FIRE-RES
Innovative technologies & socio-ecological-economic solutions for fire resilient territories in Europe

29-30th Oct 2024
Penafiel, Portugal

WELCOME TO FIRE-RES MATCHMAKING EVENT

Innovation Day Series

MATCHMAKING, PITCHES, SUCCESS STORIES & NETWORKING

Hosting organizers:

CoLAB forestwise®

Instituto Superior de Agronomia

Innovative Days Series Organizers:

CTFC

INESCTEC

EFI

tecnosylva

EUROMONTANA

This project has received funding from the European Horizon 2020 research and innovation programme under grant agreement No 101037419

WELCOME TO FIRE-RES MATCHMAKING EVENT

Carlos Fonseca
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CoLAB forestwise®

José Borges
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Universidade de Lisboa

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OPENING OF THE INNOVATION SESSIONS

CoLAB forestwise®

Brigite Botequim

brigite.botequim@forestwise.pt

FIRE-RES Living Lab co-leader

Collaborative Laboratory for Integrated Forest and Fire Management

Senior researcher

Wifi: PENAFIELACTIVA

PASSWORD: penafiel

29-30th Oct 2024
Penafiel, Portugal

AGENDA
Innovations sessions

Morning

Main speaker (10')
Innovation pitches (5')
Q&A (20')

11:15 – 12:15

Chair: Madalena D. Ferreira (CoLAB ForestWISE)

I - Innovations addressing extreme wildfires through technologies/methodologies

12:20 – 13:10

Chair: Cátia Santos (CoLAB ForestWISE)

II - Innovations facilitating fire-smart communication

13:10 – 14:30 Networking Lunch (Atrium)

AGENDA
Innovations sessions

Afternoon

Main speaker (10')
Innovation pitches (5')
Q&A (20')

Chair: Brigite Botequim (CoLAB ForestWISE)

14:30 – 15:20

III - Innovations creating resilient territories from multiple perspectives

Chair: Daniela Teixeira (CoLAB ForestWISE)

15:20 – 16:10

IV - Innovations relying on, or enhancing, nature-based solutions

16:10 – 16:45 Networking & afternoon coffee (Atrium)

AGENDA
Round table discussion

Afternoon

Main speaker (10')

Invited experts from the forestry, economic, and entrepreneurship dimensions

Q&A (20')

16:45 – 17:30

Chair: Alípio Torre (INESC TEC)

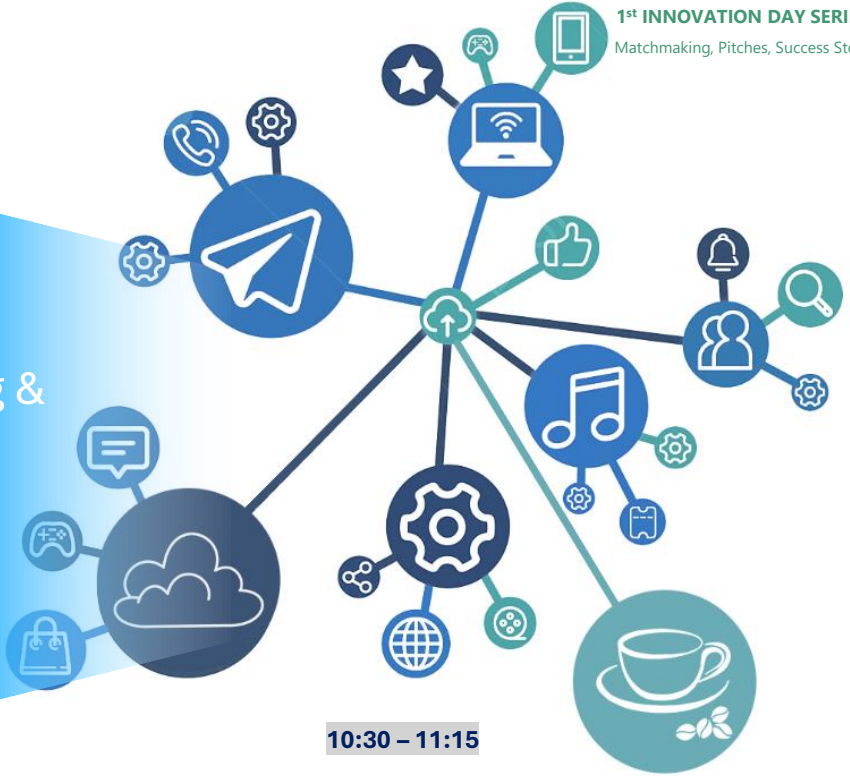
"A Boost for Financial Resilient Innovations in Wildfire Management"

17:30

Brigite, B. & Borges, J.

Portuguese Living Lab Leaders Closing Words

Open Networking & Morning Coffee (Atrium) > 45’



10:30 – 11:15

THEME I

"Innovations addressing extreme wildfires through technologies/methodologies"

CHAIR: Madalena D. Ferreira
CoLAB ForestWISE

29-30th Oct 2024
Penafiel, Portugal

MAIN SPEAKER

INESCTEC

Fábio Silva

fabio.m.silva@inesctec.pt

INESC-TEC and FEUP

The Innovation Challenge: Closing the Gap Between Theory and Practice

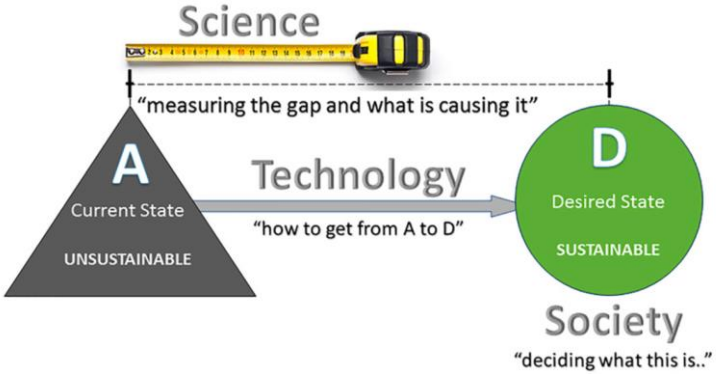
Main challenge:
"translate complex information in common language..."

Maps, graphs, tables, statistics... they are very attractive,
even when they are not substantiated!!!

The Innovation Challenge: Closing the Gap Between Theory and Practice

(Dis)connection

Understanding the interconnected roles of science, technology, and society is essential for addressing sustainability challenges effectively

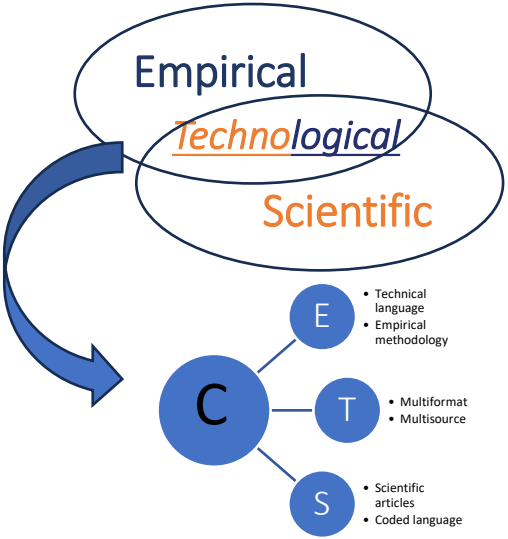


A strong relationship between **empirical**, **scientific**, and **technological** knowledge **is vital** for developing innovative solutions that are practical, reliable, and widely accepted by society.

Source: Voulvoulis, N., & Burgman, M. A. (2019). The contrasting roles of science and technology in environmental challenges. *Critical Reviews in Environmental Science and Technology*, 49(12), 1079-1106. https://doi.org/10.1080/10643389.2019.1565519

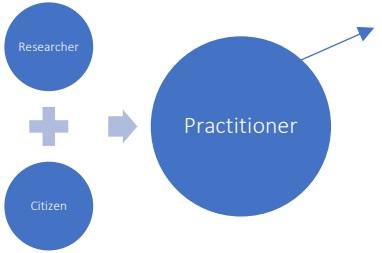
The Innovation Challenge: Closing the Gap Between Theory and Practice

"Types of knowledge"



Two Communication Gaps:

- Researcher – Practitioner
- Practitioner - Citizen



The Innovation Challenge: Closing the Gap Between Theory and Practice

Researcher VS Practitioner

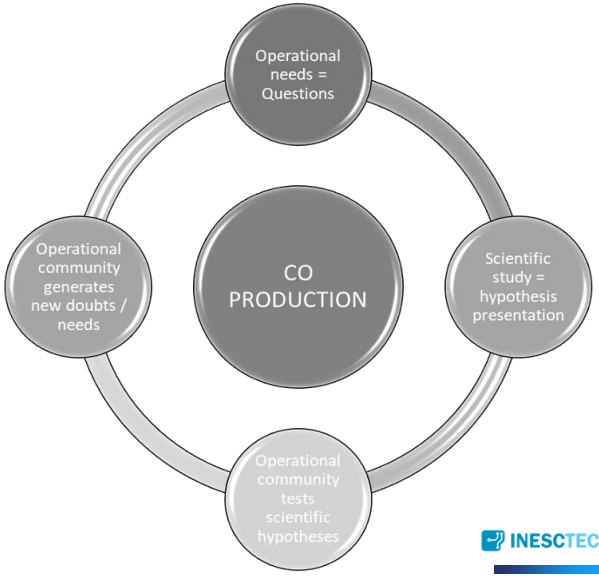
	Doesn't know he has a problem	Knows he has a problem, doesn't know the solution	Knows he has a problem, knows the solution
Doesn't want to know the practical problem	Business as usual		
Doesn't know the practical problem		Knowledge transfer	
Knows or wants to know the practical problem			**Co-creation**

Source: Akli Benali

The Innovation Challenge: Closing the Gap Between Theory and Practice

How can Science contribute?

- ✓ Understand the needs of practitioners
- ✓ Develop targeted research
- ✓ Co-develop products useful to support better decision-making
- ✓ Integrate lessons learned
- ✓ Participate in capacity building
- ✓ Be presente and available



INESCTEC

The Innovation Challenge: Closing the Gap Between Theory and Practice

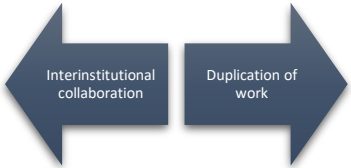
The Innovation Challenge: Closing the Gap Between Theory and Practice

APPLICABILITY

Before developing any project, evaluate its practical applicability

Quality/efficiency???

Too many projects



We need

More synergy

and

practical results from investments

The Innovation Challenge: Closing the Gap Between Theory and Practice

Successful case study

Source: https://www.safecommunitiesportugal.com/new-technologies-a-campus-and-peace-with-firefighters-what-is-changing-in-civil-protection/

Special Achievement in GIS Award

2021 SAG Award Winners

2021 SAG Award Winners List » Learn More

ANEPC - Autoridade Nacional de Emergência e Proteção Civil

Project Goal

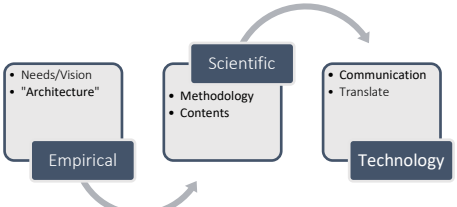
FEB Monitoring is a Portuguese civil protection geographic information system used for the collection, production, statistical andgeostatistical predictive analysis of information, to assist the operational planning activities of the emergency and civil protection nationalservices, as well as a tool for the support of the activities of strategic planning. The project promotes the innovation and development oftools that contribute to improving the effectiveness and efficiency of action by the elements of the national civil protection. It's a notableexample of the contribution of GIS to the effectiveness of action, efficiency and economy.

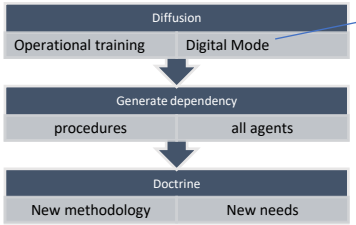
Business Problem Solved

Provision of a general geographic analysis tool via the web with multiple capacities for providing tailored geographic analysis,with the ability to integrate basic information that enables the creation of automatic workflows that produce context data for the entireterritory of Portugal in a format that can be transported for assistance in operations performed on the ground. The implementation of this tools result in a strengthening off the support for operational decision, the availability of information and image data in real time and in an optimization of resource commitment.

Source: https://events.esri.com/conference/sagList/?fa=Detail&SID=3188

Why???





Tutorials: https://www.youtube.com/watch?v=BligLpX4CoE&list=PLPC0v7IsYefqiQiETrNI_PNSTuB_5x7gK&index=3&ab_channel=FEPC%7CGAUFC

INESCTEC

The Innovation Challenge: Closing the Gap Between Theory and Practice

Necessary improvements

- ✓ Joint work between **end users and developers** from the conception of the idea, and in all processes, is crucial.
- ✓ More than having consecutive joint projects, organic units need to **work together**...

OIC PITCHER

HEPHAESNUS

Amaro Martins

amaroffsm@hephaesnus.com

CEO of Hephaesnus

PITCH

"Hephaesnus PREVENT Solution"

Amaro Martins
Hephaesnus Lda

29-30th Oct 2024
Penafiel, Portugal

Hephaesnus

Efficient and **Autonomous** Firefighting

HEPHAESNUS

Forest Fires, a Rising Calamity

Pedrogão Grande, 2017

Jasper, 2024

986 740
Fires in 2023

Carmo Industries, 2024

Interecycling Industries, 2024

PREVENT

100% Autonomous
Detection and
Firefighting

Safety Perimeter

Ornamental,
Premium Value

Patented Design

HEPHAESNUS

PREVENT: Main Market Advantages

No connection to electricity or water needed

24/7

Always Active – Always with you

Full Protection of wooden structures

Fully Autonomous

Added Value to your Property!

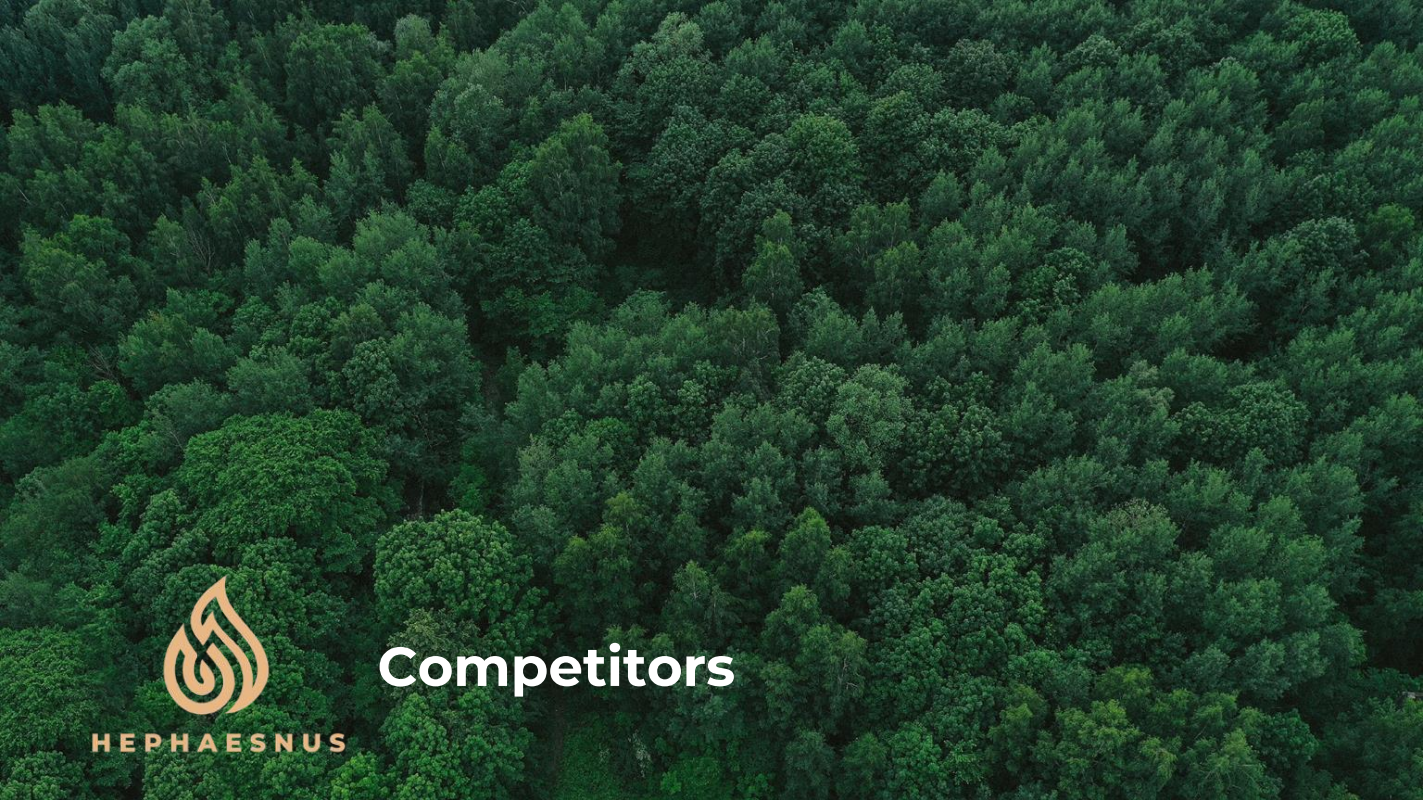
Current Market Data

80 %

Out of 10 companies want a physical demonstration of the Vase*****

PREVENT use in Rural Asset(120 m^2)

*Physical Demonstrations to be carried out until December 2024



Competitors

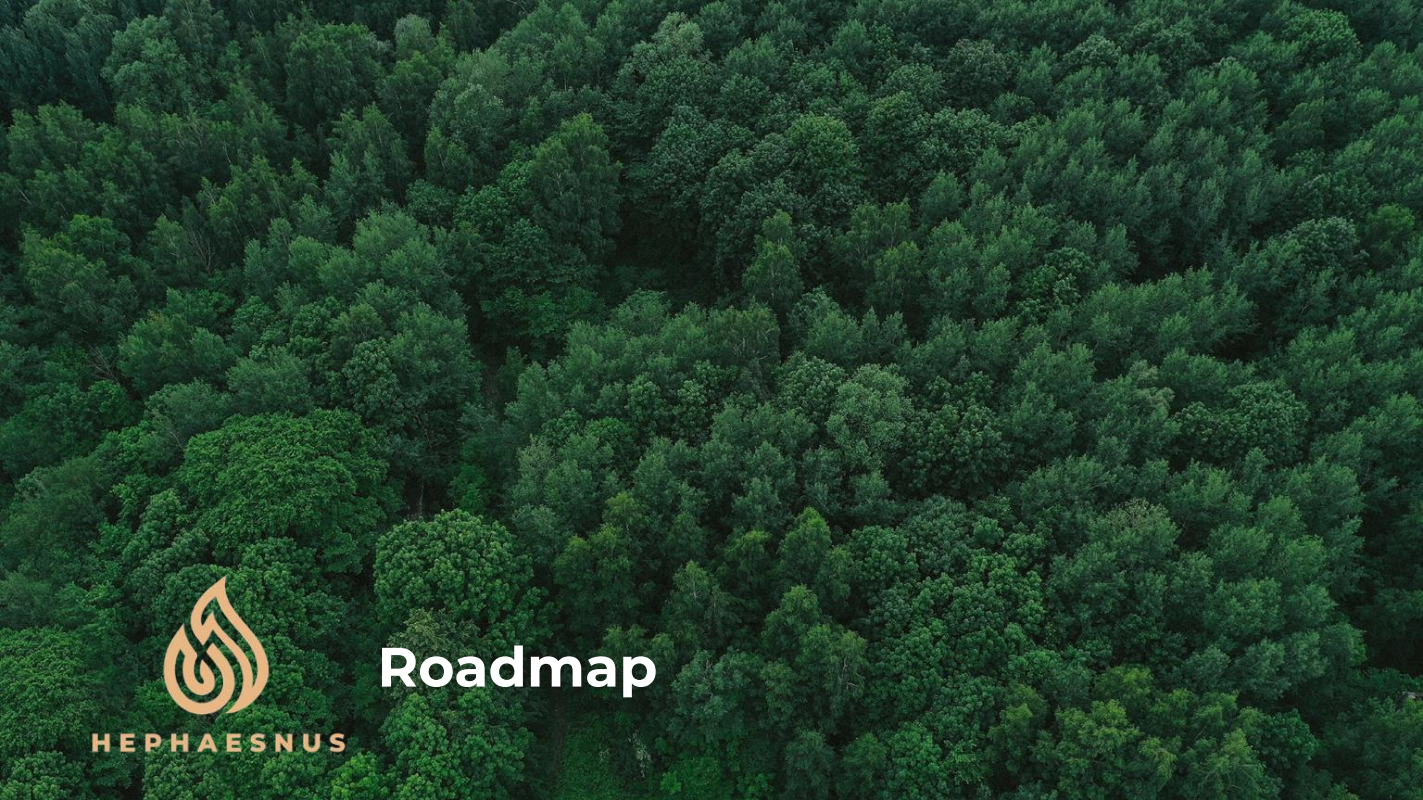
Competitors

Sprinkler Systems

- High Costs
- Requires permanent connection to water and electricity systems
- Dwindling Cost-Efficiency

Emerging Technologies
(e.g. Elide Fire & FirePro)

- High Costs
- To be used in confined spaces only
- Dangerous activation technology



Roadmap

Roadmap

PREVENT

Last Software Tests

Today

PREVENT pre-Launch

2025

Product Promotion and Internationalisation (Spain)

Team

Team

Amaro Martins
MA
CEO

Project Manager & Innovation Financing
Human Resources Management
Marketing & Communication

Henrique Bastos
MSc
CEO

Research and Pipeline Development
Laboratorial Testing and Product Development

Dra. Catarina Pinho
R&D Director

PhD in Material Engineering

R&D Planning
Product Development

Élio Fonseca
Chief Production Manager

50 Years Experience;

Production Management Operations

Amanda Arvizu
Mechanical Engineer

Product Development & Operations

Dr. Sajad Kiani
Scientific Advisor

HEPHAESNUS

Join the Change in Fighting Forest Fires!

hephaesnus.com

Amaro Martins - CEO

amaroffsm@hephaesnus.com
912948410

Henrique Bastos - co-CEO

hxsbastos@hephaesnus.com
917958117

OIC PITCHERS

MEJOR TECHNOLOGIES

Melvin Sieben & Sven Kooistra

m.sieben@mejortechnologies.com

MEJOR Technologies BV

PITCH

"LUCI: AI wildfire susceptibility and CHRIS: instant wildfire mapping"

Melvin Sieben & Sven Kooistra
MEJOR Technologies BV

29-30th Oct 2024
Penafiel, Portugal

MEJOR
TECHNOLOGIES
Wildfire solutions

MEJOR Technologies

LUCI & CHRIS

Portugal: 30-10-2024

The team

Melvin Sieben
CEO & co-founder

Joris Kohl van Wijngaarden
CTO & co-founder

Bob Vos
Software developer

Luc Vermeer
AI: software engineer

Yagmur Mavruk
AI: software engineer

Sven Kooistra
Environmental scientist: remote sensing specialist

Marijn van Tilburg
AI: Robotics

Hanna Hyvärinen
Marketing officer

We are MEJOR Technologies

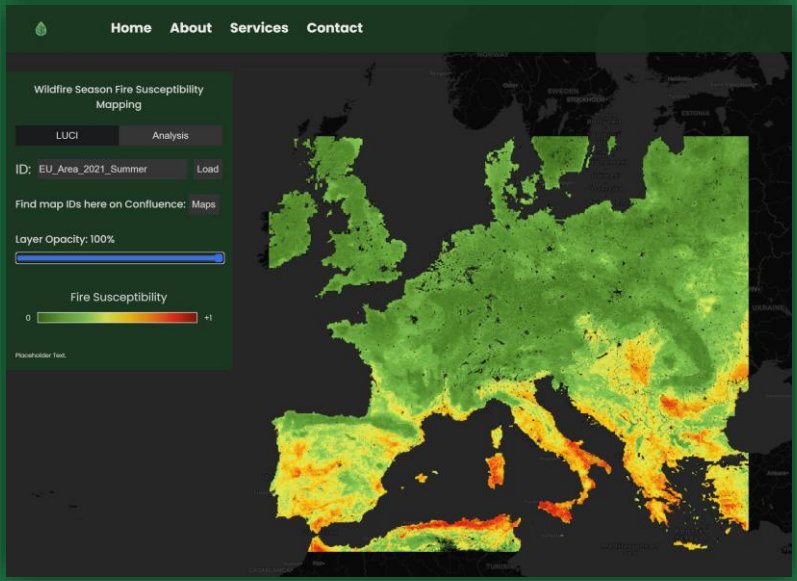
We are a company that specialises in AI visualisation software that focuses on pre- and during-wildfire management.

Our dedicated team is driven to join the fight against wildfires.

Our innovative solutions offer new ways to prevent and improve wildfire fighting

MEJOR TECHNOLOGIES

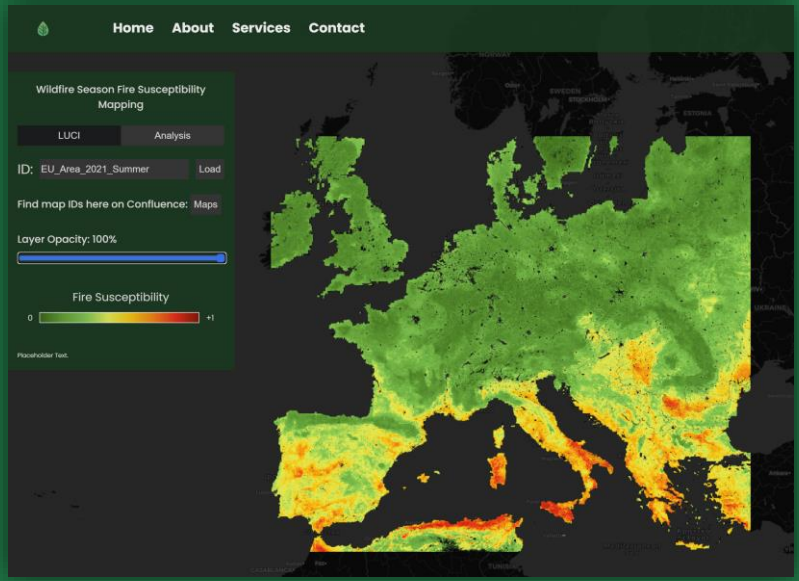
LUCI: Wildfire susceptibility



MEJOR TECHNOLOGIES

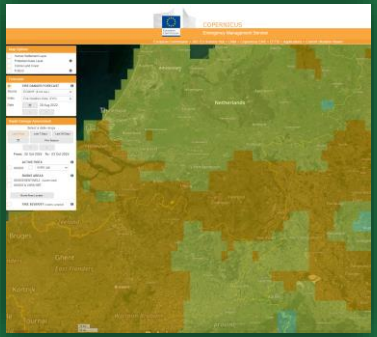
What is LUCI?

- ML algorithm
- Wildfire susceptibility
  - 10x10m resolution
  - Globally applicable
  - ~90% accurate



MEJOR TECHNOLOGIES

LUCI: wildfire risk maps

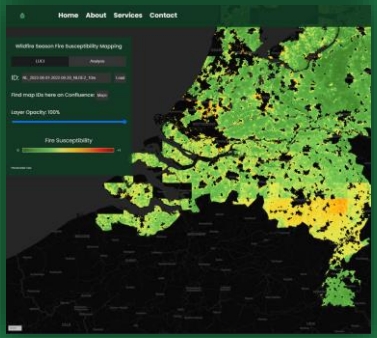


Canadian Fire Weather Index: Industry standard

European system based on industry standard: Canadian fire weather index (CWFI):

- Only Weather data
- No Seasonal trends
- Low resolution
- No transparency
- Non-burnable surfaces included (water, urban, etc.)

European Forest Fire Information System. (2022). *Fire Weather Index map for 31-08-2022*. Retrieved from https://effis.jrc.ec.europa.eu/



LUCI: Our improvement

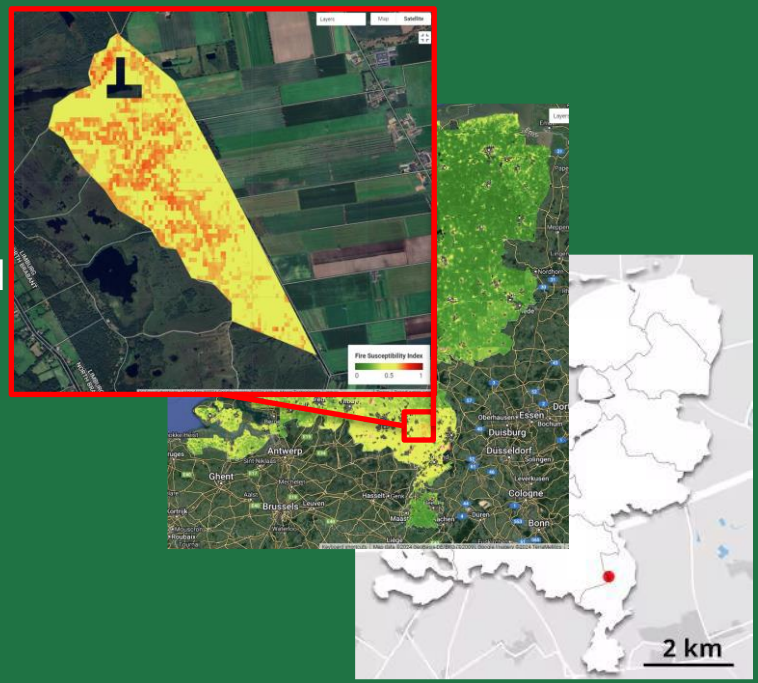
MEJOR Technologies' novel way of determining wildfire risk can:

- Improve on all items mentioned above
- Explain what the risk drivers are
- Provide plannable information in advance
- Make information actionable.

MEJOR TECHNOLOGIES

Value of LUCI?

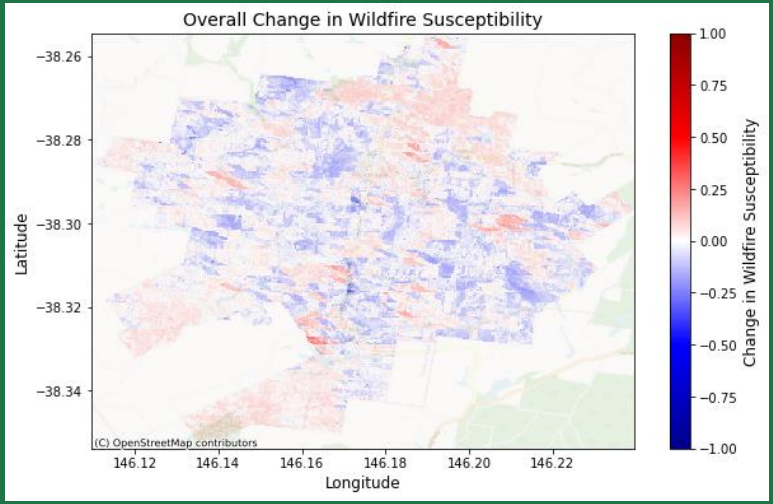
- Risk drivers explained
- Actionable insight
- Support mitigation



MEJOR TECHNOLOGIES

LUCI Trend Analysis

- Historic data:
  - Leverages historic maps to assess susceptibility trends
- Trend Visualization:
  - Visualization of wildfire susceptibility trends across regions
- Optimize resource deployment



MEJOR TECHNOLOGIES

CHRIS:

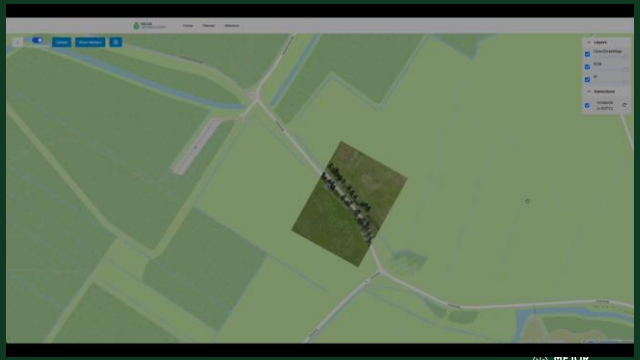
Wildfire Response Support

CHRIS: Wildfire Response Support

- Convert a standard drone video (picture 1) feed into a satellite map (picture 2):
  - Get a live map within 30 seconds
  - Continuous mapping
  - Live mapping without landing

Our YouTube

Compatible with:
- DJI
- TAZDrones
- Tective
- Using compatible picture frames containing:
  - Gimbal data
  - GPS location
  - Focal length of camera



CHRIS: Wildfire Response Support

- Automatic fire detection (picture 1)

Use Infrared or our RGB detection model to instantly detect a fire

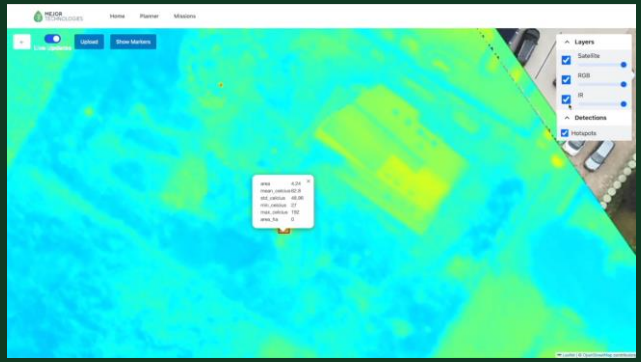
- **Automatic fire-line visualisation (Picture 2)**

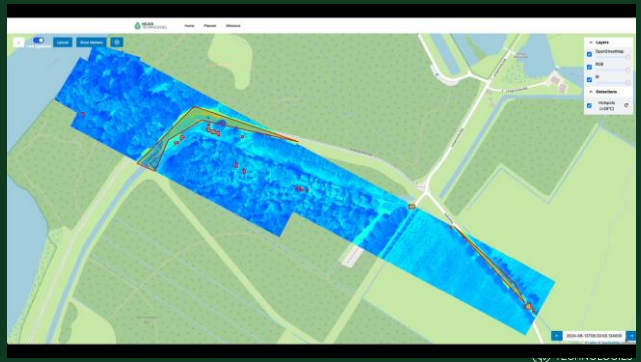
Automatically draws the fire-lines onto the map giving an instant overview

- **Continuous spread simulations (reach out for a demo)**

Simulate future spread using the fire-lines as a starting point.

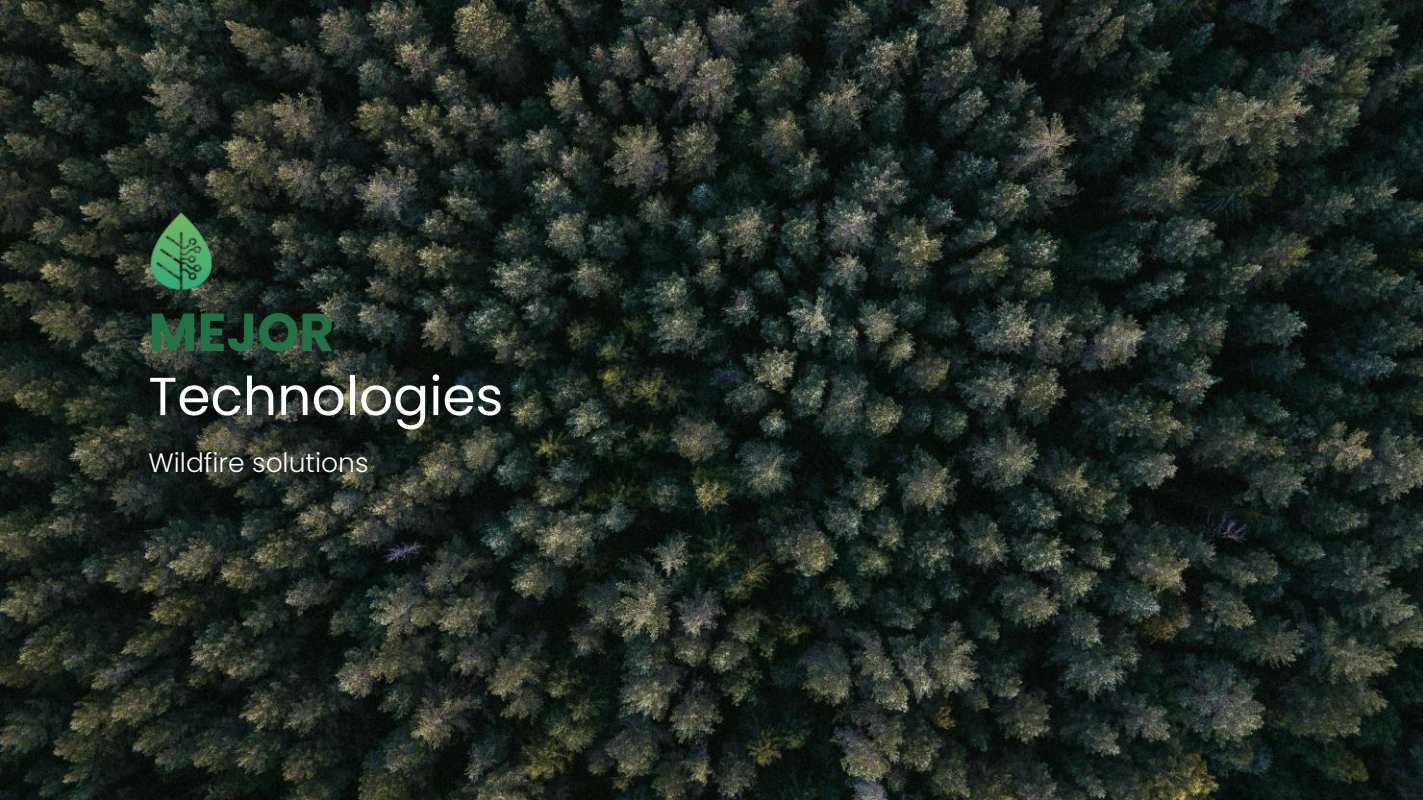
Our YouTube





Thank you

Projects	Research	Co-creation
Europe, Australia, India, Brazil and more	Universities, partners, government	Government, private, etc.


MEJOR
Technologies
Wildfire solutions

OIC PITCHER

CoLAB forestwise®

Dr. Muhammed Ali Örnek

maornek@nowildfire.com

ForestGuard
Co-Founder

PITCH

"AI Revolution for Forest Fires: From Detection to Action in Minutes "

Dr. Muhammed Ali Örnek
ForestGuard

29-30th Oct 2024
Penafiel, Portugal

AI Revolution for Forest Fires

From Detection to Action in Minutes

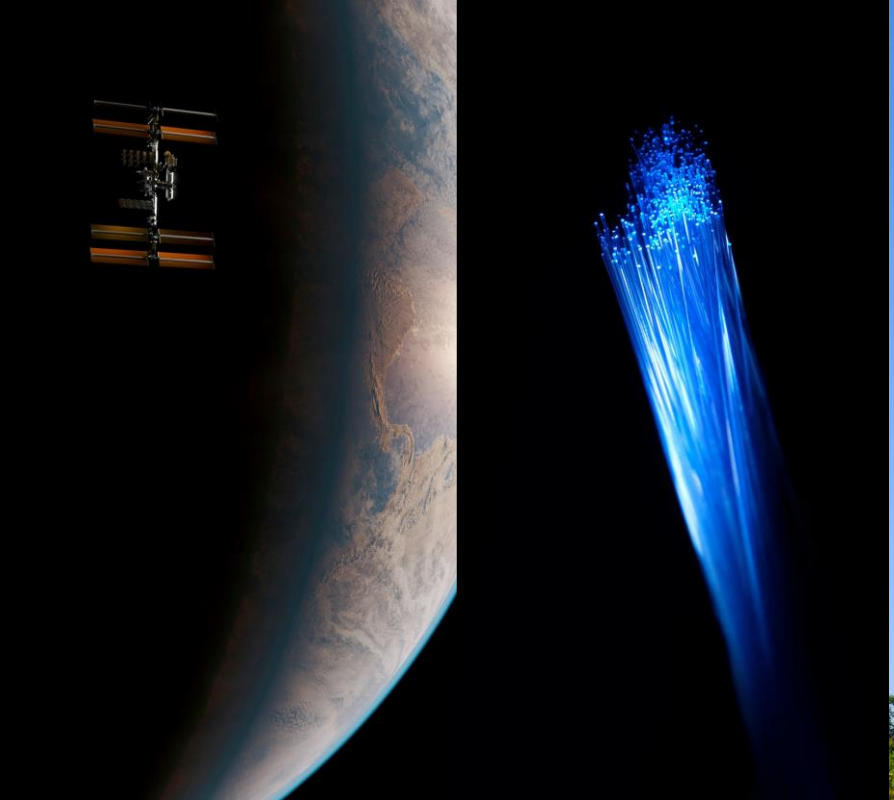
ForestGuard


Wildfires causes
$ 140 Billion
economic damages
per year
globally.
ForestGuard

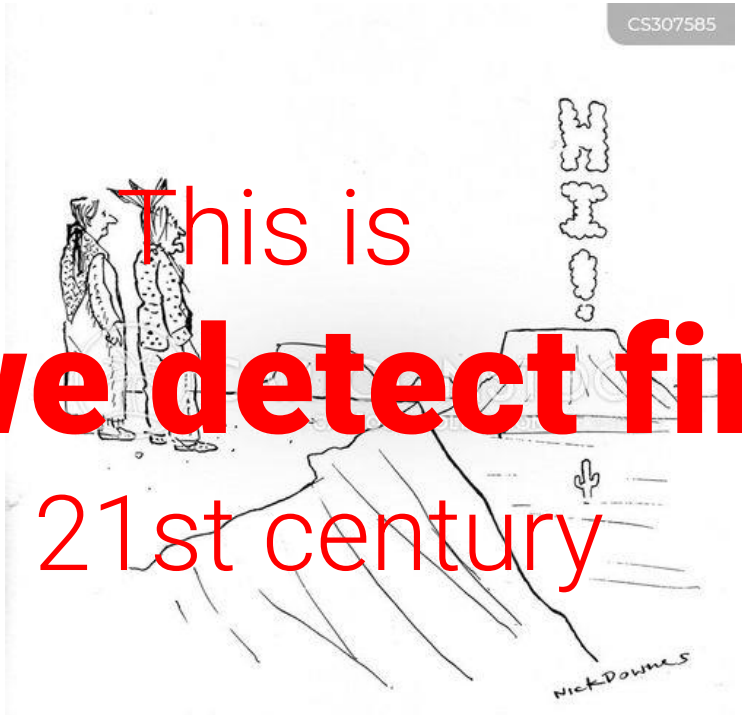

Wildfires causes
20%
of global CO_2 emissions
ForestGuard


Wildfires causes
3.000.000.000
biodiversity loss
ForestGuard


causing
80%
of global fires
Main responsible
ForestGuard




ForestGuard



"Little by little, we're losing the old ways."

This is

how we detect fires

in 21st century

ForestGuard


mop the floors?
or
turn off the tap?
ForestGuard

question is...

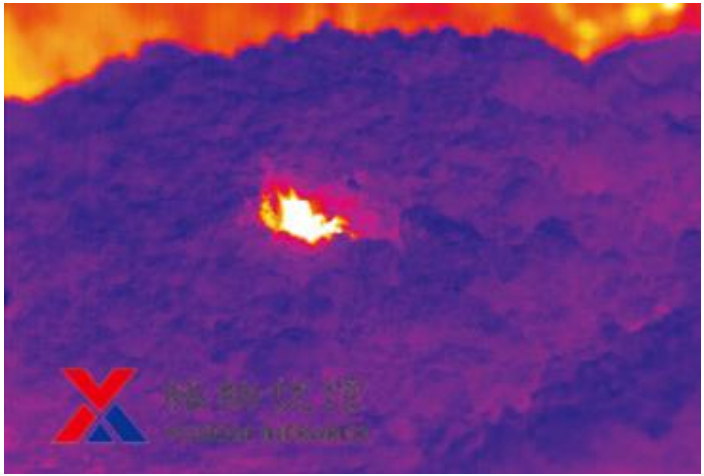
why can't we detect fires earlier?

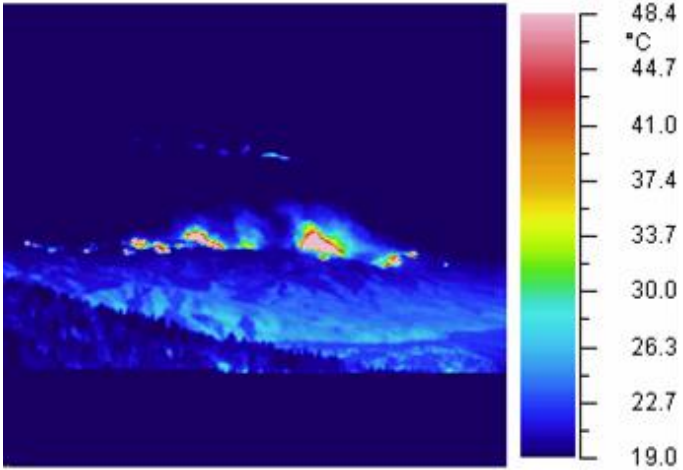
we believe
the answer is...

data refresh rate


Satellite
ForestGuard

Thermal Cam





Cam Detection


IoT Devices
ForestGuard


this is
sign of fire
this is
not
ForestGuard

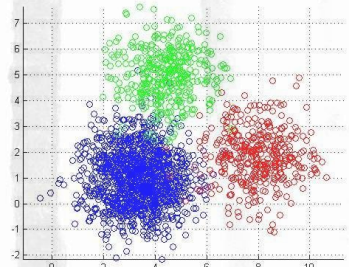

this is
early detection
this is
not

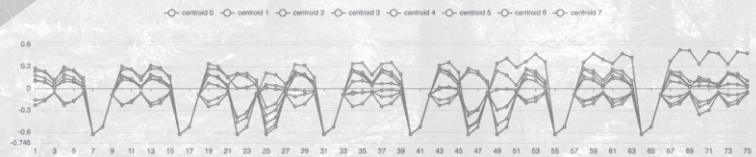
how...

can we detect fires even if there is no fire

AI DETECTION

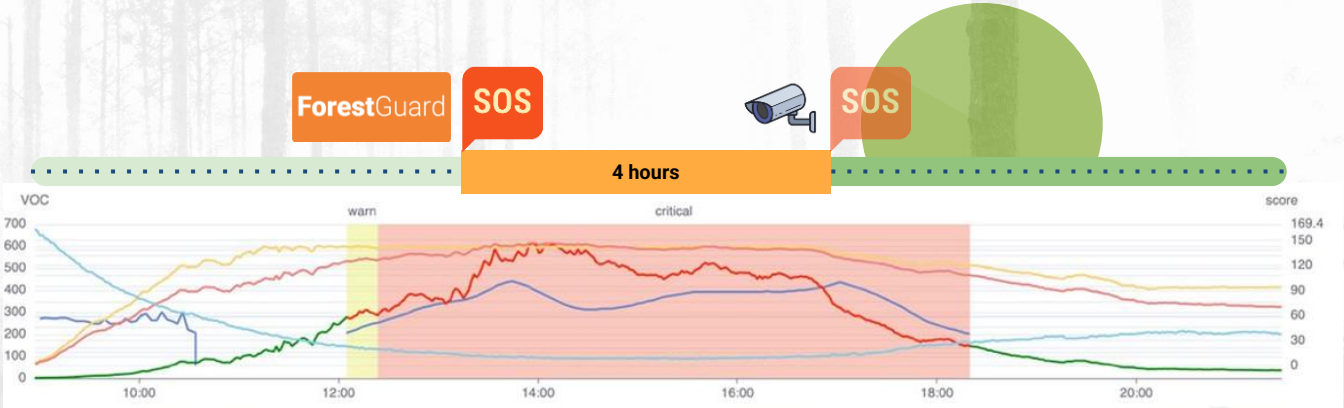
Temperature (-40 - 85'C)
Relative Humidity (%10 - 90)
Pressure (300 - 1100 hPa)
Movement (X, Y, Z)
Air Quality Index
VOC (Volatile Organic Component)
TVOC (Total Volatile Organic Component)
PM 1 (Particule 1 micrometer)
PM 2.5 (Particule 2.5 micrometer)
PM 10 (Particule 10 micrometer)
CO (Carbonmonoxide)
CH4 (Methane)
C2H5OH (Ethanole)
C3H8 (Propan)
C4H10 (Buthane)
H2 (Hydrogen)
H2S (Hydrogen sulfide)
NH3 (Ammonia)
...





DETECTION SPEED

Our technology can detect fire **4 HOURS** before any **visible smoke** emerges.



PRODUCT

Our affordable satellite connectivity and solar-powered sensor modules allow **infrastructure-free** service.

AWARDS



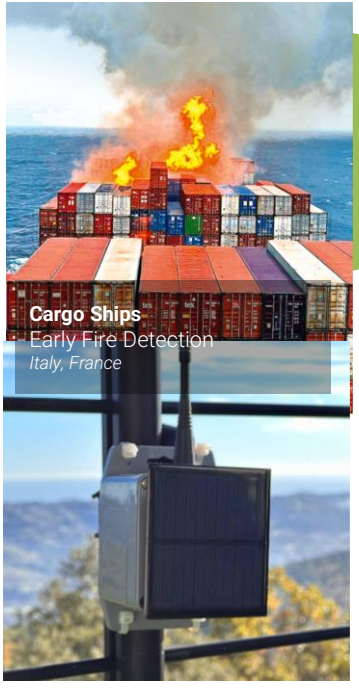



- **TechCrunch Distrupt** - Final 20 (%0,6 Success)
- **Dutch Design Week** - Young Talent Award
- **WDCD24** - Challenge Winner
- **MWC 2024** - “Top 50 Startup” Award
- **Green Matters** - Greenlight Award 2024
- **CES 2024** - Wall of Fame
- **Teknofest 2023** - “Best Disaster Tech” Award
- **TakeOff 2023** - “Best Disaster Tech” Award
- **ISIF23** - “Golden Patent” Award
- **James Dyson Award 2023** - National 1st Award
- **TTN 2023** - Wall of Fame
- **James Dyson Award 2022** - National 2nd Award

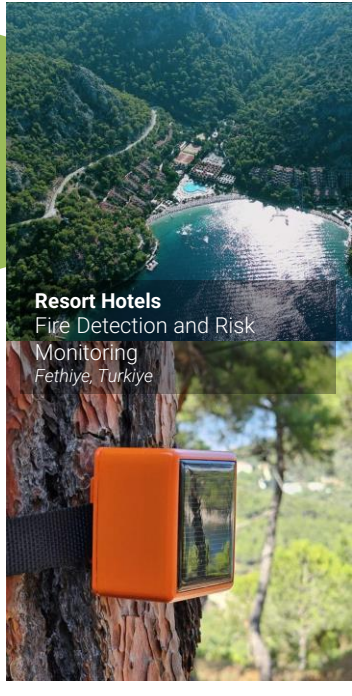
APPLICATIONS

Paper Recycling
Fire and Smoke Detection
Istanbul, Turkiye

Methane Energy Plant
Flammable, Poisonous and Explosive Gas Detection
Istanbul, Turkiye



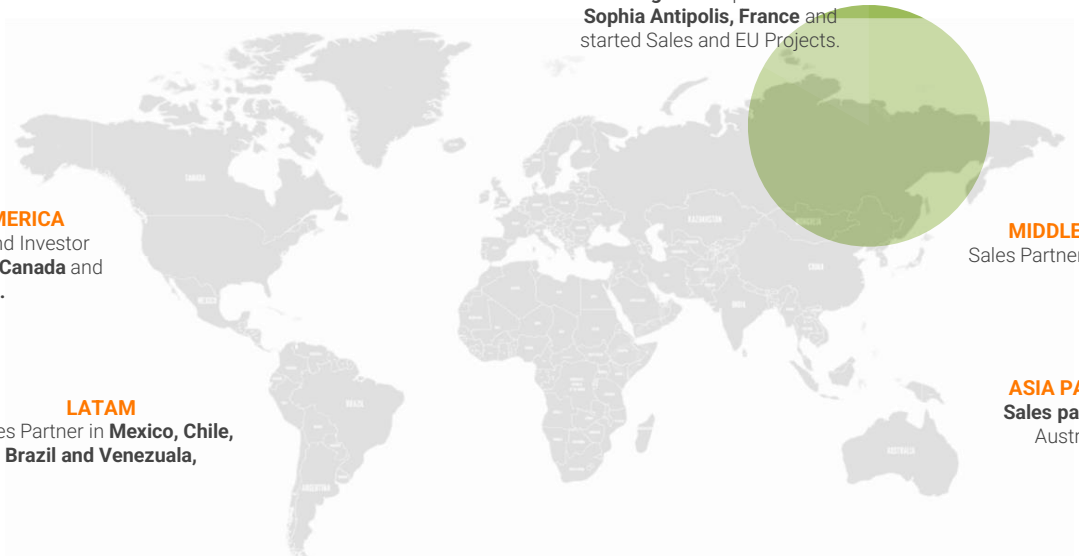
Cargo Ships
Early Fire Detection
Italy, France



Resort Hotels
Fire Detection and Risk Monitoring
Fethiye, Turkiye

GLOBAL TRACTIONS

EUROPE
Active Sales in **Turkiye**, **Spain, Portugal.** Incorporated in **Sophia Antipolis, France** and started Sales and EU Projects.



NORTH AMERICA
Distributors and Investor Negotiations in **Canada** and **USA.**

MIDDLE EAST
Sales Partner in **Jordan.**

LATAM
Sales Partner in **Mexico, Chile, Brazil and Venezuala,**

ASIA PACIFIC
Sales partner in Australia

TEAM

Muhammed Ali Örnek, PhD

Business & Operation
Co-Founder

Business

Tech

Suat Batuhan Esirger, MSc

Innovation & Production
Co-Founder

Mehmet Selim Yavuz, PhD

Software Development Director

Rana İmam Esirger, MSc

Product Development Director

Nur Örnek

Brand Design Director

Defne Turan

Research & Incentive Director

Onur Sertgil

Hardware & Software Development

SEED ROUND INVESTMENT

Investment will be used mainly for device development, global market penetration, and keeping key personnel in startup.

€1.5M
Seed Round

10.000
Active Devices

€6M
Revenue over 18 months

Our Pre-Seed Investors

SABANCI ARF ITUARI TEKNOKENT

MILESTONES


2022
Founded
2023
Pre-Seed
€250k
Investment
2024
Seed
€1.5M
Investment
Goal
€6M
Annual Revenue
2025
Bridge
€2.8M
Investment
Goal
€14M
Annual Revenue
2026
Series A
€5.2M
Investment
Goal
€23M
Annual Revenue
2027
Break-even
Goal
€42M
Annual Revenue
2028
Goal
€78M
Annual Revenue

ForestGuard

nowildfire.com

ForestGuard

Q&A
(20’ mins)

THEME II

"Innovations facilitating fire-smart communication"

CHAIR: Cátia Santos
CoLAB ForestWISE

29-30th Oct 2024
Penafiel, Portugal

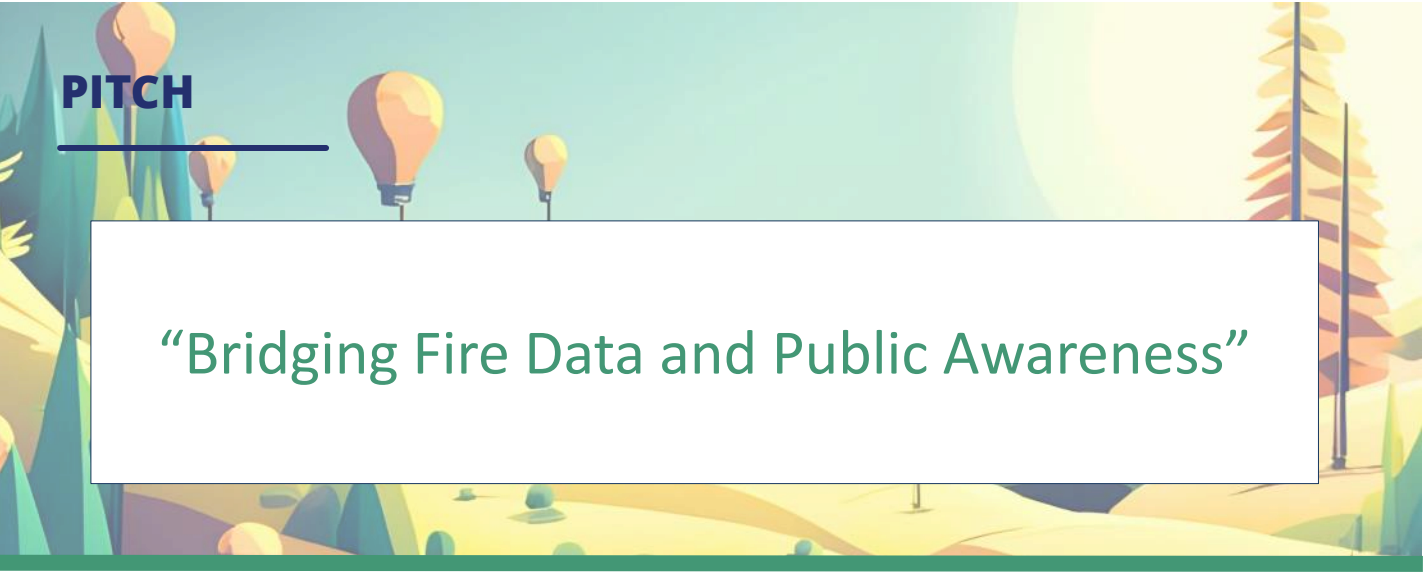
MAIN SPEAKER

ICNF
Instituto da Conservação da Natureza e das Florestas

Rui Almeida

rui.almeida@icnf.pt

Institute for Nature Conservation and Forests in Portugal
National Commander of the Forest Sapper Fire Force



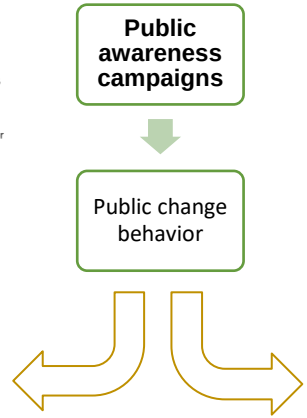
PITCH

"Bridging Fire Data and Public Awareness"

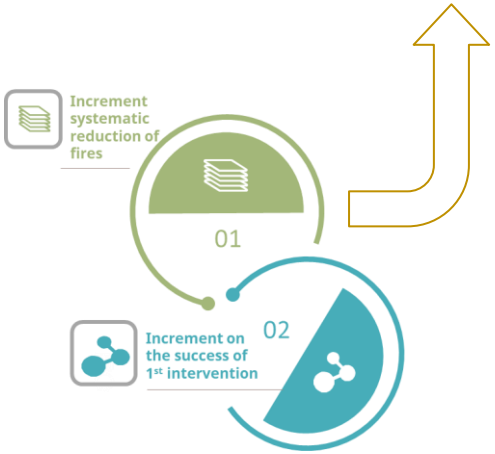
Rui Almeida
ICNF

29-30th Oct 2024
Penafiel, Portugal

Bridging Fire Data and Public Awareness



The fire paradox is that suppressing small fires leads to fuel buildup, making future fires larger and harder to control



Reducing the number of fire ignitions

Can be achieved by:

National campaigns

Education Social media
Risk System Stakeholder engagement

Local awareness

Technical support
Advise behavior
Targeted Messaging

Social Contact

Effectively share fire safety practices
Build a sense of collective responsibility

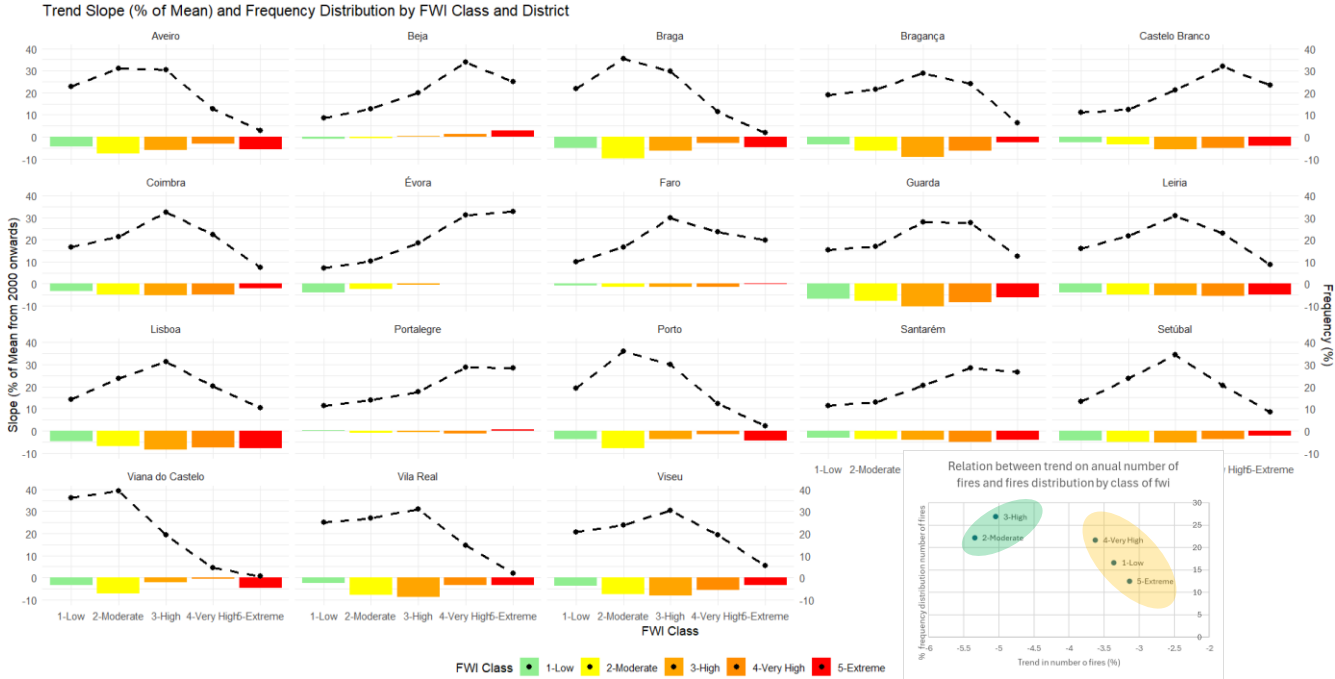
Enforcement

Legal obligations
Risky Human behavior

Surveillance

Risky Human behavior
Fire detection

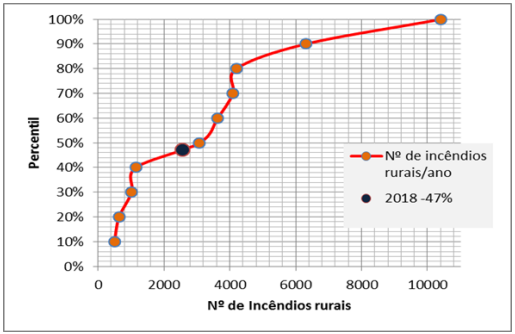
Reduce higher-risk ignitions and specialize risk communication



Bridging Fire Data and Public Awareness – First Phase – (implemented)

Ano	Incêndios rurais (n.º)	Percentil
	acima	100%
2012	10417	100%
2009	6311	90%
2015	4199	80%
2017	4097	70%
2008	3635	60%
2011	3084	50%
2010	1151	40%
2014	1024	30%
2013	639	20%
2016	497	10%
	abaixo	1%

Ano	Incêndios rurais (n.º)	Percentil
2018 - 47%	2555	47%



Percentile ranking are a statistical measure that allows identifying the percentile position in a series of values.
It is widely used to assess whether a given value has a high or low frequency compared to historical data.

We aplly this method to 27555 places in Portugal

In radius of 10 km from each place

Nº fires by year last decade	Nº fires (last 15 days) by year last decade
Percentil year	Percentil last 15 days
Cause more frequent	Cause more frequent
Meteo data and FWI indexs	
Critical Level	Critical Level

Daily analisys of current situation compared to past

Inclusion of meteo data

Bridging Fire Data and Public Awareness – First Phase -(implemented)

Percentil >80% – last 15 days

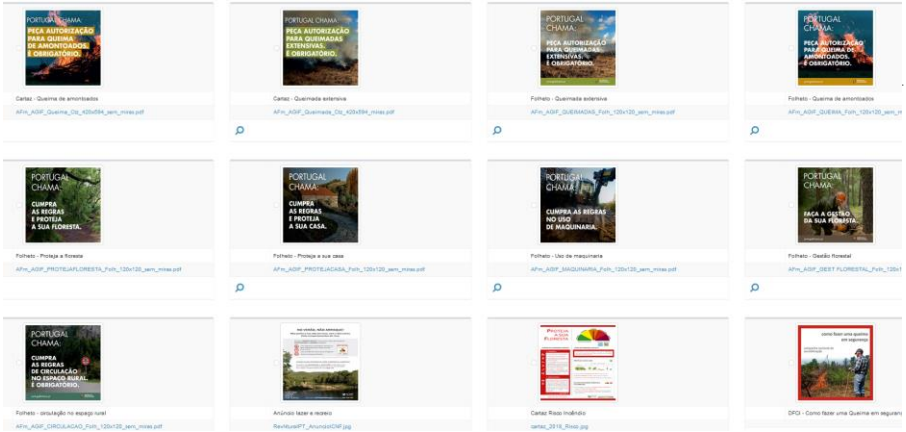
Percentil >80% + FWI elevated – last 15 days

Because we have the information associated with places it's possible to create daily emails that report what is going on and also web pages with this information

Bridging Fire Data and Public Awareness – First Phase -(implemented)

Bridging Fire Data and Public Awareness – Second Phase – (implemented)

For each cause → **There is a specific reaction** → **There is a specific message**

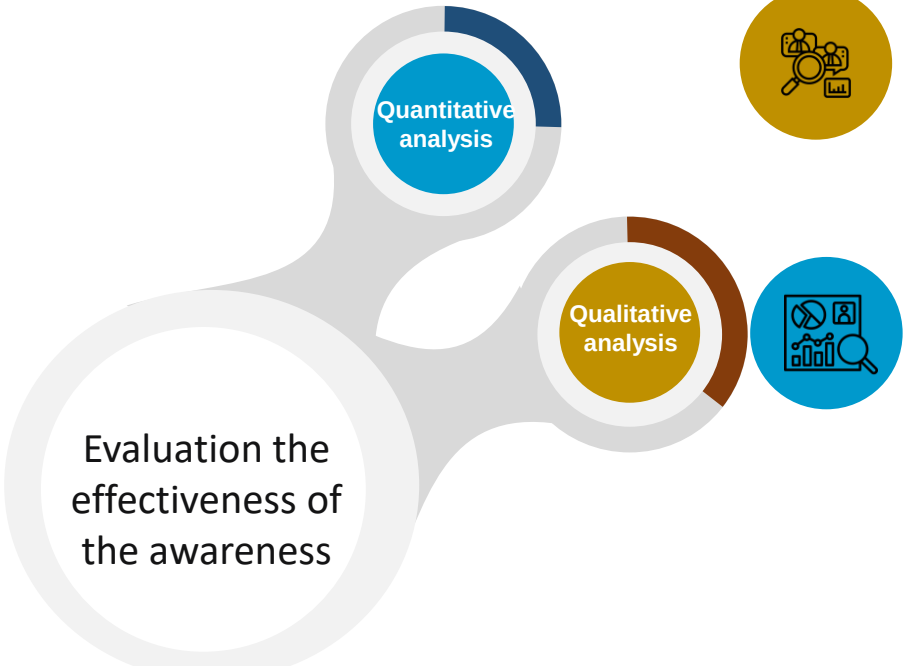


Through the Post Office, we can:

- Capture market-relevant information in rural areas, focusing on specific locations
- Expand direct mail functionalities in rural areas, targeting specific places
- Explore new last-mile distribution models and crowd-based deliveries with preventive messages

(project be tested and implemented)

Bridging Fire Data and Public Awareness – Third Phase



Qualitative Analysis

- The quality of the messaging
- Whether the messages were clear, relevant, and informative

Quantitative Analysis

- The reduction in the number of rural fires in targeted areas
- The reduction in the number of rural fires in risky days

Bridging Fire Data and Public Awareness – Second Phase – (not implemented)

Another important step is to cross-reference the time spent on surveillance.

We are analyzing this in relation to the time spent in the area by Forest Sapper teams.

Establish the necessity of increasing or reducing surveillance

In conclusion:

1- The systems must focus on addressing high-risk situations due to the pressure on firefighting system and meteorological severity

2- The process of ignition reduction should be targeted cause by cause, with specific responses for each identified cause

3- Historical data serves as the foundation for highlighting local patterns in high-risk situations

4- There are various ways to communicate locally, but it is essential to transmit information effectively to rural areas

5- In the future, it may be necessary to upgrade the "permit to burn" system to include a “is time to burn" component

6- Continuos Evaluation of results

OIC PITCHER

Andrea Pisoni

andrea.pisoni@hightek.it

HIGHTEK SRL

CBO

Business Developer

PITCH

"Q.SYSTEM: Integrated cloud-based disaster management system using real-time aerial data"

Andrea Pisoni
HIGHTEK SRL

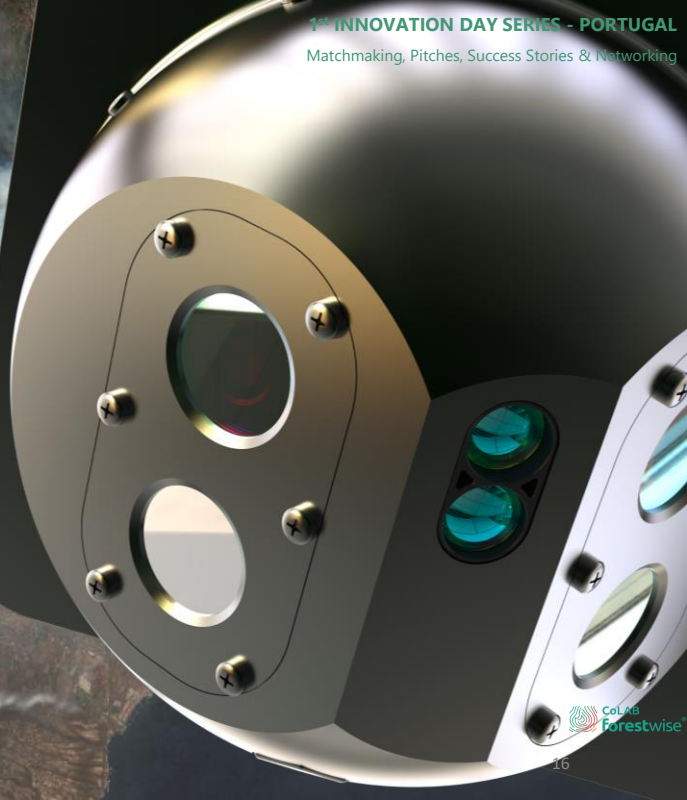
29-30th Oct 2024
Penafiel, Portugal

Problem

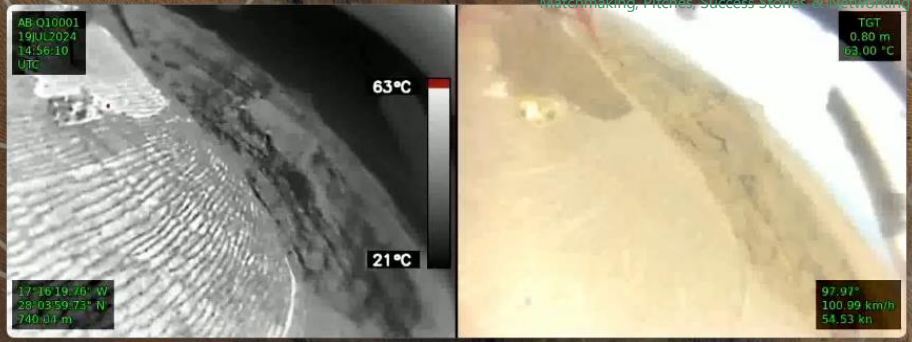
- Lack of effective technologies to assist pilots and decision-makers
- Lack of visual information-sharing systems
- Fragmented technologies complicate data analysis
- Decision makers overloaded with useless raw data
- General purpose technologies adapted to firefighting

Solution

Q.SYSTEM is a Proprietary Technology developed to automatically acquire, geolocate, transmit and analyze complex aggregated data. Its primary goal is to exploit data content to provide stakeholders with real-time ready to use critical information



Solution



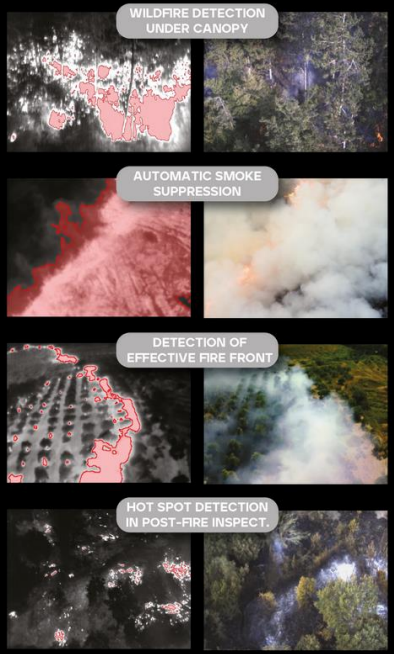
Q.FLY supports pilots to optimize aerial firefighting activities through automatic wildfire perimeter detection and Real-Time Mission Intelligence software. It automatically acquires, processes and transmits georeferenced data to Q.SYSTEM servers

Barranco de Almagrero

Barranco Charco

CoLAB Forestwise

Solution



Q.FLY Mission Display

Solution

Q.WEB is a 3D Web GIS platform offering real-time access to data from the Q.SYSTEM sensor network. It enhances situational awareness, provides automated disaster management tools, forecast software and connects control room personnel, firefighters and pilots through data exchange systems to effectively coordinate the operations

Solution

Mission #1692261408
Serial: AB-Q10002

Download CSV | Download KML | Download SIMU

Takeoff
2023-08-17 08:36:48

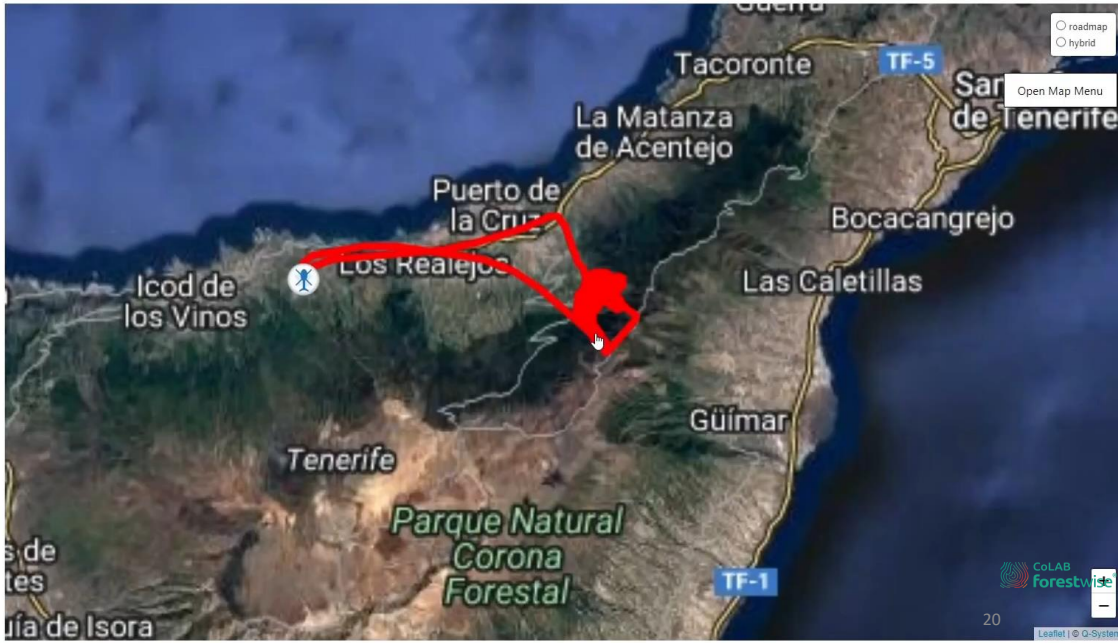
Landing
2023-08-17 10:08:50

Time	Distance	Detections
92 min	135.6 km	5538

Images 15

Videos 14

Contour 0



Contacts

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Tel: (+39) 081 190 23552

Email: info@hightek.it

OIC PITCHER

André Fonseca

afonseca@2bforest.pt

2BForest

GIS, Technological Development and Projects Coordinator

FIRE-RES
Innovative technologies & socio-ecological-economic solutions for fire resilient territories in Europe

1st INNOVATION DAY SERIES - PORTUGAL
Matchmaking, Pitches, Success Stories & Networking
CoLAB forestwise

PITCH

"Communicating fire-smart strategies through ForestSIM – an online platform for forest certification"

André Fonseca
2BForest

29-30th Oct 2024
Penafiel, Portugal

Who are we?

Who are we?

OIC24: Communicating fire-smart stretegies through ForestSIM® - an online platform for forest certification

Who are we?

- ✓ ***1058 members***
- ✓ ***43 435 ha certified forests***
- ✓ ***49 chain-of-custody partners***
  (September 2024)

- ✓ **18 members** with certified properties in the FIRE-RES Living Lab areas of **Vale do Sousa and Lousã**, pertaining to a **total of 209 ha of forested land**.

FIRE-RES
Open Innovation Challenge 24

Our solution aims to gather knowledge on wildfire prevention from:

- *Landowners with certified forests*
- *2BForest technicians*
- *FIRE-RES partners*

to improve the contents of our online plataform for forest certification- **ForestSIM®**

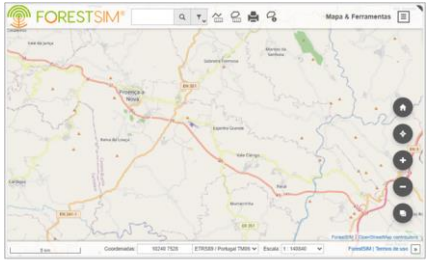
OIC24: Communicating fire-smart stretegies through ForestSIM® - an online platform for forest certification

What is ForestSIM®?

What is ForestSIM®?

- Web system based
- Cloud based arquitecture
- Distinct user profiles

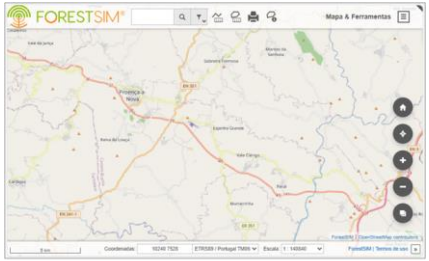
What is ForestSIM®?

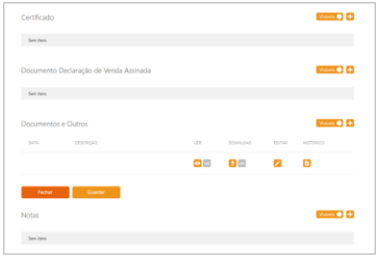


- Web system based
- Cloud based arquitecture
- Distinct user profiles

- Supports QGIS data for online map production

What is ForestSIM®?





- Web system based
- Cloud based arquitecture
- Distinct user profiles

- Supports QGIS data for online map production

- Updated planning and budget
- Cost-effective forest management

OIC24: Communicating fire-smart stretegies through ForestSIM® - an online platform for forest certification

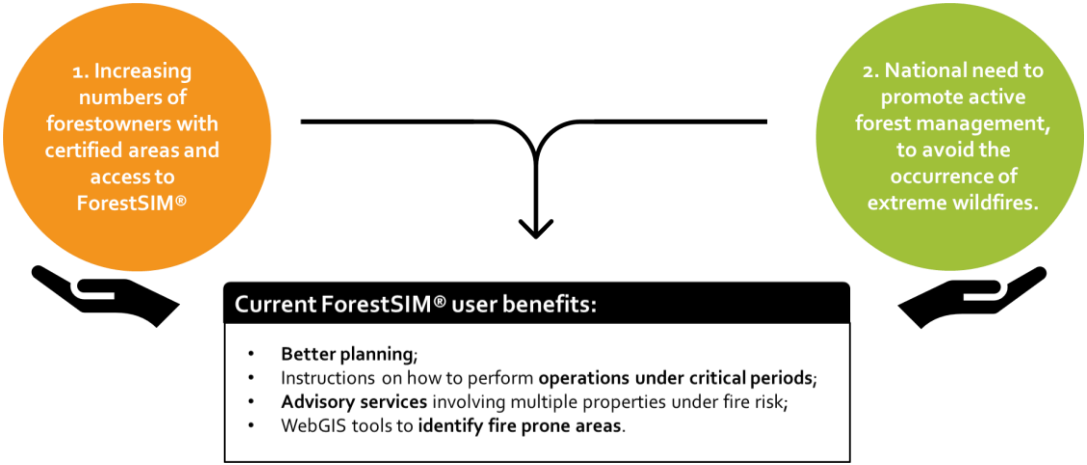
ForestSIM® as a fire prevention tool

OIC24: Communicating fire-smart stretegies through ForestSIM® - an online platform for forest certification

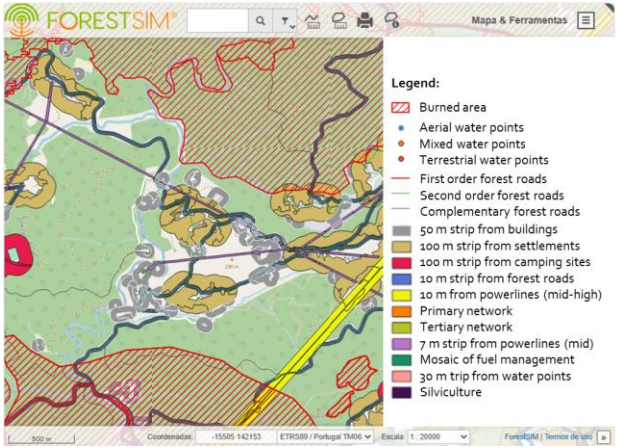
ForestSIM® as a fire prevention tool

ForestSIM® as a fire prevention tool

ForestSIM® as a fire prevention tool

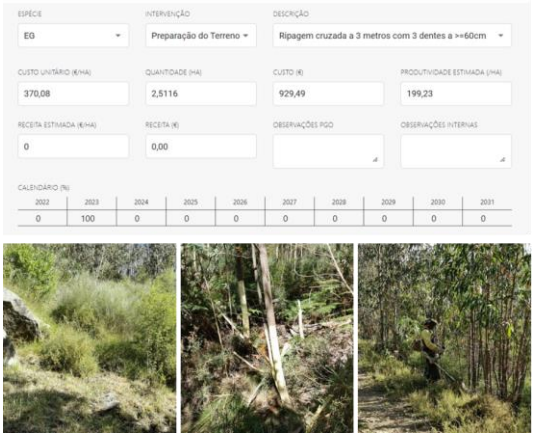


ForestSIM® as a fire prevention tool



- ✓ User access to visualization of **burned area** and **municipal plans for forest defence against wildfires** in a personalized WebGIS

ForestSIM® as a fire prevention tool



- ✓ **Operational control of planned forest activites** to ensure that the member complies with **national legislation** and **certification standards**

HELP US IMPROVE OUR PLATFORM!

Please use this **QR code** or access *www.menti.com* and enter the code **38 44 07 8**.




IA PITCHER

Conceição Colaço

ccolaco@isa.ulisboa.pt

CEABN / Instituto Superior Agronomia

POSITION

Researcher

PITCH

"FireExplorer: a Fire Education Platform"

Conceição Colaço
ISA/CEABN

29-30th Oct 2024
Penafiel, Portugal

The problem

- Wildfires are occurring worldwide;
- Citizens are affected;
- Low risk awareness;
- Lack of fire knowledge;

The problem

- Large number of websites with good information but really hard to reach it;
- Information difficult to understand not only for lay people but also for professionals;

- Where to find clear, simple and useful information?

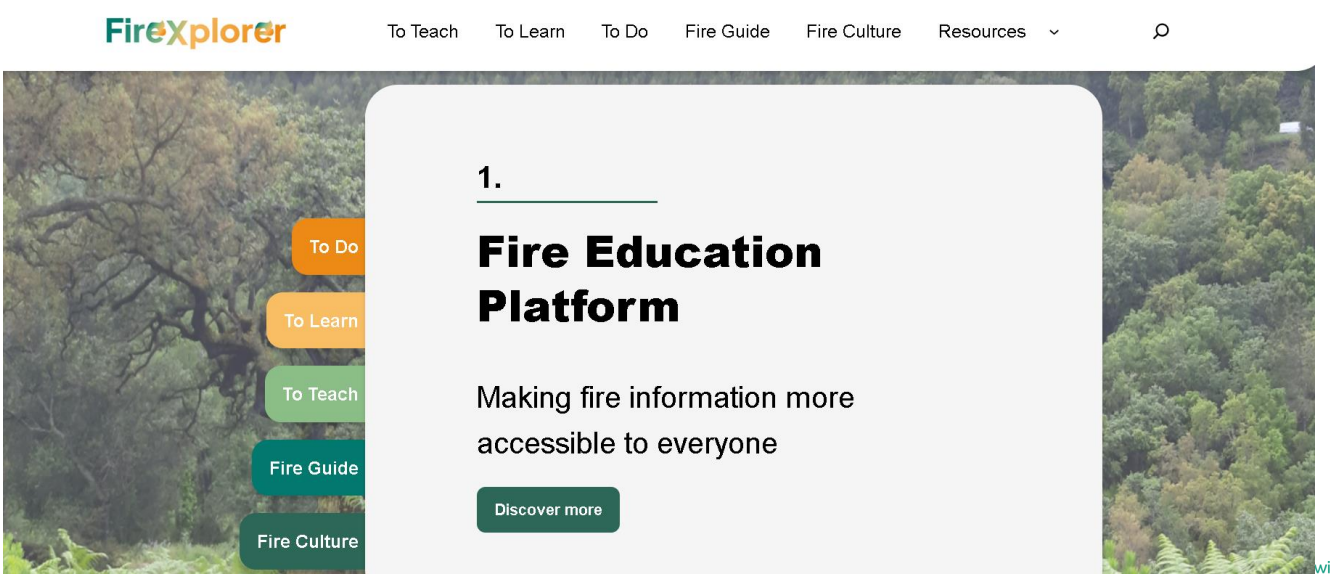
The solution

- Fire Education Platform – FireXplorer

GOAL

To improve communication and make fire Information **easy and accessible to everyone**

Target audiences: Teachers, Students, Citizens and Property Owners, Fire and Forest Professionals, Researchers and Technicians


FireXplorer
To Teach
To Learn
To Do
Fire Guide
Fire Culture
Resources
To Do
To Learn
To Teach
Fire Guide
Fire Culture
1.
Fire Education Platform
Making fire information more accessible to everyone
Discover more

FireXplorer

To Teach | To Learn | To Do | Fire Guide | Fire Culture | Resources

for **teachers** and **educators**

- Videoclasses
- Activities
- Interactive Exercises

for **everyone**

- Videoclasses
- Activities
- Interactive Exercises

for **fire** and **forestry professionals**

- Videoclasses
- Activities
- Interactive Exercises

FireXplorer

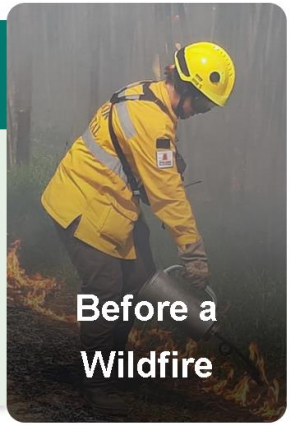
To Teach | To Learn | To Do | Fire Guide | Fire Culture | Resources

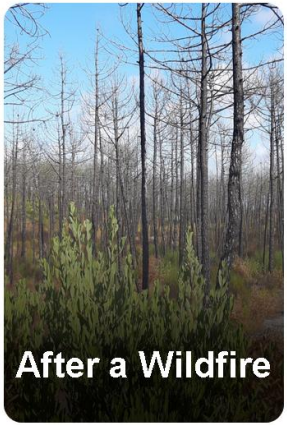
5 minutes Fire Guide

What to do in a wildfire

All the basic essential information regarding wildfires – what to do before, during, after and recovery.

Discover all





Fire Culture

Try our platform!

FireXplorer

Q&A (20’mins)

Networking Lunch (Atrium) > 1:20’