

Ultra-Early Wildfire Detection



December 2024

Impact of Wildfires





GLOBAL WARMING

20%

of global CO₂ emissions is caused by wildfires



HUMAN INDUCED

80%

of wildfires are human induced



BIODIVERSITY LOSS



billion animals killed



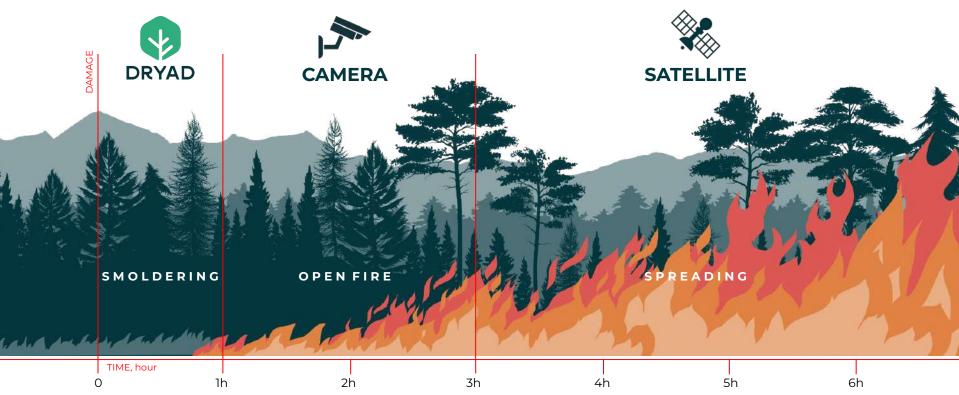
FINANCIAL DAMAGES

\$893

billion economic loss per year in US

Time is of the Essence





Dryad Silvanet™





SENSOR

Solar-powered gas sensors detect wildfires within minutes.



GATEWAYS

Distributed LoRa Gateways provide a large-scale mesh network infrastructure.



MONITORING

Deployment planning, device management, monitoring and alerting.

Large-Scale IoT Mesh Network for Forestry





Optimizing Wildfire Sensor Deployments

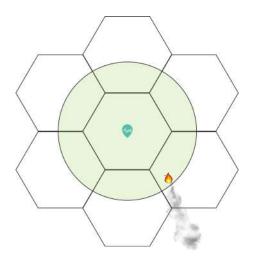




Scaling Ultra Early Detection



Silvanet is able to detect a fire in less than 60 minutes, within a 100m radius

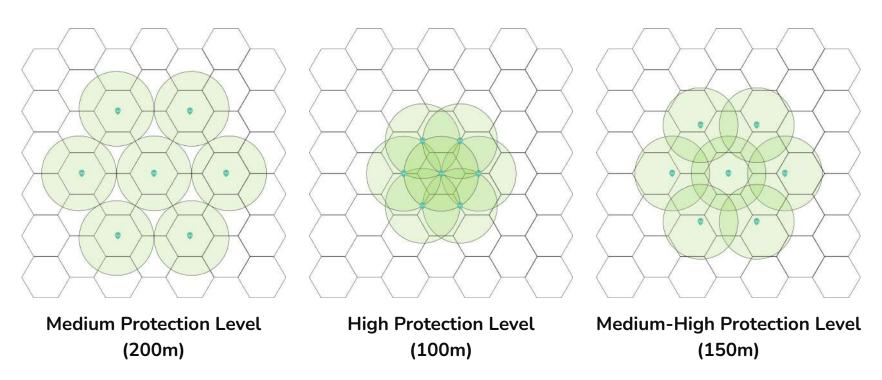


In the field, detection can be impacted by wind conditions

Scaling Ultra Early Detection

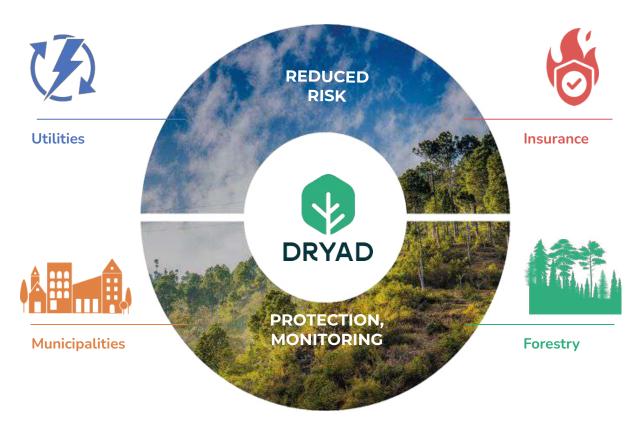


Silvanet enables a Budget-to-Performance flexibility to adapt the customers' requests



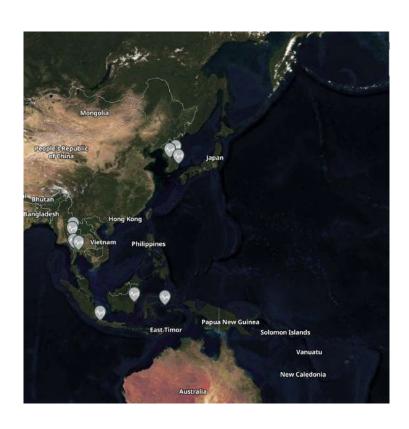
Key Customer Segments





Global Reach with Local Focus





TRACTION



20+ active Resellers in EU, USA and Asia



50+ Paid-for POC / Pilots



+20.000 sensors sold

Pilot

8-12 months

Live

testing and scalability **400+ sensors**

live monitoring
1.000+ sensors

Benefits & Roadmap



ULTRA-EARLY FIRE DETECTION



Protects assets and prevents financial damages



Reduces insurance payments

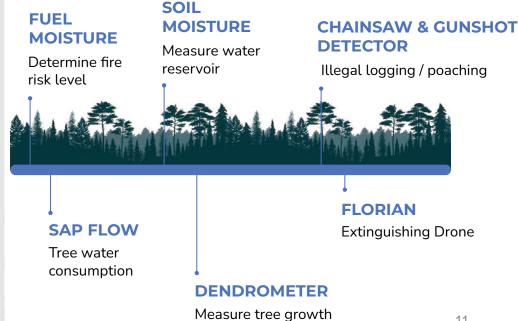


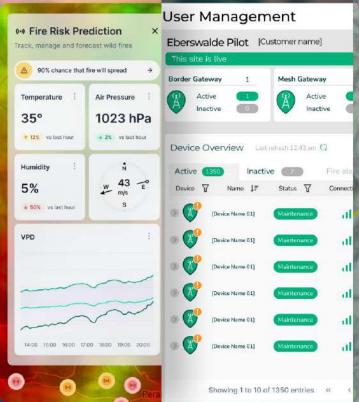
Dramatically **reduces** costs of firefighting

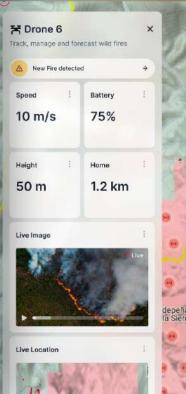


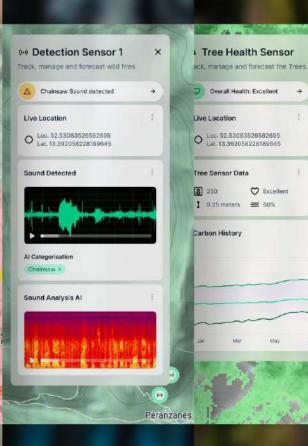
Saves human and wildlife

ROADMAP: FOREST MONITORING









Prediction

Detection

Suppression

Security

Health

Carbon Cap

Sustainable Development Goals



By 2030 we project the following SDG related impact:



2.8 m hectares forest saved from wildfires



15 LIFE ON LAND 166 m animals saved

from wildfires



economic loss



BERLIN-BRANDENBURG GERMANY WWW.DRYAD.NET









