

# Digitalized Groundwater Measuring Station System



*Digitalized Groundwater Measuring Station System contains information about the movement of water which is very important for oak and other native species in forests.*

In the last ten years, Croatia records an increased number of dried oaks. Due to the adverse effect of rainwater and groundwater, various pests, insects and caterpillars, the yield of forest seed is diminishing which is key in the renewal of oak forest areas.

Digitalized Groundwater Measuring Station System was developed within the project „Protecting the English Oak in the Hungary-Croatia cross-border region”. Project coordinator was forest company Mecsekerdő Zrt. from Hungary and project partner was Croatian Forest Ltd., Forest administration Našice (Croatia).

System contains information about the movement of water which is very important for oak and other native species in forests. Measuring Station System records groundwater oscillation and changes in pressure and registers new data every two hours. Forest managers can use this information for responding to the trend of decrease or increment of groundwater and timely respond to changes.

The main result of Oak protection project is the installment of cross border groundwater monitoring system, comprised of 50 stationary pipes, automatically

recording groundwater and meteorological data.

## DETAILS

---

### ORIGIN OF WOOD

Forest

### TYPE OF WOOD

--

### KIND OF WOOD CONCERNED

--

### IMPACT ON ENVIRONMENT & BIODIVERSITY

--

### INCOME EFFECT

--

### EXPLOITATION POTENTIAL

--

### HUB

South-East Hub

### ECONOMIC IMPACT

--

### SPECIFIC KNOWLEDGE NEEDED

--

### MOBILIZATION POTENTIAL

--

### SUSTAINABILITY POTENTIAL - VALUE

Very Positive

### EASE OF IMPLEMENTATION

--

### EASE OF IMPLEMENTATION - EVALUATION

Medium

### KEY PREREQUISITES

--

### TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED

--

### JOB EFFECT

--

### COSTS OF IMPLEMENTATION ( EURO - € )

--

## MORE DETAILS

---

### CHALLENGE ADDRESSED

1.- Improve forest resilience and adaption to climate change

### DOMAIN

Forest management, ecosystem, resilience

### TYPE OF SOLUTION

Advice and services for forest owners

### KEYWORDS

Water movement  
measuring station system.

### DIGITAL SOLUTION

Yes

### INNOVATION

Yes

### COUNTRY OF ORIGIN

Croatia

### SCALE OF APPLICATION

Local

### START AND END YEAR

2017 - 2019

## CONTACT DATA

---

### OWNER OR AUTHOR

Croatian Forests Ltd, Forest Administration Našice

### REPORTER

Competence Centre Ltd. for research and development

Phd Ivan Ambroš

ambros@cekom.hr

## REFERENCES AND RESOURCES

---

### MAIN WEBSITE

[https://ec.europa.eu/regional\\_policy/en/projects/hungary/protecting-the-english-oak-in-the-hungary-croatia-cross-border-region](https://ec.europa.eu/regional_policy/en/projects/hungary/protecting-the-english-oak-in-the-hungary-croatia-cross-border-region)

### RESOURCES

**Video gallery**

### PROJECT WEBSITE

<http://www.oakprotection.eu/hr>

### PROJECT REFERENCE

Protecting the English Oak in the Hungary-Croatia cross-border region

---

**PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED**

Rosewood 4.0

**POST DATE**

13 Sep 2021

---



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 862681

---

**A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY**

