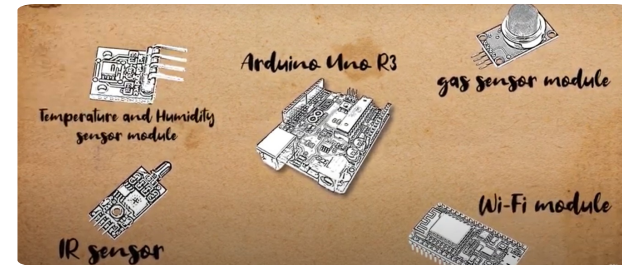


# DetectIT | Save our forests



*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.

## DETALHES

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### ORIGEM DA MADEIRA

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### TIPO DE MADEIRA

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### TIPO DE MADEIRA EM CAUSA

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### IMPACTE NO AMBIENTE E BIODIVERSIDADE

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### IMPACTE NAS RECEITAS

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### POTENCIAL DE EXPLORAÇÃO

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### HUB

Hub do Sudeste

### IMPACTE ECONOMICO

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### CONHECIMENTOS ESPECIFICOS NECESSÁRIOS

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### POTENCIAL DE MOBILIZAÇÃO

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### SUSTENTABILIDADE POTENCIAL - VALOR

Muito positivo

### FACILIDADE DE IMPLEMENTAÇÃO

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### FACILIDADE DE IMPLEMENTAÇÃO

Fácil

### PRE-REQUISITOS CHAVE

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### TIPO DE EVENTO EM QUE ESTE BPI TEM SIDO APRESENTADO

Visita de estudo (T2.3)

### IMPACTE NO EMPREGO

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### CUSTOS DE IMPLEMENTAÇÃO (EURO - EUR)

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## MAIS DETALHES

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### DESAFIO ABORDADO

1. Melhorar a resiliência e adaptação das florestas às alterações climáticas

### DOMÍNIO

Gestão florestal, silvicultura, serviços do ecossistema, resiliencia

### TIPO DE SOLUÇÃO

Sensores, equipamentos de medição

### PALAVRAS-CHAVE

Fire detection  
sensors

### SOLUÇÃO DIGITAL

Sim

### INOVAÇÃO

Sim

automatic messaging.

### PAÍS DE ORIGEM

Croácia

### ESCALA DE APLICAÇÃO

Regional/ sub-nacional

### ANO DE INÍCIO E FIM

2019 -

## DADOS DE CONTACTO

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### PROPRIETÁRIO OU AUTOR

Gymnasium Velika Gorica

### REPÓRTER

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## REFERENCES AND RESOURCES

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### WEBSITE PRINCIPAL

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### WEBSITE DO PROJETO

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### REFERÊNCIA AO PROJETO

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### RECURSOS

**Application view**

LOGOTIPO DA BOA  
PRÁTICA

LOGOTIPO DA ORGANIZAÇÃO  
PRINCIPAL



PROJETO NO ÂMBITO DO QUAL A FOLHA DE DIVULGAÇÃO FOI CRIADA

DATA DE ENTRADA

Rosewood 4.0

13 Set 2021



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862681

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

