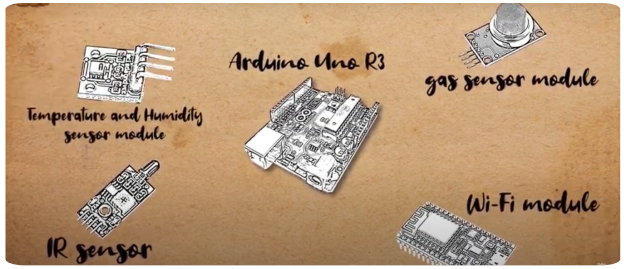
DetectIT | Save our forests



DecectIT is forest fire detection device which detects fire by using different sensors and sends nottification 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 icreased 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 planed 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

ORIGEM DA MADEIRA

--

TIPO DE MADEIRA

--

TIPO DE MADEIRA EM CAUSA

--

IMPACTE NO AMBIENTE E BIODIVERSIDADE

--

IMPACTE NAS RECEITAS

--

POTENCIAL DE EXPLORAçãO

--

HUB

Hub do Sudeste

IMPACTE ECONOMICO

--

CONHECIMENTOS ESPECIFICOS NECESSáRIOS

--

POTENCIAL DE MOBILIZAçãO

--

SUSTENTABILIDADE POTENCIAL - VALOR

Muito positivo

FACILIDADE DE IMPLEMENTAçãO

--

FACILIDADE DE IMPLEMENTAçãO

Fácil

PRE-REQUISITOS CHAVE

--

TIPO DE EVENTO EM QUE ESTE BPI TEM SIDO APRESENTADO

Visita de estudo (T2.3)

IMPACTE NO EMPREGO

--

CUSTOS DE IMPLEMENTAçãO (EURO - EUR)

--

MAIS DETALHES

DESAFIO ABORDADO

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

DOMíNIO

Gestão florestal, silvicultura, serviços do ecosistema, resiliencia

TIPO DE SOLUçãO

Sensores, eequipamentos de medição

PALAVRAS-CHAVE

Fire detection

sensors

automatic messaging.

SOLUçãO DIGITAL

Sim

INOVAçãO

Sim

PAíS DE ORIGEM

Croácia

ESCALA DE APLICAçãO

Regional/ sub-nacional

ANO DE INíCIO E FIM

2019 -

DADOS DE CONTACTO

PROPRIETáRIO OU AUTOR

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REPóRTER

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ambros@cekom.hr

REFERENCES AND RESOURCES

WEBSITE PRINCIPAL

--

WEBSITE DO PROJETO

--

REFERêNCIA AO PROJETO

--

RECURSOS

Application view

LOGOTIPO DA BOA PRáTICA



LOGOTIPO DA ORGANIZAçãO PRINCIPAL

PROJETO NO âMBITO DO QUAL A FOLHA DE DIVULGAçãO FOI CRIADA

Rosewood 4.0

DATA DE ENTRADA

13 Set 2021

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY