

Spatial Analysis

Trinity Consultants is a leading global environmental consulting firm with 50 years of experience providing services and solutions in the Water & Ecology, EHS Regulatory Compliance, Built Environment, and Life Sciences markets. Trinity has the technical expertise, industry depth, and specialized capabilities to help clients achieve their goals across natural and built environments.

Trinity Consultants' Water & Ecology teams, Ecofish Research and Minnow Environmental, are recognized leaders in environmental assessment, permitting and monitoring offering key services to industry, all levels of government, not-for-profit organizations, and First Nations. Our teams have extensive experience gained from thousands of successful project engagements and a unique perspective gained by writing environmental guidelines on behalf of government. We provide proven complex problem-solving expertise to sectors including renewables, mining, ports and terminals, marine shipping, linear development, liquefied natural gas (LNG), ecological restoration, municipal wastewater, energy, and forestry.

Our Expertise

Trinity Consultants Water & Ecology 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)
- ▶ 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

For more information about our services, contact us today!

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