



## Spatial Data Infrastructures Session

**GIE SERAIL : a unique model of collaboration and pooling**

**Presentation of the data infrastructure – SERAIL platform**



Fabien CAPRI – GIE SERAIL Manager – [capri.serail@canl.nc](mailto:capri.serail@canl.nc)



## REGIONAL AUTHORITIES

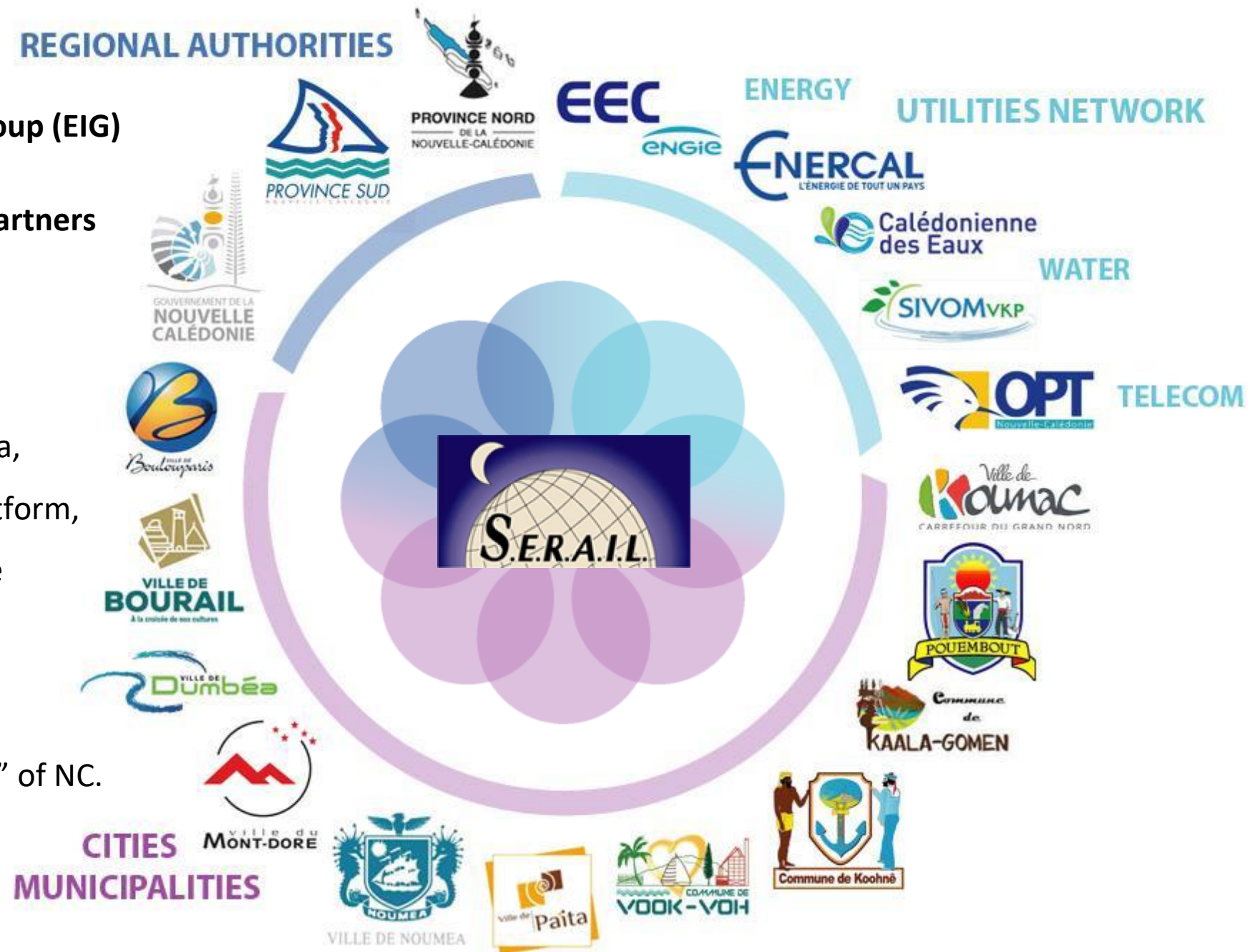
**GIE SERAIL is an Economic Interest Group (EIG)**  
founded in 1994.

It is composed of **11 members** and **8 partners** that come from both the private and the public sector.

Its objectives are :

- . to produce reference geographic data,
- . to provide an automated sharing platform,
- . to develop software tools to visualize and manage data.

He is a member of the “Geomatic Club” of NC.



Real-time updated vector TOPOGRAPHIC DATABASE  
 and DEM (1:500 scale) (Digital Elevation Model) resolution 10m  
 Database updated by photogrammetry (1:2000 scale)  
 and data resolution on the NC government opendata portal  
 and ground surveys (1:500 scale)

## Orthomosaic ✓

**LIDAR** ✓

DTM ✓

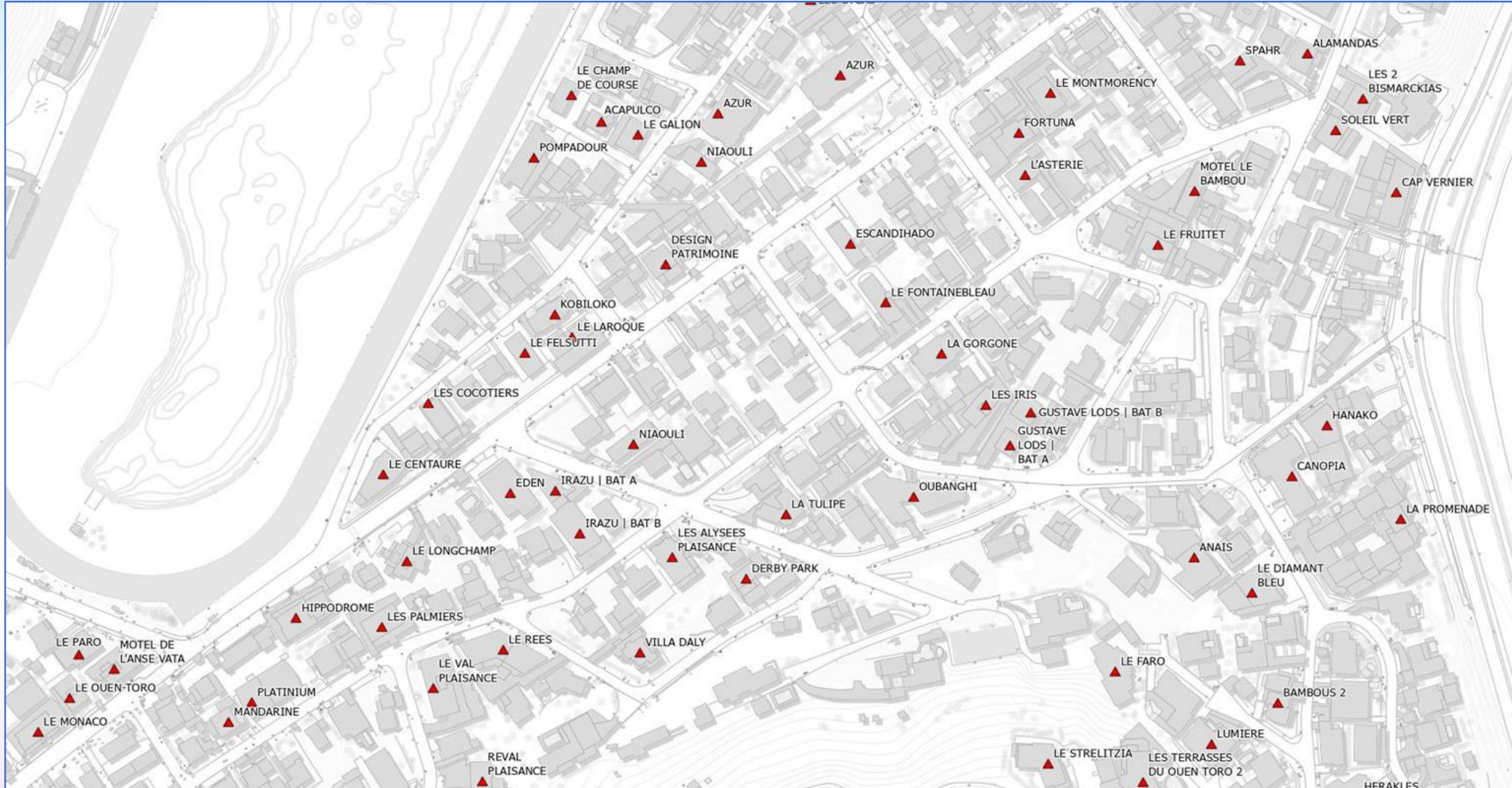
DSM 

**DEM** ✓

3D city ✓

**ATLAS database** ✓

REFIL database ✓





# - SERAIL -

to share  
members  
DATA

Electricity networks - updated every month.

~~Public lighting, drinking water, domestic sewage, stormwater, telecommunications~~ updated every day.

- distribution : medium and low voltage

Parcel ✓

Address ✓

Electricity ✓

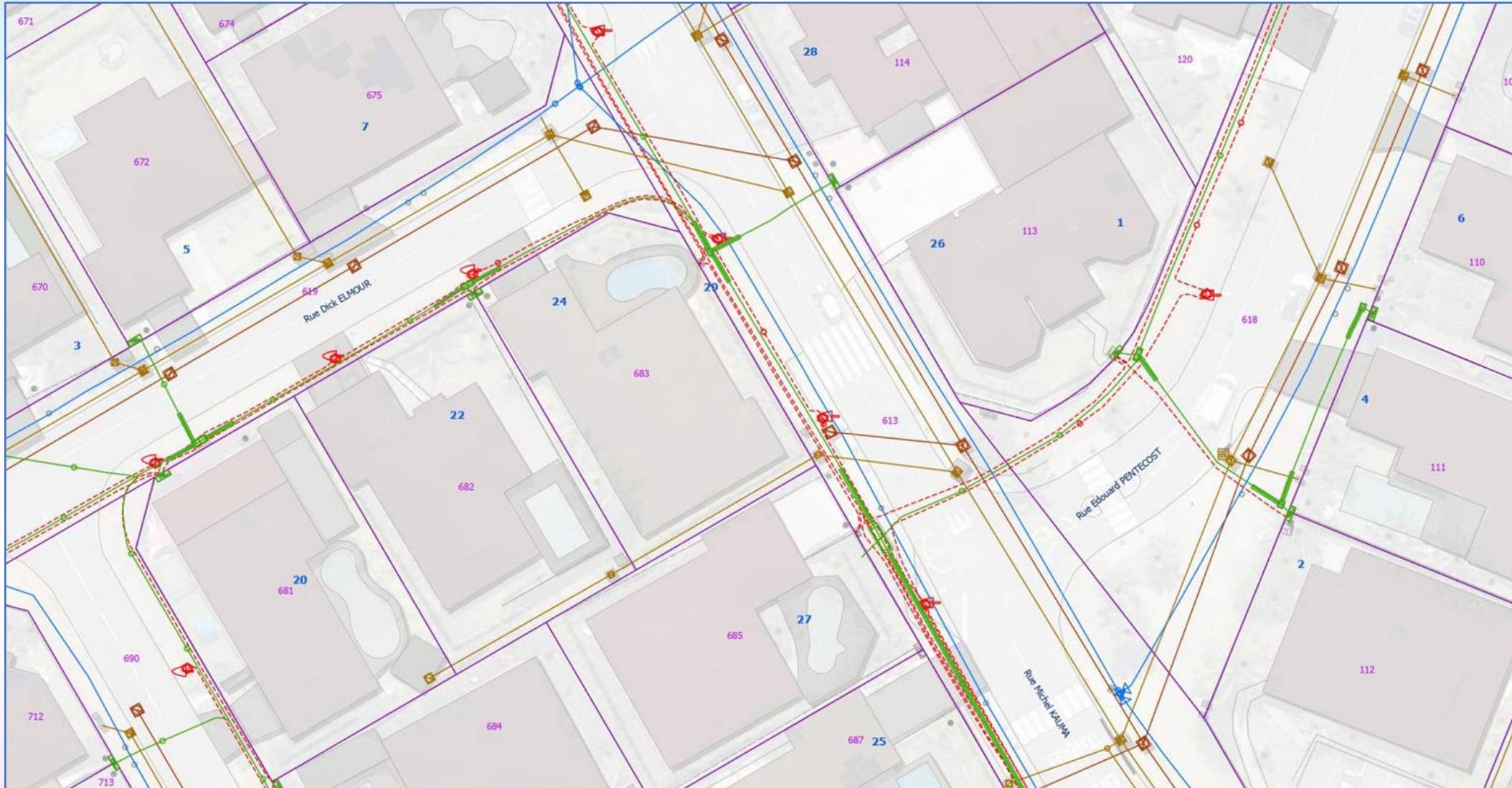
Public lighting ✓

Drinking water ✓

Domestic sewage ✓

Stormwater ✓

Telecommunication ✓





These data are categorized as **dynamic data** (données dynamiques).  
They are the property of the Group, hierarchy, process and share data.

Data are available in **native** (design) and **exchange** (AutoCAD) formats.  
Processes are automated, data is signed by developer. Dashboard to monitor them.

Topographic database ✓

Orthomosaic ✓

LIDAR ✓

DTM ✓

DSM ✓

DEM ✓

3D city ✓

Atlas database ✓

Refil database ✓

Parcel ✓

Address ✓

Electricity ✓

Public lighting ✓

Drinking water ✓

Domestic sewage ✓

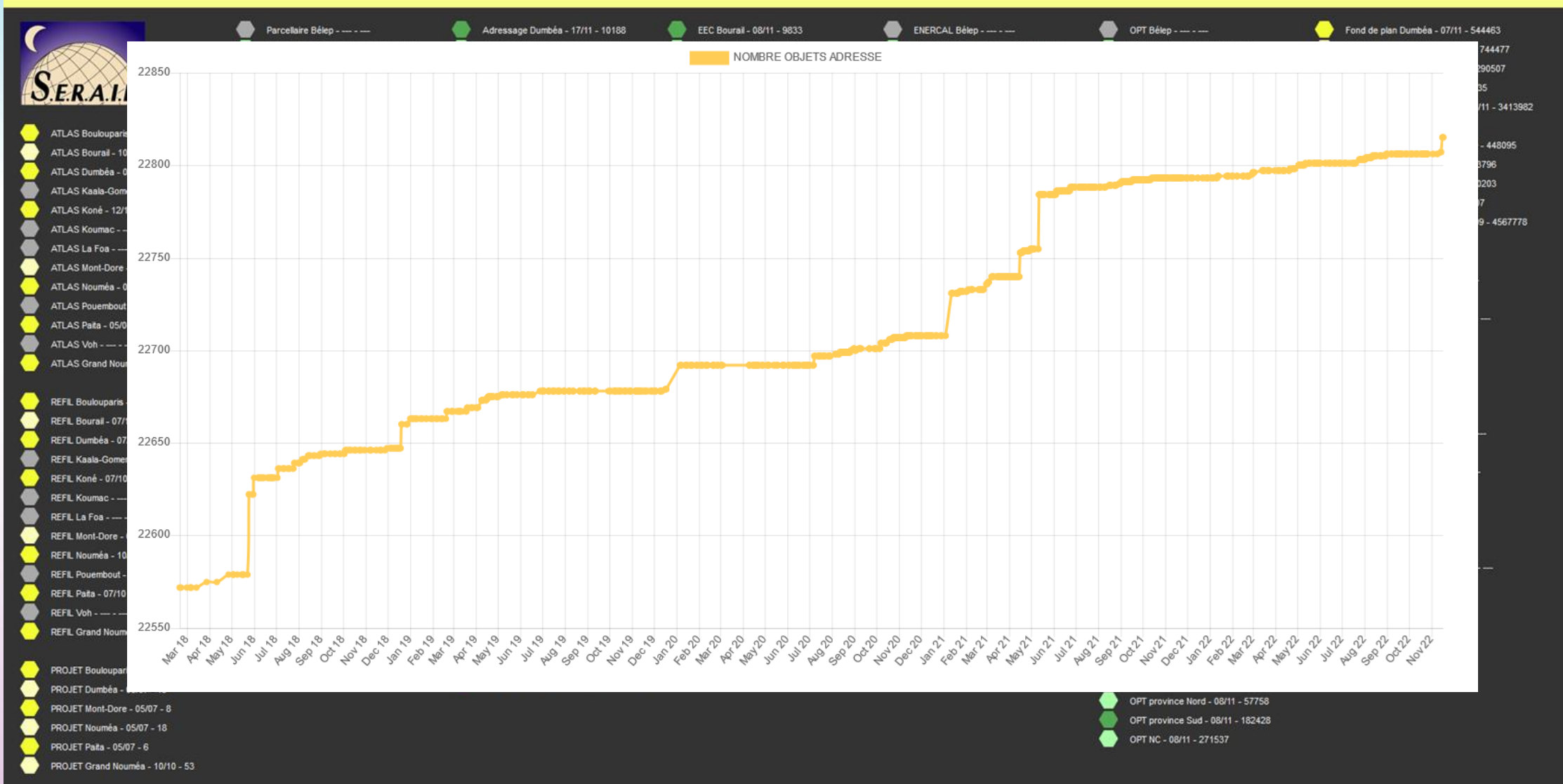
Stormwater ✓

Telecommunication ✓





The Dashboard is a web supervision tool.  
It allows to identify integration errors and to visualize the evolution of the data.  
Each cell represents a dataset for a specific geographic area.



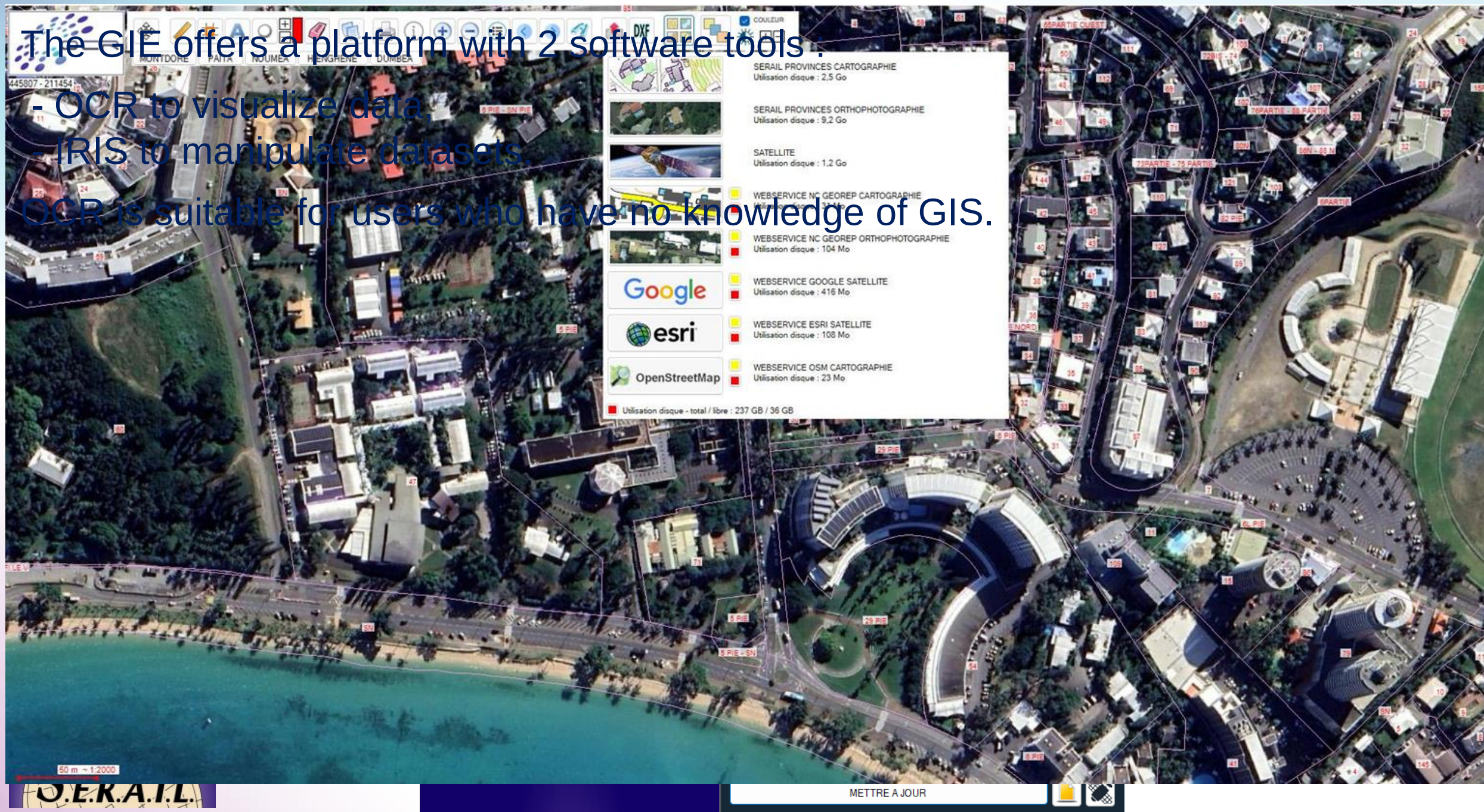




The GIE offers a platform with 2 software tools :

- OCR to visualize data,
- IRIS to manipulate datasets.

OCR is suitable for users who have no knowledge of GIS.





IRIS allows you to download the complete datasets to be able to use them in your favorite GIS or Autocad.

All server datasets are zipped and encrypted (AES 128).

AREA

FORMAT

UPDATE DATE

DATASETS

FOLDER DESTINATION

DATASETS	UPDATE DATE	FORMAT
<input type="checkbox"/> ADRESSAGE	25/01/2022	17/11/2022
<input type="checkbox"/> ASSEMBLAGE SERAIL	11/10/2021	07/11/2022
<input type="checkbox"/> ATLAS	18/11/2022	04/10/2022
<input type="checkbox"/> FOND PLAN SERAIL	11/10/2021	07/11/2022
<input type="checkbox"/> PARCELLAIRE	03/01/2022	15/11/2022
<input type="checkbox"/> RESEAU EAU POTABLE CDE	18/11/2022	08/11/2022
<input type="checkbox"/> RESEAU ASSAINISSEMENT CDE	18/11/2022	08/11/2022
<input type="checkbox"/> RESEAU ELEC EEC	18/11/2022	08/11/2022
<input type="checkbox"/> RESEAU ELEC ENERCAL	18/11/2022	08/11/2022
<input type="checkbox"/> RESEAU TELECOM OPT	18/11/2022	08/11/2022
<input type="checkbox"/> REFIL	18/11/2022	10/11/2022
<input type="checkbox"/> RESEAU ECLAIRAGE PUBLIC NEA	18/11/2022	08/11/2022
<input type="checkbox"/> PROJET	11/10/2021	05/07/2022
<input type="checkbox"/> RESEAU EAU PLUVIALE NEA	18/11/2022	08/11/2022

C:\Temp\A SUPPRIMER

GO

Sever de coupures DXF



All these data are identified via the NEIGe standard.

<https://www.serail.nc/SERAIL/SITEWEB/NEIGE/index.php>

Template file

Web<sup>v</sup>Control Tool

v

[https://www.serail.nc/SERAIL/SITEWEB/PHP/CONTROLENEIGE/ANALYSE\\_NEIGE.php](https://www.serail.nc/SERAIL/SITEWEB/PHP/CONTROLENEIGE/ANALYSE_NEIGE.php)

3.1.36	A-STEP	STATION D'EPURATION	✓					+	A-STEP	J5	
3.1.37	A-JONCT	BOITE DE JONCTION ELECTRIQUE DEDIEE AUX OUVRAGES D'ASSAINISSEMENT	✓				Objet	+	A-JONCT	J5	
3.1.38	A-CABLE	CABLE ELECTRIQUE DEDIE AUX OUVRAGES D'ASSAINISSEMENT	✓					+			
DONNEES DU RESEAU D'ASSAINISSEMENT											
NUMERO	CALQUE	LIBELLE	T	A	R	E	Z	PRIMITIVE	BLOC	INSERT	FICHE
3.1.39	A-SCHEMA	REPRESENTATION SCHEMATIQUE			✓	✓					
3.1.40	A-DONNEE	DONNEES DU RESEAU			✓	✓					
3.1.41	A-HABILL	ECRITURES ET HABILLAGES DIVERS			✓	✓					
3.1.42	A-COTREG	COTES DE FOND DE REGARD			✓	✓	Radier	+			
RESEAU D'EAU POTABLE											
CANALISATION											
NUMERO	CALQUE	LIBELLE	T	A	R	E	Z	PRIMITIVE	BLOC	INSERT	FICHE
3.2.1	E-TRONCO	TRONCON			✓	✓	Objet	+			
3.2.2	E-TRODEP	TRONCON ABANDONNE - PAS OBLIGATOIREMENT DEPOSE				✓	Objet	+			
3.2.3	E-BRANCH	BRANCHEMENT			✓	✓	Objet	+			
3.2.4	E-RACCOR	RACCORD			✓	✓	Objet	+	E-RACCOR	J5	
3.2.5	E-FOURR	FOURREAU			✓	✓	Objet	+			
3.2.6	E-DALPRO	DALLE BETONNEE ENTERREE DE PROTECTION DES CONDUITES			✓	✓	Objet	+			
FONTE DE VOIRIE											
NUMERO	CALQUE	LIBELLE	T	A	R	E	Z	PRIMITIVE	BLOC	INSERT	FICHE
3.2.7	E-BOUCLE	BOUCHE A CLEF	✓			✓	Objet	+	E-BOUCLE	J5	
3.2.8	E-REGARD	REGARD	✓			✓	Objet	+	E-REGARD	J1	
3.2.9	E-REGCIR	REGARD CIRCULAIRE	✓			✓	Objet	+	E-REGCIR	J5	
ELEMENT DU RESEAU D'EAU POTABLE											
NUMERO	CALQUE	LIBELLE	T	A	R	E	Z	PRIMITIVE	BLOC	INSERT	FICHE
3.2.10	E-VANNE	VANNE			✓	✓	Objet	+	E-VANNE	J5	
3.2.11	E-REFOUL	REFOULEMENT				✓		+	E-REFOUL	J5	
3.2.12	E-STOCKA	STOCKAGE				✓		+	E-STOCKA	J5	
3.2.13	E-TRAITE	TRAITEMENT				✓		+	E-TRAITE	J5	
3.2.14	E-EXHAUR	EXHAURE				✓		+	E-EXHAUR	J5	
3.2.15	E-COMPTEUR	COMPTEUR D'EAU	✓			✓	Objet	+	E-COMPTEUR	J1	





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