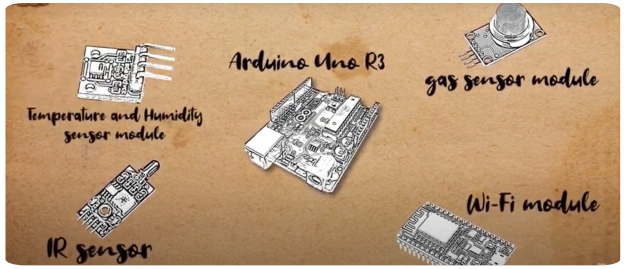
DetectIT | Save our forests



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.

DéTAILS

ORIGINE DU BOIS

--

TYPE DE BOIS

--

TYPE DE BOIS CONCERNé

--

IMPACT SUR L'ENVIRONNEMENT ET LA BIODIVERSITé

--

EFFET SUR LE REVENU

--

POTENTIEL D'EXPLOITATION

--

HUB

Pôle Sud-Est

IMPACT éCONOMIQUE

--

CONNAISSANCES SPéCIFIQUES REQUISES

--

POTENTIEL DE MOBILISATION

--

POTENTIEL DE DURABILITé - VALEUR

Très positif

FACILITé D'IMPLéMENTATION

--

FACILITé D'IMPLéMENTATION - ÉVALUATION

Facile

PRéREQUIS CLéS

--

TYPE D'éVéNEMENT Où CETTE ICPE A éTé PRéSENTéE

Visite d'étude (T2.3)

EFFET SUR L'EMPLOI

--

COûTS D'IMPLéMENTATION (EURO - €)

--

PLUS DE DéTAILS

DéFI CONCERNé

1. Améliorer la résilience de la forêt et son adaptation au changement climatique

DOMAINE

Getsion forestière, sylviculture, services écosystémiques, résilience

TYPE DE SOLUTION

Capteurs, équipement de mesure

MOTS-CLéS

Fire detection

sensors

automatic messaging.

SOLUTION DIGITALE

Oui

INNOVATION

Oui

PAYS D'ORIGINE

Croatie

ECHELLE D'APPLICATION

Régionale/subnationale

DéBUT ET FIN D'ANNéE

2019 -

INFORMATIONS DE CONTACT

PROPRIéTAIRE OU AUTEUR

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REFERENCES AND RESOURCES

SITE WEB PRINCIPAL

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SITE WEB DU PROJET

--

RéFéRENCE DU PROJET

--

RESSOURCES

Application view

LOGO DE LA BONNE PRATIQUE



LOGO DE L'ORGANISATION PRINCIPALE

PROJET SOUS LEQUEL CETTE FICHE D'INFORMATION A éTé CRééE

Rosewood 4.0

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY