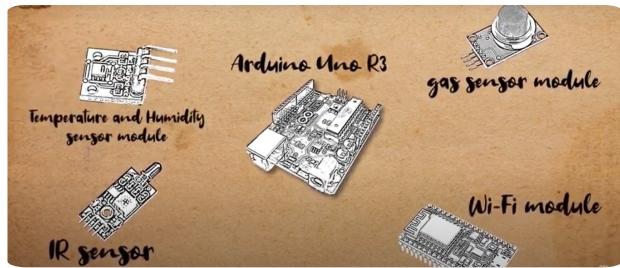


DetectIT | Save our forests



DetectIT is forest fire detection device which detects fire by using different sensors and sends notification to the application.

Fires in the Republic of Croatia are a big problem for forests, given that fire brigades have about 3.000 interventions per year. Average burned area per year is 14.278 ha of forest land. DetectIT provides information of the current situation in the forest area (level of temperature, humidity, carbon monoxide). Device secures fast information about the occurrence of a fire and provides all important data. Devices are located 100-300 meters away in the forest area and communicate with each other via radio waves. Communication between devices can reach even several kilometers so it is possible to cover very large area. Each device has one or more sensors. When the device receives an increased concentration of flammable gas or smoke, it sends a signal to the other device about occurrence of a fire.

Currently, for sending notification about occurrence of fire, device uses 4G network. In the future for notification sending, it is planned to use the 5G network which can send notification in a shorter time period. Also, it is planned to spread the use of device i.e. setting device in households. Prototype of device is installed and tested on the forest area. Device is developed by high school students of Gymnasium Velika Gorica, Croatia. Group of students signed up on international competition and won 2nd place.

DETALJER

VEDENS URSPRUNG	MOBILISERINGSPOENTIAL
--	--
TRÄTYP	HÅLLBARHETS POTENTIAL - VÄRDE Mycket positiv
--	
TYP AV TRÄ	ENKEL IMPLEMENTERING
--	--
PÅVERKAN PÅ MILJÖ & BIOLOGISK MÅNGFALD	ENKEL IMPLEMENTERING - UTVÄRDERING Enkelt
--	
EKONOMISK EFFEKT	NYCKEL FÖRUTSÄTTNINGAR
--	--
KOMMERSIELL POTENTIAL	TYP AV EVENEMANG DÄR DENNA BPI HAR PRESENTERATS Studiebesök (T2.3)
--	
NAV	EFFEKT ANTAL ANSTÄLLDA
Sydöstra centrumet	--
EKONOMISK PÅVERKAN	KOSTNADER FÖR IMPLEMENTERING (EURO - €)
--	--
SPECIFIKA KUNSKAPSBEHOV	
--	

MER INFORMATION

UTMANING SOM ADRESSERAS

1. Förbättra skogens motståndskraft och anpassning till klimatförändringar

NYCKELORD

Fire detection
sensors
automatic messaging.

UPPHOVSLAND

Kroatien

DOMÄN

Skogsförvaltning, skogskjötsel, ekosystemtjänster

TYPE AV LÖSNING

Sensorer, mästinstrument

DIGITAL LÖSNING

Ja

INNOVATION

Ja

POTENTIAL

Regional/landsdel

START OCH SLUTÅR

2019 -

KONTAKT INFORMASION

ÄGARE ELLER FÖRFATTARE

Gymnasium Velika Gorica

RAPPORTÖR

Competence Centre Ltd. for research and development

PhD. Ivan Ambroš

ambros@cekom.hr

<http://gimnazija-velika-gorica.skole.hr/>

REFERENCES AND RESOURCES

HEMSIDA (HUVUDSIDA)

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PROJEKTETS HEMSIDA

--

PROJEKTREFERENS

--

RESURSER

[Application view](#)

LOGO FÖR BEST PRACTICE



LOGO, HUVUDORGANISATION

PROJEKT SOM DETTA FACTSHEET SKAPATS INOM
Rosewood 4.0

DATUM FÖR INLÄGG
13 sep 2021



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No.

862681

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY



□