

ForestWatch Automated Tower Wildfire Detection System

An OPS Ideas & Innovation Fund Project

Lookout towers have not been used for wildfire detection since the 1960's. A new system that utilizes cameras and image analysis to auto-alarm on fire smoke may breath new life into an old method.

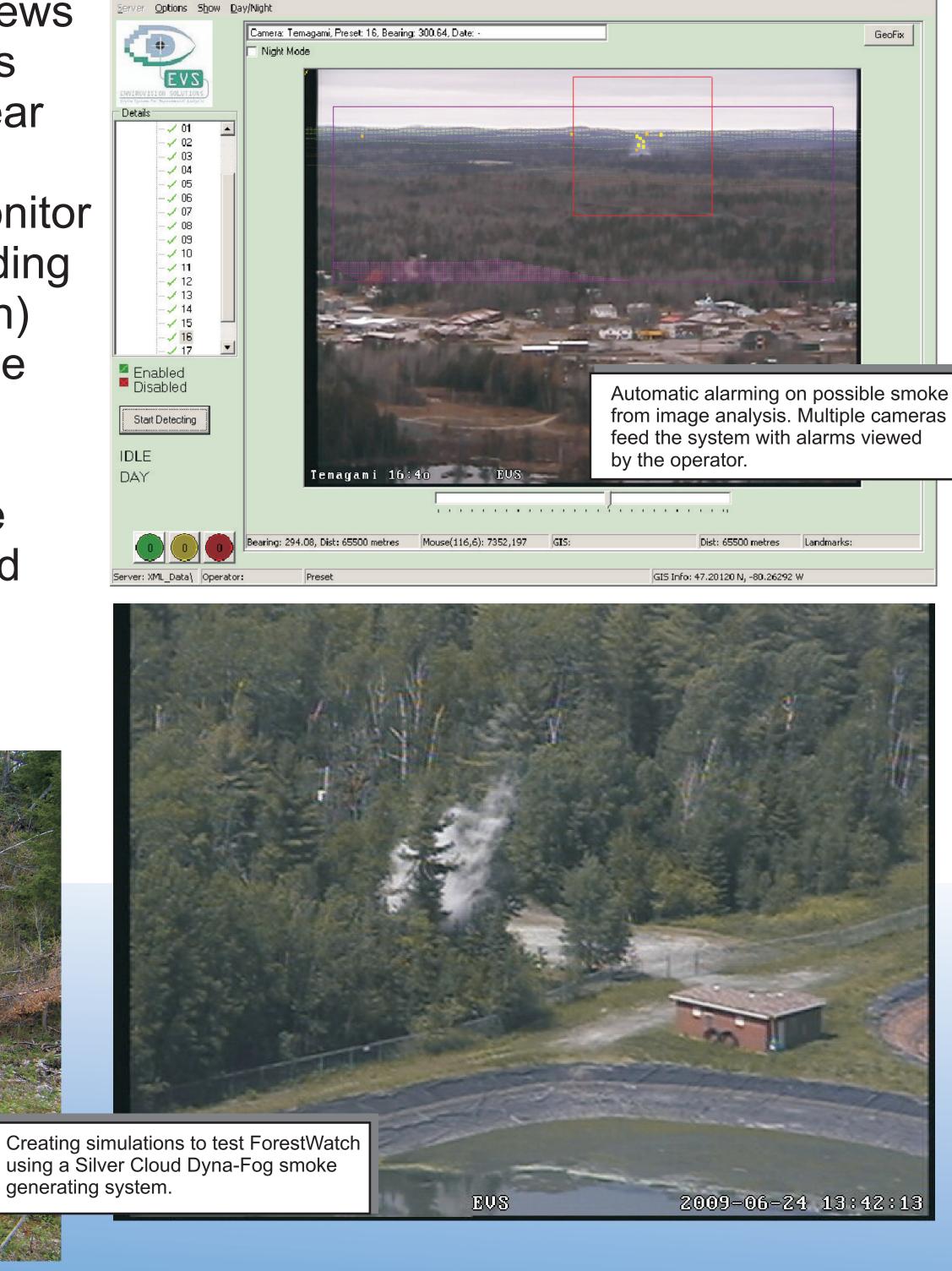
The OMNR evaluated the performance of ForestWatch through a pilot project. There are two tower locations, Atikokan and Temagami.

Sunset date - October 31 2010

FORESTWATCH II SYSTEM BASICS

- Automated alarming on smoke
- Can be Installed on any existing tower or tall structure
- · Can detect a 10'x10' plume of smoke within 10km of tower
- Optimum detection range is
- a19km radius, approximately 100 000 hectares
- Completes 360° scan in 18 views at 20° increments in 5 minutes
- · Night time capabilities with near infrared
- One full time operator can monitor eight to sixteen cameras pending alarm rate (< 2 alarms per min)
- 1.5 GB upload per 24hrs at the tower
- · 35X optical live zoom
- Recording & playback of a life cycle of a fire, 7 days of stored images.





the lone tower watchman in 1950

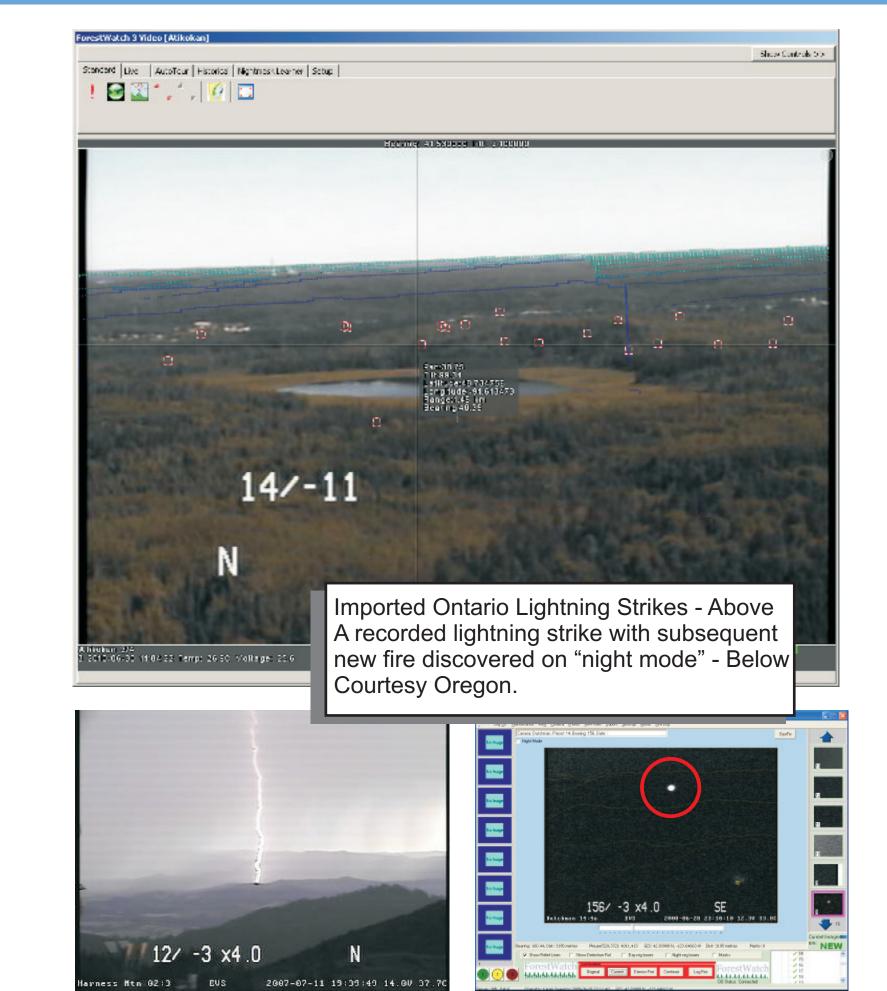
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igital terrain maps that link to the

ForestWatch can be used on any tall

structure and does not require

specifically built fire towers.



Ontario Scoring Critera

