



Centre GéoStat



A service offered by the Laval University Library

- Pooks, statistics, maps, atlases, geospatial data
- ◆ 30,000 geospatial datasets (over 25 TB)
- Teachers, students, and researchers across the campus

Mission: Facilitate **discovery** and **access** for research and education

The story behind the redesign of GéoIndex+

- June 2010: Beginning of the GéoIndex+ project towards a complete redesign of GéoIndex (2005–2011)
- **♀ 2012** : GéoIndex+ system launched
- 2012 : Award: Innovation 2012 des services documentaires du Québec (presented at various conferences, Montréal, Chicoutimi, Toronto, Winnipeg, Alaska, Switzerland, Sweden)
- 2013–2014 : Signing of agreements with UdeM and UQAM to acquire the GéoIndex+ platform
- 2015 : Signature of an agreement with the City of Montreal to acquire the GéoIndex+ front end

So why "pimping" again?

- August 2015 : Historical agreement between BCI–MERN:
 - 2-year agreement (\$75K/year) is granted to the BCI (to Quebec universities, through their libraries) to use geospatial data produced or disseminated by the Québec government for research and teaching purposes.
 - For the first time, all universities in Quebec could use and share the same core geospatial data: 300 layers, 50 TB.
 - Not all universities have a tool to discover, visualize, and extract all that data.
- In a vision of inter-university collaboration and process and resource sharing, the Laval University (UL) Library has been open to sharing its expertise and know-how in the geospatial field via a shared platform managed by UL and accessible to participating libraries.

The story behind the redesign of GéoIndex+

- March to June 2016: A diagnosis of the GéoIndex+ system recommends the complete redesign in a unified cloud architecture for the BCI-MERN.
- July 2016 to February 2017: The "GéoIndex+ Redesign" project is started in order to design the functional, software, and technical architecture, but also to prepare the project planning to support the BCI-MERN agreement (System Architecture).
- March 2017: Beginning of the GéoIndex+ redesign work (according to a unified system vision to support the BCI–MERN agreement).

Target situation (redesign)

- Correct all irritants
- Make improvements for discovery, consultation, and retrieval
- Make the loading process less restrictive
- Allow the loading of alternative data formats (e.g., geodatabase)
- A cloud-based system that aims to share the management and dissemination of geospatial data
- Adding a management module by institution (metadata, dashboard, report, statistics, etc.)
- Attempt to have a single platform combining GéoIndex+ and GéoPhoto+

The nature of the data

Data shared unilaterally:

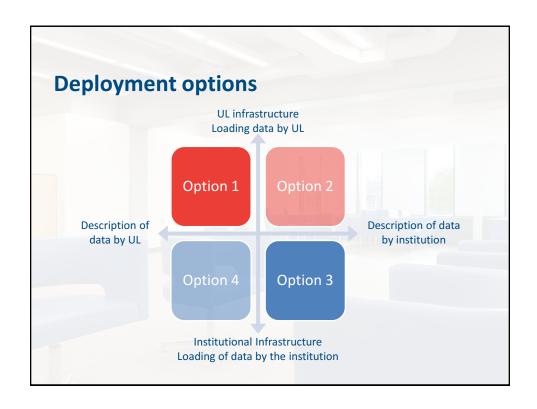
- BCI–MERN Agreement Data
- Other data purchased in BCI consortium from which all institutions benefit
- Data created by an institution and freely accessible

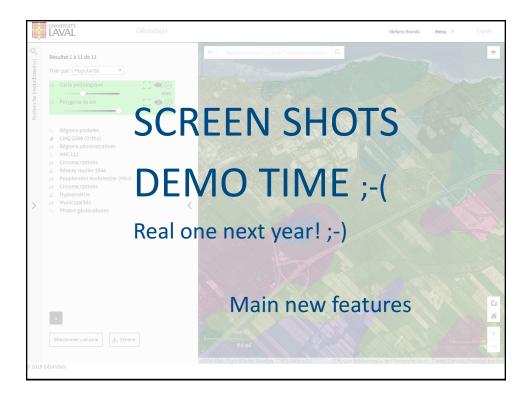
Shared data:

- Data purchased in consortia from which certain institutions benefit
- Data purchased individually by certain institutions and having the same operating licence

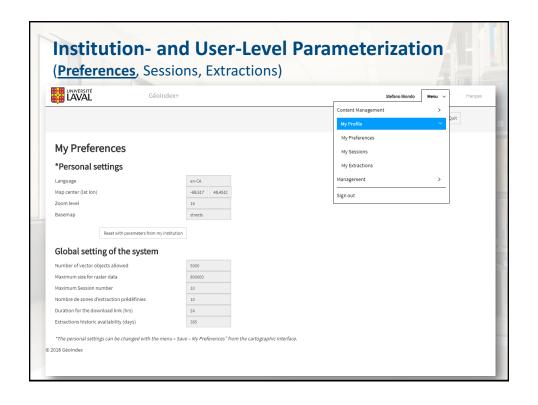
Non-shared (or institution-specific) data:

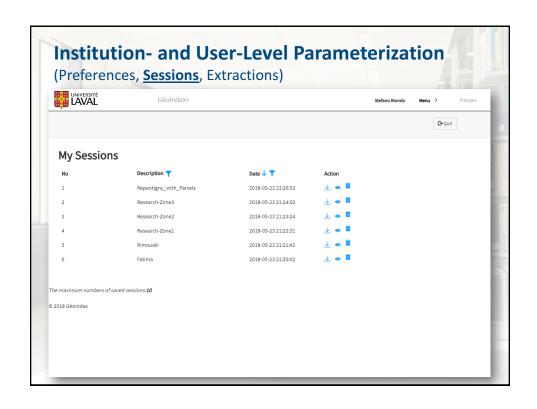
- Institution-specific research data
- Data whose rights are held by a single institution

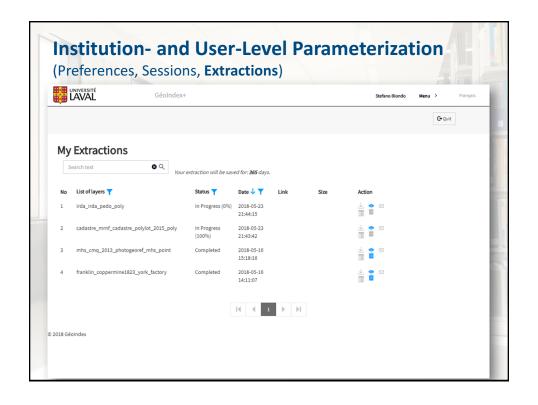


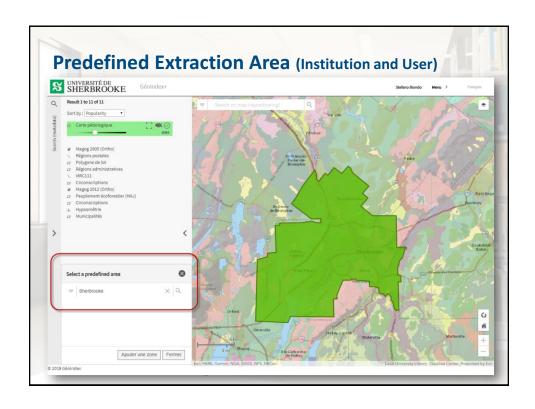


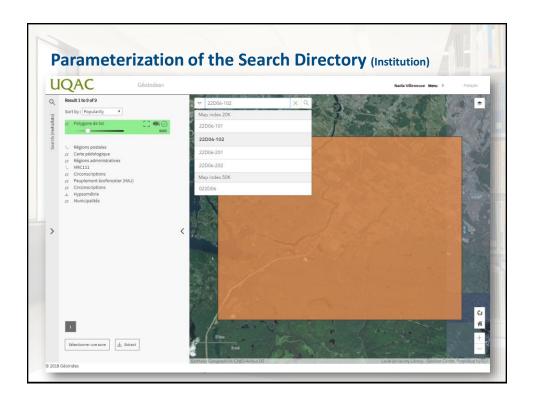


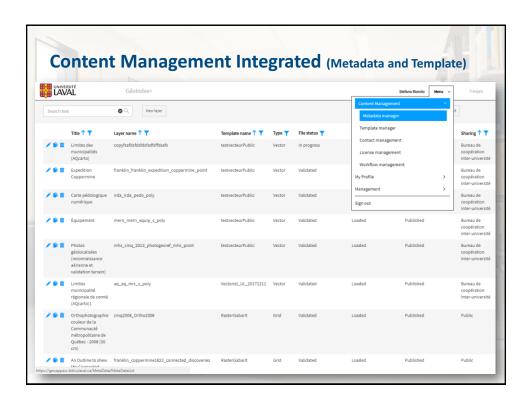


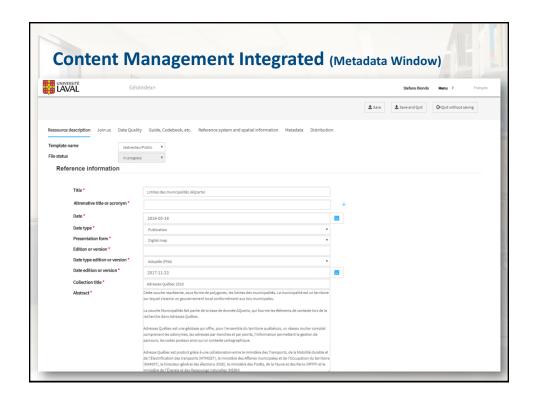


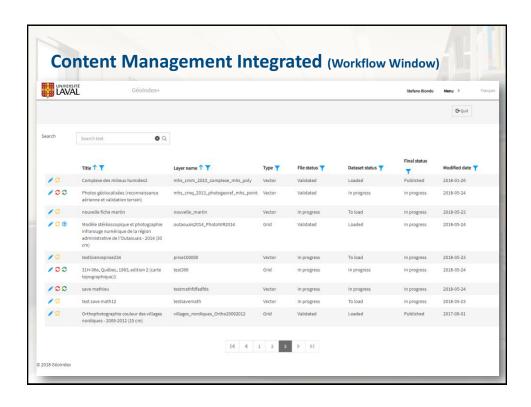


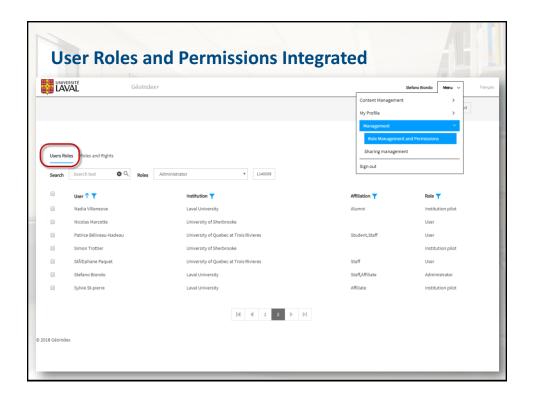


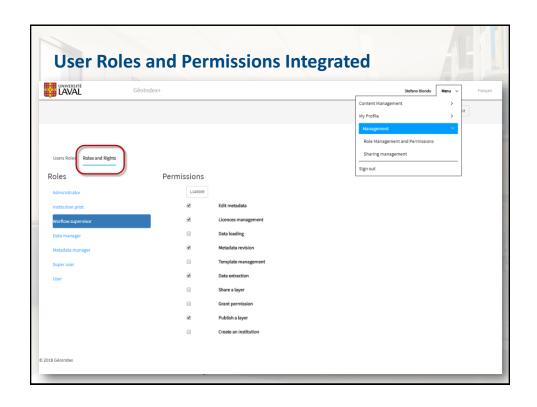


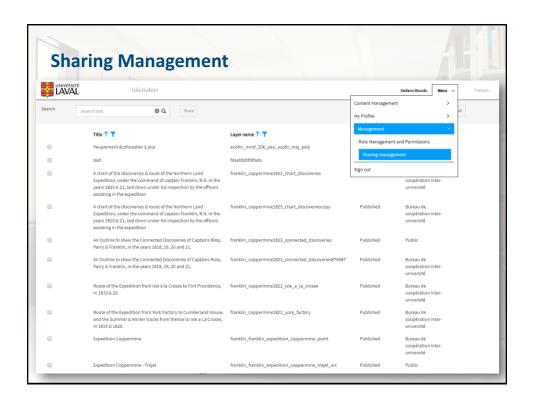


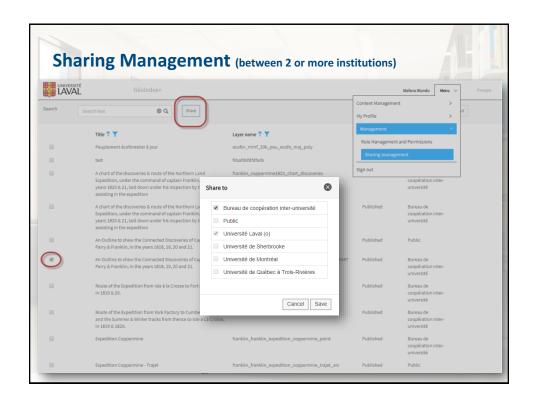


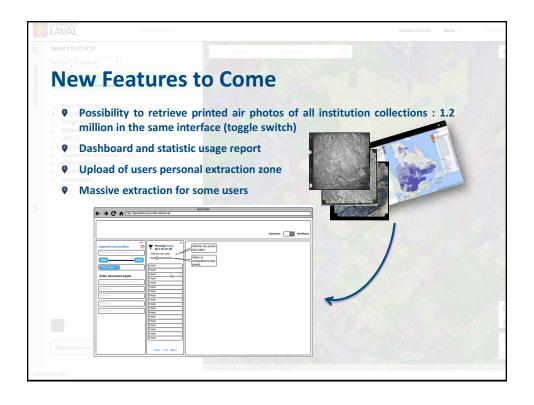












The Project at a Glance

Duration: 2 years

2 deliveries:

1st: December 2017

Delivered modules: discovery, visualization and extraction of geospatial data

Beta version: September 2018 (UL & steering committee)

2nd: November 2018

Delivered modules: platform administration and management (security, metadata, loading), user profiles, statistics, integration of GéoPhoto+, and user guides

Contenst (Day 1): BCI-MERN Agreement Data Set

Development team: 2-3 computer analysts + 1 technician developer

Steering Committee

Committee made up of 7 geospatial data managers: Stéfano Biondo (UL), Kati Brown (UQAR), Alex Guindon (Concordia), Anne Hakier (UdeM), Sylvie St-Pierre(UQÀM), Simon Trottier (Sherbrooke) and Nadia Villeneuve (UQAC)

- Prioritize existing improvements/modifications to develop
- Prioritize future developments
- Make design recommendations
- Participate in validating the detailed analysis (DA) of the next development sprint

Not exclusive to members of the steering committee:

- Participate in the demo at the end of each development sprint
- Access the production version of the platform
- Test the platform

Specific Objectives & Expected Benefits

- Democratize access to geospatial datasets through the implementation of a shared, efficient, and secure platform
- Mutualization of activities and optimization of human and material resources
- Wider use of geospatial data by members of university communities at participating institutions
- Reduced operating costs (hardware, human, software, etc.)
- Provide a better user experience for discovering, viewing, and extracting data with the ease of use of the platform

