

ONE-PAGER

Title: Proven AI Forest Pest Detection System – Western North America Rollout

Prepared for: George Dang & DK Kang (USASIALINKS)

Funding Goal: \$600,000 USD

Target Region: Oregon → California → Nevada → Idaho → British Columbia → Alberta

The Proof (Not Theory)

Metric	Achievement
Detection Accuracy	>90% for pine wilt disease (PWD)
AI Hardware	NVIDIA H100-enhanced image detection
Current Capability	PWD detection (proven in South Korea Government)
Expansion	Training AI for Mountain Pine Beetle (U.S./Canada West)
Validation	Funded and approved by the South Korean government
Live Evidence	Video clip available showing real detection results

This is not a prototype. This is a field-proven, government-validated system, now supercharged with NVIDIA H100 acceleration.

The NVIDIA H100 Advantage

Before H100	After H100
Slower model training	Faster retraining for new pests (pine beetle)
Lower image throughput	Real-time processing of 10cm drone imagery
Regional limits	Scalable across 6 U.S./Canada regions
Result: >90% accuracy maintained while expanding from PWD to Mountain Pine Beetle and beyond.	

The Problem (Western North America)

Forest pests are devastating timberlands across the region:

Region	Key Threats	Impact
Oregon	Mountain Pine Beetle, Sudden Oak Death	30M forest acres at risk
California	Bark Beetles, Goldspotted Oak Borer	129M trees killed since 2010
Nevada	Pinyon Ips Beetle	Widespread pinyon pine mortality
Idaho	Mountain Pine Beetle, Douglas-fir Beetle	20M+ acres of federal forestland
British Columbia	Mountain Pine Beetle (epidemic)	18M hectares affected, 50%+ timber loss
Alberta	Mountain Pine Beetle, Spruce Beetle	Spreading eastward, threatening boreal forest

Current visual inspections miss 30–50% of early-stage infections across all six regions.

The Solution (Already Built, Now Enhanced)

ElcomTech delivers a complete system:

Capability	Description
Drone-Based Surveillance	High-resolution imagery covering large acreage
AI Detection Engine	>90% accuracy for PWD; training for Mountain Pine Beetle
NVIDIA H100 Acceleration	Real-time image processing at scale
Change Detection	Pre- vs. post-treatment validation
Spread Prediction Model	ML-based forecasting for proactive response
GIS Dashboard	Real-time heat maps for state/provincial agencies

The \$600,000 Deployment Plan (End-to-End System)

Component	Scope	Cost
Drone Data Acquisition	25,000 acres in Oregon	\$120,000 – \$200,000
AI Processing (ElcomTech Korea)	NVIDIA H100-powered detection & training	\$400,000 – \$450,000
Total End-to-End System	Oregon pilot + AI expansion to pine beetle	\$550,000 – \$650,000

Target Fundraising Goal: \$600,000 (within range)

The Video Clip

"I have a video clip showing >90% detection accuracy from a South Korean government-sponsored project, running on NVIDIA H100 architecture. Investors may view it upon request."

Expected Outcomes (18 Months)

- **>90% detection accuracy** for both PWD and Mountain Pine Beetle
 - **20x faster** than ground crews across 6 regions
 - **40% cost reduction** in survey and control operations
 - **30% decrease** in reinfection through targeted monitoring
 - **Scalable platform** ready for additional pests and regions
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Why Start in Oregon → Expand West?

- Oregon as pilot base (strong drone ecosystem, FAA test sites)
 - 25,000-acre initial survey provides proof of concept for U.S. market
 - British Columbia epidemic creates urgent demand
 - Proven Korean technology transfers directly to North American pine species
 - NVIDIA H100 enables rapid retraining for region-specific pests
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The Ask

George Dang and DK Kang (USASIALINKS) are raising **\$600,000** to deploy a **South Korean government-proven, NVIDIA H100-enhanced AI forest pest detection system** across Western North America.

Investors receive:

- Video clip of live detection results (PWD, >90% accuracy)
 - South Korean government validation documents
 - Technical roadmap for Mountain Pine Beetle expansion
 - Financial model for 6-region rollout
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Contact

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Video clip and validation documents available upon request.