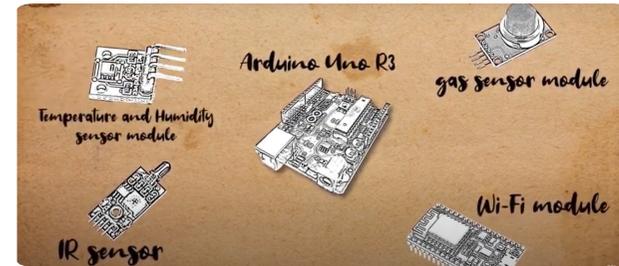


DetectIT | Save our forests



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.

DETALII

SURSA DE LEMN

--

TIPUL DE LEMN

--

TIPUL DE LEMN ÎN CAUZĂ

--

IMPACTUL ASUPRA MEDIULUI ȘI BIODIVERSITĂȚII

--

EFACT ASUPRA VENITURILOR

--

POTENȚIAL DE EXPLOATARE

--

HUB

Centrul de sud-est

IMPACT ECONOMIC

--

CUNOȘTINȚE SPECIFICE NECESARE

--

POTENȚIALUL DE MOBILIZARE

--

POTENȚIAL DE SUSTENABILITATE - VALOARE

Foarte pozitiv

FACILITATEA DE IMPLEMENTARE

--

FACILITATEA DE IMPLEMENTARE - EVALUARE

Ușor

CONDIȚII CHEIE PRELABILE

--

TIPUL DE EVENIMENT LA CARE A FOST PREZENTAT ACEST IPB

Vizita de studiu (T2.3)

EFACT ASUPRA LOCURILOR DE MUNCĂ

--

COSTURI PENTRU IMPLEMENTARE (EURO - €)

--

MAI MULTE DETALII

PROVOCARE ABORDATĂ

1. Îmbunătățirea rezilienței pădurilor și adaptarea la Managementul pădurilor, silvicultura, servicii schimbările climatice

CUVINTE CHEIE

Fire detection
sensors
automatic messaging.

ȚARA DE ORIGINE

Croația

DOMAIN

Managementul pădurilor, silvicultura, servicii
ecosistemice, reziliență

SOLUȚIE DIGITALĂ

Da

SCARA DE APLICARE

Regional/ sub-național

TIP DE SOLUȚIE

Senzori, echipamente de măsurare

INOVAȚIE

Da

ANUL DE ÎNCEPUT ȘI DE SFÂRȘIT

2019 -

DATE DE CONTACT

PROPRIETAR SAU AUTOR

Gymnasium Velika Gorica

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

REPORTER

Competence Centre Ltd. for research and development

PhD. Ivan Ambroš

ambros@cekom.hr

REFERENCES AND RESOURCES

PAGINĂ WEB

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WEBSITE PROJECT

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REFERINȚĂ PROIECT

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RESURSE

Application view



PROIECTUL ÎN CADRUL CĂRUI A FOST CREATă ACEASTă FIȘă INFORMATIVă

Rosewood 4.0

DATA POSTĂRII

13 Sep 2021



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862681

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

