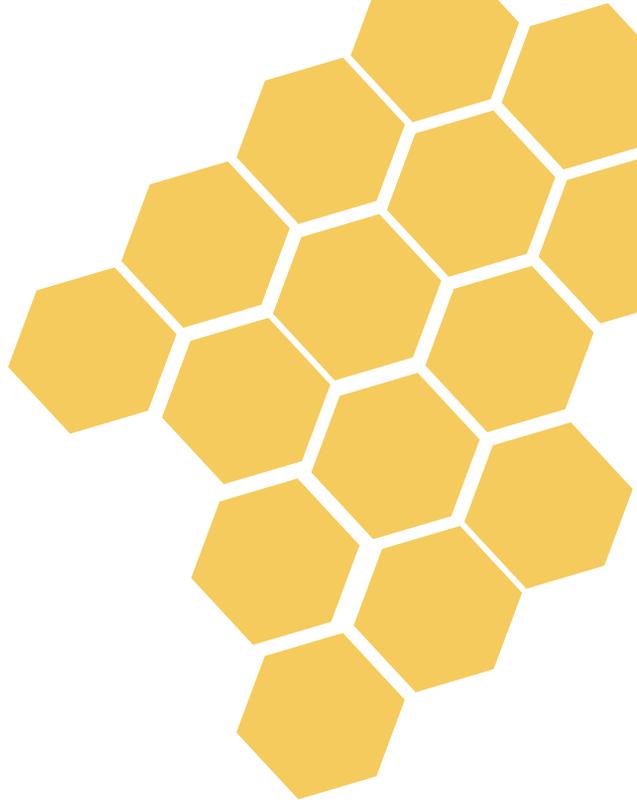
 **ROBOTTO**
PRESS KIT



WHO WE ARE

WE ARE INNOVATORS, PASSIONATE ABOUT SUSTAINABILITY

Sustainability and doing good good with tech are what drives us. What once was a university project has grown into our life's work. The same passion for technology and the world is still felt when you walk into our office.

Our hero product, Robotto Fire, represents both of these aspects: cutting-edge technology that gives firefighters the ability to effectively tackle wildfires with analyzed data provided in real-time.

While other tech companies might impact the world, Robotto's core mission to do good with technology sets us a part, as this commitment drives us.

SAVING LIVES – SAVING NATURE

HOW WE'RE DIFFERENT

While many fire departments already use drone technology, our software enhances this effort, taking the guess work out of fire surveillance. Instead of manually piloting the drone, identifying a fire and analyzing it's size and real time, the software uses powerful deep learning technology to eliminate inaccuracies that plague drone programs today.

WE POWER DRONES TO:

- ▶ Fly autonomously
- ▶ Identify and analyze wildfire
- ▶ Change flight path and behavior based on situation
- ▶ Visualize key fire data in real-time



GET TO KNOW THE TEAM



KENNETH RICHARD GEIPEL

CEO

Kenneth's enthusiasm for new technology has driven him to show the world a drone's full potential. Targeting one of the deadliest and pollutive symptoms of climate change, Kenneth works to lead a team of dedicated developers and business professionals, leading the way as Robotto works to save lives and save nature.

krgeipel@robotto.ai



IULIU NOVAK

CTO

Originally from Moldova, our chief technical officer leads the development of Robotto's many projects, helping identify the best way to utilize AI and machine learning to apply drone software to dull, dirty and dangerous professions. Just be careful of his eastern European humor, it'll get ya!

in@robotto.ai



DIMITRIS CHYSOSTOMO TECHNICAL ADVISOR

Co-Founder and associate professor at Aalborg University, Dimitris is driven by the challenges of designing intuitive human-robot integration interfaces and integrating computer vision algorithms and robotics- bringing Intelligent and Collaborative Industrial Robots closer to real-world ambitions.

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ROBOTTO FIRE



Robotto Fire puts firefighters in control and helps them become more efficient. With the added ability to proactively view wildfires' size and direction, firefighters can now work to protect their communities with the information they need in real-time.

Robotto Fire is equipped with several layers of autonomous functions powered by deep learning:



Drones powered by Robotto Fire can navigate a designated area independently



While navigating, Robotto Fire's powerful software collects vital information on the ground, providing actionable and processed insights to the user through enhanced AI algorithms.



Drones equipped with Robotto Fire are able to search unreachable areas thanks to the onboard edge processor and its ability to communicate directly with the operator without the need for an internet connection

With the added functionality and simplicity of using drones, fire departments are able to make smart decisions without putting their team members in harm's way.

KEY FEATURES



ENHANCED FLYING

Fly and capture data efficiently with autonomous flight features, powering the drone to make smart decisions, flying along the border of a fire, allowing operators to select relevant search areas and focus on incoming data. Using Robotto fire allows you to efficiently search and area why protecting your team and your equipment.



VISUALIZED DATA

Real-time data is presented on a topical map, giving users the power to make informed decisions right away. Locate the fire and see the size and direction, giving firefighters the ability to put proactive measures in place, taking them out of the defensive.



EDGE COMPUTING

Users can stay safe form a distance while viewing real-time information, allowing them to utilize the technology in hard-to-reach areas without a WIFI signal. No need for human interaction, instruct the drone to search areas otherwise unreachable by man and get real-time information that puts you ahead of the fire.

ALL POWERED BY DEEP LEARNING

HOW IT WORKS

With an autonomous drone gathering mission critical data for incident commanders to make decisions. Allowing firefighters to do what they do best. Protect communities.

01

Emergency services arrive on site. Sets drone on the ground ready for take-off.

02

Drone operator selects an area of interest, and the drone lifts off and searches immediate area.

03

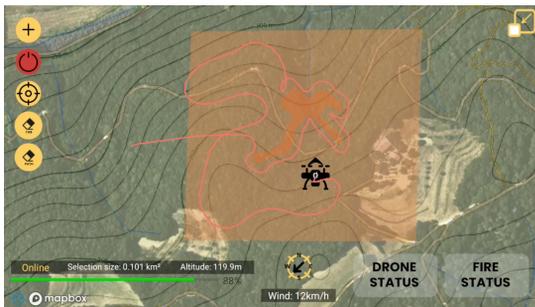
Drone autonomously searches desired area for signs of fire using AI.

04

Fire is detected. The drone will follow the borders of the fire and visualize data in real time on map of the user.



MISSION CRITICAL DATA WITH A BIG IMPACT



LOCATION & SIZE

Knowing that there is a fire in an area is not enough. Incident commanders need to get the full picture. At an accuracy of ± 2 meter, you will know the full scope of the fire.

DIRECTION

Planning is crucial in any wildfire operation. In order to be one step ahead of the situation, incident commanders need to know where the fire is moving. Follow the evolution of the wildfire in real-time.



LOCAL WEATHER INFORMATION

Firefighters need all the help they can get. Which is why we go the extra mile in not only providing location, size, direction, we provide incident commanders local weather information as well. All at your fingertips.

MISSION CRITICAL DATA WITH A BIG IMPACT

LOCATION & SIZE

Knowing that there is a fire in an area is not enough. Incident commanders need to go beyond the perimeter meter, you will know the full scope of the fire.

DIRECTION

Planning is crucial in any wildfire operation. In order to be one step ahead of the situation, you need to know where the fire is moving. Follow the evolution of the wildfire in real-time.

LOCAL WEATHER INFORMATION

Firefighters need all the help they can get. Which is why we go the extra mile in not just providing incident commanders local weather information as well. All at your fingertips.

60% SMALLER BURN SIZES

Precise firefighting efforts will get the fires under control faster. Ensuring vital eco-systems prosper despite the increasing threat of wildfires.

70% LESS MAN-HOURS

With a full understanding of the situation at hand, incident commanders allocate their resources more efficiently. Targeting the wildfire surgically from the early phases.

60% CO2 EMISSIONS CUT

Wildfires are one of the most pollutive effects of the climate crisis. Stopping this snowball effect of CO2 emissions is vital for mitigating the risk for future wildfires.

WHAT OTHERS SAY



Forbes

As Australia Burns, A Danish Startup Steps Up Its Autonomous Drone Programme

[Link](#)



CLEANTECHWATCH

Drone-udvikler vil mere end halvere CO2-udslip fra skovbrande

[Link](#)



Danish AI-Startup Fighting Fires with Drones

[Link](#)



INTERNATIONAL FIRE PROTECTION

Robotto – Innovating Sustainability

[Link](#)



Digital Hub Denmark

Danish AI – startup fighting fires with drones

[Link](#)



COMMERCIAL UAV EXPO

Robotto's AWRA Drone Helps Firefighters to Efficiently Combat Wildfires

[Link](#)



BEST IN CLASS

Since the start of Robotto, we have always strived for pushing the boundaries of robotics. The perseverance can be seen in the acknowledgment we now gotten.



IEEE PUBLICATION

A Framework for Wildfire Inspection Using Deep Convolutional Neural Networks



SPRINGER PUBLICATION

Estimation of Wildfire Size and Location Using a Monocular Camera on a Semi-Autonomous Quadcopter.



THE PRESTIGE AWARDS

Software Company of the Year
2020



SDG TECH AWARDS

EU Green Week Winner
2020



GLOBAL EXCELLENCE AWARDS

LUX Award for Innovation in Sustainability
2021



SCANDINAVIAN BUSINESS AWARDS

Robotic Systems Innovators of the Year
2021



EY STARTUP OF THE YEAR

Regional Startup of the Year
2021