

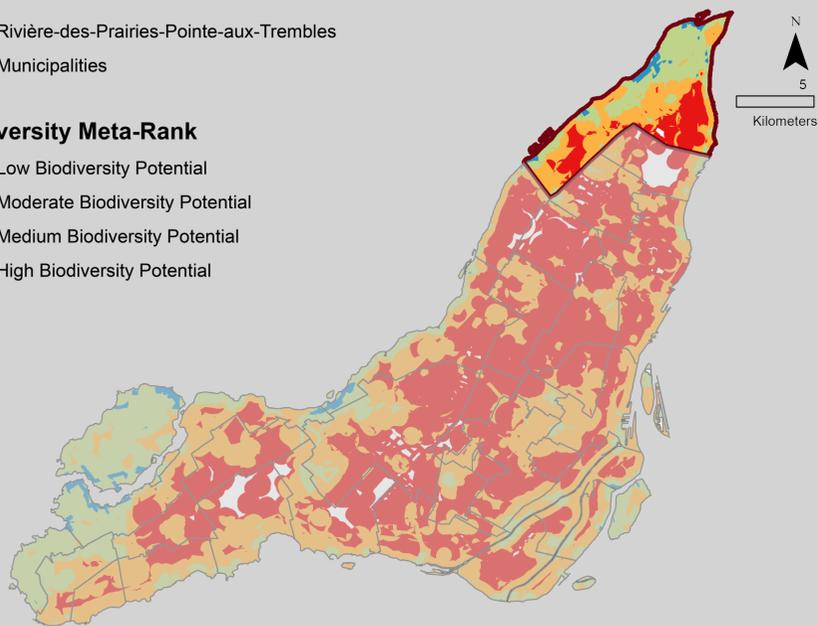
SPATIAL ANALYSIS OF BIODIVERSITY IN MONTREAL

Legend

- Rivière-des-Prairies-Pointe-aux-Trembles
- Municipalities

Biodiversity Meta-Rank

- Low Biodiversity Potential
- Moderate Biodiversity Potential
- Medium Biodiversity Potential
- High Biodiversity Potential



OUR PROJECT

The essence of our project is to conserve and enhance biodiversity using bioremediation methods. Assessed from a meta-analysis between biodiversity indicators and socio-economic vulnerabilities, our project's objective is to revive unused and historically contaminated areas. The potential benefits of decontamination can cleanse the environment and create a new space for both active and passive recreational activities. In turn, the social dynamics with the surrounding community can benefit in physical health, psychological well-being, community identity and opportunities for economic vitality.

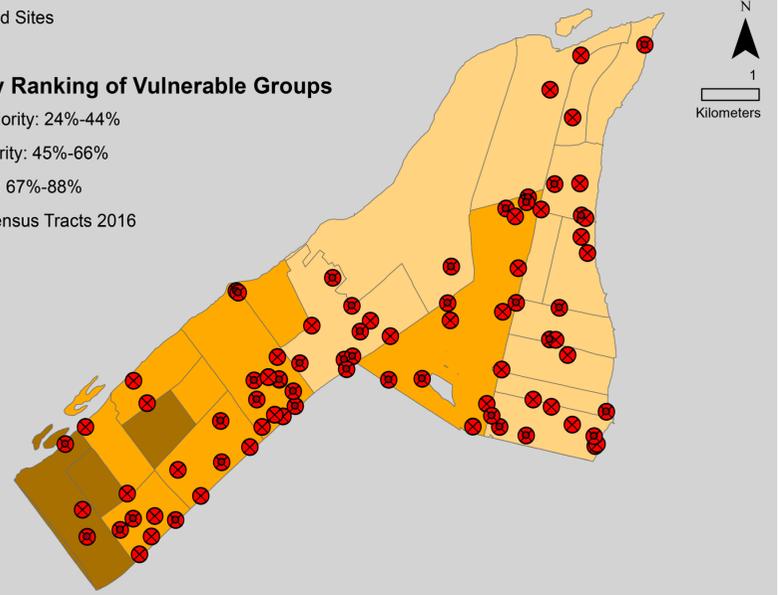
SOCIO-ECONOMIC ANALYSIS OF RDP-PAT WITH CONTAMINATED SITES

Legend

- Contaminated Sites Still Running
- Contaminated Sites

Spatial Density Ranking of Vulnerable Groups

- Moderate Priority: 24%-44%
- Medium Priority: 45%-66%
- High Priority: 67%-88%
- RDP-PAT Census Tracts 2016



OUR GOAL

Historically, RDP-PAT has been subjected to hazardous industrial activities. This has left a large portion of the municipality and consequently, its population to bear the environmental costs of biodiversity degradation, poor water quality and soil contamination. Through bioremediation, our goal is to enhance the quality of life for RDP-PAT's most vulnerable groups, creating health equities. By addressing the lack of biodiversity within the RDP-PAT, the solution of enhancing "High Potential" sites through bioremediation will subsequently solve the socio-economic gap and health disparities between income groups.

THE POST-INDUSTRIAL URBAN PARK

Enhancing Biodiversity for Vulnerable Populations in Rivière-des-Prairies-Pointe-aux-Trembles

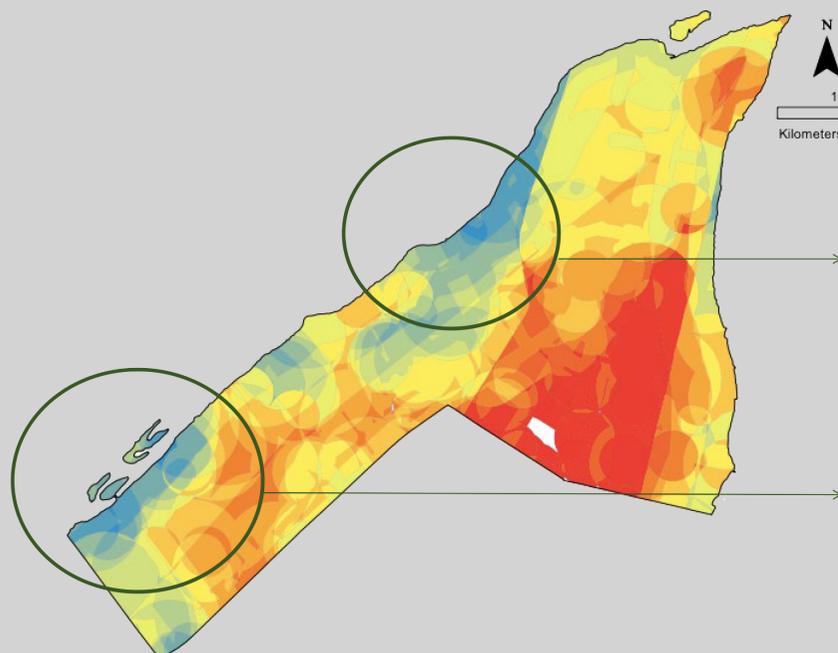
META-ANALYSIS FOR BIOREMEDIATION EXPANSION IN RDP-PAT

Legend

- RDP-PAT

Bioremediation Meta-Rank

- Low Potential
- Moderate Potential
- Medium Potential
- High Potential



High Potential Area 2:

- Moderate Priority Vulnerable Population
- Medium Polluted Ruisseau Pinel

High Potential Area 1:

- High Priority Vulnerable Population
- Highly Polluted Ruisseau De Montigny

CASE STUDIES

Sherbourne Common, Toronto

- Transformation of an industrial site to a public green space through design
- Inclusion of water treatment facility
- Access to the public

Don Valley Brick Works, Toronto

- Revitalization of a former quarry
- Economic & environmental benefits through revitalization
- Revitalization includes landscape restoration, re-naturalization, wetland- re-establishment and adaptive management

POSSIBLE BENEFITS WITH BIOREMEDIATION OF RDP-PAT:

- Creates a major wildlife corridor
- Improve the water and air quality
- Major corridor and habitat that the wildlife can inhabit

Socioeconomic benefits of bioremediation:

- Access to new and improved green spaces
- Reducing health risks and respiratory problems

