

NoINSPIRE

Addresses with no addresses Machine learning for Urban planning

Marc Leobet

For the French Point of contact

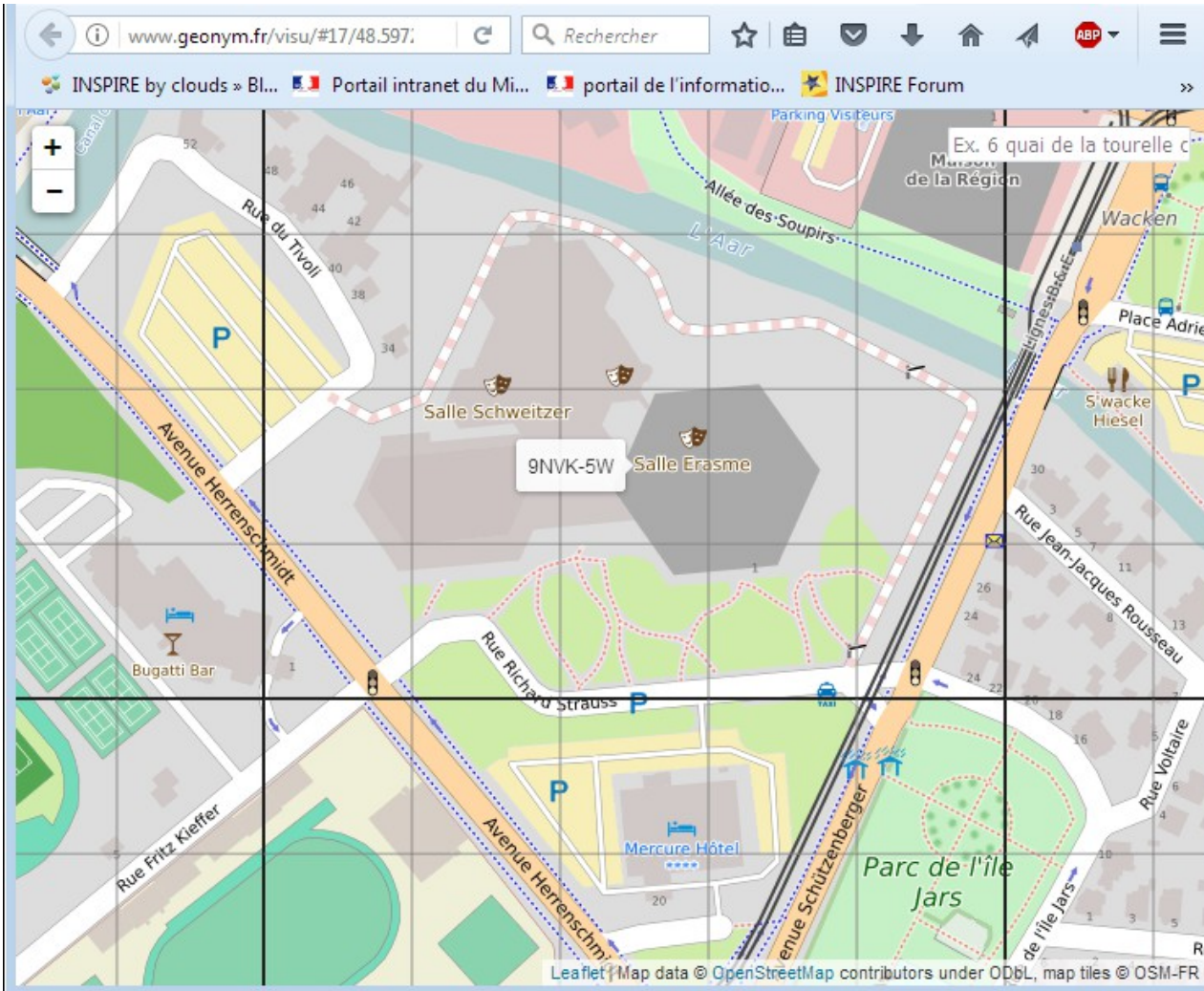
No(t only) INSPIRE

- Thousands spatial datasets, free, standardized, online
- Most of spatial data will be online within three years
- Time to go further
- The « new Frontier » is to answer to users needs
- Two examples :
 - How to deliver services to people in rural (and Amazonian !) areas ?
 - How to speed up building processes ?

Adresses without addresses

- In France, 40 % of the territory has no postal addresses
- How to deliver web-commands ?
 - In France, the cost for bad addressing could be 10 billions euros
- How to link people to broadband internet ?
 - FR Government wants 100 % coverage in 2020
 - No addresses => no subscription...
- An unique ID for building have to be understandable by inhabitants

9NVK-5W



Or 9NVK-5W0

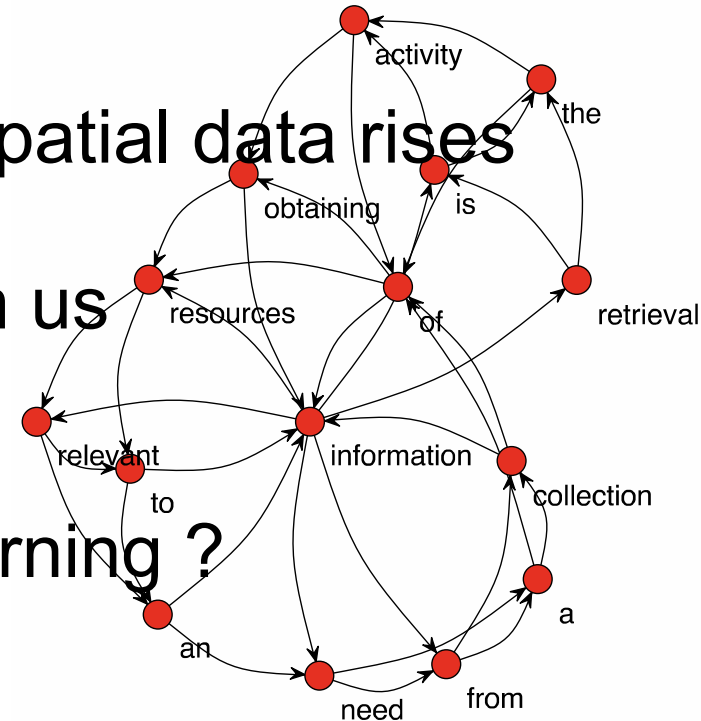


Machine learning, the step after INSPIRE ?

- Urban planning documents are on the web for free
- Standardized with compliant data models
=> hackathon to speed up building process
#HackUrba
- First result : no service without modelisation of urban rules
- Problem : they are in thousands of PDF
- Solution ? AI-like method

Machine learning, the step after INSPIRE ?

- Moreover, the more spatial datasets are available,
- The more the need for non-spatial data rises to manage territories
- Open data policies give them us
- We need AI-like new tools
 - Graph-based Text Mining ?
 - Unsupervised Machine Learning ?
 - Others ?



In “Graph of word approach for ad-hoc information retrieval”,
F. Rousseau, M. Vazirgiannis
Courtesy Michalis Vazirgiannis



Liberté • Égalité • Fraternité
RÉPUBLIQUE FRANÇAISE

MINISTÈRE
DE LA TRANSITION
ÉCOLOGIQUE
ET SOLIDAIRE

Conclusion

- INSPIRE helps to get data through web services
- It opens a higher way to manage territories through algorithms
- That is our « new frontier »



LICENCE OUVERTE
OPEN LICENCE

Geonym, a PoC

- based on Openpostcode
- Under LGPL licence
- <https://github.com/geonym/geonymapi>
- View at <http://www.geonym.fr/visu/>