

## AJA | Environmental sensors for real-time forest ecosystem monitoring



### *Forest health solution built upon an innovative sensor technology for real-time ecosystem monitoring*

The startup foldAI has developed sensors to screen health status of forests providing forest managers with a rich understanding of their forest ecosystems, and a decision toolbox to deploy immediate mitigating actions. The team's solution, Aja, used in the sensors is a framework for ecosystem management based on deep technology. By harnessing state-of-art Machine Learning on precise, real-time sensor data, Aja can not only detect forest threats as they happen, but even predict their arising and forecast their unfolding. Aja improves forest health, resilience and bioeconomical performance by introducing lean processes to a broad ecosystem management community. It helps reducing greenhouse emissions by scaling high resolution forest management through a fully automated and affordable solution for more than 30 Million forest owners in Europe, Russia and North America. The solution builds on embedded Machine Learning, and biochemical and environmental signal processing on high-dimensional data. Use cases comprise the assessment of environmental impacts enabling greater accuracy in the evaluation of the environmental consequences of a strategy or policy, risks assessment including alerts to threats, biodiversity quantification and ecosystem health tracking. Aja's significant carbon reduction impact has been independently certified by The Climate Impact Forecast.

## DETALII

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### SURSA DE LEMN

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### TIPUL DE LEMN

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### TIPUL DE LEMN ÎN CAUZĂ

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### IMPACTUL ASUPRA MEDIULUI ȘI BIODIVERSITĂȚII

The solution helps to monitor ecosystem functions of forests and biodiversity, thereby improving risk management

### EFACT ASUPRA VENITURILOR

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### POTENȚIAL DE EXPLOATARE

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### HUB

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### IMPACT ECONOMIC

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### CUNOȘTINȚE SPECIFICE NECESARE

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### POTENȚIALUL DE MOBILIZARE

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### POTENȚIAL DE SUSTENABILITATE - VALOARE

Foarte pozitiv

### FACILITATEA DE IMPLEMENTARE

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### FACILITATEA DE IMPLEMENTARE - EVALUARE

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### CONDIȚII CHEIE PRELABILE

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### TIPUL DE EVENIMENT LA CARE A FOST PREZENTAT ACEST IPB

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### EFACT ASUPRA LOCURILOR DE MUNCĂ

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### COSTURI PENTRU IMPLEMENTARE (EURO - €)

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## MAI MULTE DETALII

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### PROVOCARE ABORDATĂ

1. Îmbunătățirea rezilienței pădurilor și adaptarea la schimbările climatice

### DOMAIN

Inventariere, evaluare, monitorizare  
Managementul pădurilor, silvicultura, servicii  
ecosistemice, reziliență  
Perturbări ale pădurilor, riscuri, răspuns la dezastre

### TIP DE SOLUȚIE

Senzori, echipamente de măsurare

### CUVINTE CHEIE

forest monitoring; sensors; machine learning;  
biodiversity

### SOLUȚIE DIGITALĂ

Da

### INOVAȚIE

Da

### ȚARA DE ORIGINE

Germania

### SCARA DE APLICARE

Transfrontalier / multi-lateral

### ANUL DE ÎNCEPUT ȘI DE SFÂRȘIT

2019 -

## DATE DE CONTACT

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### PROPRIETAR SAU AUTOR

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## REFERENCES AND RESOURCES

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### PAGINĂ WEB

<https://fold.ai>

### RESURSE

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### WEBSITE PROJECT

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### REFERINȚĂ PROIECT

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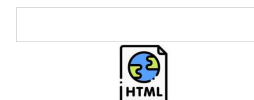
# foldAI

PROIECTUL ÎN CADRUL CĂRUIA A FOST CREATĂ ACEASTĂ FIȘĂ INFORMATIVĂ

Rosewood 4.0

DATA POSTĂRII

16 Dec 2021



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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

