

Defoliating a control line dynamically

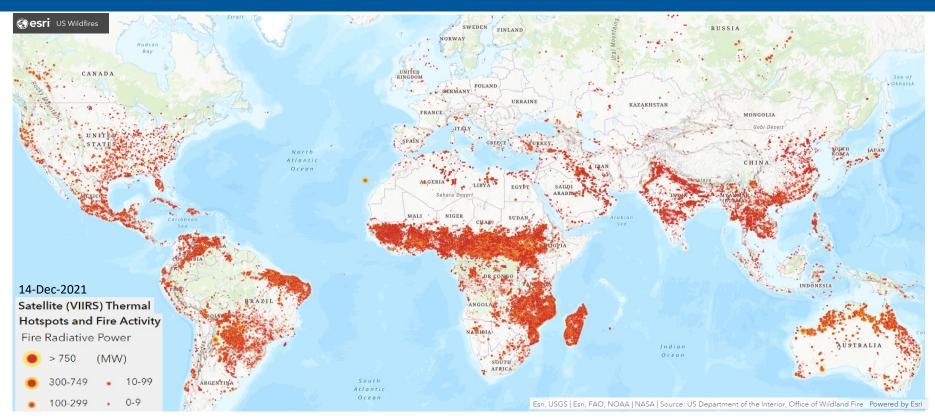




Mr. Leigh Daniel, Founder Mr. Noach Cholev, Co-Founder Dr. Zvika Avni, Forester Ecologist



World's Wildfire Problem



Problems

Annual Effects

The Product

FTF

Patented

Effectiveness

Market Landscape



Wildfire Problem

30% increase in number of extreme fires by 2050 14% increase in frequency of extreme fires by 2030 70,072 wildfires 7 million burned acres 90% wildfires in US are caused by people





Wildfire Effects, USA 2022

Death Toll Resources Debt 345 million gallons of 339,000 deaths \$11.2 billion in damages H₂O 97,804 houses \$26 million on post 1.76 Billion Tons CO₂ destroyed water quality treatment Frequency of extreme 9 million reported 7 million acres burned fires increase 30% by injuries 2050



Solution



Problems Annual Effects The Product

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T A forest after wildfire

Solution



Patented,

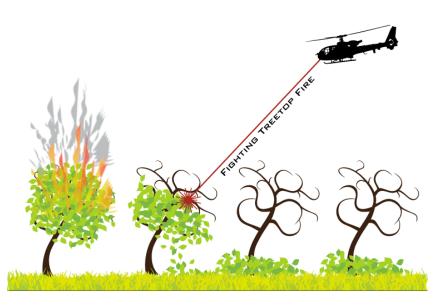
Tel: +972-50-8498118

FTF

info@FightingTreetopFire.com



The Product





WHAT

Al, Laser based technology that strips off tree leaves to prevent advancing fires.



USE

FTF prevents the spread of large and small-scale forest fires. FTF is a reduction technique that should be used with traditional suppression methods.

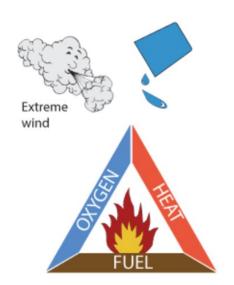


HOW

FTF removes fine-fuel from the fire front in the canopy that stop the advancing treetop fire front. The leaves stack on the ground, increases humidity, and reduces oxygen flow that decreases the intensity of the fire-front.



Water Usage vs. FTF Laser



Strong winds blow away dumped water on the fire line that prevents suppressing Runaway Wildfires



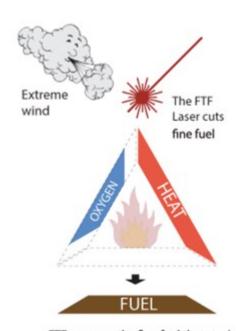
Water Use

- Not effective with extreme winds, as water, chemicals are blown a way
- Water deprives fire its fuel and reduces the heat
- Extreme temperatures may decompose the water. **Increasing fires intensity**



FTF Laser

- Works in strong winds
- · Uses laser to cut down the leaves, which bypasses the problem of strong wind
- Cutting leaves off trees then tackles both the fuel element and on the ground reduces oxygen, in the fire triangle



FTF removes the fine fuel that stack on the ground reducing the oxygen flow that moderates fire intensity

Annual Effects

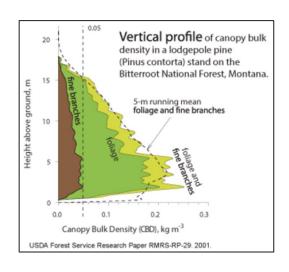
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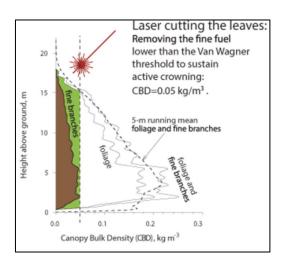
Market Landscape



Effectiveness of Laser Cutting



Patented



- By cutting leaves off trees, FTF system reduces Canopy Bulk Density (CBD)
 - CBD: significant factor controlling the sustainability of treetop fire
- · Van-Wagner Threshold: CBD limit under which the fire cannot sustain itself
- By reducing trees' CBD to below V-W Threshold, stops propagation of treetop fire

Problems Annual Effects The Product Effectiveness Market Landscape Business Model

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Results of Laser Cutting Crown Leaves



Number One

Green leaves are cut off the trees will stack on the ground, the place to where the fire will be confined. Both the water percentage contained in these leaves and the fact that they will stack will help in suppressing the fire on the surface level.



Number Two

Stacking the green leaves on top of the dry leaves that cover the ground leads to harder fuel ignition. The stacking itself reduces the oxygen supply significantly, reducing and slowing down the fire front.



Number Three

Having removed the fuel for the treetop fire, and reducing the oxygen for the ground fire, the FTF system will allow for an easy suppression of the remaining surface fire using traditional suppression techniques such as dropping water or chemicals on the fire directly.



FTF Laser cutting crown leaves



Cut leaves stacked on the ground

- => Reduce oxygen flow
- => Moderate fire intensity

Annual Effects

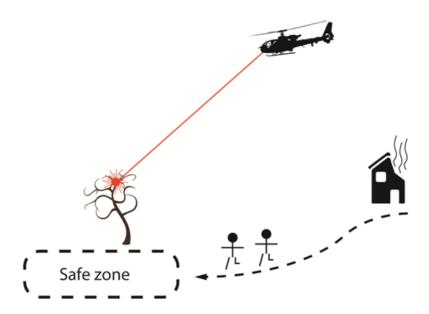
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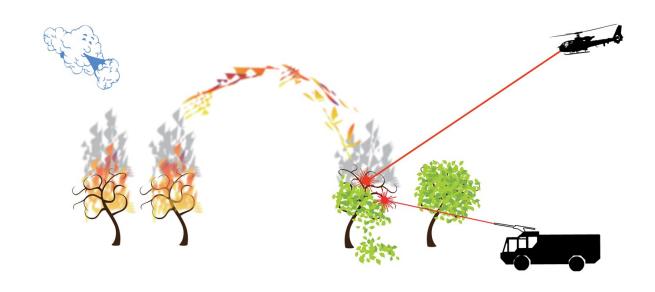
Laser cuts safezone / escape route enabling the rescue of firefighters and residents.



FTF

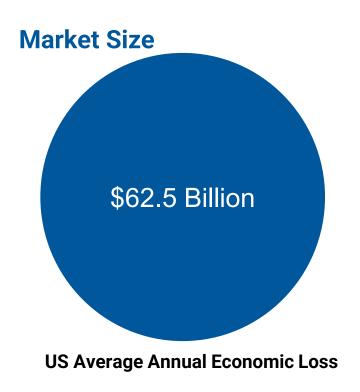


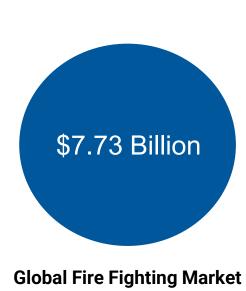
Stop Spotting brands ignition

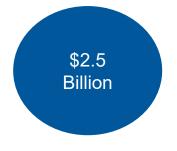




Wildfire Market Landscape 2022







Total Available Market

US Fire Suppression Spending Available Market Share

Annual Effects

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Business Model

FTF



Problems

Business Model

Complete Sale

All Assets

Potential Buyers: defense contractors, utility companies, and PE firms

Licensing Agreement

License IP to a company

Deal Structure: Annual payments with royalties based on sale and leasing of device

Duration: Min. 10 years

Building Value

Conduct experiments to prove product's effectiveness

Attract investors before sale or licensing technology

Annual Effects

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Effectiveness

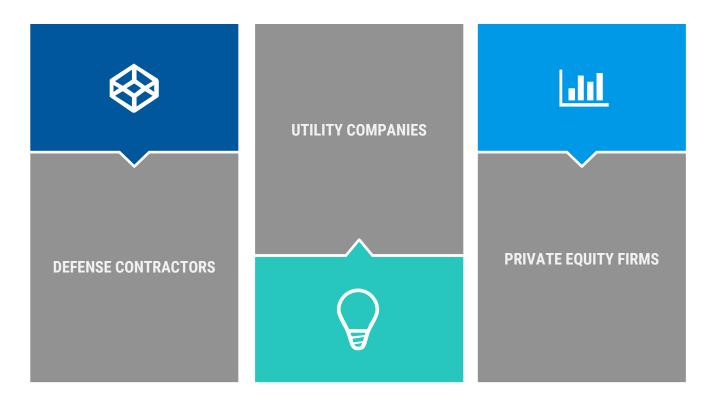
Market Landscape

Business Model

FTF



Potential Buyers



Annual Effects Problems

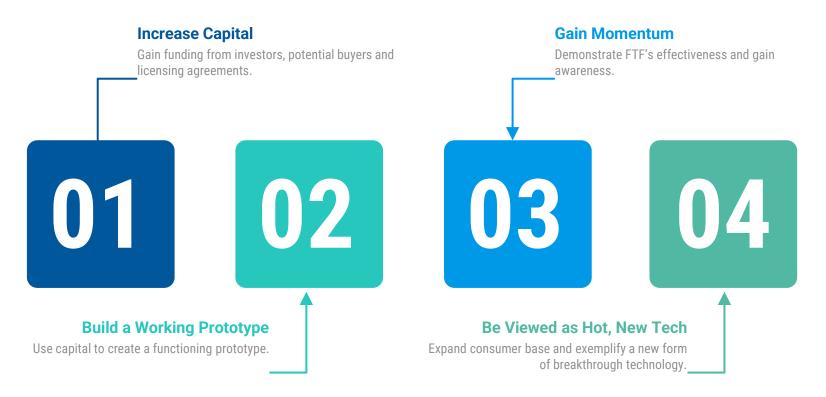
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Next Steps



Annual Effects

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FTF

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THANK YOU!

Any questions?

