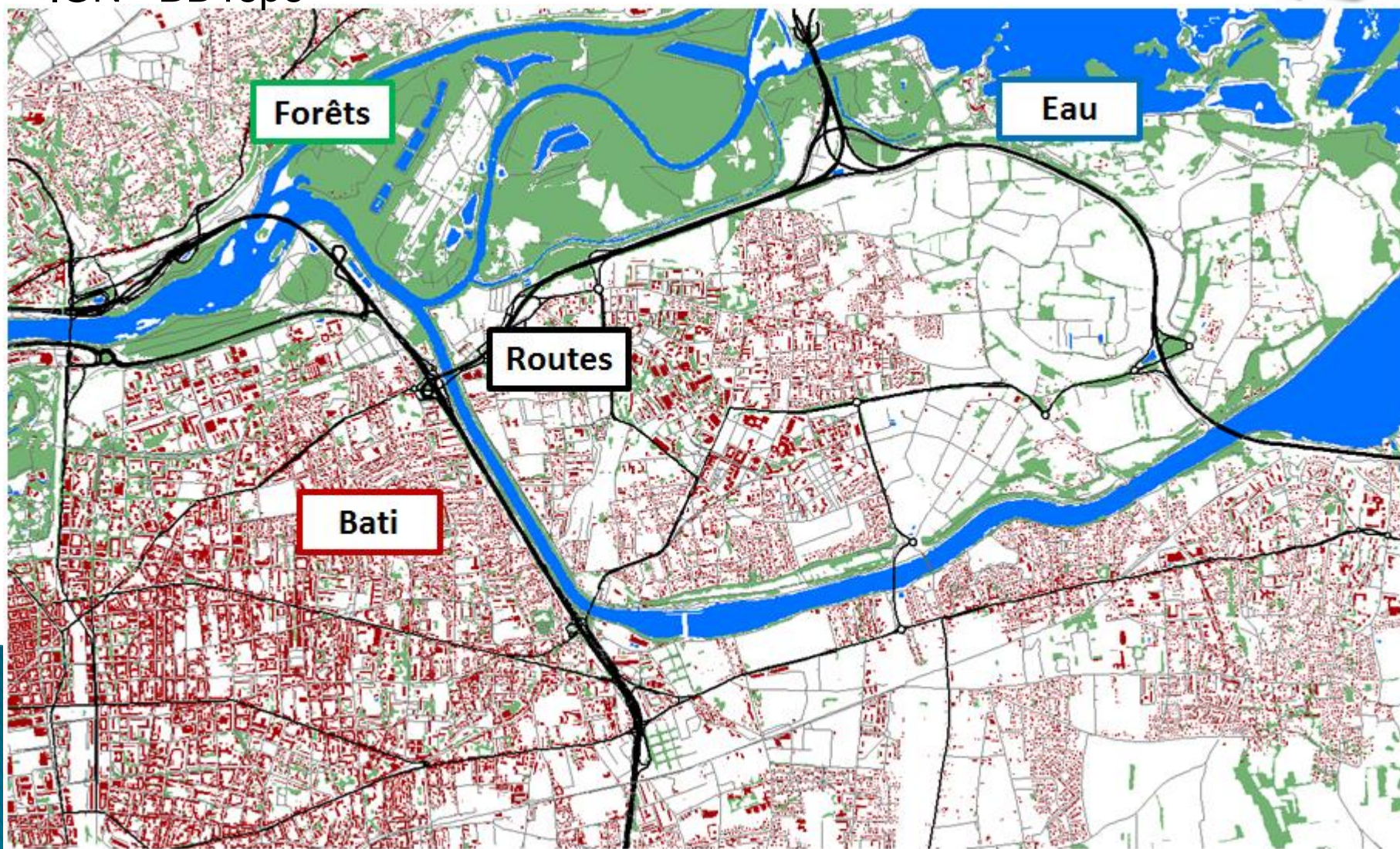


Données raster:



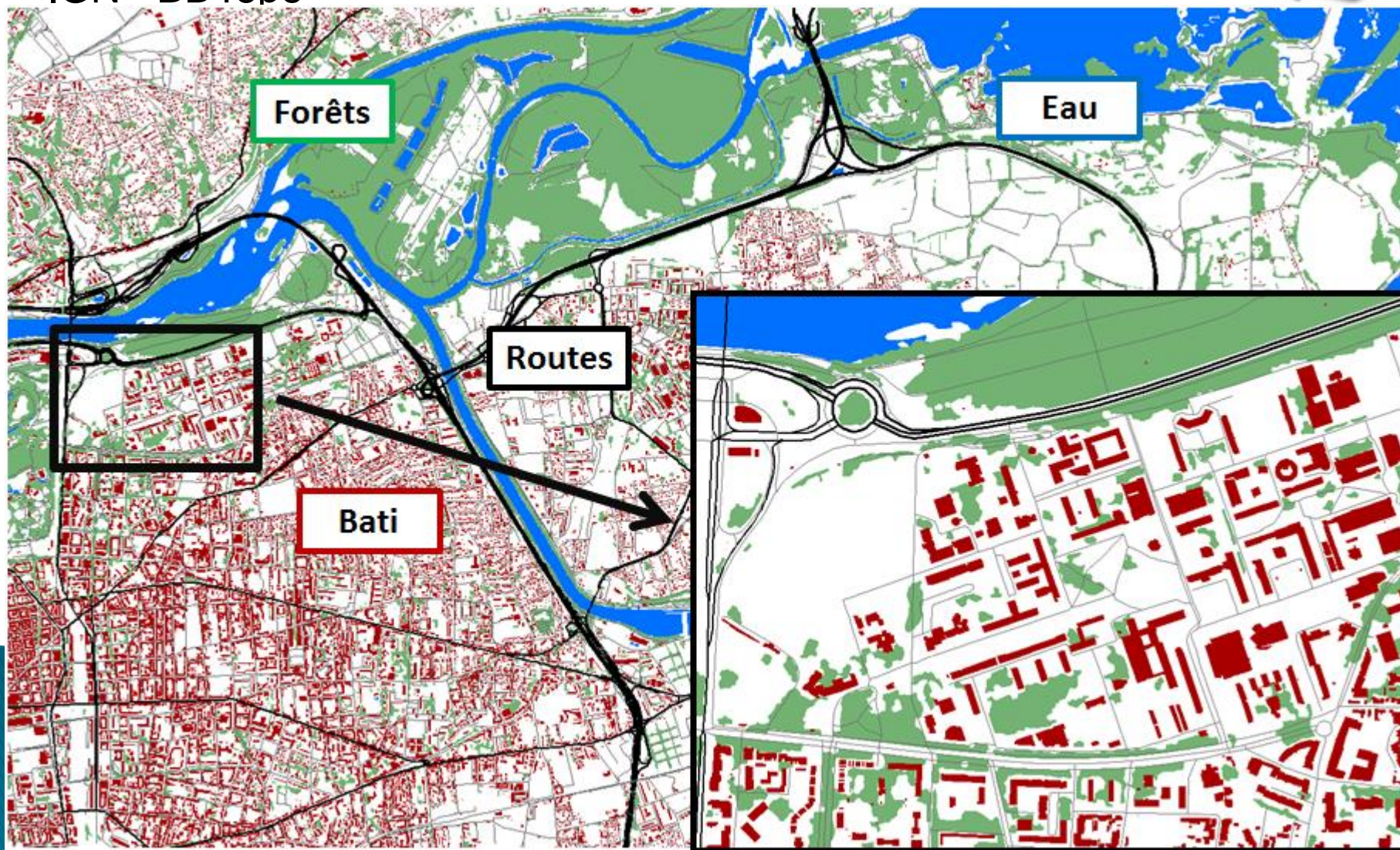
Données : sources et accessibilité

IGN - BDTopo



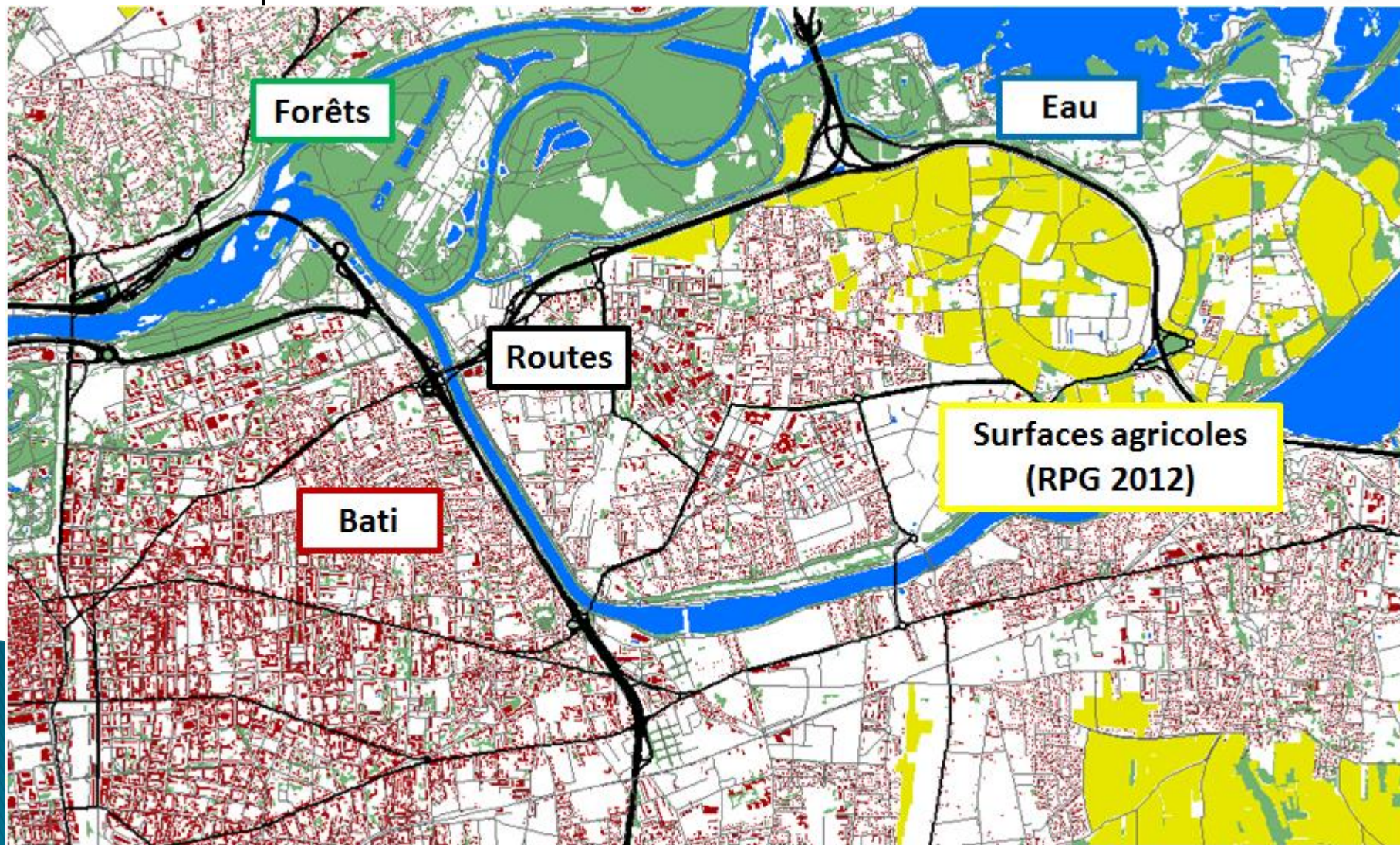
Données : sources et accessibilité

IGN - BDTopo

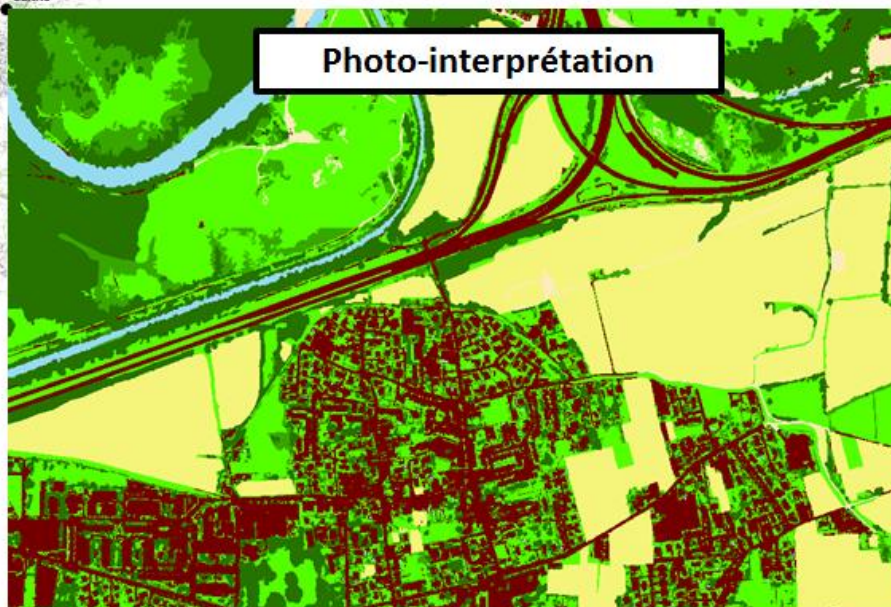
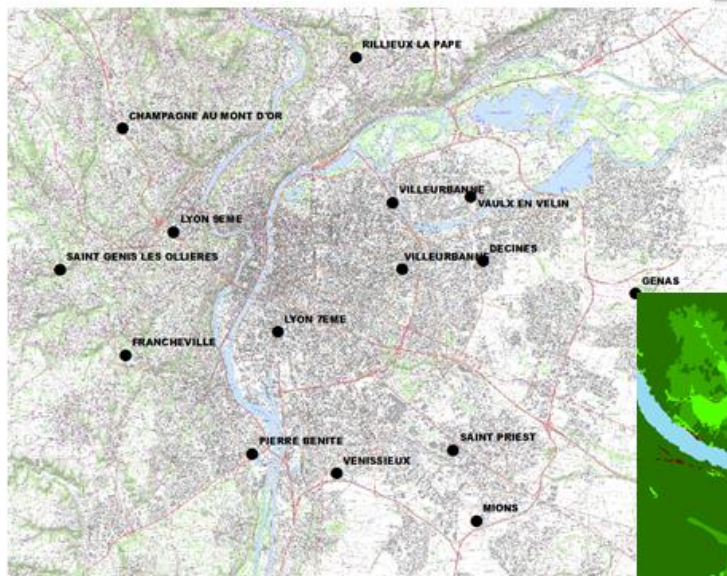
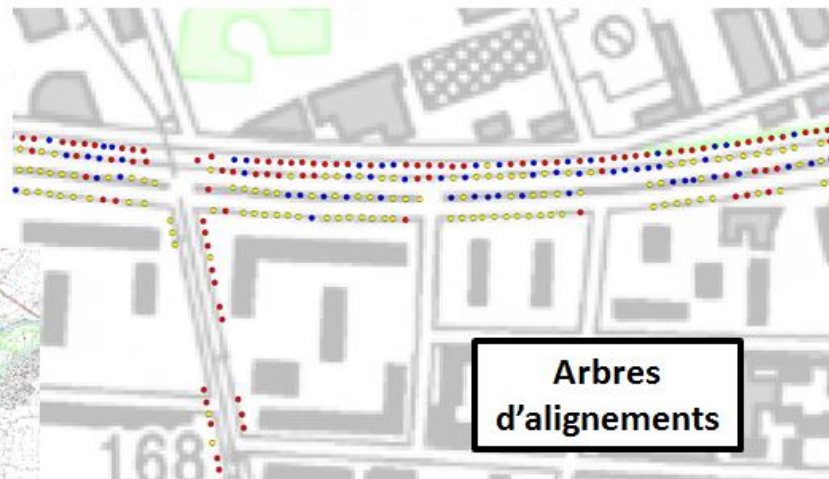


Données : sources et accessibilité

IGN - BDTopo



Données : sources et accessibilité

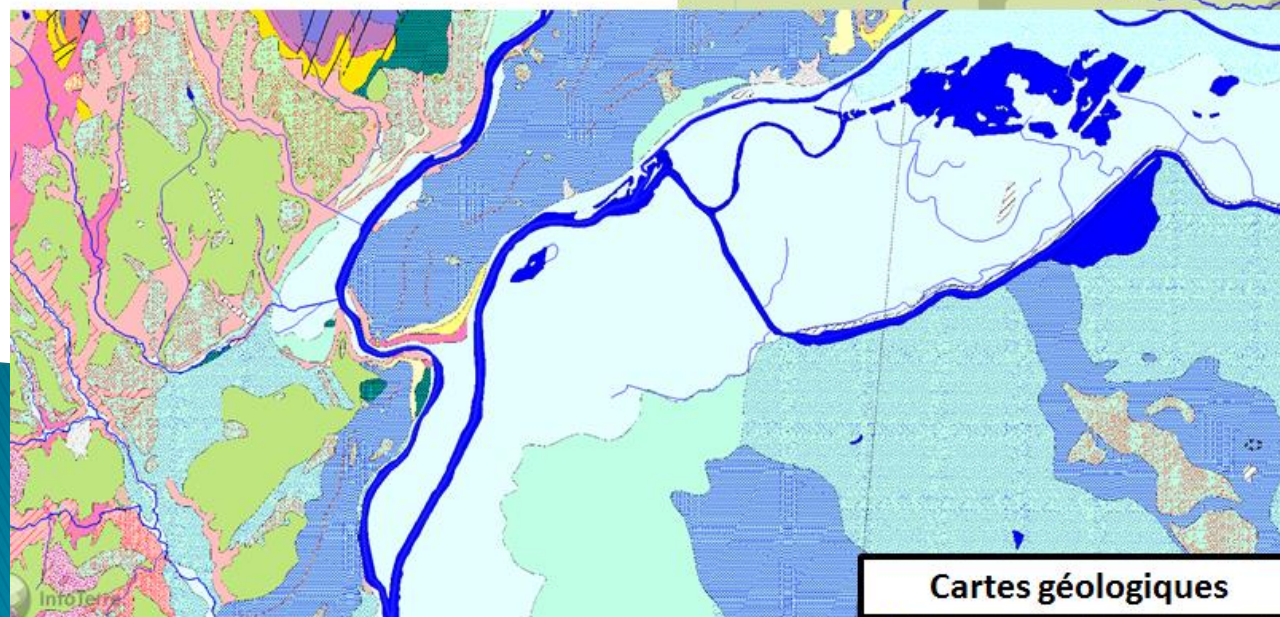
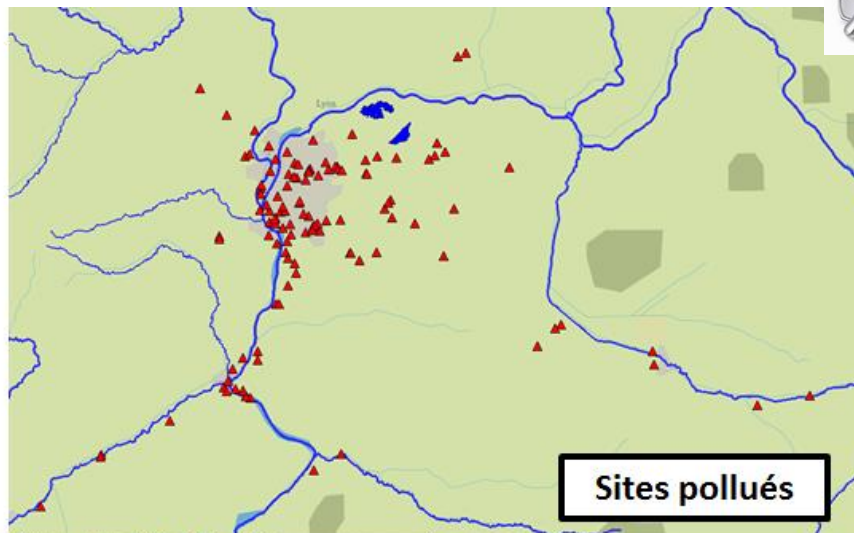


Décheteries

Photo-interprétation

Arbres d'alignements

Données : sources et accessibilité

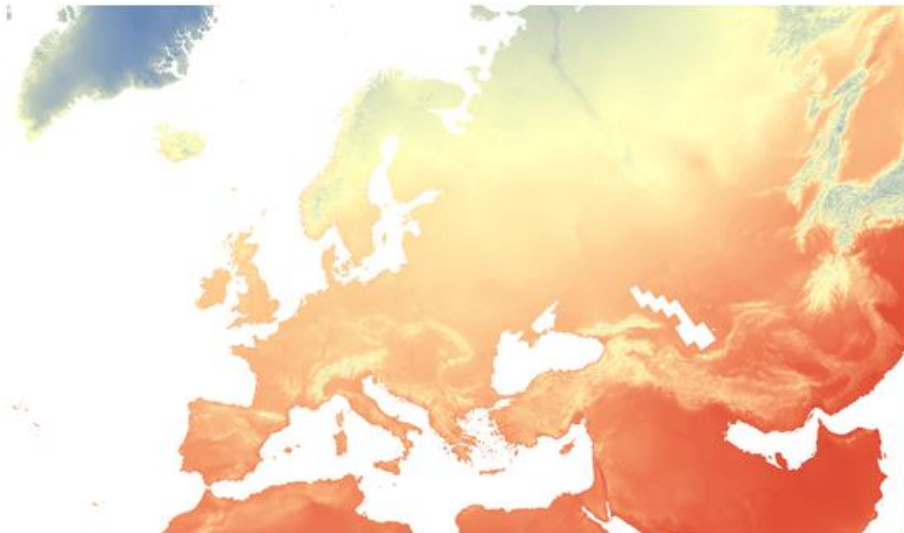


Données : sources et accessibilité



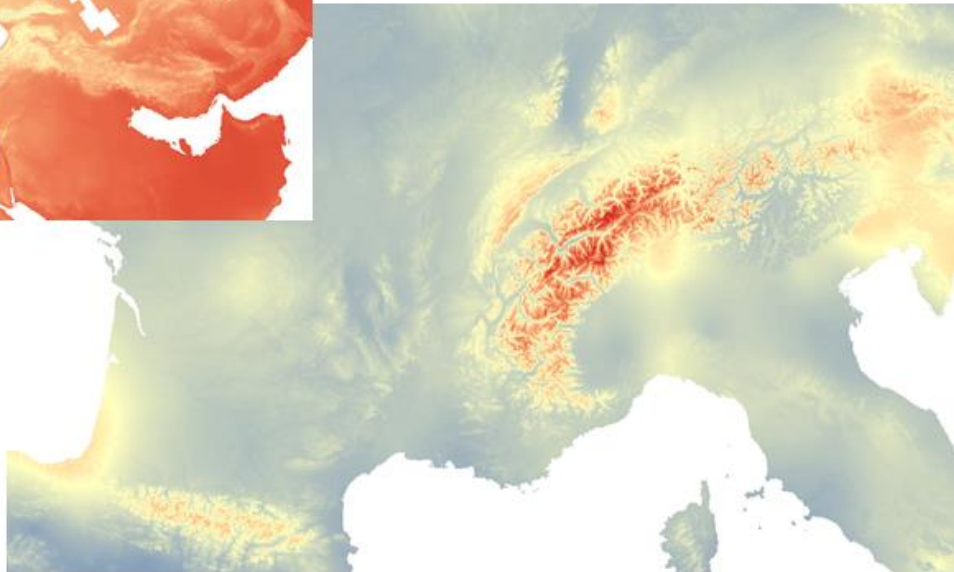
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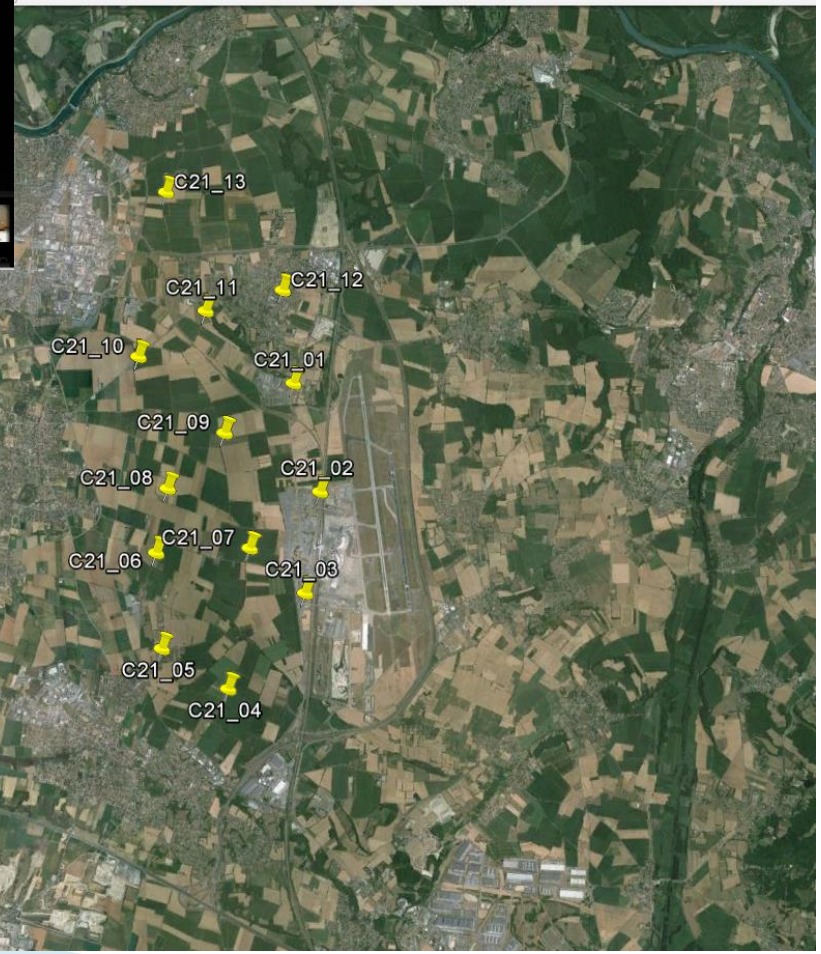


Températures moyennes annuelles

Précipitations moyennes annuelles



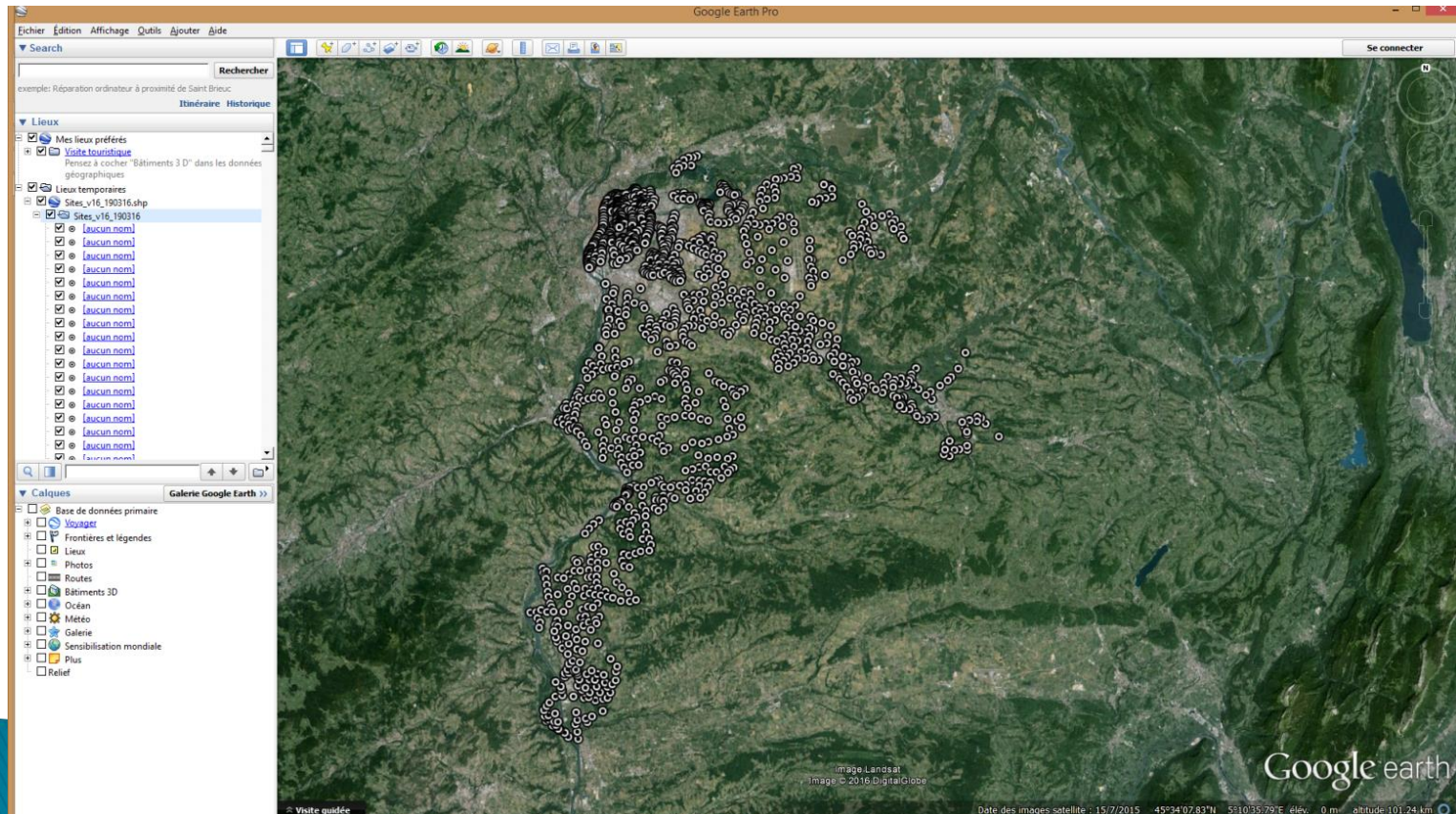
Données : sources et accessibilité



Exemple de traitements

Afficher des points

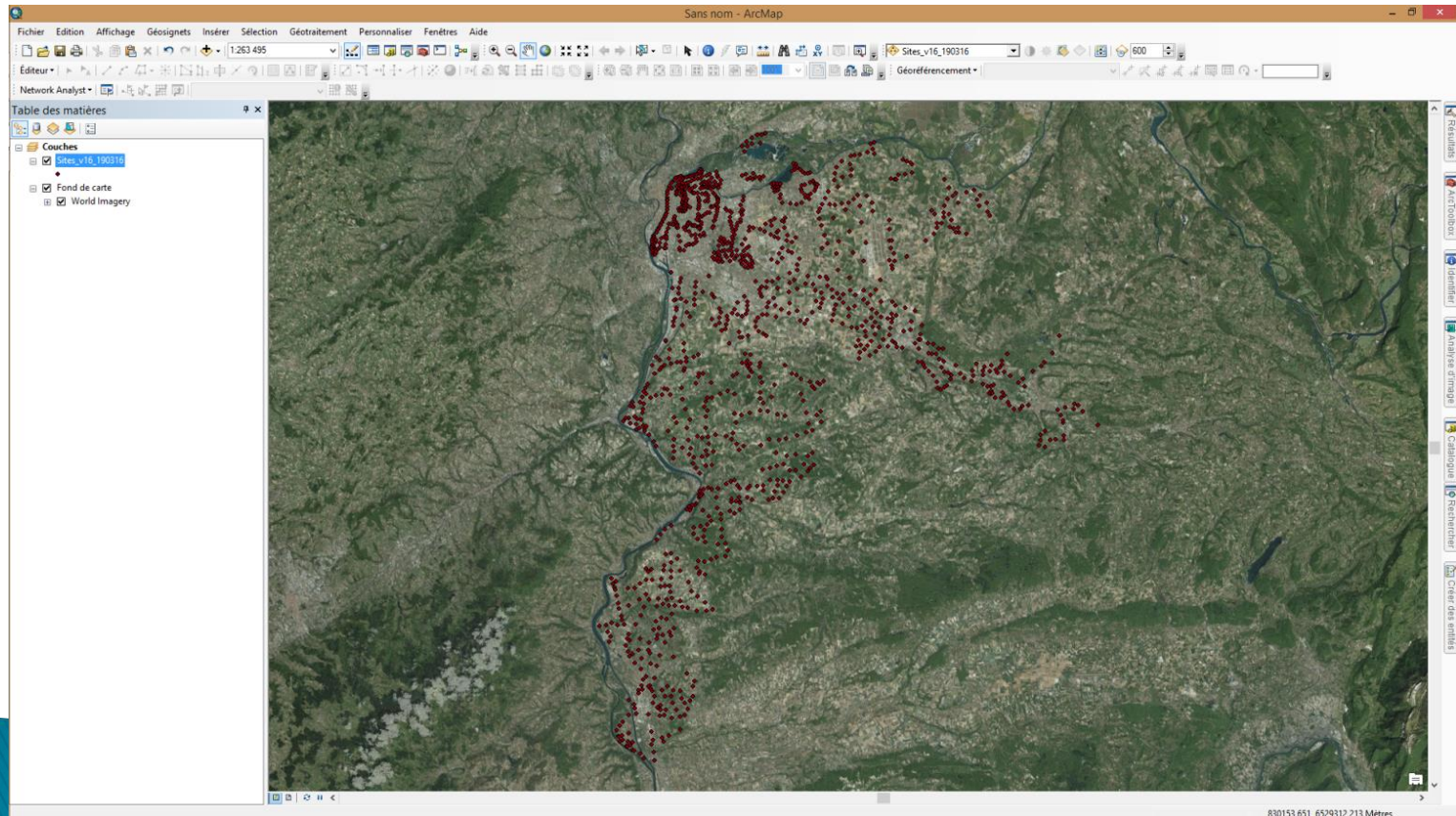
De Google Earth . . .



Exemple de traitements

Afficher des points

À ArcGIS . . .



Exemple de traitements

Afficher des points

A ArcGIS ...

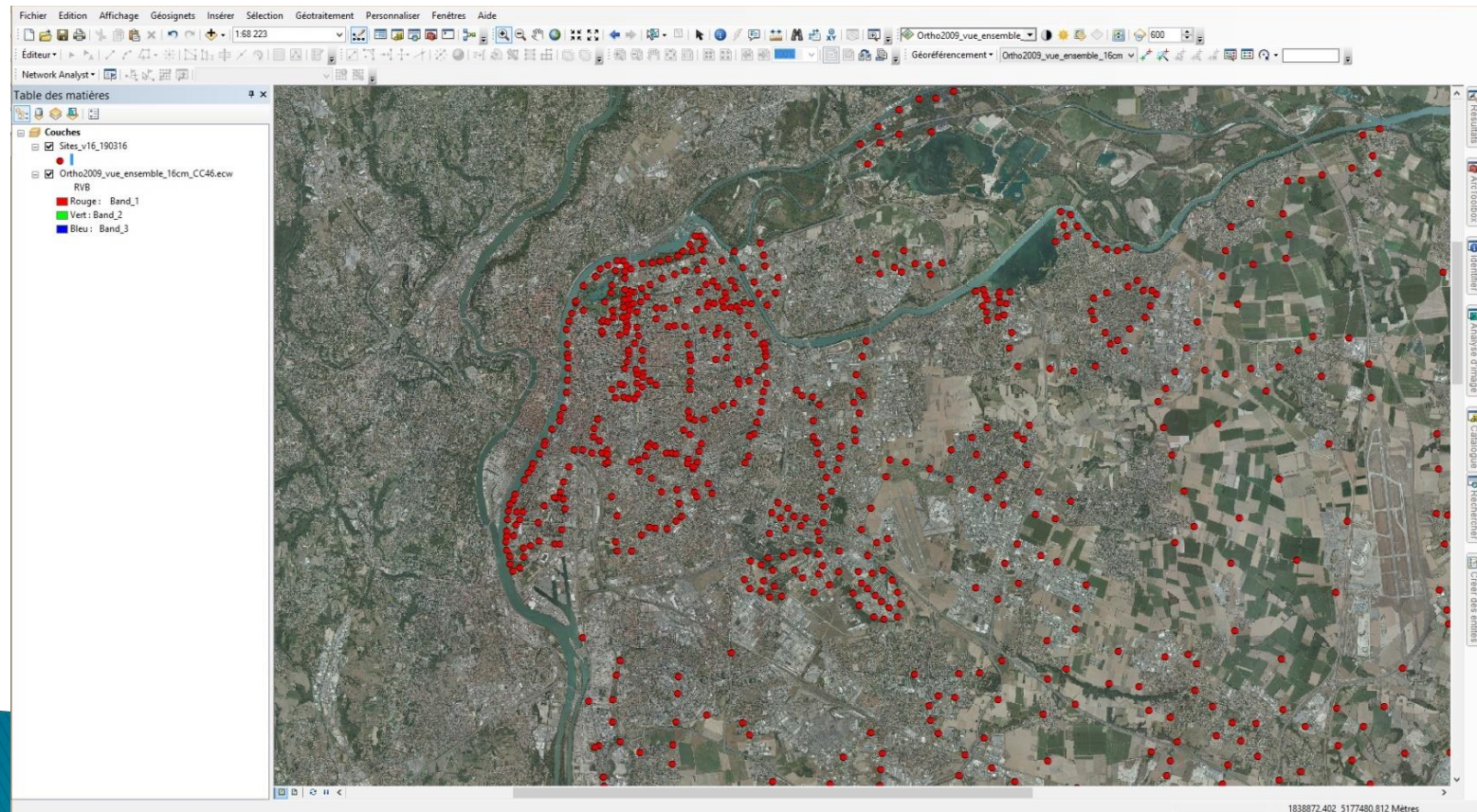


SiteName	aph_sub	aph_sub t	cam xxx	cre scu	for xxx	las ali	las bru	POINT X	POINT Y	JOUR	MOIS	ANNEE
C21_07	0	<Nul>	0	0	1	0	0	860232,862005	6515382,37749	26	4	2011
C21_04	0	<Nul>	0	0	0	1	0	859868,735928	6513070,61785	27	7	2006
C21_05	0	<Nul>	0	0	1	0	0	858772,359927	6513737,04656	16	5	2007
C21_06	0	<Nul>	0	0	1	0	0	858678,078186	6515317,33035	25	2	2014
C21_08	0	<Nul>	0	0	1	1	0	858868,02388	6516385,69381	26	8	2011
C21_10	0	<Nul>	0	0	1	1	0	858376,421926	6518603,62064	14	3	2016
C21_11	0	<Nul>	0	0	1	1	0	859506,837943	6519367,49608	5	11	2002
C21_01	0	<Nul>	0	0	1	0	0	860977,551844	6518130,49602	14	4	2011
C21_03	0	<Nul>	0	0	1	1	0	861147,707822	6514630,00989	25	2	2009
C21_02	0	<Nul>	0	0	0	1	0	861408,606981	6516307,78847	24	9	2015
C21_09	0	<Nul>	0	0	1	1	0	859819,479494	6517306,47884	13	6	2002
C21_12	0	<Nul>	0	1	1	0	0	860885,083739	6519710,18308	17	11	2015
C21_13	0	<Nul>	0	0	1	1	0	858837,964996	6521404,78189	15	7	2004
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V01_02	0	<Nul>	0	0	0	0	0	842801,243419	6516854,73731	6	2	2009
V01_03	0	<Nul>	0	0	0	0	0	842745,117502	6516885,16611	28	6	2007
V01_04	0	<Nul>	0	0	0	0	0	842511,238344	6516666,51094	26	3	2016
V01_05	0	<Nul>	0	0	1	0	0	842368,279685	6516260,99924	15	4	2005
V01_06	0	<Nul>	0	0	0	0	0	841946,202893	6516350,33458	9	12	2015
V01_07	0	<Nul>	0	0	0	0	0	841852,355292	6516215,43425	10	2	2009
V01_08	0	<Nul>	0	0	0	0	0	841793,512311	6515960,49487	21	7	2005
V01_09	0	<Nul>	0	0	0	0	0	842031,560533	6515666,24491	22	7	2013
V01_10	0	<Nul>	1	0	0	0	1	842187,139149	6515725,60318	9	2	2008
V01_11	0	<Nul>	0	0	0	0	0	842380,358455	6515843,56367	17	9	2000
V01_12	0	<Nul>	0	0	0	0	0	842775,092338	6515765,66462	4	2	2003
V01_13	0	<Nul>	0	0	0	0	0	842883,912698	6515761,83509	26	8	2010
V01_14	0	<Nul>	0	0	0	0	0	842937,756821	6516108,38631	21	9	2015
V01_15	0	<Nul>	0	0	0	0	0	843007,301864	6516591,5108	3	6	2001
V01_16	0	<Nul>	0	0	0	0	0	842963,20617	6516824,08932	18	10	2015
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V02_02	0	<Nul>	0	0	0	0	0	845336,219388	6521320,28048	15	4	2011
V02_03	0	<Nul>	0	0	0	0	0	845646,099366	6521492,20277	23	11	2001
V02_04	0	<Nul>	0	0	0	1	0	846179,39979	6521698,65723	25	5	2005
V02_05	0	<Nul>	0	0	0	1	0	846314,030864	6521875,74881	12	10	2002
V02_06	0	<Nul>	1	0	1	0	0	846479,452112	6521948,13752	11	8	2004
V02_07	0	<Nul>	1	0	0	1	0	846581,623014	6521818,99368	18	5	2011
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V02_10	1	<Nul>	0	0	0	1	0	846894,43568	6521340,22749	20	4	2010
V02_11	0	<Nul>	0	0	1	0	0	847381,166165	6521429,12125	27	11	2012
V02_12	0	<Nul>	0	0	0	0	0	847225,37315	6521446,57666	10	6	2002
V02_13	0	<Nul>	0	0	0	0	0	846996,716143	6521815,48269	4	7	2011
V02_14	0	<Nul>	0	0	0	1	0	846918,807864	6521975,72388	20	5	2011
V02_15	0	<Nul>	0	0	1	1	0	846694,44691	6522446,36772	28	4	2012
V03_01	0	<Nul>	0	0	0	0	0	845152,439751	6521062,013	24	2	2008

Exemple de traitements

Afficher des points

À ArcGIS . . .



Exemple de traitements

Découper une zone d'étude



Exemple de traitements

Découper une zone d'étude



Exemple de traitements

Digitaliser l'occupation du sol - *polyligne*



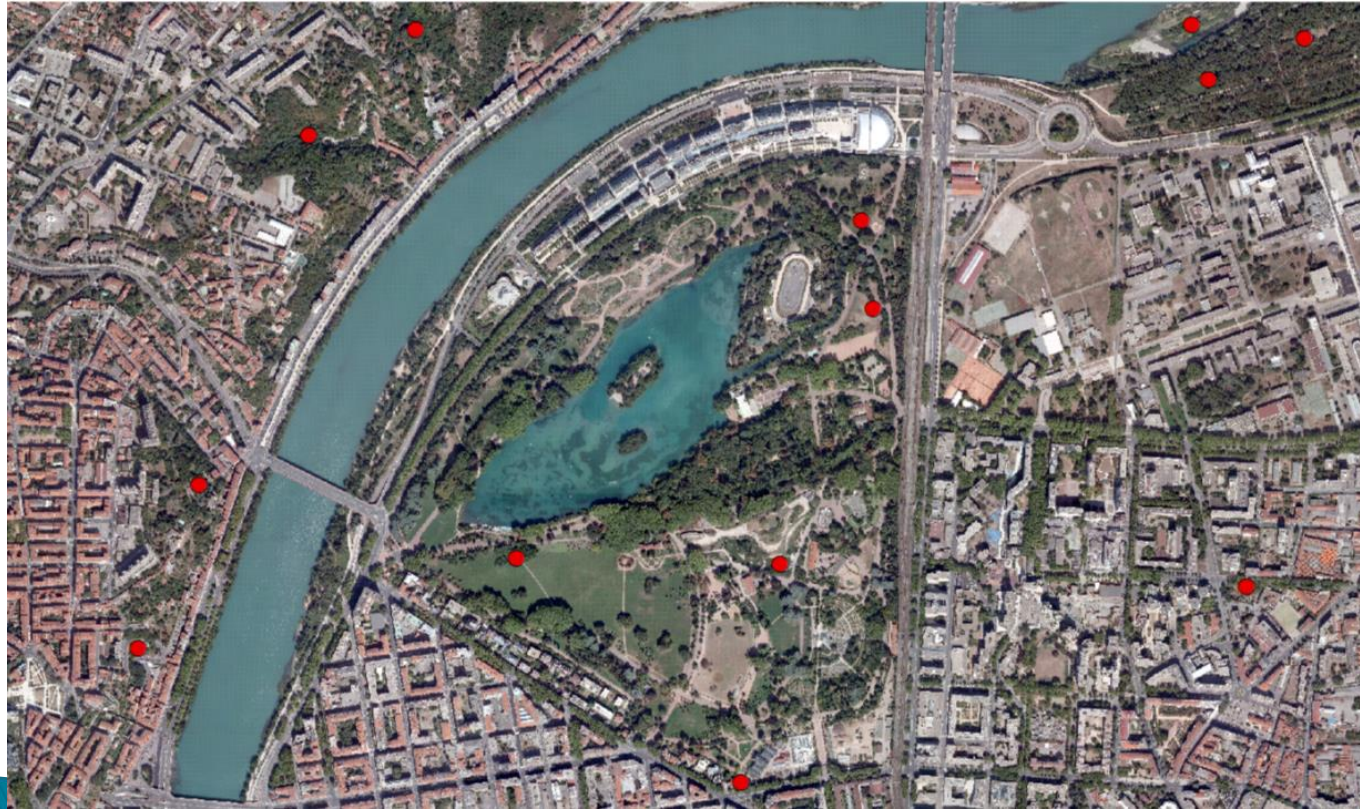
Exemple de traitements

Digitaliser l'occupation du sol - *polyligne*



Exemple de traitements

Digitaliser l'occupation du sol - *point*



Exemple de traitements

Digitaliser l'occupation du sol - *polygone*



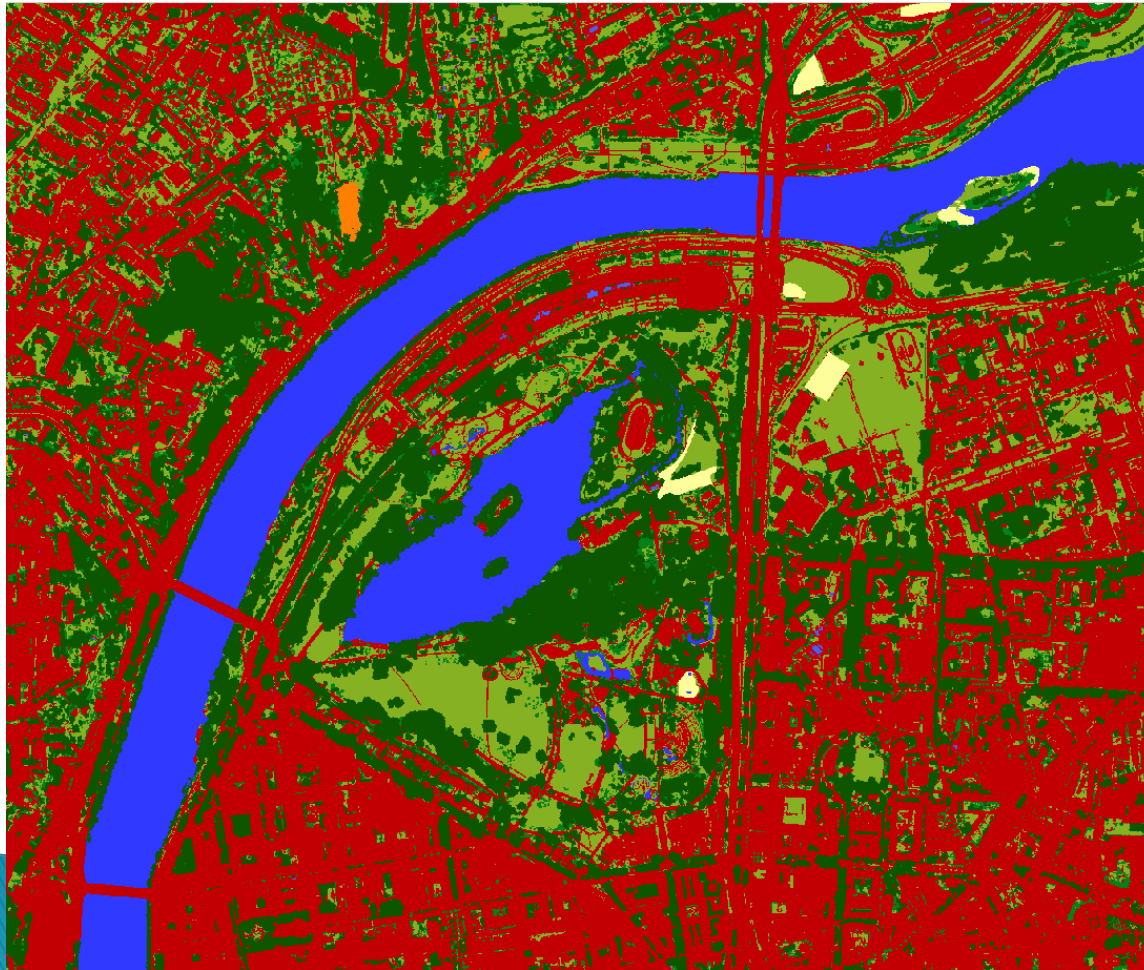
Exemple de traitements

Digitaliser l'occupation du sol - *polygone*



Exemple de traitements

Découper une zone d'étude



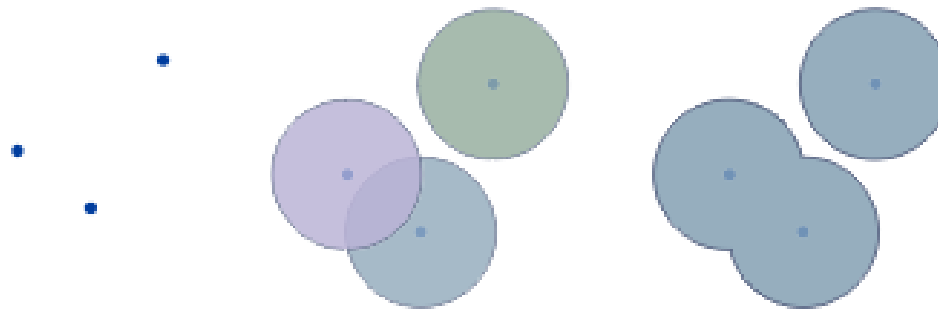
Exemple de traitements

Extraire l'occupation du sol autour d'un point



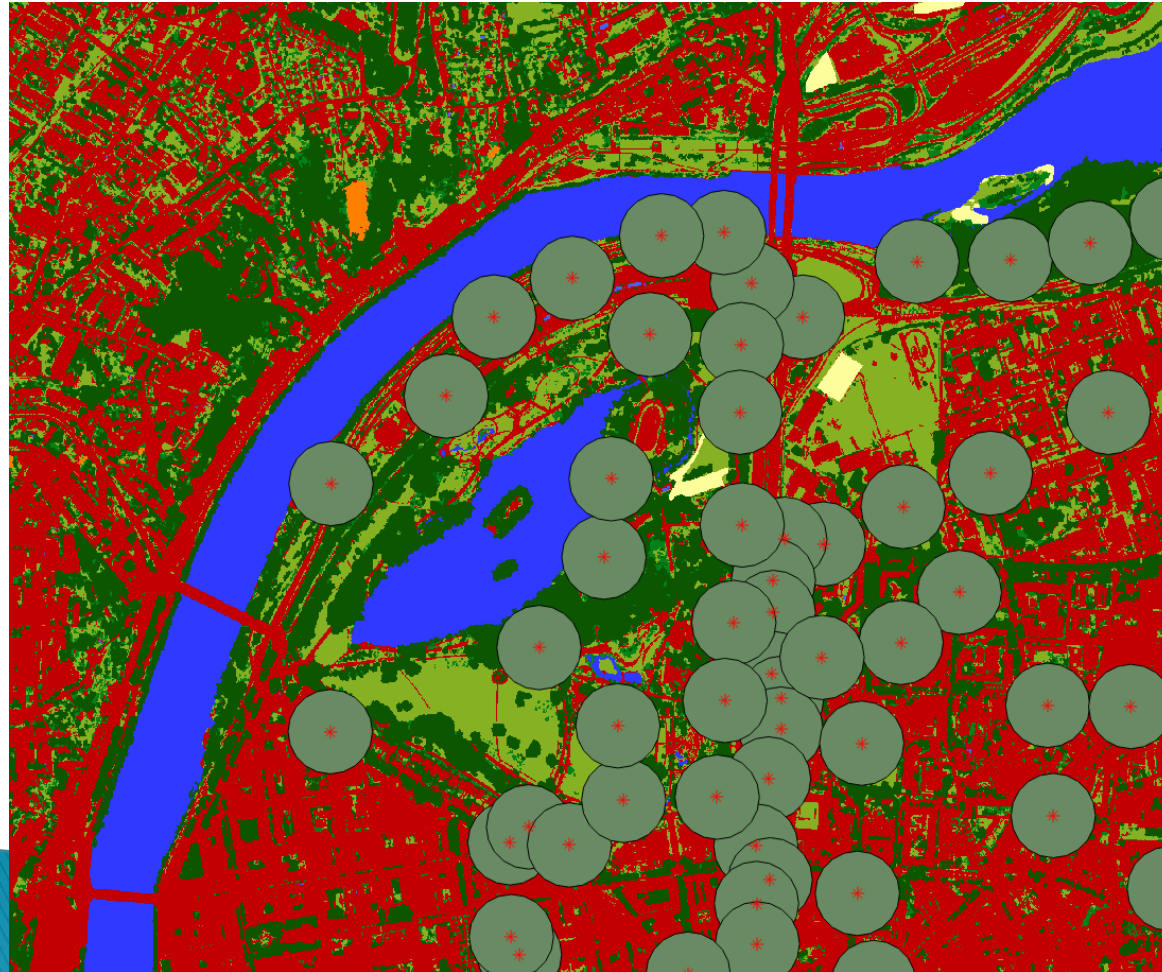
Exemple de traitements

Extraire l'occupation du sol autour d'un point



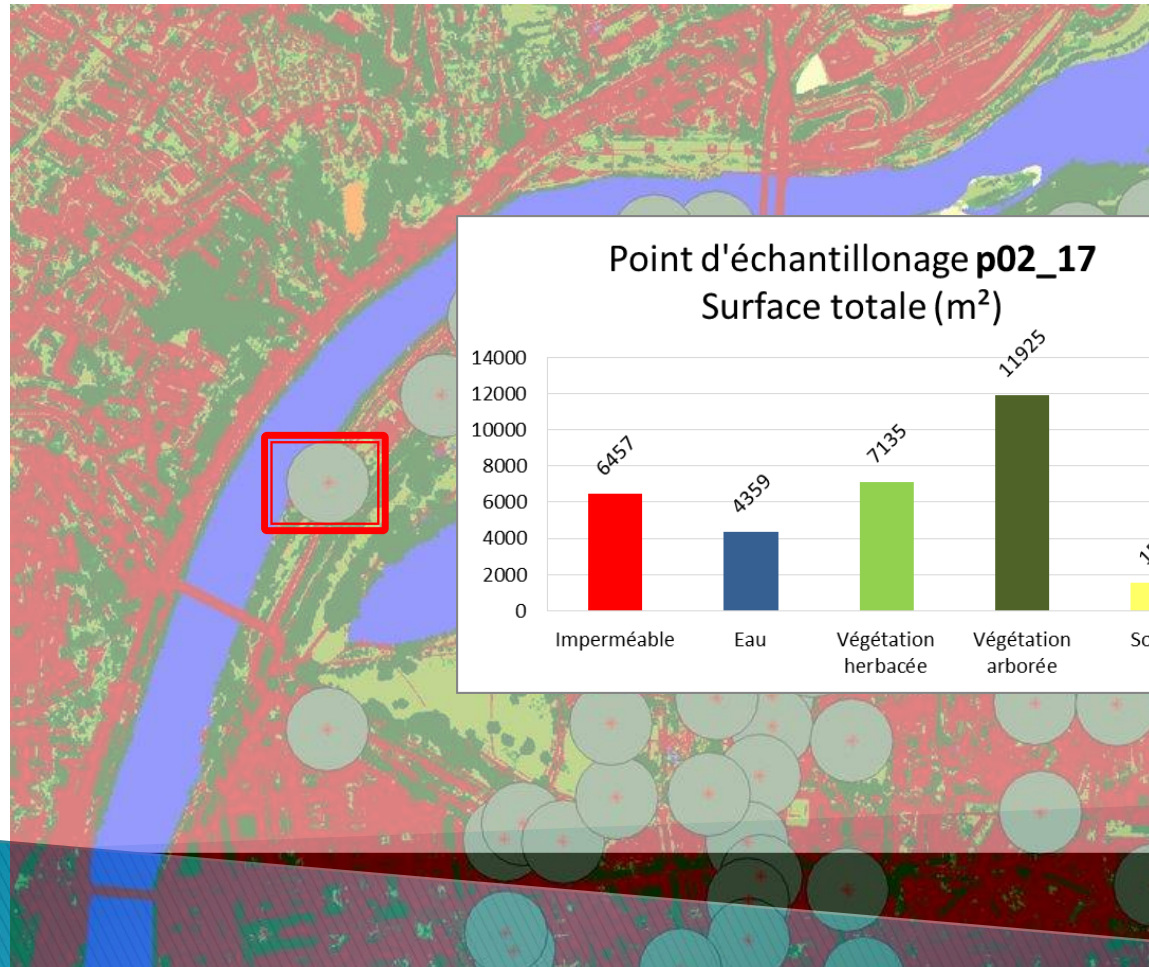
Exemple de traitements

Extraire l'occupation du sol autour d'un point



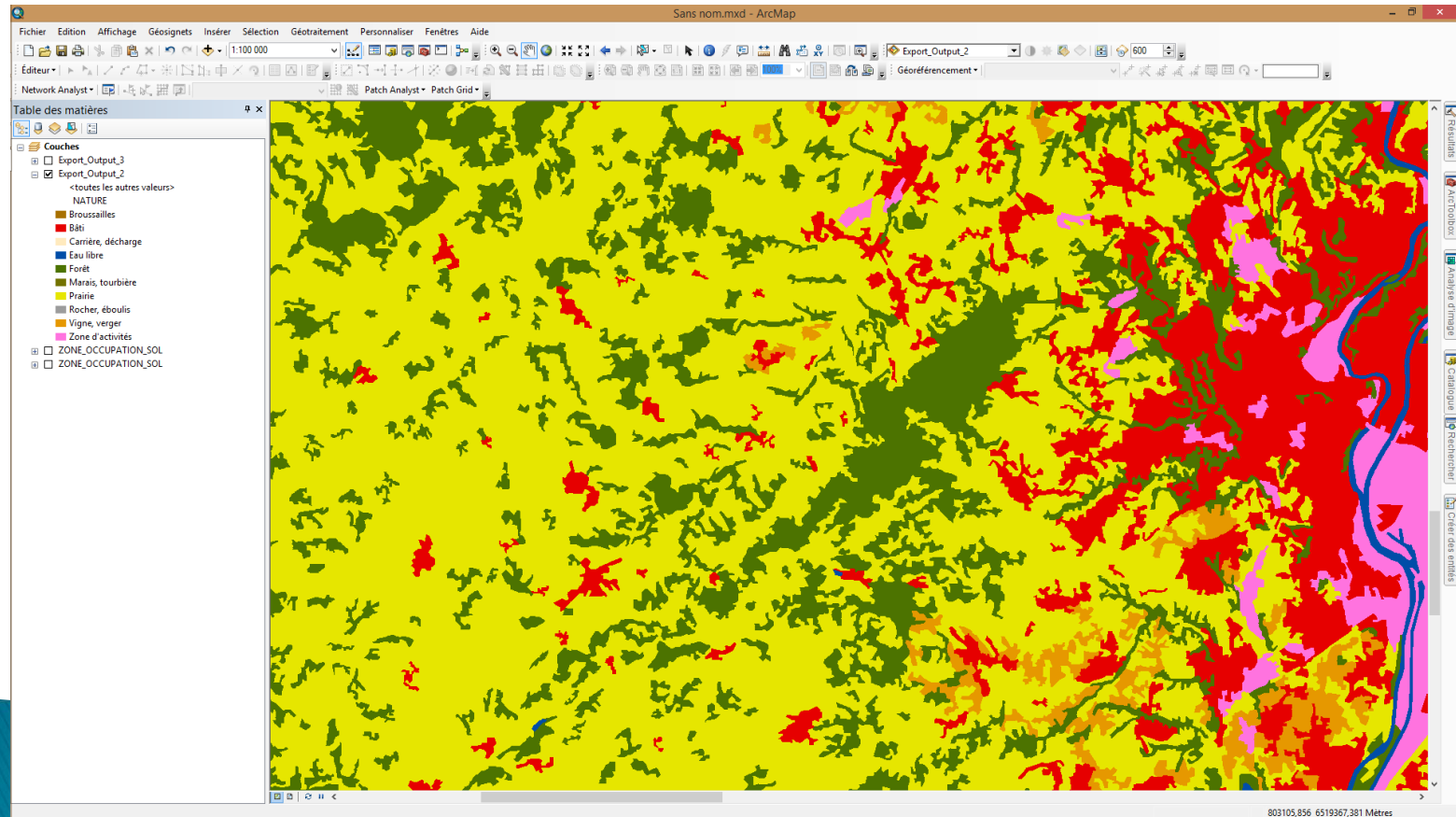
Exemple de traitements

Extraire l'occupation du sol autour d'un point



Exemple de traitements

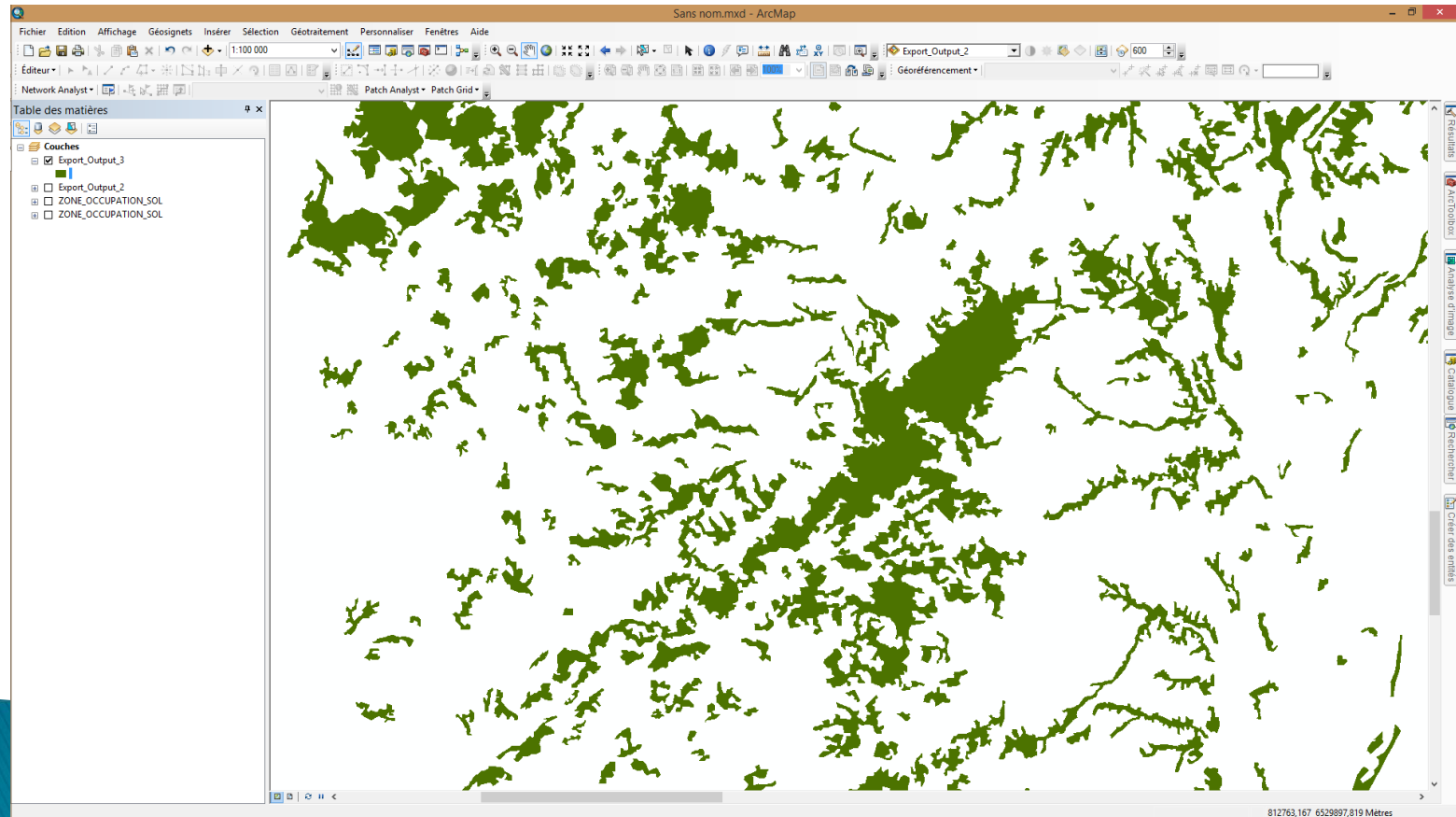
Extraction de données – Exemple BDCARTO : forêts



803105,856 6519367,381 Mètres

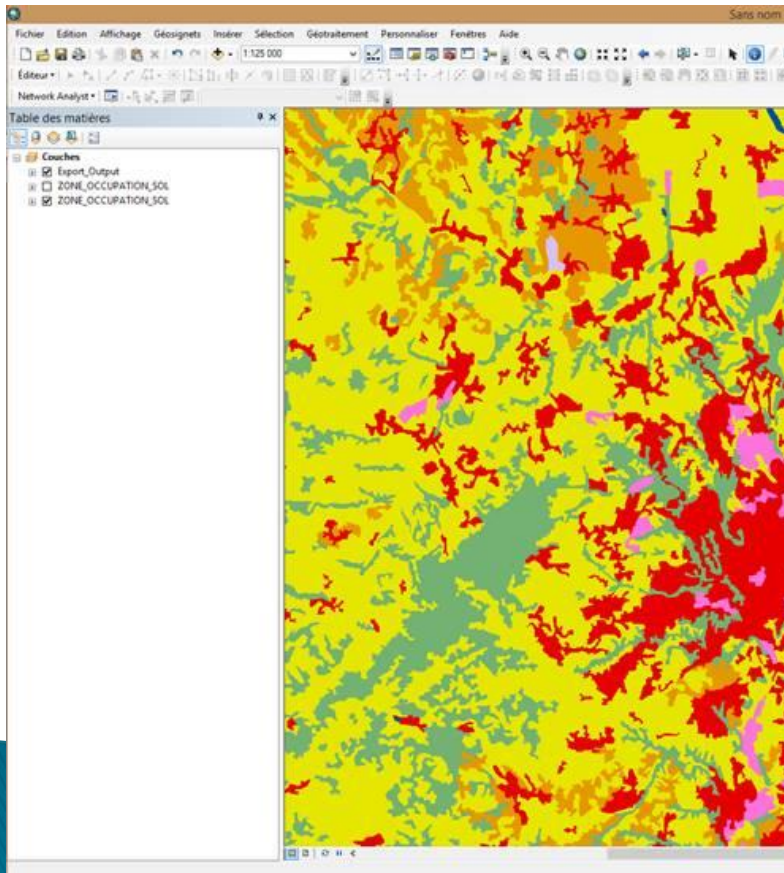
Exemple de traitements

Extraction de données – Exemple BDCARTO : forêts



Exemple de traitements

Divers Calculs : *AREA all class*



Table

Export_Output

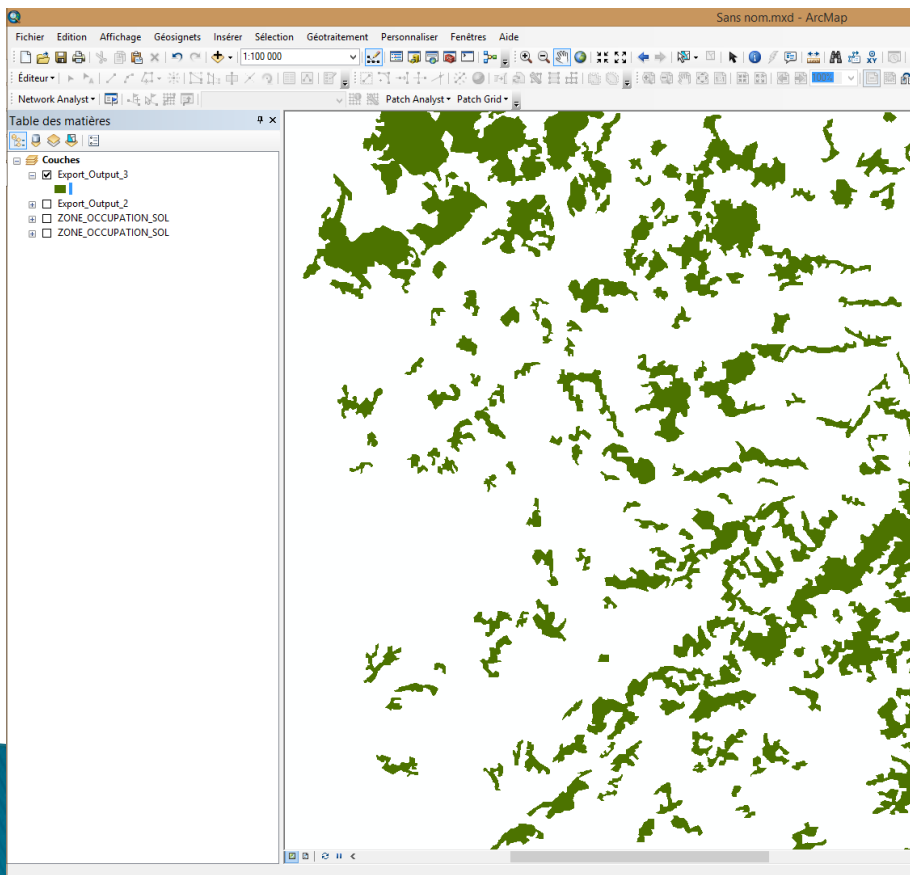
FID	Shape*	ID	NATURE	AREA
0	Polygone	BDC_OCS_0000000019593700	Prairie	32066,008805
1	Polygone	BDC_OCS_0000000019593635	Eau libre	1981,451382
2	Polygone	BDC_OCS_0000000019592193	Forêt	2478,520032
3	Polygone	BDC_OCS_0000000019592169	Bâti	560,941156
4	Polygone	BDC_OCS_0000000019590871	Bâti	2259,03692
5	Polygone	BDC_OCS_0000000019590863	Forêt	1728,61768
6	Polygone	BDC_OCS_0000000019590842	Forêt	251,773882
7	Polygone	BDC_OCS_0000000019590839	Broussailles	94,830126
8	Polygone	BDC_OCS_0000000019590829	Forêt	8038,270248
9	Polygone	BDC_OCS_0000000019590828	Prairie	62,334844
10	Polygone	BDC_OCS_0000000019590827	Forêt	767,094247
11	Polygone	BDC_OCS_0000000019590826	Forêt	20,078907
12	Polygone	BDC_OCS_0000000019590825	Forêt	61,069857
13	Polygone	BDC_OCS_0000000019590824	Forêt	113,208719
14	Polygone	BDC_OCS_0000000019590823	Bâti	31,886855
15	Polygone	BDC_OCS_0000000019590822	Forêt	299,276769
16	Polygone	BDC_OCS_0000000019590819	Forêt	546,557648
17	Polygone	BDC_OCS_0000000019590818	Forêt	718,921226
18	Polygone	BDC_OCS_0000000019590817	Zone d'activités	235,412672
19	Polygone	BDC_OCS_0000000019590816	Vigne, verger	153,083376
20	Polygone	BDC_OCS_0000000019590815	Bâti	20,259948
21	Polygone	BDC_OCS_0000000019590814	Bâti	236,868107
22	Polygone	BDC_OCS_0000000019590812	Bâti	27,232945
23	Polygone	BDC_OCS_0000000019590811	Forêt	267,553157
24	Polygone	BDC_OCS_0000000019590810	Forêt	27,09614
25	Polygone	BDC_OCS_0000000019590809	Vigne, verger	118,853341
26	Polygone	BDC_OCS_0000000019590807	Prairie	281,593476
27	Polygone	BDC_OCS_0000000019590806	Vigne, verger	245,58124
28	Polygone	BDC_OCS_0000000019590805	Forêt	129,162726
29	Polygone	BDC_OCS_0000000019590803	Forêt	67,573319
30	Polygone	BDC_OCS_0000000019590801	Eau libre	51,510601
31	Polygone	BDC_OCS_0000000019590799	Vigne, verger	225,626793
32	Polygone	BDC_OCS_0000000019590798	Vigne, verger	78,240998
33	Polygone	BDC_OCS_0000000019590797	Forêt	279,508299
34	Polygone	BDC_OCS_0000000019590796	Vigne, verger	62,349882
35	Polygone	BDC_OCS_0000000019590794	Bâti	322,895163
36	Polygone	BDC_OCS_0000000019590793	Vigne, verger	71,986635
37	Polygone	BDC_OCS_0000000019590792	Vigne, verger	90,429593
38	Polygone	BDC_OCS_0000000019590791	Forêt	78,488667
39	Polygone	BDC_OCS_0000000019590790	Bâti	62,293009
40	Polygone	BDC_OCS_0000000019590785	Prairie	69,424436
41	Polygone	BDC_OCS_0000000019589412	Prairie	28333,945687
42	Polygone	BDC_OCS_0000000019589347	Prairie	26192,370695
43	Polygone	BDC_OCS_0000000019589346	Forêt	61,989506
44	Polygone	BDC_OCS_0000000019589345	Forêt	1088,429613
45	Polygone	BDC_OCS_0000000019589341	Forêt	84,336098

(0 sur 1427 sélectionnés)

Export_Output

Exemple de traitements

Divers Calculs : *AREA 1 class*



Table

Export_Output_3

FID	Shape *	ID	NATURE	AREA	PERIMETER	PARA
0	Polygone	BDC_OCS_0000000019592193	Forêt	2478,520032	44217,792143	17,840401
1	Polygone	BDC_OCS_0000000019590863	Forêt	1728,81768	48337,587585	27,95991
2	Polygone	BDC_OCS_0000000019590842	Forêt	251,773882	8426,353891	33,467943
3	Polygone	BDC_OCS_0000000019590829	Forêt	8038,270248	252695,767546	31,436585
4	Polygone	BDC_OCS_0000000019590827	Forêt	767,094247	47253,687818	61,600889
5	Polygone	BDC_OCS_0000000019590826	Forêt	20,078907	1819,521827	90,618568
6	Polygone	BDC_OCS_0000000019590825	Forêt	61,069857	4546,247184	74,443389
7	Polygone	BDC_OCS_0000000019590824	Forêt	113,208719	4948,577616	43,711983
8	Polygone	BDC_OCS_0000000019590822	Forêt	299,276769	10217,906097	34,141995
9	Polygone	BDC_OCS_0000000019590819	Forêt	546,557648	19235,357829	35,193649
10	Polygone	BDC_OCS_0000000019590818	Forêt	718,921226	25199,928585	35,05242
11	Polygone	BDC_OCS_0000000019590811	Forêt	267,553157	10050,107118	37,563033
12	Polygone	BDC_OCS_0000000019590810	Forêt	27,09614	1904,998594	70,305164
13	Polygone	BDC_OCS_0000000019590805	Forêt	129,182726	4985,35275	38,591481
14	Polygone	BDC_OCS_0000000019590803	Forêt	67,575319	2790,682793	41,297367
15	Polygone	BDC_OCS_0000000019590797	Forêt	279,508299	10472,450068	37,467403
16	Polygone	BDC_OCS_0000000019590791	Forêt	78,498667	4950,531808	63,06517
17	Polygone	BDC_OCS_0000000019589346	Forêt	61,989506	1998,370862	32,237245
18	Polygone	BDC_OCS_0000000019589345	Forêt	1088,429613	39077,747755	35,902871
19	Polygone	BDC_OCS_0000000019589341	Forêt	84,336908	3959,754182	46,952068
20	Polygone	BDC_OCS_0000000019589338	Forêt	187,437474	9528,995716	50,838264
21	Polygone	BDC_OCS_0000000019589334	Forêt	273,070928	11419,601178	41,819176
22	Polygone	BDC_OCS_0000000019589333	Forêt	365,276789	19382,995396	52,790092
23	Polygone	BDC_OCS_0000000019589324	Forêt	32,764991	1931,561366	58,951988
24	Polygone	BDC_OCS_0000000019589318	Forêt	29,783326	2145,684502	72,043145
25	Polygone	BDC_OCS_0000000019589315	Forêt	789,506283	36040,901343	45,649923
26	Polygone	BDC_OCS_0000000019587675	Forêt	24,890078	2089,779941	83,960363
27	Polygone	BDC_OCS_0000000019587674	Forêt	45,451574	3403,923533	74,891213
28	Polygone	BDC_OCS_0000000019587673	Forêt	23,97174	1801,21624	75,139153
29	Polygone	BDC_OCS_0000000019587669	Forêt	20,031405	1553,781996	77,5673
30	Polygone	BDC_OCS_0000000019587668	Forêt	19,831547	1227,690841	61,905953
31	Polygone	BDC_OCS_0000000019587667	Forêt	25,519934	2046,701371	80,200103
32	Polygone	BDC_OCS_0000000019587664	Forêt	33,085735	2317,578719	70,047672
33	Polygone	BDC_OCS_0000000019587663	Forêt	102,503582	4172,938313	40,710171
34	Polygone	BDC_OCS_0000000019587662	Forêt	116,063922	4664,95845	40,19301
35	Polygone	BDC_OCS_0000000019587661	Forêt	173,423857	7970,767901	45,961196
36	Polygone	BDC_OCS_0000000019587658	Forêt	64,522372	2901,269233	44,965322
37	Polygone	BDC_OCS_0000000019587657	Forêt	25,454261	2215,860076	87,052618
38	Polygone	BDC_OCS_0000000019587656	Forêt	939,574873	28087,614803	29,893961
39	Polygone	BDC_OCS_0000000019587655	Forêt	42,678087	3149,214786	73,789971
40	Polygone	BDC_OCS_0000000019587654	Forêt	19,751661	1448,002275	73,310406
41	Polygone	BDC_OCS_0000000019587653	Forêt	98,18295	4787,428755	48,760287
42	Polygone	BDC_OCS_0000000019587652	Forêt	27,539431	1295,046743	47,025181
43	Polygone	BDC_OCS_0000000019587651	Forêt	23,816998	1629,925518	68,43539
44	Polygone	BDC_OCS_0000000019587650	Forêt	62,334343	3061,801588	49,119016
45	Polygone	BDC_OCS_0000000019587649	Forêt	28,340206	1825,934143	64,429106

(0 sur 607 sélectionnés)

Exemple de traitements

Divers Calculs : *PERIMETER*



FID	Shape *	ID	NATURE	AREA	PERIMETER
0	Polygone	BDC_OCS_0000000019593700	Prairie	32066,008805	576383,600209
1	Polygone	BDC_OCS_0000000019593635	Eau libre	1981,451382	63760,431414
2	Polygone	BDC_OCS_0000000019592193	Forêt	2478,520032	44217,792143
3	Polygone	BDC_OCS_0000000019592169	Bâti	560,941156	11120,568026
4	Polygone	BDC_OCS_0000000019590871	Bâti	2259,03692	62139,038183
5	Polygone	BDC_OCS_0000000019590863	Forêt	1728,81768	48337,587585
6	Polygone	BDC_OCS_0000000019590842	Forêt	251,773882	8426,353891
7	Polygone	BDC_OCS_0000000019590839	Broussailles	94,830126	3811,235824
8	Polygone	BDC_OCS_0000000019590829	Forêt	8038,270248	252695,767546
9	Polygone	BDC_OCS_0000000019590828	Prairie	62,334844	2394,926952
10	Polygone	BDC_OCS_0000000019590827	Forêt	767,094247	47253,687818
11	Polygone	BDC_OCS_0000000019590826	Forêt	20,078907	1819,521827
12	Polygone	BDC_OCS_0000000019590825	Forêt	61,069857	4546,247184
13	Polygone	BDC_OCS_0000000019590824	Forêt	113,208719	4948,577616
14	Polygone	BDC_OCS_0000000019590823	Bâti	31,886855	2755,396054
15	Polygone	BDC_OCS_0000000019590822	Forêt	299,276769	10217,906097
16	Polygone	BDC_OCS_0000000019590819	Forêt	546,557648	19235,357829
17	Polygone	BDC_OCS_0000000019590818	Forêt	718,921226	25199,928585
18	Polygone	BDC_OCS_0000000019590817	Zone d'activités	235,412672	10683,14886
19	Polygone	BDC_OCS_0000000019590816	Vigne, verger	153,083376	6782,006996
20	Polygone	BDC_OCS_0000000019590815	Bâti	20,259948	1626,41837
21	Polygone	BDC_OCS_0000000019590814	Bâti	236,868107	5462,555349
22	Polygone	BDC_OCS_0000000019590812	Bâti	27,232945	1553,530005
23	Polygone	BDC_OCS_0000000019590811	Forêt	267,553157	10050,107118
24	Polygone	BDC_OCS_0000000019590810	Forêt	27,09614	1904,998594
25	Polygone	BDC_OCS_0000000019590809	Vigne, verger	118,853341	4256,322479
26	Polygone	BDC_OCS_0000000019590807	Prairie	281,593476	9890,087086
27	Polygone	BDC_OCS_0000000019590806	Vigne, verger	245,58124	7276,855128
28	Polygone	BDC_OCS_0000000019590805	Forêt	129,182726	4985,35275
29	Polygone	BDC_OCS_0000000019590803	Forêt	67,575319	2790,682793
30	Polygone	BDC_OCS_0000000019590801	Eau libre	51,510601	2281,516581
31	Polygone	BDC_OCS_0000000019590799	Vigne, verger	225,626793	7842,336388
32	Polygone	BDC_OCS_0000000019590798	Vigne, verger	78,240998	2595,06015
33	Polygone	BDC_OCS_0000000019590797	Forêt	279,508299	10472,450068
34	Polygone	BDC_OCS_0000000019590796	Vigne, verger	62,349882	3599,435432
35	Polygone	BDC_OCS_0000000019590794	Bâti	322,895163	10476,642525
36	Polygone	BDC_OCS_0000000019590793	Vigne, verger	71,986635	4705,898095
37	Polygone	BDC_OCS_0000000019590792	Vigne, verger	90,429593	3209,28731
38	Polygone	BDC_OCS_0000000019590791	Forêt	78,498667	4950,531808
39	Polygone	BDC_OCS_0000000019590790	Bâti	62,293009	3344,763884
40	Polygone	BDC_OCS_0000000019590785	Prairie	69,424436	3016,481928
41	Polygone	BDC_OCS_0000000019589412	Prairie	28333,945687	284851,78871
42	Polygone	BDC_OCS_0000000019589347	Prairie	26192,370695	348500,191361
43	Polygone	BDC_OCS_0000000019589346	Forêt	61,989506	1998,370862
44	Polygone	BDC_OCS_0000000019589345	Forêt	1088,429613	39077,747755
45	Polygone	BDC_OCS_0000000019589341	Forêt	84,336098	3959,754182

Exemple de traitements

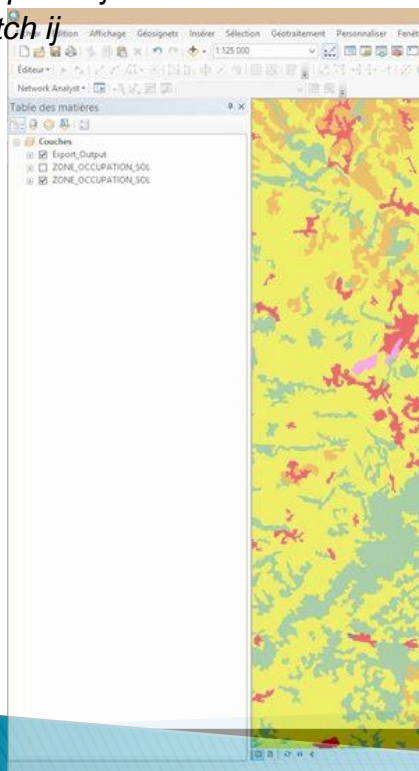


Divers Calculs : *PARA*

$$\text{Perimeter-Area Ratio } \text{PARA} = \frac{P_{ij}}{a_{ij}}$$

P_{ij} = perimeter (m) of patch ij

a_{ij} = area (m²) of patch ij

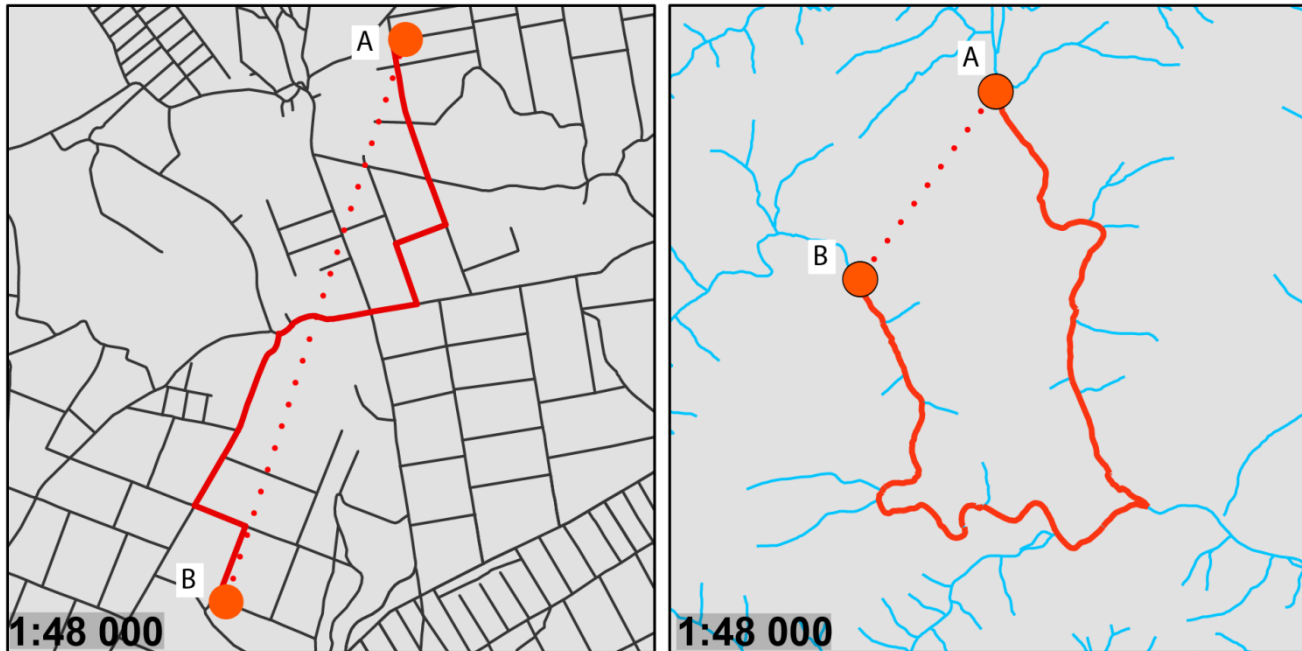


ID	NATURE	AREA	PERIMETER	PARA
BDC_OCS_0000000019593700	Prairie	32066.008805	576383.600209	17.974909
BDC_OCS_0000000019593635	Eau libre	1981.451382	63760.431414	32.17865
BDC_OCS_0000000019592193	Forêt	2478.520032	44217.792143	17.840401
BDC_OCS_0000000019592169	Bâti	560.941156	11120.568026	19.824839
BDC_OCS_0000000019590871	Bâti	2259.03692	62139.038183	27.506871
BDC_OCS_0000000019590863	Forêt	1728.81768	48337.587585	27.95991
BDC_OCS_0000000019590842	Forêt	251.773882	8426.353891	33.467943
BDC_OCS_0000000019590839	Broussailles	94.830126	3811.235824	40.190138
BDC_OCS_0000000019590829	Forêt	8038.270248	252695.767546	31.436585
BDC_OCS_0000000019590828	Prairie	62.334844	62.334844	38.420357
BDC_OCS_0000000019590827	Forêt	767.094247	47253.687818	61.600889
BDC_OCS_0000000019590826	Forêt	20.078907	1819.521827	90.618568
BDC_OCS_0000000019590825	Forêt	61.069857	4546.247184	74.443389
BDC_OCS_0000000019590824	Forêt	113.208719	4948.577616	43.711983
BDC_OCS_0000000019590823	Bâti	31.886855	2755.396054	86.411659
BDC_OCS_0000000019590822	Forêt	299.276769	10217.906097	34.141995
BDC_OCS_0000000019590819	Forêt	546.557648	19235.357829	35.193649
BDC_OCS_0000000019590818	Forêt	718.921226	25199.928585	35.05242
BDC_OCS_0000000019590817	Zone d'activités	235.412672	10683.14686	45.380509
BDC_OCS_0000000019590816	Vigne, verger	153.083376	6782.006996	44.302701
BDC_OCS_0000000019590815	Bâti	20.259948	1626.41837	80.27752
BDC_OCS_0000000019590814	Bâti	236.868107	5462.555349	23.061591
BDC_OCS_0000000019590812	Bâti	27.232945	1553.530005	57.045978
BDC_OCS_0000000019590811	Forêt	267.553157	10050.107118	37.56303
BDC_OCS_0000000019590810	Forêt	27.09614	1904.998594	70.305164
BDC_OCS_0000000019590809	Vigne, verger	118.853341	4256.322479	35.811551
BDC_OCS_0000000019590807	Prairie	281.593476	8860.087066	31.464106
BDC_OCS_0000000019590806	Vigne, verger	245.58124	7276.855128	29.631152
BDC_OCS_0000000019590805	Forêt	129.182726	4985.35275	38.591481
BDC_OCS_0000000019590803	Forêt	67.575319	2790.682793	41.297367
BDC_OCS_0000000019590801	Eau libre	51.510601	2281.516581	44.292176
BDC_OCS_0000000019590799	Vigne, verger	225.626793	7842.336388	34.758001
BDC_OCS_0000000019590798	Vigne, verger	78.240998	2595.06015	33.167524
BDC_OCS_0000000019590797	Forêt	279.508299	10472.450068	37.467403
BDC_OCS_0000000019590796	Vigne, verger	62.349882	3599.435432	57.729627
BDC_OCS_0000000019590794	Bâti	322.895163	10476.642525	32.445957
BDC_OCS_0000000019590793	Vigne, verger	71.986635	4705.989095	65.371831
BDC_OCS_0000000019590792	Vigne, verger	90.429593	3209.28731	35.489348
BDC_OCS_0000000019590791	Forêt	78.498667	4950.531808	63.06517
BDC_OCS_0000000019590790	Bâti	62.293009	3344.763884	53.694049
BDC_OCS_0000000019590785	Prairie	69.424436	3016.481928	43.449859
BDC_OCS_0000000019589412	Prairie	28333.945687	284851.78871	10.053375
BDC_OCS_0000000019589347	Prairie	26192.370695	348500.191361	13.305408
BDC_OCS_0000000019589346	Forêt	61.989506	1998.370862	32.237245
BDC_OCS_0000000019589345	Forêt	1088.429613	39077.747755	35.902871

Exemple de traitements



Distance à un point – prise en compte du réseau



- | | |
|-----------------------|--------------------------------|
| Réseau routier | Plus court chemin (par réseau) |
| Réseau hydrographique | Chemin euclidien |

Exemple de traitements

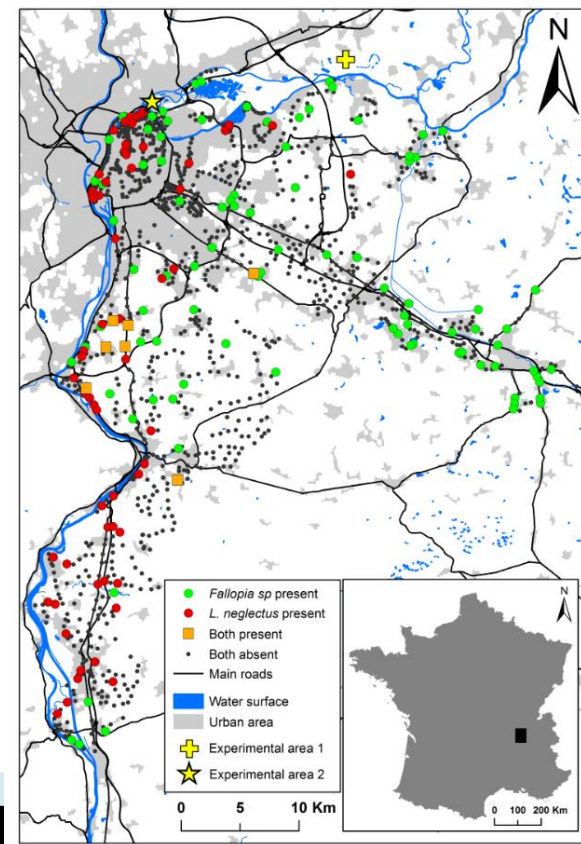
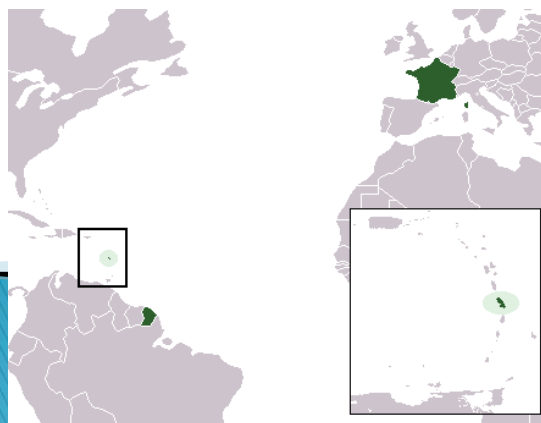
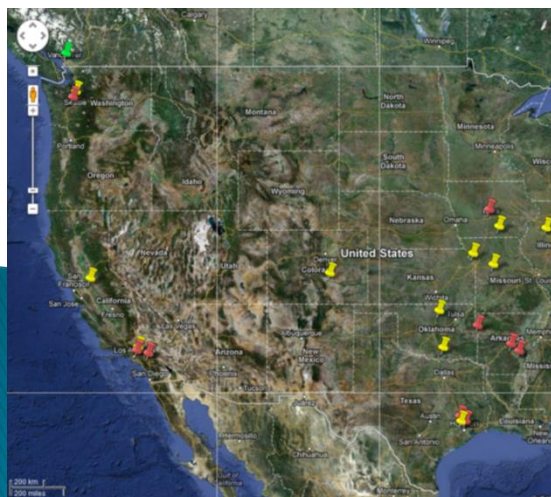
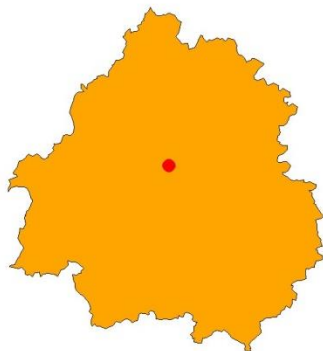
Carte de localisation

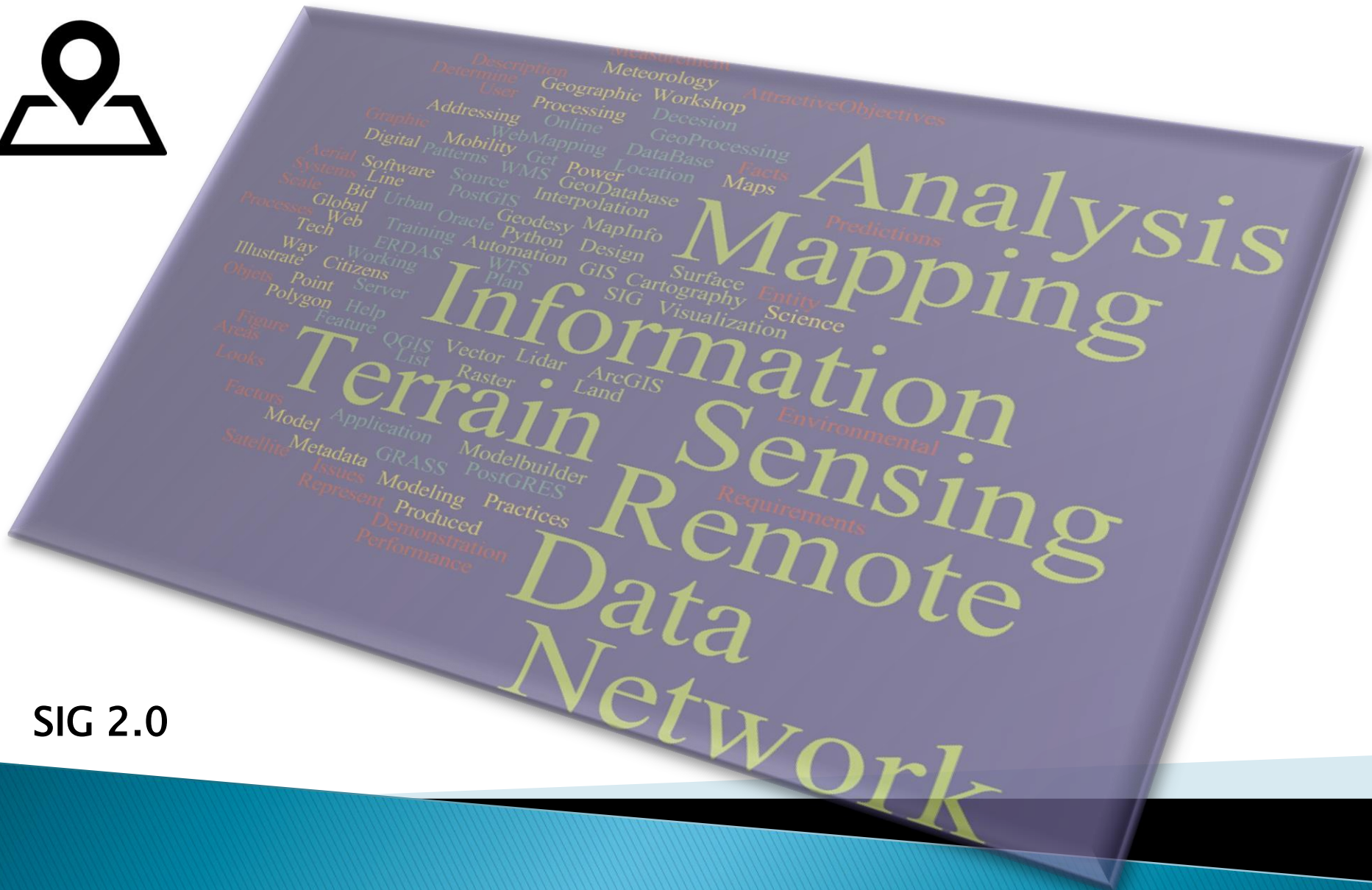


Localisation de la dordogne



Localisation du site en Dordogne

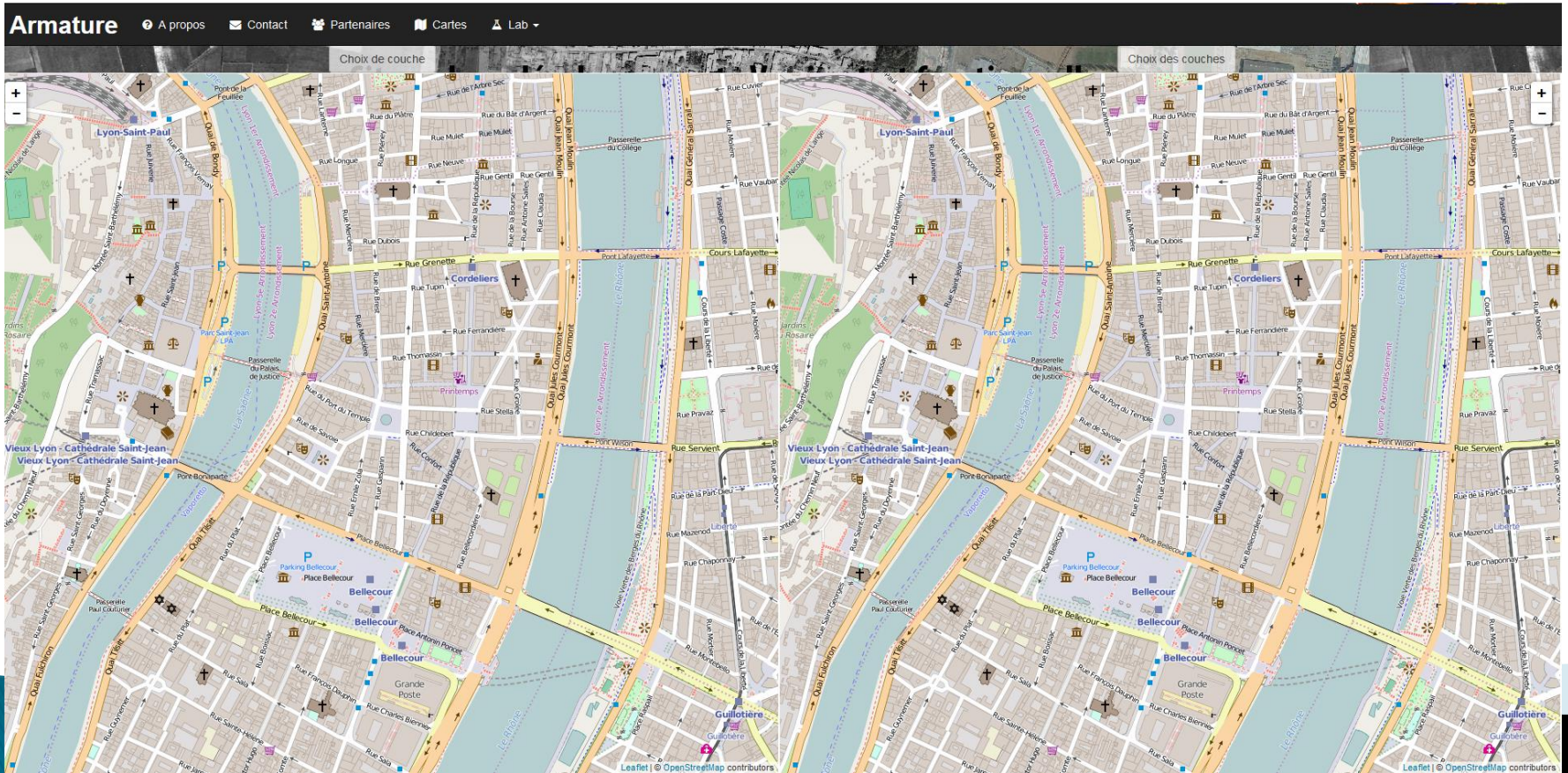




SIG 2.0

SIG 2.0

Webmapping



SIG 2.0

Webmapping



Armature [A propos](#) [Contact](#) [Partenaires](#) [Cartes](#) [Lab](#)

Ant Map
J. Gippet / A. Bellec

Zoom and pan around the map to discover ants locations. Use the bottom gallery slider to view user images (soon - in dev).

Click on images to obtain location information

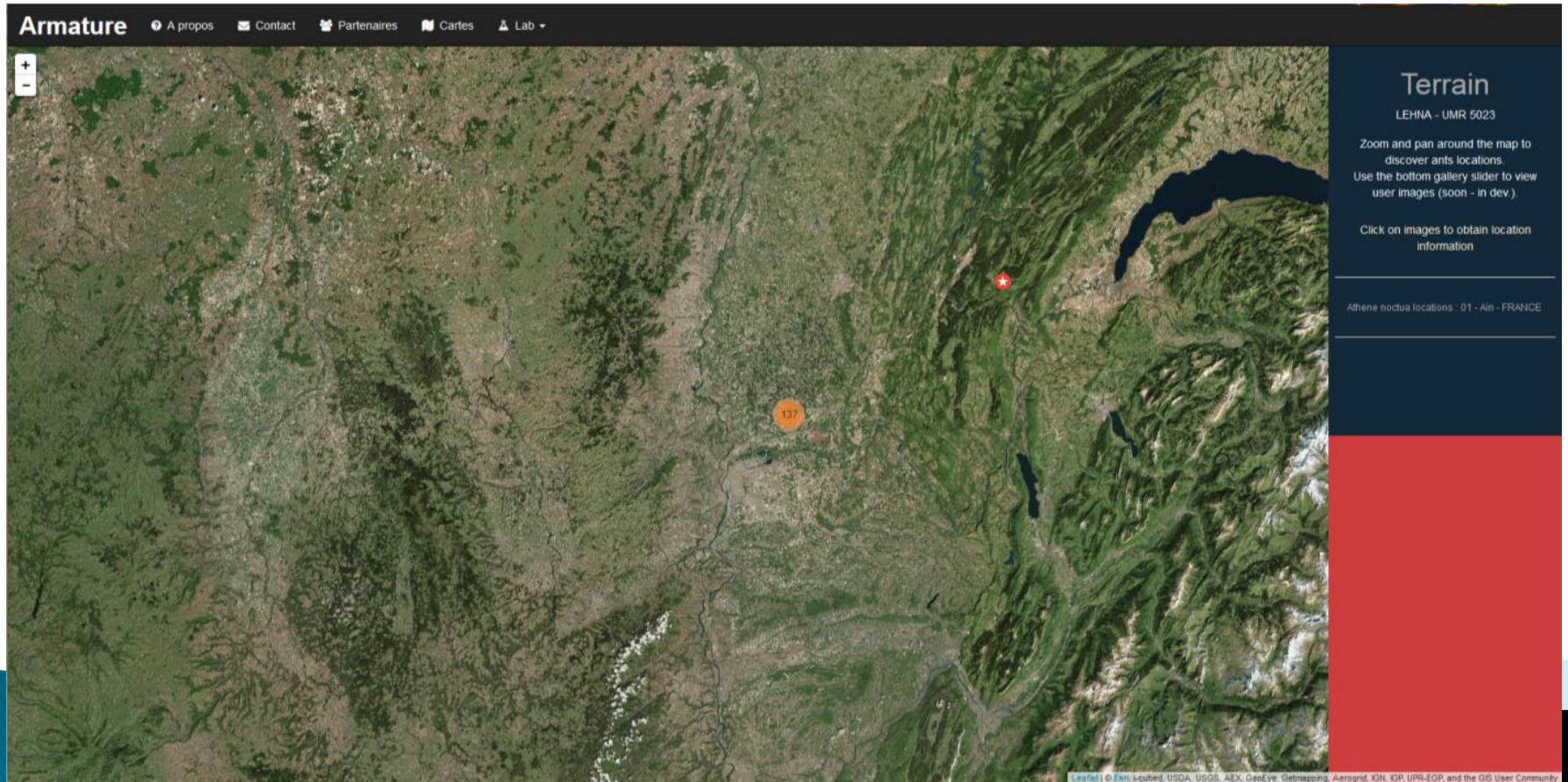
Dans l'idée, là tu as quelques lignes (quelques justes!!) pour écrire le pourquoi des points. En anglais STP :-)

bt bt bt bt bt bt bt
bt bt bt bt bt bt bt
bt bt bt bt bt bt bt

Leaflet | © OpenStreetMap contributors

SIG 2.0

Webmapping



Armature A propos Contact Partenaires Cartes Lab

Terrain

LEHNA - UMR 5023

Zoom and pan around the map to discover ants locations. Use the bottom gallery slider to view user images (soon - in dev).

Click on images to obtain location information

Athrena noctua locations : 01 - Ain - FRANCE

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