

PERMAFROST DATA: A NEW WEB PLATFORM FOR THE SHARING OF PERMAFROST RESEARCH IN NUNAVIK IN SUPPORT OF THE DEVELOPMENT OF NORTHERN VILLAGES

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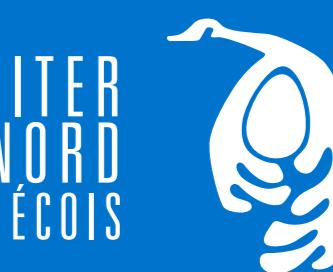




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ANITSHENA KA APIT TSHIUTIN MAK NITASSINAT



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CONTEXT

Despite the abundance of permafrost research produced in the 14 Inuit communities of Nunavik, there are no resources available to centralize and disseminate the results of these studies and make them easily accessible to the public. Access to this rich diversity of data is limited, information is scattered throughout multiple resources, and it has not been used to its full potential.

Facing numerous land use planning constraints imposed by permafrost, knowledge sharing obstacles must be overcome.

OBJECTIVES AND METHODS

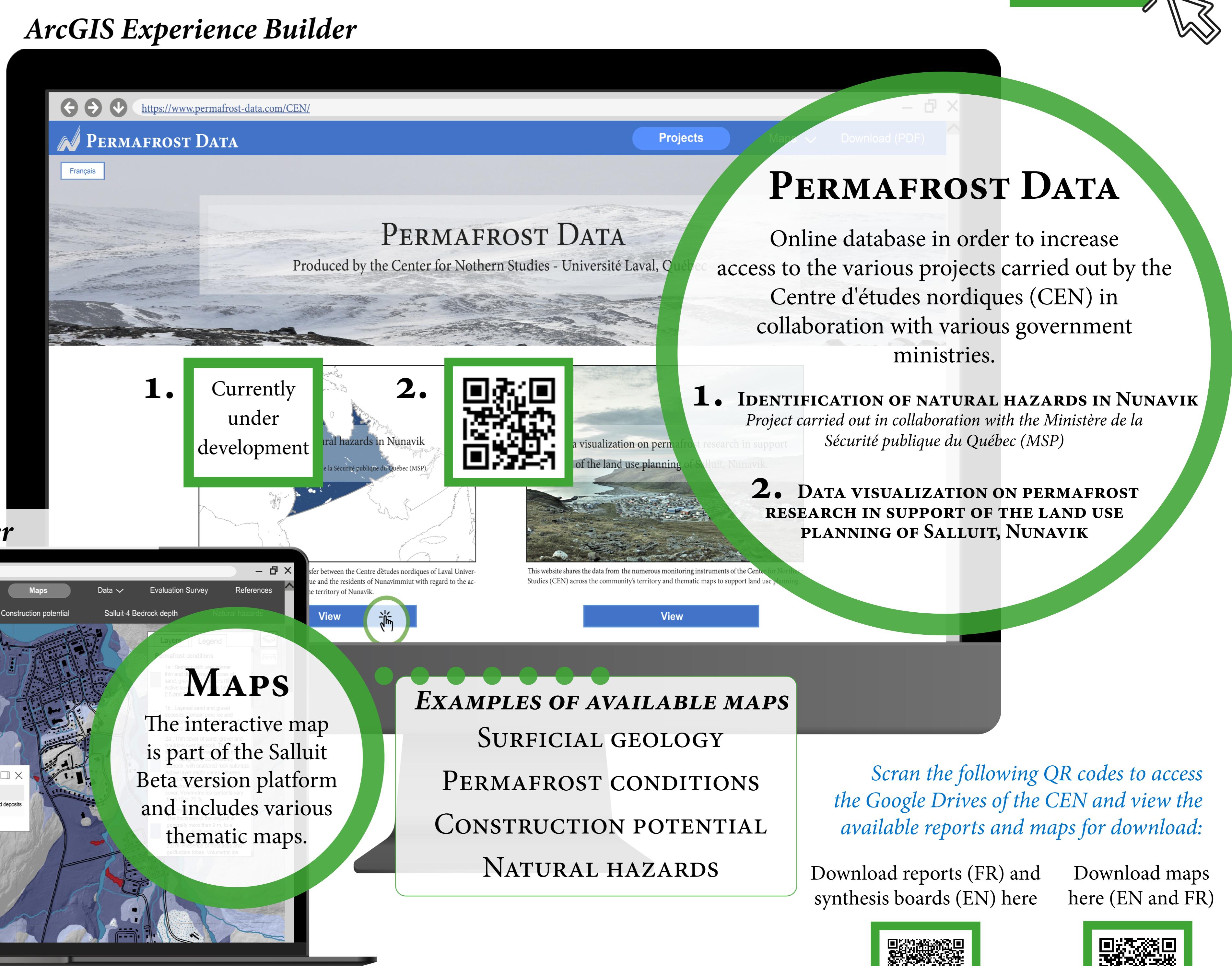
This project aims to share research results and technical expertise on permafrost developed by the CEN over the last 20 years into an open-access, user-friendly and easily accessible online platform. The purpose of this web platform is to increase access to those results for an inquisitive public and for everyone involved in construction and land use planning (*e.g. community leaders, public decision-makers, consultants and contractors*).

To achieve this goal, various configurable web apps using ArcGIS Apps were designed to allow the visualization of maps, climate and ground temperature data, and much more.

THE WEB PLATEFORM

The methodological approach to build a web-based platform was first developed and tested with the community of Salluit where permafrost challenges are particularly acute. Once operational, it will be possible to extend this method to the other Inuit communities of Nunavik.

THE ARCGIS APPS WERE DESIGNED FOR DIFFERENT DEVICE TYPES AND WEB BROWSERS!



Outcomes

The next steps are crucial. We need to (1) [TEST THE WEB PLATFORM](#), collect feedback - *using ArcGIS Survey123, among others* - and [INTEGRATE THE COMMENTS OF THE USERS](#) to improve its efficiency, by making sure that it fits their needs; (2) Complete the development of ArcGIS Dashboards apps to [INTEGRATE THE MOST UPDATED DATA](#) and ensure the [IMPLEMENTATION FOR LANDSLIDE RISK ASSESSMENT](#)



Acknowledgements

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