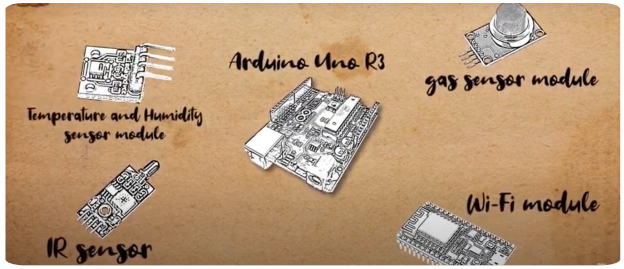
DetectIT | Save our forests



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.

DETAILS

HERKUNFT DES HOLZES

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ART DES HOLZES

--

ART DES BETROFFENEN HOLZES

--

AUSWIRKUNGEN AUF UMWELT UND BIODIVERSITäT

--

EINKOMMENSEFFEKT

--

VERWERTUNGSPOTENZIAL

--

NABE

Drehscheibe Süd-Ost

WIRTSCHAFTLICHE AUSWIRKUNGEN

--

SPEZIFISCHES WISSEN ERFORDERLICH

--

MOBILISIERUNGSPOTENZIAL

--

POTENZIAL FüR NACHHALTIGKEIT - WERT

Sehr positiv

LEICHTE IMPLEMENTIERUNG

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LEICHTE IMPLEMENTIERUNG - BEWERTUNG

Einfach

WICHTIGE VORAUSSETZUNGEN

--

ART DER VERANSTALTUNG, AUF DER DIESE BPI VORGESTELLT WURDE

Studienaufenthalt (T2.3)

ARBEITSPLATZEFFEKT

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KOSTEN DER IMPLEMENTIERUNG (EURO - €)

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MEHR DETAILS

ANGESPROCHENE HERAUSFORDERUNG

1. Verbesserung der Widerstandsfähigkeit der Wälder und ihrer Anpassung an den Klimawandel

DOMäNE

Waldmanagement, Waldbau, Ökosystemleistungen, Resilienz

ART DER LöSUNG

Sensoren, Messgeräte

SCHLüSSELWöRTER

Fire detection
sensors
automatic messaging.

DIGITALE LöSUNG

Ja

INNOVATION

Ja

HERKUNFTSLAND

Kroatien

UMFANG DER ANWENDUNG

Regional/sub-national

ANFANGS- UND ENDJAHR

2019 -

KONTAKTDATEN

EIGENTüMER ODER AUTOR

Gymnasium Velika Gorica

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

REPORTER

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REFERENCES AND RESOURCES

HAUPT-WEBSITE

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PROJEKT-WEBSITE

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PROJEKT-REFERENZ

--

RESSOURCEN

Application view

LOGO DER BEST PRACTICE

LOGO DER HAUPTORGANISATION

PROJEKT, IN DESSEN RAHMEN DIESES FACTSHEET ERSTELLT WURDE

Rosewood 4.0

BEITRAGSDATUM

13 Sep 2021

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY