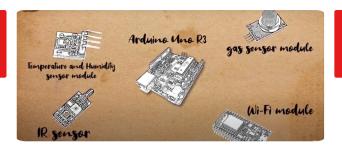
DetectIT | Save our forests



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 | |
|--------------------------------------|--|
| ORIGIN OF WOOD | MOBILIZATION POTENTIAL |
| | |
| TYPE OF WOOD | |
| - | SUSTAINABILITY POTENTIAL - VALUE |
| | Very Positive |
| KIND OF WOOD CONCERNED | EASE OF IMPLEMENTATION |
| - | |
| IMPACT ON ENVIRONMENT & BIODIVERSITY | EASE OF IMPLEMENTATION - EVALUATION |
| | Easy |
| INCOME EFFECT | KEY PREREQUISITES |
| | |
| EXPLOITATION POTENTIAL | TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED |
| | Study visit (T2.3) |
| HUB | JOB EFFECT |
| South-East Hub | |
| ECONOMIC IMPACT | COSTS OF IMPLEMENTATION (EURO - €) |
| | COSTS OF IMPLEMENTATION (EURO - €) |
| | |
| SPECIFIC KNOWLEDGE NEEDED | |
| | |

MORE DETAILS CHALLENGE ADDRESSED DOMAIN TYPE OF SOLUTION 1.- Improve forest resilience and adaption to climate Forest management, ecosystem, resilience Sensors, measurement equipment change **KEYWORDS DIGITAL SOLUTION** INNOVATION Fire detection Yes Yes sensors automatic messaging. **COUNTRY OF ORIGIN** SCALE OF APPLICATION START AND END YEAR Regional/sub-national 2019 -Croatia CONTACT DATA OWNER OR AUTHOR REPORTER **Gymnasium Velika Gorica Competence Centre Ltd. for research and development** PhD. Ivan Ambroš ambros@cekom.hr http://gimnazija-velika-gorica.skole.hr/ **REFERENCES** AND RESOURCES _____ MAIN WEBSITE **RESOURCES Application view PROJECT WEBSITE** PROJECT REFERENCE



PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood 4.0

POST DATE

13 Sep 2021







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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY





