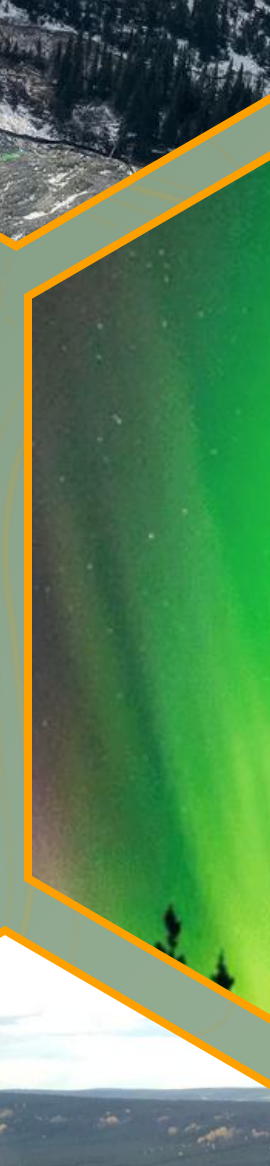


AI IN PERMITTING

**BUILDING CANADA WITH
CERTIANTY FOR TODAY &
FUTURE GENERATIONS**

Ryan Tulloch
Founder



MOST **STRINGENT REGULATORY PROCESS** IN THE WORLD WITH **NO CERTAINTY**

- **\$500M - \$1B** Regulatory Studies, **10 Years**, Cancelled
- **\$1 Trillion** Left Canada Last 10 Years
- Record **High Unemployment**
- **Reduced Enrollment** For Qualified Professionals
- Continued **Litigation** With **First Nations**
- An ECONOMY Built On One Customer, Who Influences The World **With A Tweet**



THE **UNCERTAINTY** REGULATORY TIMELINE

Federal Impact Assessment Process (Impact Assessment Act 2019)



What Can Happen In

10 Years

- Change In Government
- \$50-100M+ At-Risk Capital
- Jobs Year 8-10
- First Nation Litigation
- No Certainty on Approval



WE ALL WANT THE SAME THING

- Land For Future Generations
- First Nation Partnerships
- Sustainable Development
- Resilient Economy

A BETTER FUTURE
FOR OUR CHILDREN



COMMON TAKEAWAY BC NATURAL RESOURCE FORUM 2026

- Industry: We Need **Certainty**
- First Nations: We Want To See Development **Done Better**



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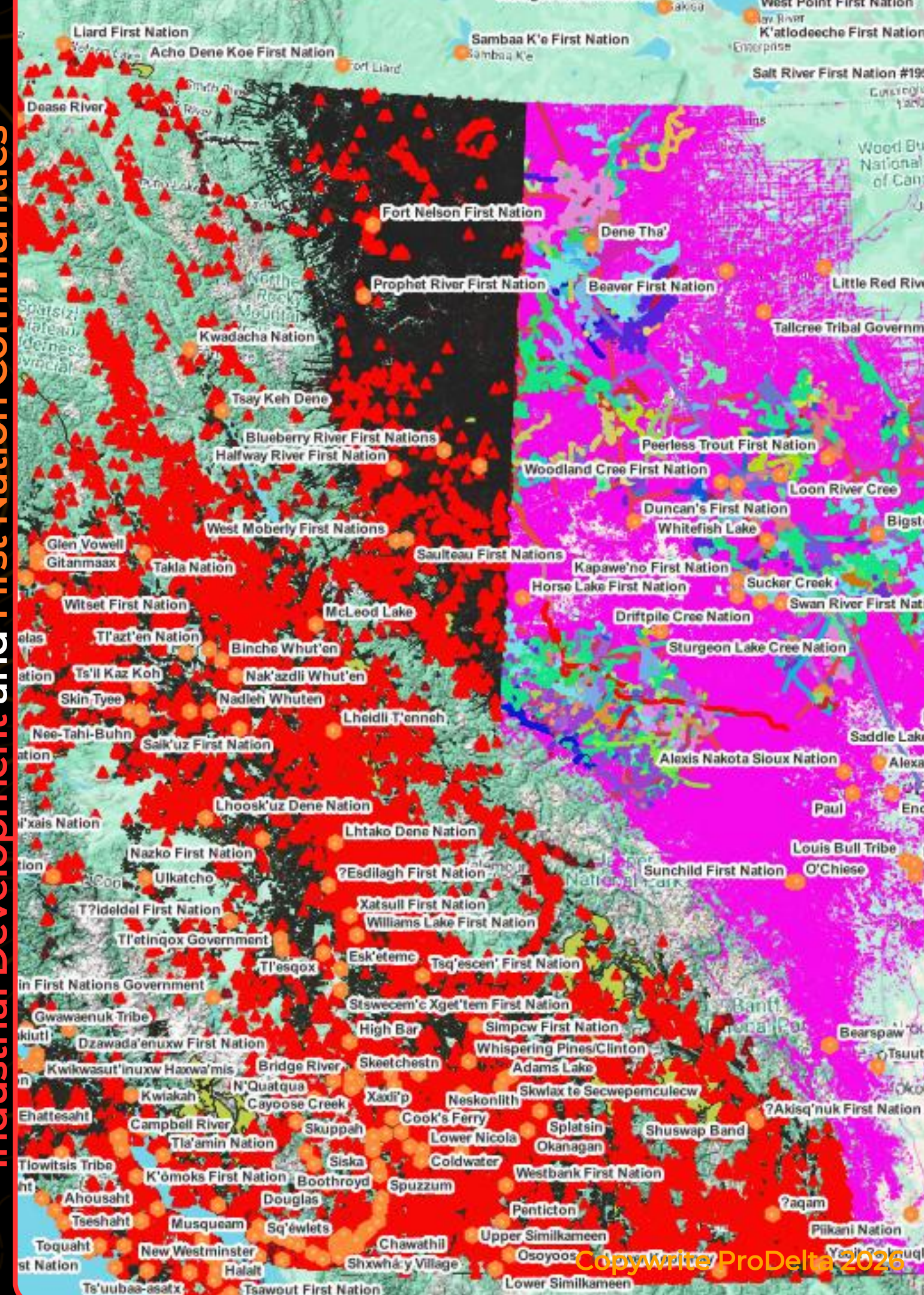
THE IMPACTS OF LEGACY INDUSTRIAL DEVELOPMENT

- **371** Endangered Species
- Cumulative Footprint **Size of Small Countries**
- **\$300B+** Environmental Liability
- **More Regulatory** Policies
- Impact to **Treaty Rights**

"Cumulative effects of **industrial development** have significantly **diminished** the ability to exercise **Treaty rights**."

Yahey v. BC, 2021

Industrial Development and First Nation Communities



BUILDING A BETTER FUTURE FOR OUR CHILDREN

1. Restore OUR PAST Footprint First

2. Minimize OUR FUTURE Footprint

A RESTORATION BASED ECONOMY



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TOGETHER IS THE PATH FORWARD

Western
Knowledge



Community
Knowledge

A Prosperous Canada For Everyone



NATION WIDE

ENVIRONMENTAL BASELINE
ALWAYS CURRENT

- Built on **Billions** of **Data Points**
- Baseline for **Multiple Ecological** Layers
- **Quantifies** Cumulative Effects Impacts
- **Real-Time** Environmental Data
- Instantly **Reduce** Regulatory **Risk**
- **Empowers** Professionals
- Identify **Collaboration Opportunities** Through **Shared Values**

DETAILED **ENVIRONMENTAL**
IMPACT ASSESSMENT. AT CONCEPT

Fish Habitat
Utilized by Gov Agencies

Canopy Height
Without Lidar

Moose Habitat
+ All Federal Species At Risk

Wolf Occupancy
Predator/Prey Connectivity

Vegetation Analytics
Species Groups, Health, Wildfire Fuel and More

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MONITOR BY **WATERSHED**

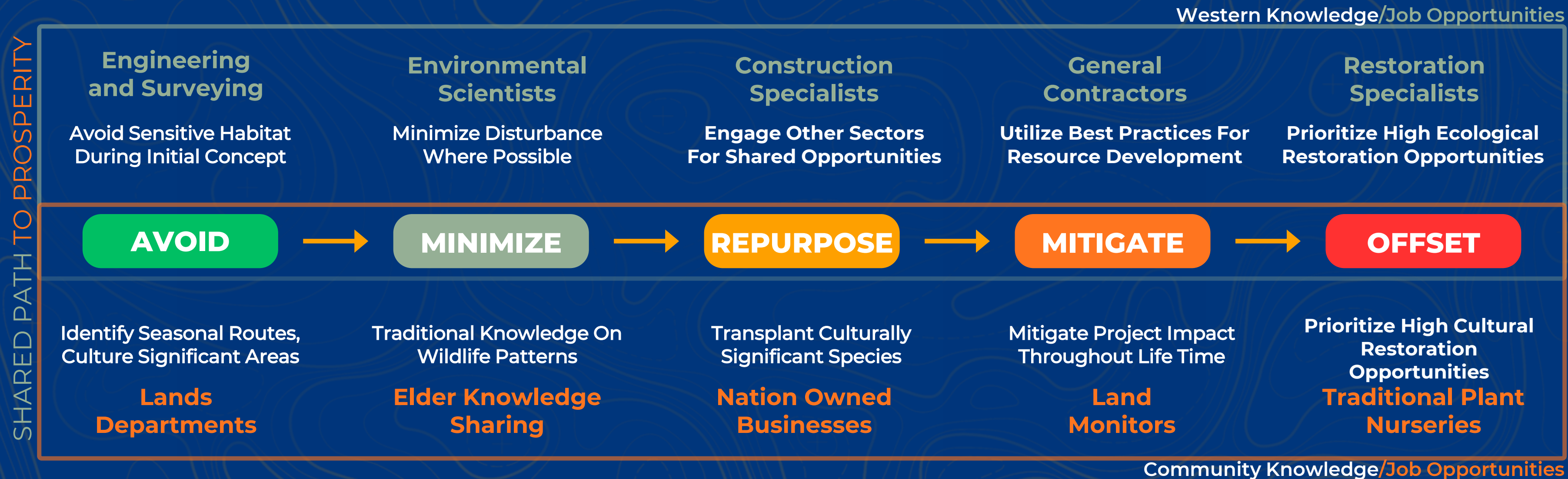
FIRST NATIONS **DEFINE TRADITIONAL
TERRITORY** BY WATERSHED FEATURES

WESTERN SCIENCE AND TRADITIONAL
KNOWLEDGE **AGREE ON WATERSHED
BOUNDARIES**



ENVIRONMENTAL PRIORITY PATHWAY

BUILDING CERTAINTY TOGETHER IN MONTHS, NOT YEARS



SHARED VALUES. SHARED PATH. SHARED OPPORTUNITIES.
Building Regulatory Certainty That Unlocks Canadians Prosperity, Together

INDUSTRY AGNOSTIC **TECH**

OPTIMIZING EXISTING REGULATORY POLICY

Federal Impact Assessment Act 2019

BC Environmental Assessment Act

BCER Oil/Gas and Wind Regulations

AB Caribou Sub-Regional Plans

BC Adaptive Management Act

AB Land Stewardship Act

AB/BC ARO Regulations



CANADA HAS LARGE RESERVES OF **34 CRITICAL** MINERALS

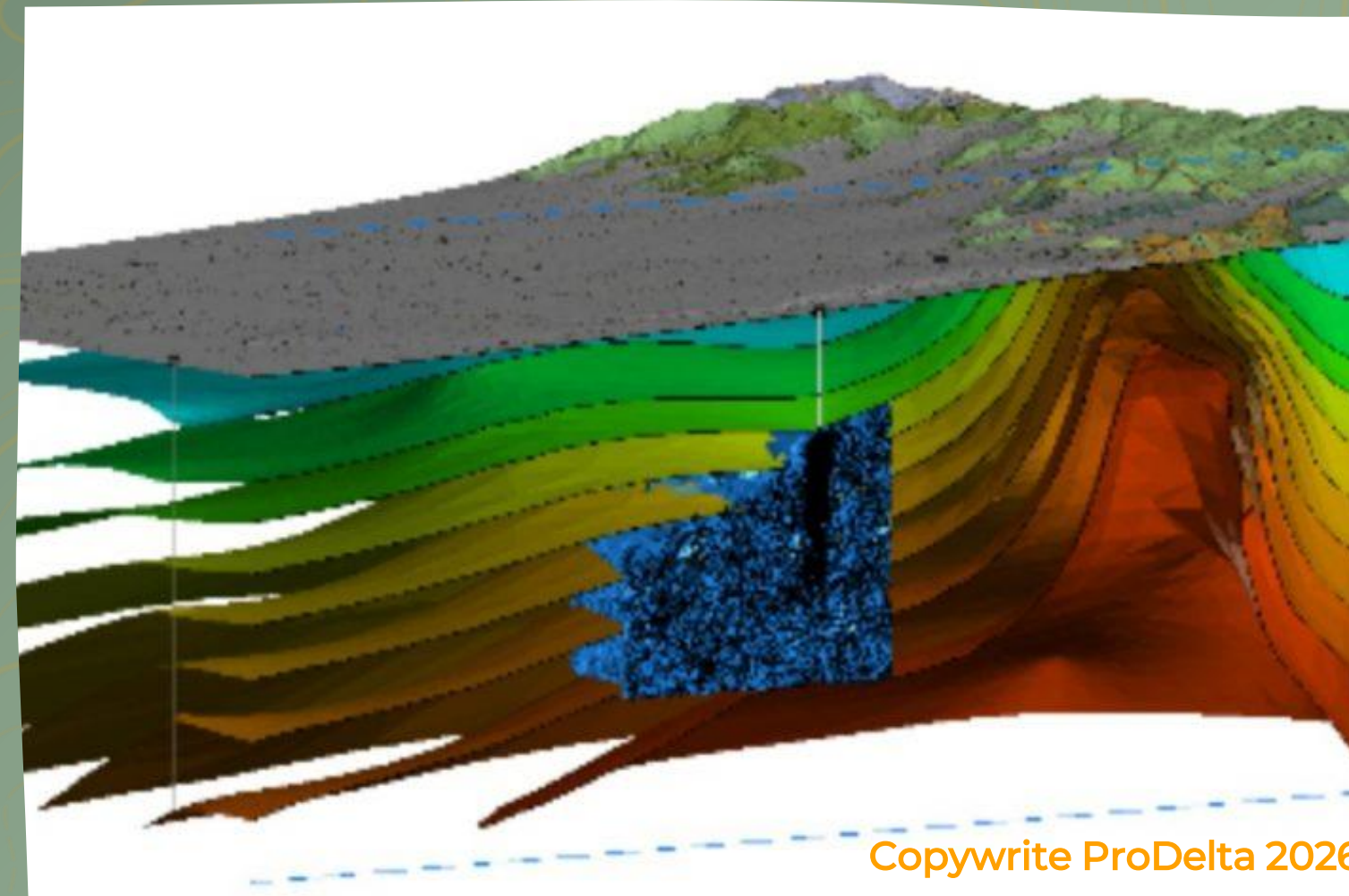
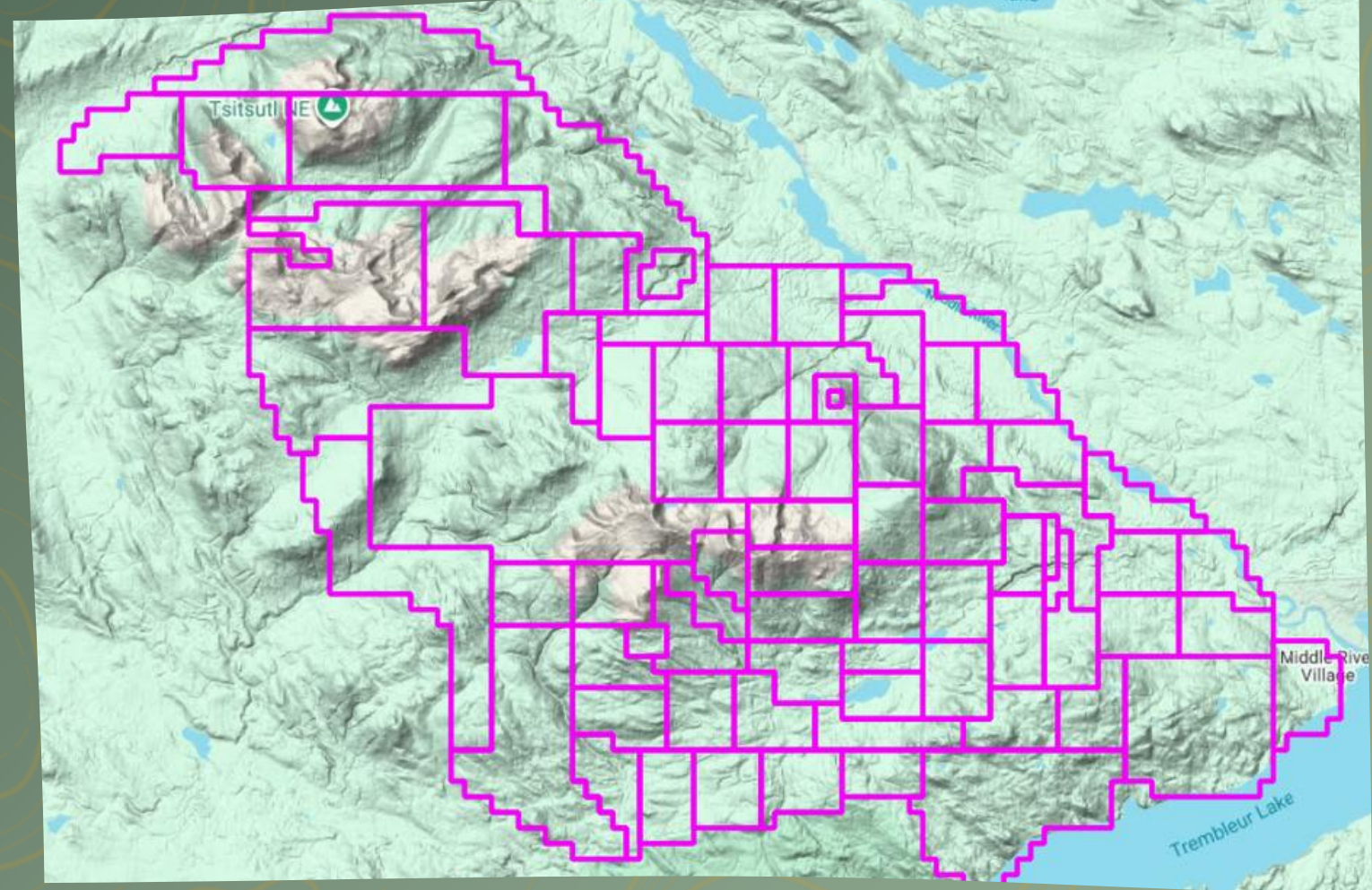


THE WORLD WANTS **CRITICAL MINERALS**

\$70+ B IN PROPOSED PROJECTS 2024-2034

\$2.1 B IN EXPLORATION CAPITAL IN 2024,
WITH **NO CERTAINTY**

FIRST NATIONS OVERLAY MOST
SIGNIFICANT DEPOSITS



EXPLORE WITH **CERTAINTY**
FROM DAY ONE

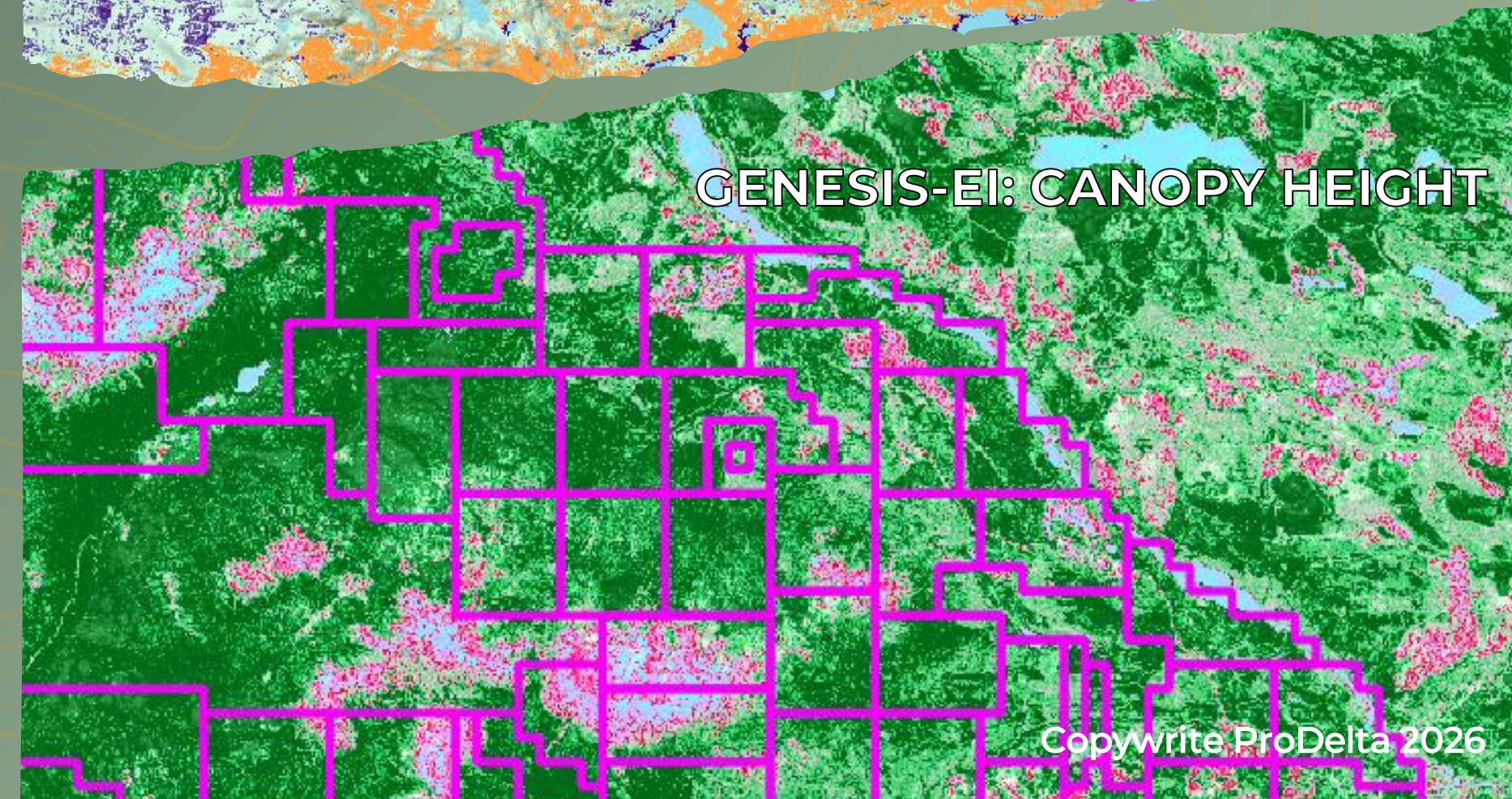
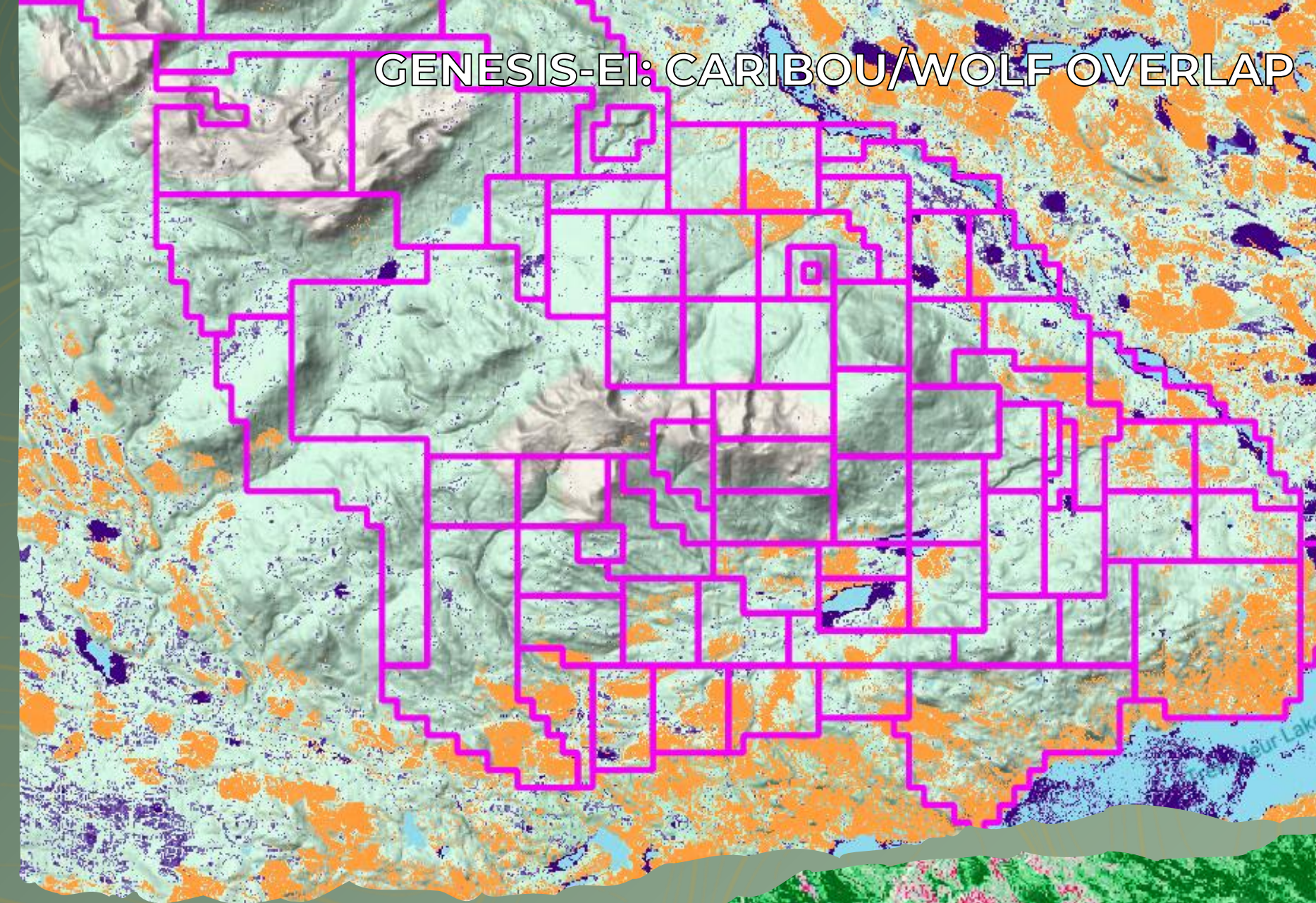
UNDERSTAND **WILDLIFE/FISH IMPACT**

MERCHANTABLE TIMBER FOR LOCAL
MILLS

IDENTIFY **WILDFIRE FUEL** POTENTIAL

LONG TERM PARTNERSHIPS WITH
FIRST NATIONS

SECURE EXPLORATION/DEVELOPMENT
CAPITAL



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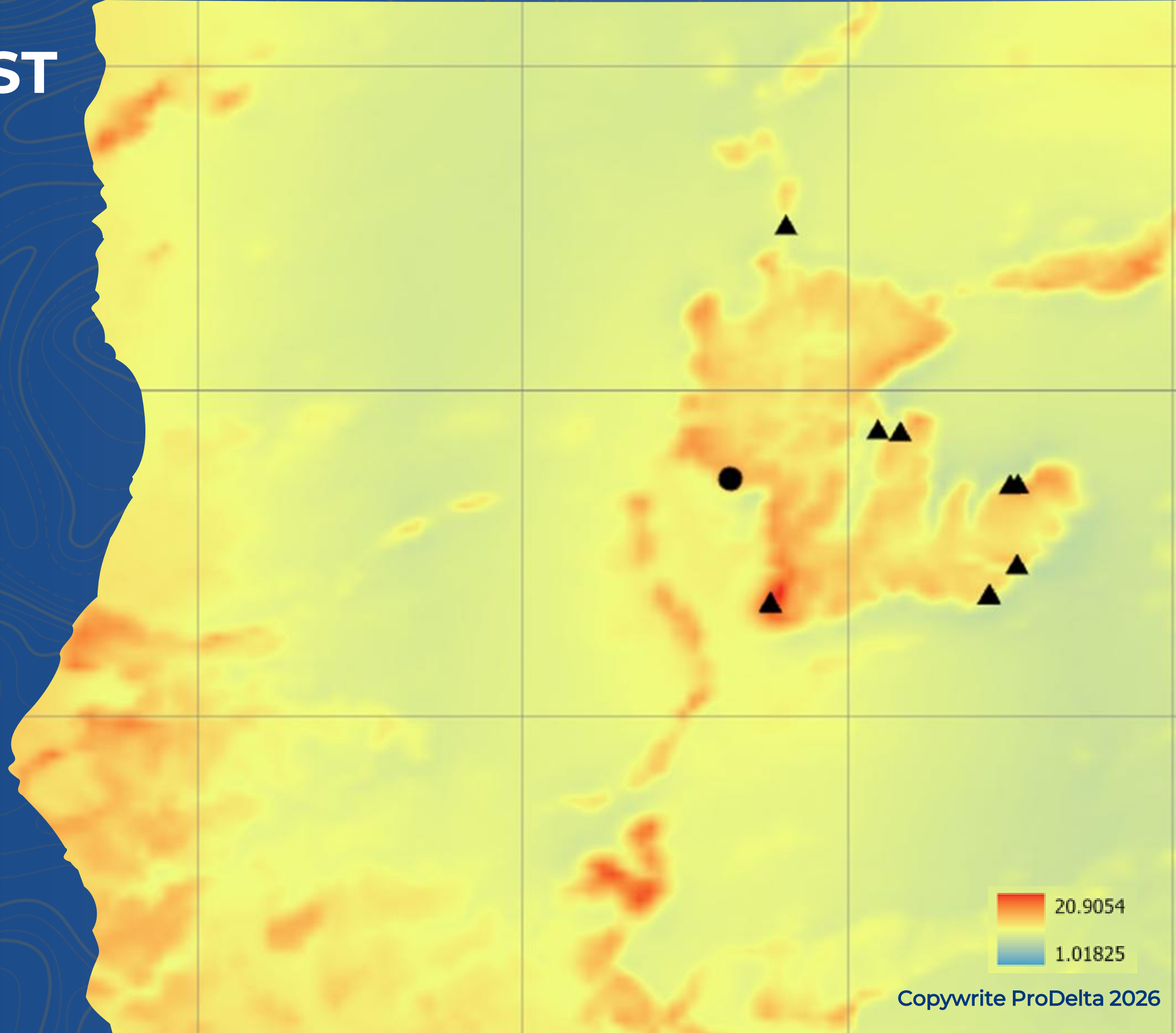
BUILDING **WITH CERTAINTY** FOR RENEWABLE ENERGY



WIND MODEL: COAST OF **SOUTH AFRICA**

PRELIMINARY WIND
MODEL

IDENTIFIED
NESTING SITES



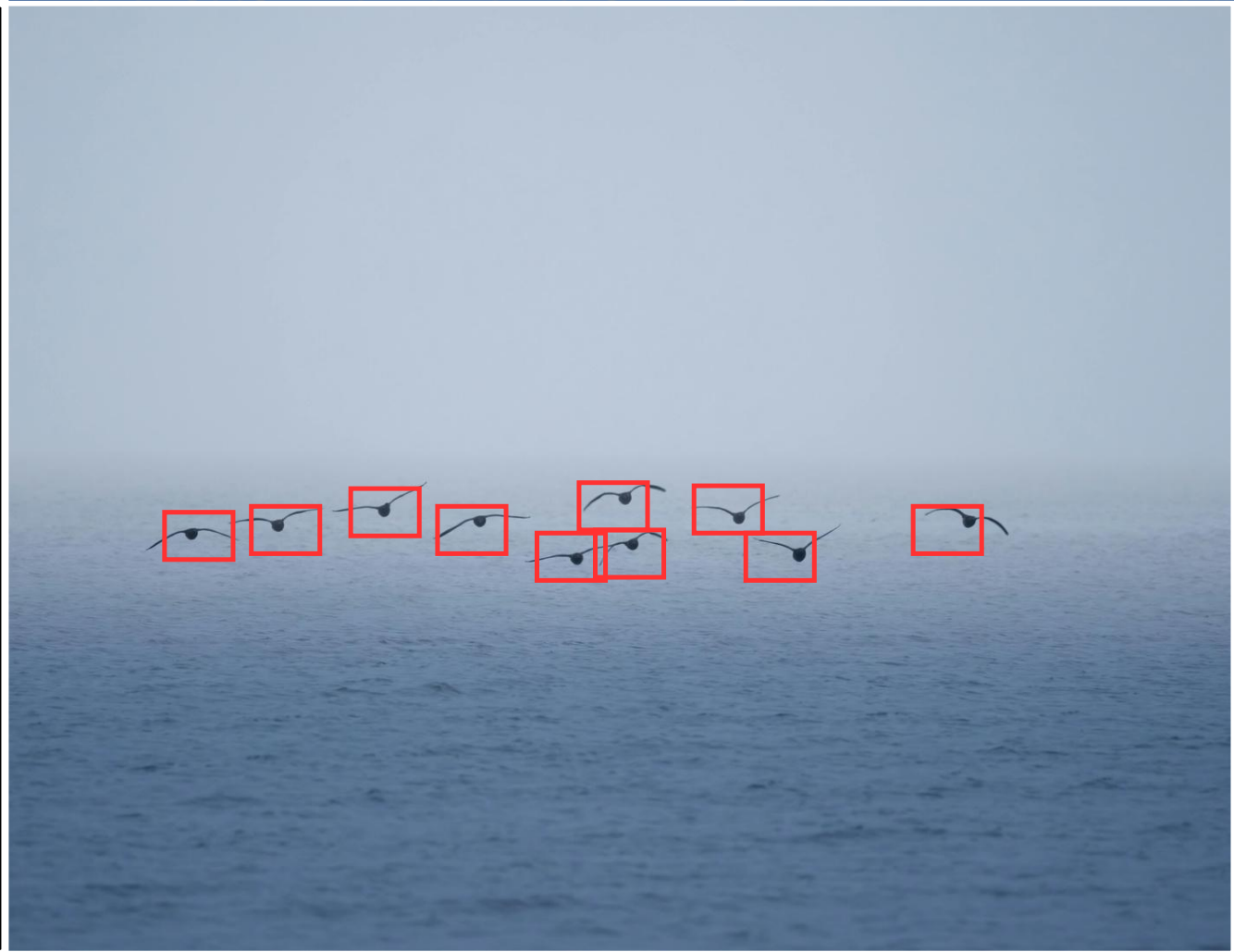
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SITE-SPECIFIC AI TRAINED DURING REGULATORY STUDY

SENSORS DEPLOYED AND
TRAINED DURING
REGULATORY STUDIES

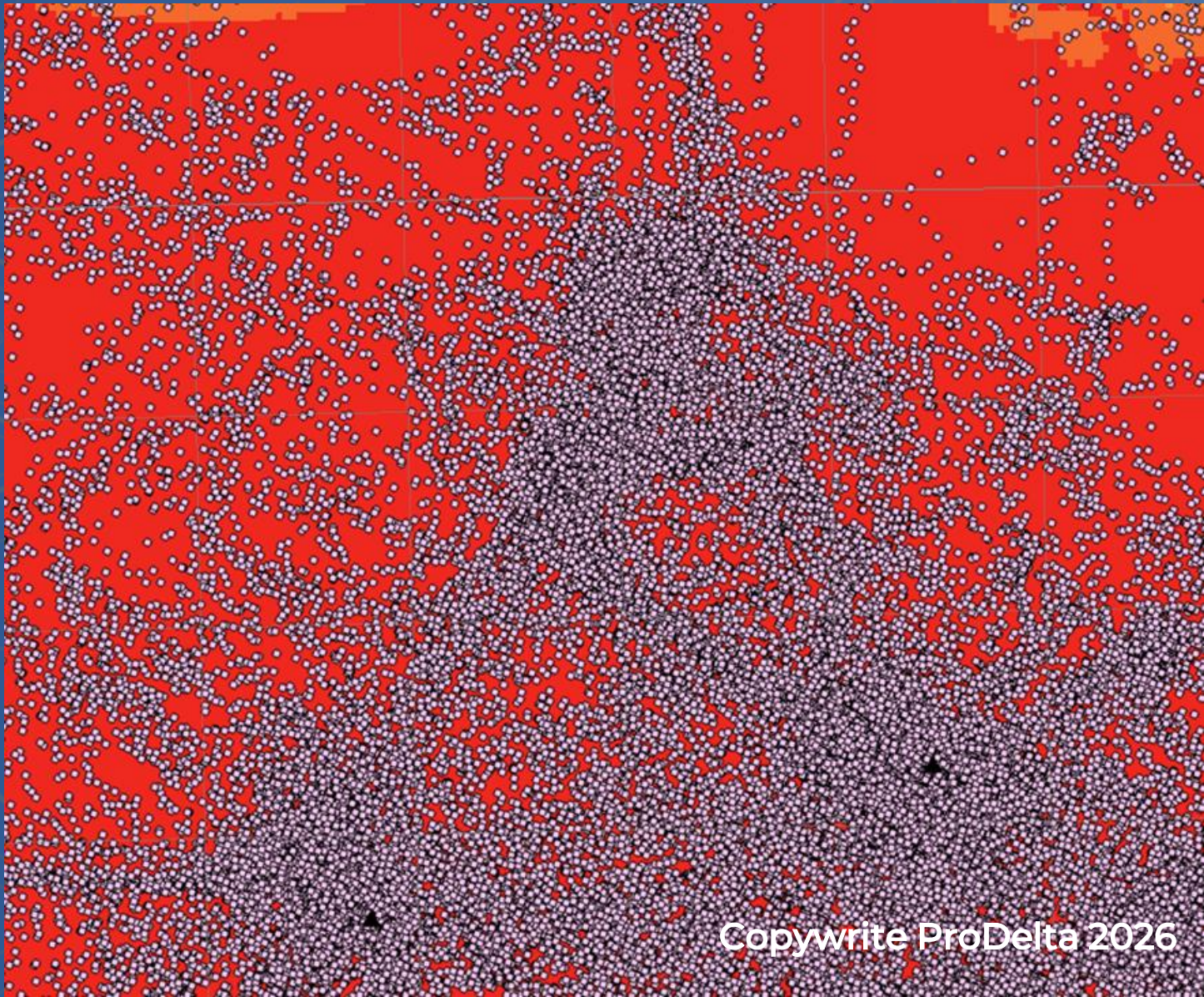


Camera ID: 0185
Event ID: 291882
Date: 28 Nov 2023
Time: 13:33
Species: Cormorants
Count: 10
Wind Speed (m/s): 12
Wind Direction: NE
Temp (C): 18
Max AGL(m): 31
Min AGL (m): 28
Avg AGL (m): 29.5



CONTINUOUS MONITORING WITH
IMAGE DETECTION

SITE-SPECIFIC SIMULATION
BASED ON SEASON

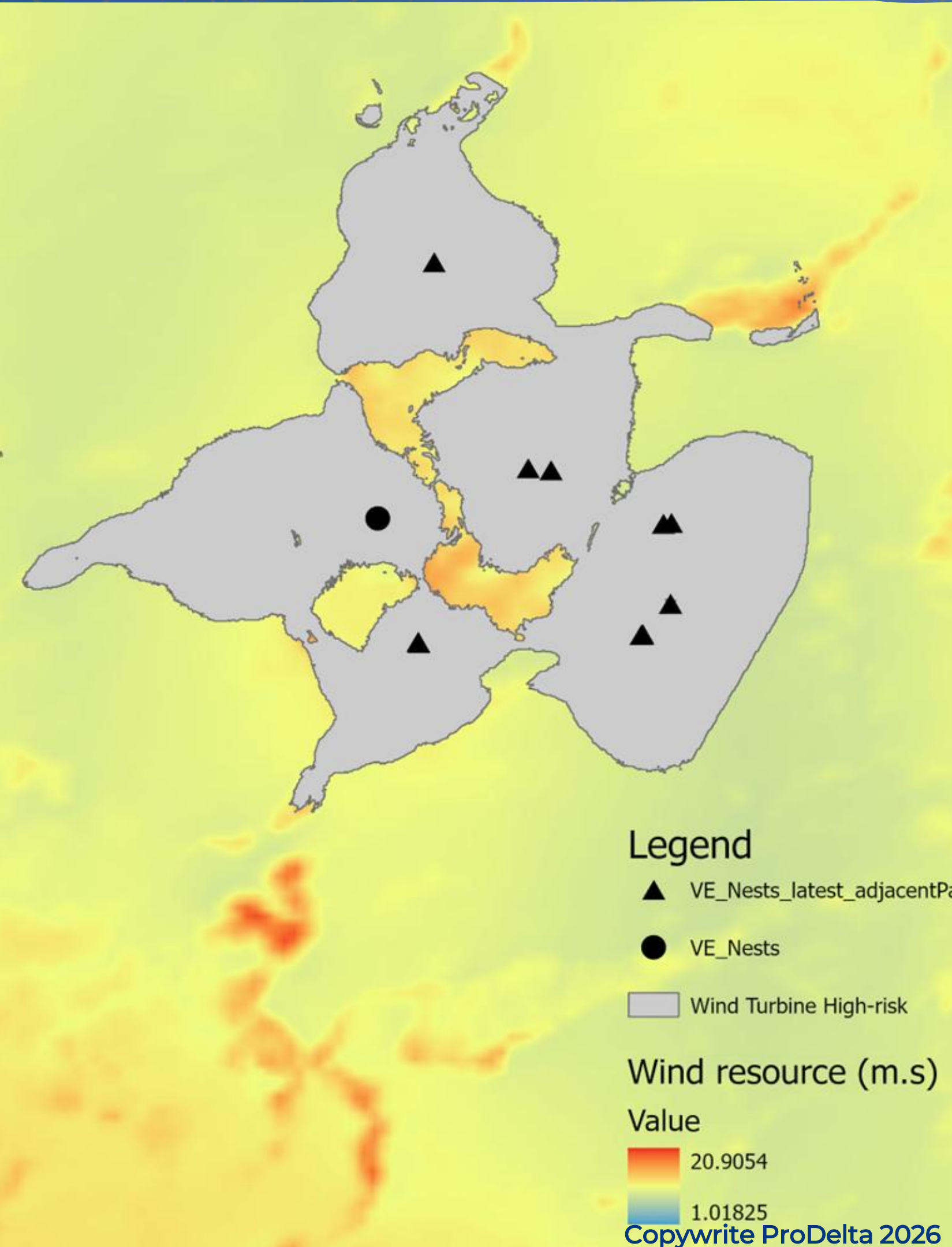


WIND VS BIRD

OPTIMUM WIND SPEED

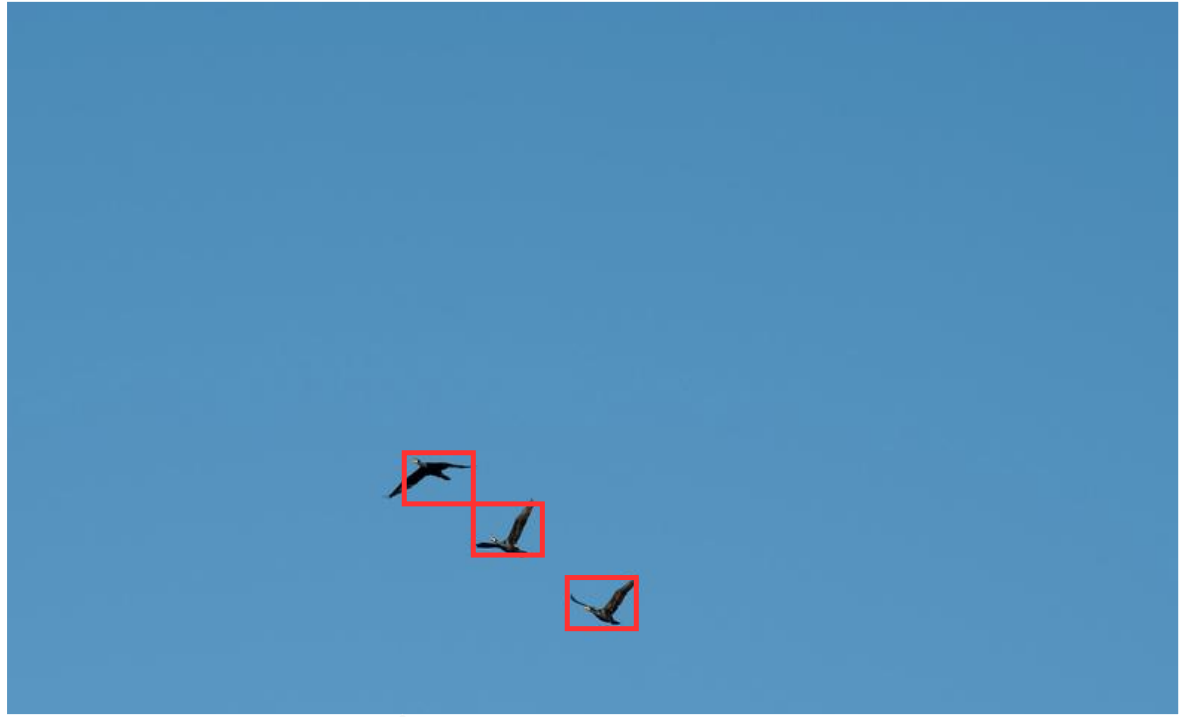
HIGH RISK BIRD AREA

HIGH WIND
LOW BIRD



INTEGRATING REGULATORY AI & IMAGE DETECTION TO OPERATIONS

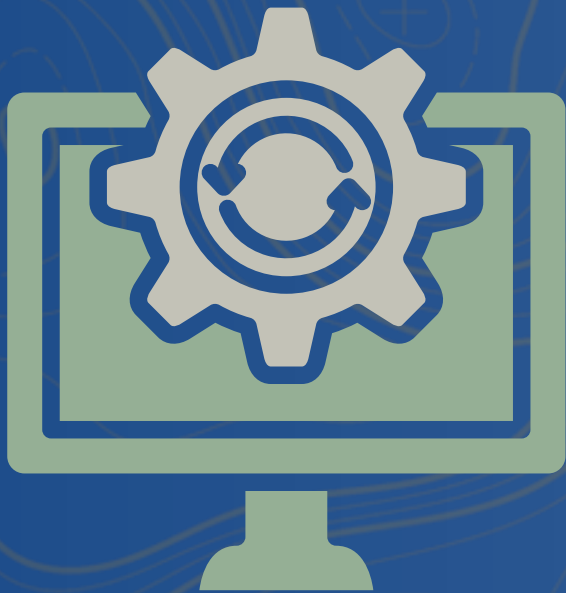
Camera ID: 2523
Event ID: 311781
Date: 31 Dec 2024
Time: 13:33
Species: Cormorants
Count: 3
Wind Speed (m/s): 8
Wind Direction: SE
Temp (C): 28
Max AGL(m): 16
Min AGL (m): 18
Avg AGL (m): 17



PERMANENT SENSOR
CONTINUOUS
MONITOR MOVEMENT

SCADA **TEMPORARILY**
REDUCE ROTOR SPEED

DETECTION **ALERT**
SENT TO SCADA



CANADA'S LNG MARKET STARTS IN NEBC



AT-RISK CAPITAL COST FOR PRIVATE CAPITAL

FOR ONE REGULATORY APPLICATION

Legal Survey: \$7,500 - \$20,000

Civil Design: \$5,000 - \$10,000

Archeological Survey: \$5,000 - \$20,000

Environmental Survey: \$5,000 - \$20,000

First Nation Review: \$5,000 - \$20,000

Regulatory Application: \$1,500

At-Risk Capital: **\$29,000 - \$91,600**

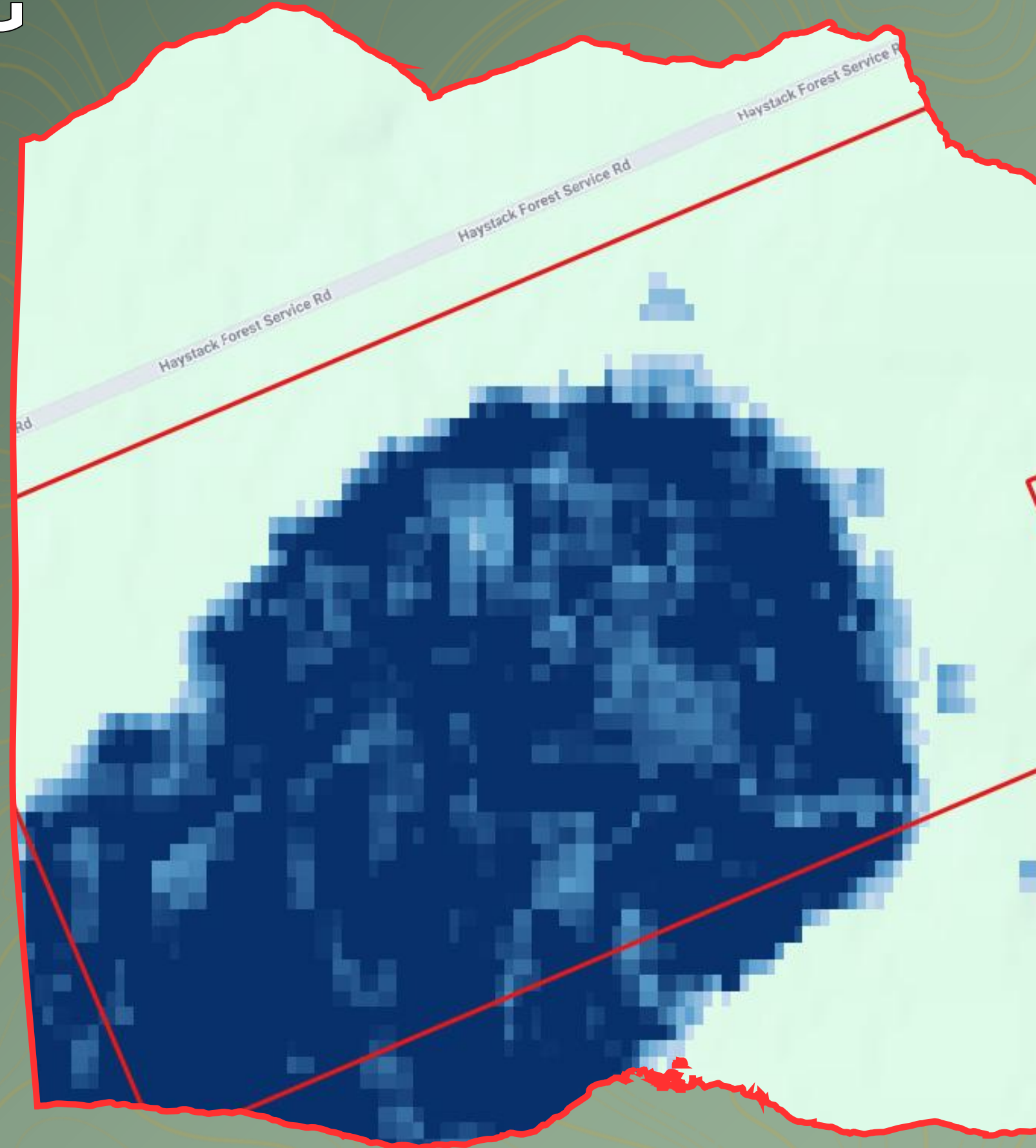
Time: **6 - 36 months, If Approved**



DATA DRIVEN DECISION MAKING

DEVELOPMENT CAN BE DONE
BETTER

ENVIRONMENT FIRST CREATES
CERTAINTY



CURRENT DORMANCY INVENTORY

AVAILABLE FOR OFFSETS

WATERSHEDS IMPACTED - 33

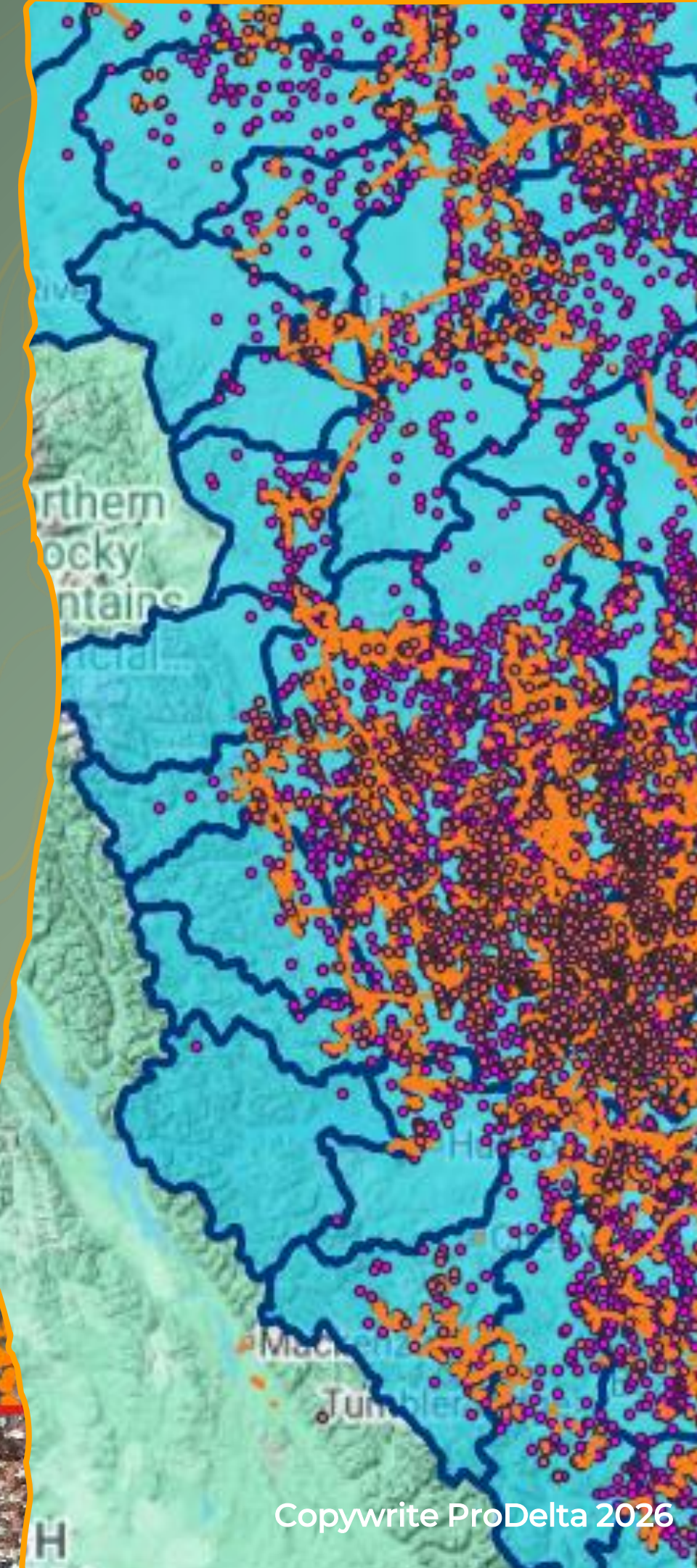
WELLSITES - 10,390

FACILITIES - 1,828

PIPELINES - 8,002 (15,320 km)

TOTAL AREA - 41,000 Ha

Single Line High Res Imagery With AI Classification



CREATING A **NET GAIN** USING **MANDATED CAPITAL SPEND**

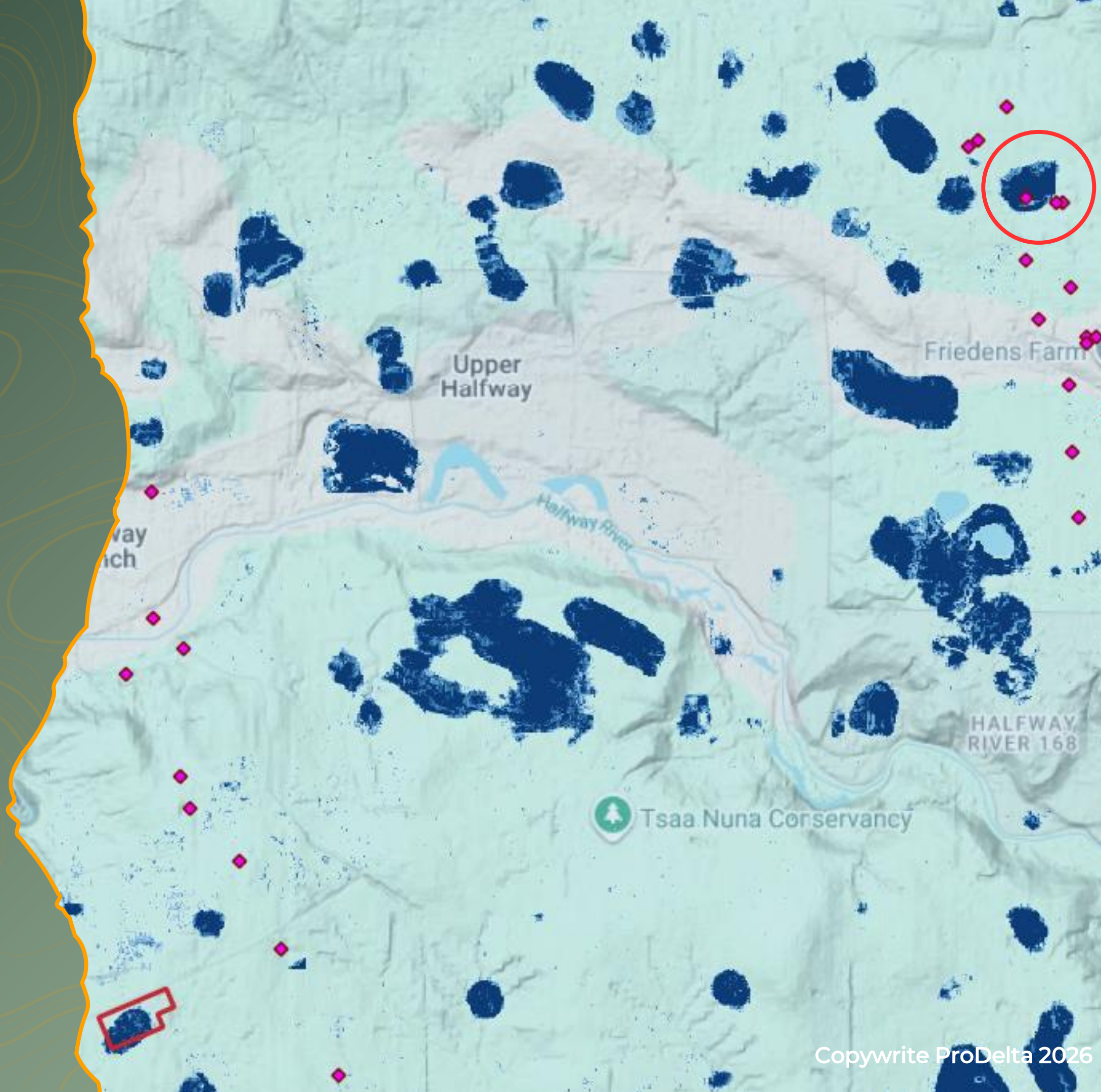
3:1 OFFSET

ADDITIONAL CAPITAL = \$0

JOBS CREATED = 50-70

**EXISTING REGULATORY
FRAMEWORK**

**BALANCED APPROACH TO
RESOURCE DEVELOPMENT**

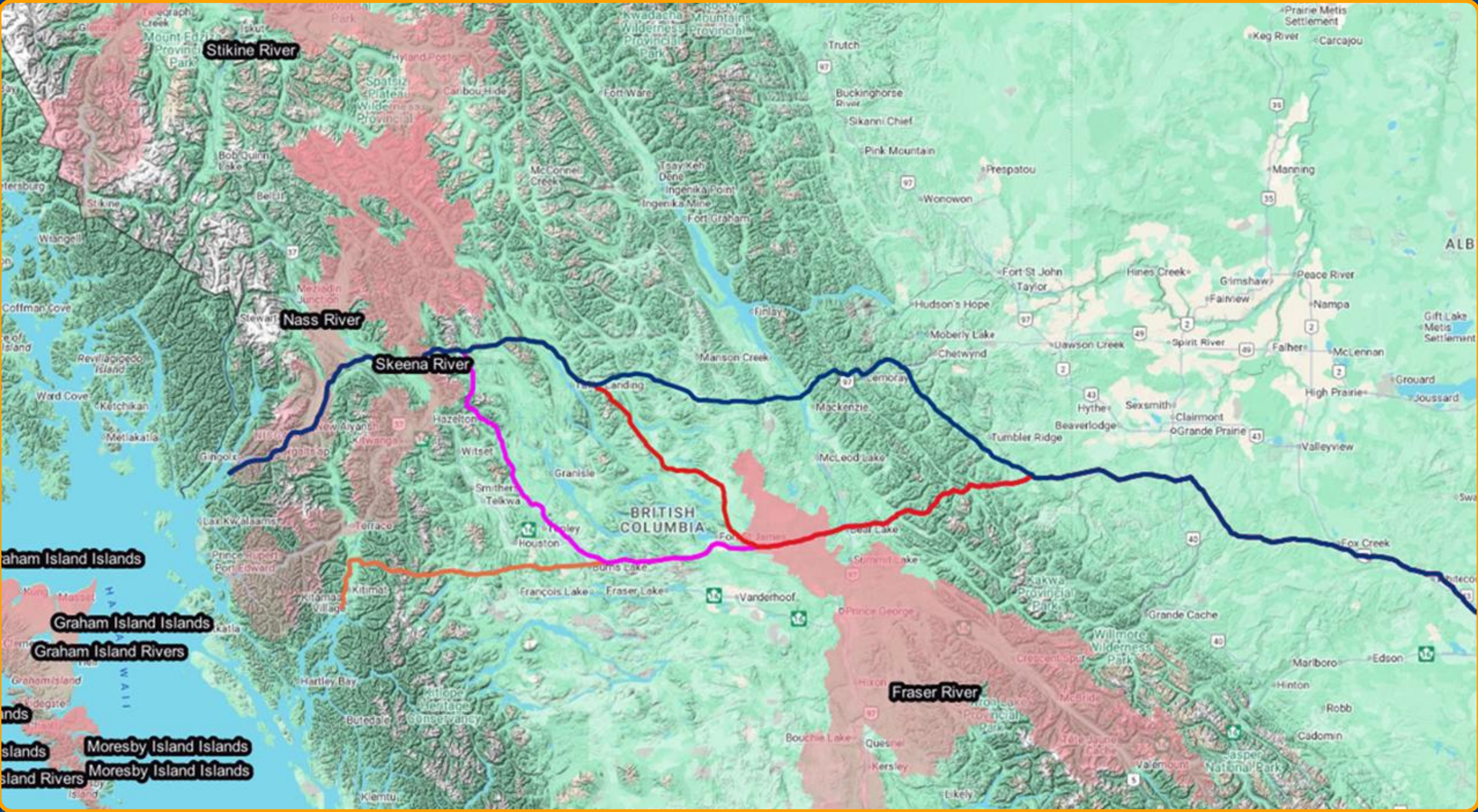


THE MOST **CONTROVERSIAL** PROJECT: BITUMUN PIPELINE



BITUMEN PIPELINE TO PACIFIC WEST COAST

▲ Utilize Environmental Priority Pathway - Avoid/Minimize



Wildlife - Moose

Fish - Salmon

Constructionability

Ecological Offset

Forestry/Wildfire

First Nation Ec-Dev

13+ Analytics

BITUMEN PIPELINE TO **PACIFIC WEST COAST**



Wildlife - Moose

Fish - Salmon

Constructionability

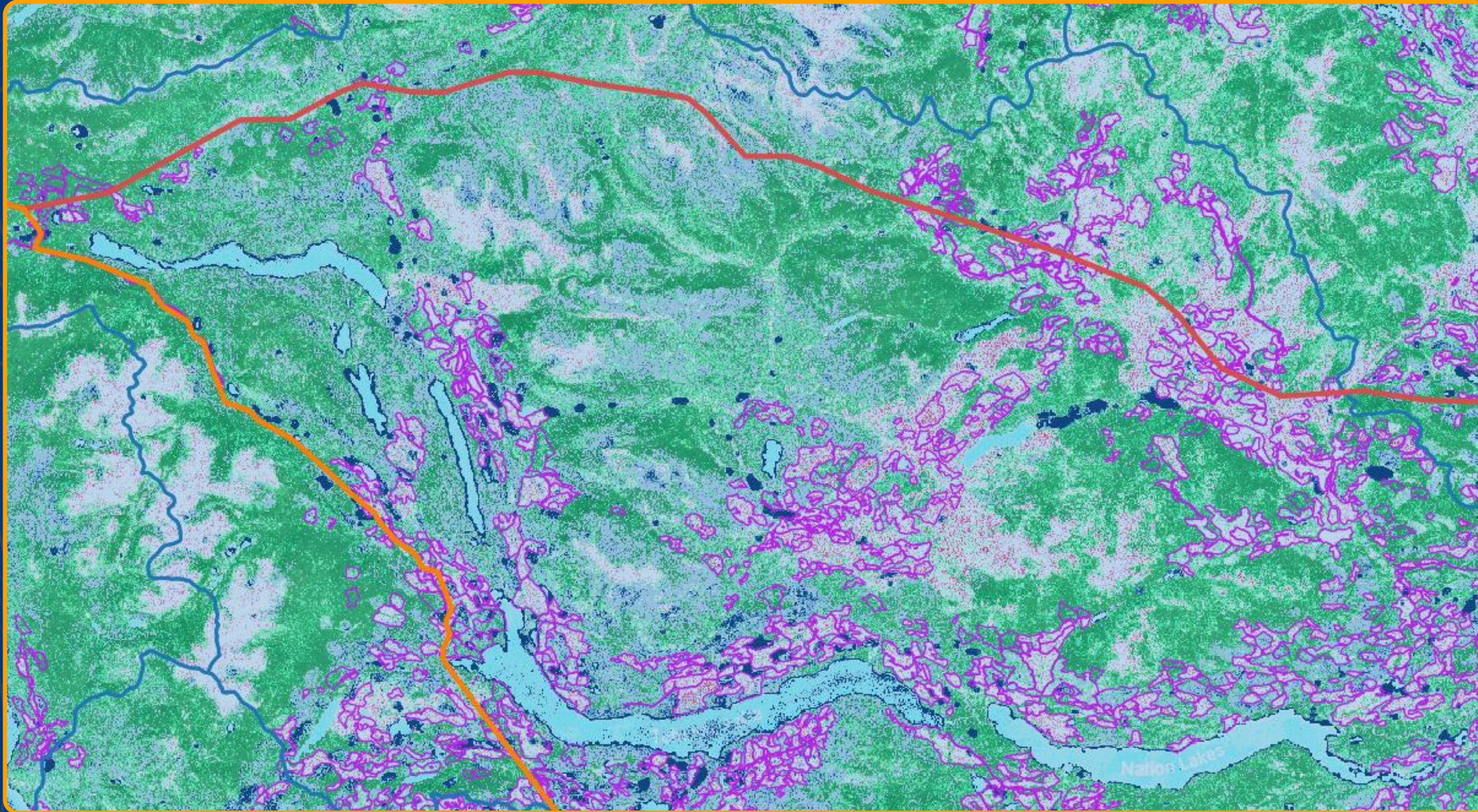
Ecological Offset

Forestry/Wildfire

First Nation Ec-Dev

Additional Analytics

BITUMEN PIPELINE TO **PACIFIC WEST COAST**



Wildlife - Moose

Fish - Salmon

Constructionability

Ecological Offset

Forestry/Wildfire

First Nation Ec-Dev

Additional Analytics

BITUMEN PIPELINE TO **PACIFIC WEST COAST**



Tanizul Timber Ltd



Wildlife - Moose

Fish - Salmon

Constructionabilty

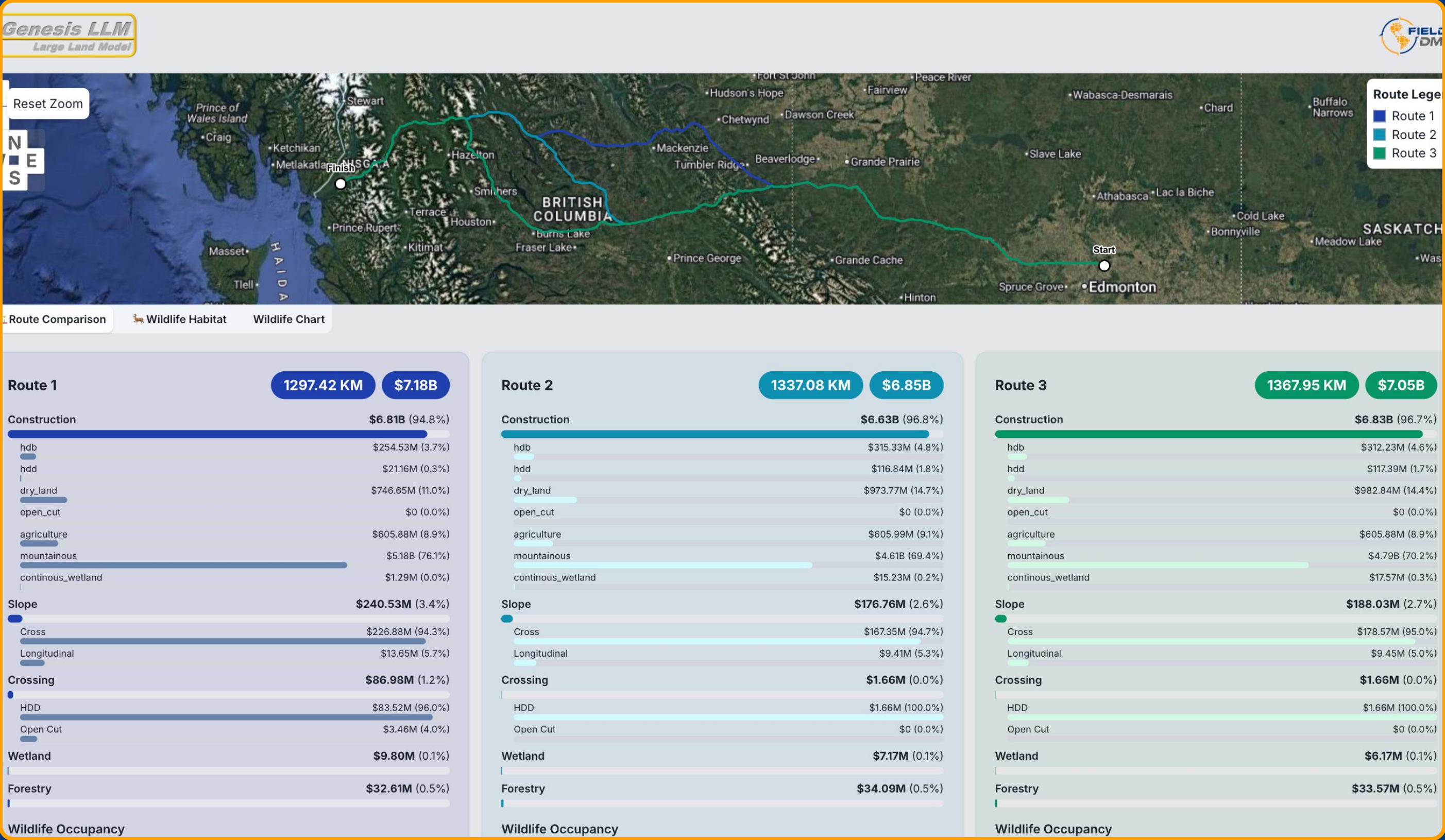
Ecological Offset

Forestry/Wildfire

First Nation Ec-Dev

Additional Analytics

BITUMEN PIPELINE TO PACIFIC WEST COAST



6
Weeks

Analysis Completed

3
Options

5B+

Points Analyzed

Generating Options Fast, Reducing Risk

GENESIS-EI REGULATORY PIPELINE

▲ Build Opportunity with Certainty

DEVELOP PROJECT CONCEPT

Define Objectives.
Identify High-Level Risk
Tolerance and ROI Matrix

1

ENVIRONMENTAL PRIORITY PATHWAY

Avoid.Minimize.Repurpose.
Mitigate.Offset

2

ENGAGE FIRST NATIONS

On Environmental
Stewardship & Economic
Opportunities

3

REGULATORY VALIDATION

Initial Submission is a
Detailed Summary of
Environmental Impacts

4

BUILDING WITH REGULATORY CERTAINTY

▲ Compress The Schedule, Move From Discovery to Validation



What Can Happen In

2 Years

- Consistent Government
- Minimize At-Risk Capital
- Restoration Jobs In Year 1
- First Nation Partnerships
- High Level Of Certainty



SUPPORT FROM GOVERNMENT AND INDUSTRY

The benefits of mitigating land disturbance are multi-faceted and important to the future of natural resource industries in British Columbia

Larry Neufeld, MLA Peace River South, Critic for Oil, Gas and LNG

The ability to reduce regulatory uncertainty from years to months to weeks, represents a meaningful advancement for project planning, investment confidence, and overall delivery efficiency.

Mike Davis, VP ICBA

SUPPORT FROM GOVERNMENT AND INDUSTRY

“Your articulation of assessment as a validation process, grounded in comprehensive data and analysis, offers a path for project planning alignment and greater certainty for both proponents and regulators. Further, your emphasis on province-wide, continuously updated environmental intelligence, paired with proactive engagement with First Nations, reinforces a model of coordinated and well-informed decision-making.”

“support environmental stewardship, economic competitiveness, and respectful engagement with First Nations”

Rajan Sawheny, Alberta Cabinet Minister of Indigenous Relations

INDECISION. **THE THIEF** OF ALL OPPORTUNITY

| **HABITAT LOSS**, BECOMES IRREVERSIBLE

| **RECONCILIATION**, CONTINUES TO BE JUST TALK

| **INVESTMENT**, CONTINUES TO LEAVE

| **UNEMPLOYMENT**, REMAINS AT RECORD HIGH

| **CANADA**, WILL LOSE A BIG OPPORTUNITY

THIS IS THE **STATUS QUO**



A RESTORATION-BASED ECONOMY

BALANCING RESOURCE DEVELOPMENT FOR OUR CHILDREN

RESTORE FASTER. THEN BUILD

RECONCILIATION THROUGH LAND RESTORATION

CERTAINTY UNLOCKS CAPITAL

CREATING JOBS, TODAY

HAVE A SOVERGIEN AND STRONG ECONOMY

TOGETHER WITH SHARED VALUES WE BUILD A
PROSPEROUS CANADA FOR OURSELVES AND
OUR CHILDREN.



CANADA'S OPPORTUNITY
IS HERE.
IT'S UP TO US TO CHANGE



TOGETHER IS A PATH FORWARD TO ACHIEVE WHAT WE ALL WANT

- Land For Future Generations
- First Nation Partnerships
- Sustainable Development
- Resilient Economy

A BETTER FUTURE FOR OUR
CHILDREN. STARTS HERE



READY TO RESTORE OUR PAST AND
BUILD A BETTER FUTURE **FOR**
OURSELVES AND OUR CHILDREN?

EMAIL GENESIS@PRODELTA.CA

*WE HAVE WORK TO DO, **TOGETHER***

