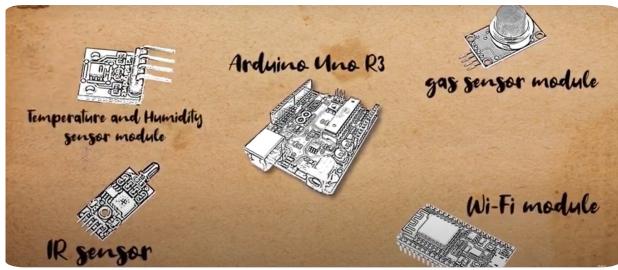


DetectIT | Save our forests



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

ORIGEM DA MADEIRA	POTENCIAL DE MOBILIZAÇÃO
--	--
TIPO DE MADEIRA	SUSTENTABILIDADE POTENCIAL - VALOR
--	Muito positivo
TIPO DE MADEIRA EM CAUSA	FACILIDADE DE IMPLEMENTAÇÃO
--	--
IMPACTE NO AMBIENTE E BIODIVERSIDADE	FACILIDADE DE IMPLEMENTAÇÃO
--	Fácil
IMPACTE NAS RECEITAS	PRE-REQUISITOS CHAVE
--	--
POTENCIAL DE EXPLORAÇÃO	TIPO DE EVENTO EM QUE ESTE BPI TEM SIDO APRESENTADO
--	Visita de estudo (T2.3)
HUB	IMPACTE NO EMPREGO
Hub do Sudeste	--
IMPACTE ECONOMICO	CUSTOS DE IMPLEMENTAÇÃO (EURO - EUR)
--	--
CONHECIMENTOS ESPECÍFICOS NECESSÁRIOS	
--	

MAIS DETALHES

DESAFIO ABORDADO	DOMÍNIO	TIPO DE SOLUçãO
1. Melhorar a resiliência e adaptação das florestas às alterações climáticas	Gestão florestal, silvicultura, serviços do ecossistema, resiliencia	Sensores, eequipamentos de medição
PALAVRAS-CHAVE	SOLUçãO DIGITAL	INOVAçãO
Fire detection sensors automatic messaging.	Sim	Sim
PAÍS DE ORIGEM	ESCALA DE APLICAçãO	ANO DE INÍCIO E FIM
Croácia	Regional/ sub-nacional	2019 -

DADOS DE CONTACTO

PROPRIETÁRIO OU AUTOR	REPÓRTER
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<http://gimnazija-velika-gorica.skole.hr/>

REFERENCES AND RESOURCES

WEBSITE PRINCIPAL	RECURSOS
--	Application view
WEBSITE DO PROJETO	--
REFERêNCIA AO PROJETO	--

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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862681

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY



□