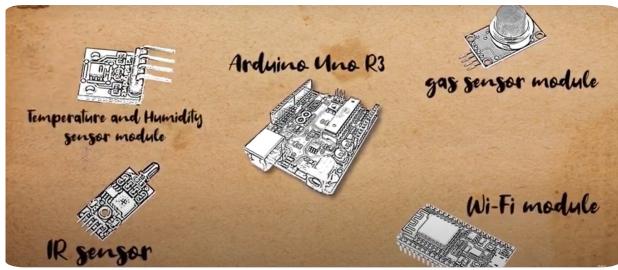


# DetectIT | Save our forests



*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.

## DETALJI

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### PODRIJETLO DRVA

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### VRSTA DRVA

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### POTENCIJAL ZA POVEĆANJE UPORABE DRVA

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### ODGOVARAJUĆA VRSTA DRVA

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### JEDNOSTAVNOST PROVEDBE

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### UTJECAJ NA OKOLIŠ I BIORAZNOLIKOST

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### JEDNOSTAVNOST PROVEDBE - EVALUACIJA

Lako

### UČINAK NA PRIHOD

--

### KLJUČNI PREDUVJETI

--

### POTENCIJAL ISKORISTIVOSTI

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### VRSTA DOGAĐAJA NA KOJEM JE PRIKAZAN OVAJ BPI

Studijski posjet (T2.3)

### SREDIŠTE

Jugoistočno čvorište

### UČINAK NA ZAPOŠLJIVOST

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### GOSPODARSKI UČINAK

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### TROŠKOVI PROVEDBE (EURO - €)

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### POTREBNA POSEBNA ZNANJA

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## VIŠE DETALJA

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### IZAZOV

1. Poboljšanje otpornosti šuma i prilagodbe klimatskim promjenama

### KLJUČNE RIJEČI

Fire detection  
sensors  
automatic messaging.

### ZEMLJA PODRIJETLA

Hrvatska

### DOMENA

Upravljanje šumama, uzgoj šuma, usluge ekosustava, otpornost

### DIGITALNO RJEŠENJE

Da

### PODRUČJE PRIMJENE

Regionalno / podnacionalno

### VRSTA RJEŠENJA

Senzori, mjerna oprema

### INOVACIJA

Da

### POČETAK I KRAJ GODINE

2019 -

## KONTAKT PODATCI

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### VLASNIK ILI AUTOR

Gymnasium Velika Gorica

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

### IZVJESTITELJ

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## REFERENCES AND RESOURCES

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### GLAVNA WEB STRANICA

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### WEB STRANICA PROJEKTA

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### REFERENCA PROJEKTA

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### IZVORI

[Application view](#)

LOGO PRIMJERA DOBRE  
PRAKSE

LOGO GLAVNE ORGANIZACIJE



PROJEKT U OKVIRU KOJEG JE INFORMATIVNI LIST KREIRAN

Rosewood 4.0

DATUM UNOSA

13 ruj 2021



[Link to Rosewood 4.0](#)



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862681

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY



□