Spatial Analysis

Trinity Consultants
CANADA

Trinity Consultants Canada is a leading environmental consultancy that brings together trusted advisors, scientists and engineers to help clients solve their most complex challenges. With deep local roots and the strength of a global organization, Trinity Consultants Canada delivers innovative, scientifically sound and future-ready solutions that help industry, government and Indigenous communities navigate complex regulatory landscapes, secure project permits and approvals to achieve better environmental outcomes. They are internationally respected leaders with decades of proven expertise in Water & Ecology, Environmental Health and Safety (EHS), Built Environment and Life Sciences.

Our Water & Ecology teams are recognized leaders in environmental assessment, permitting and monitoring, offering key services to sectors including renewables, mining, ports and terminals, marine shipping, linear development, liquefied natural gas (LNG), ecological restoration, municipal wastewater, energy, and forestry.

- Wildlife Habitat Resource (WHR) Modeling
- Terrestrial Drone-Based Remote Sensing
- Aquatic Drone-Based Remote Sensing
- Estuary Mapping and Assessment
- Interactive Web-App Development
- R Shiny App Development
- Watershed Health Assessment
- IFC PS6 Critical Habitat Assessment
- SARA Critical Habitat Modeling
- Instream Flow Modeling
- Forest Disturbance Modeling
- GIS Services Including ArcGIS, QGIS, PostGIS, R, and Python-Based Services
- Spatial Data Storage Solutions

Our Expertise

Trinity Consultants Canada provides industry leading capabilities in spatio-temporal ecological modeling, drone-based terrestrial and aquatic remote sensing, geographic information systems (GIS), spatial statistics, web-mapping, and open-source GIS solutions. We have significant experience implementing novel solutions for assessing and modeling ecological conditions across sectors and clients, including renewables, mining, energy, forestry, LNG, linear development, and ecological restoration sectors. Our approach is grounded in science, continuously producing novel methods through extensive internal research and development investment, and we have a history of successfully weaving western scientific methods with Indigenous knowledge in spatial contexts through significant partnerships with multiple First Nations.

We are focused on building and delivering cost effective spatial tools for clients that save resources, produce industry leading information, and ensure that consistent, quality spatial products are built every time.

We work with clients to develop bespoke solutions for their spatial analysis needs, from simple web-app services to complex multi-year Environmental Assessments.

Our Services

- Ecosystem Mapping and Predictive Modeling
- Terrestrial Ecosystem Mapping (TEM)

CONTACT OUR TEAM!

For more information about how we can help your organization, please contact us.

Trinity Consultants Canada | Water & Ecology
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