

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

SURSA DE LEMN	POTENȚIALUL DE MOBILIZARE
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TIPUL DE LEMN	POTENȚIAL DE SUSTENABILITATE - VALOARE Foarte pozitiv
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TIPUL DE LEMN ÎN CAUZĂ	FACILITATEA DE IMPLEMENTARE
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IMPACTUL ASUPRA MEDIULUI ȘI BIODIVERSITĂȚII The solution helps to monitor ecosystem functions of forests and biodiversity, thereby improving risk management	FACILITATEA DE IMPLEMENTARE - EVALUARE --
EFFECT ASUPRA VENITURILOR	CONDIȚII CHEIE PREALABILE
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POTENȚIAL DE EXPLOATARE	TIPUL DE EVENIMENT LA CARE A FOST PREZENTAT ACEST IPB
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HUB	EFFECT ASUPRA LOCURILOR DE MUNCĂ
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IMPACT ECONOMIC	COSTURI PENTRU IMPLEMENTARE (EURO - €)
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CUNOȘTINȚE SPECIFICE NECESARE	
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MAI MULTE DETALII

PROVOCARE ABORDATĂ	DOMAIN	TIP DE SOLUȚIE
1. Îmbunătățirea rezilienței pădurilor și adaptarea la Inventariere, evaluare, monitorizare schimbările climatice	Managementul pădurilor, silvicultura, servicii ecosistemice, reziliență Perturbări ale pădurilor, riscuri, răspuns la dezastre	Senzori, echipamente de măsurare
CUVINTE CHEIE	SOLUȚIE DIGITALĂ	INOVAȚIE
forest monitoring; sensors; machine learning; biodiversity	Da	Da
ȚARA DE ORIGINE	SCARA DE APLICARE	ANUL DE ÎNCEPUT și DE SFÂRSIT
Germania	Transfrontalier / multi-lateral	2019 -

DATE DE CONTACT

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https://fold.ai	

REFERENCES AND RESOURCES

PAGINĂ WEB	RESURSE
https://fold.ai	--
WEBSITE PROJECT	
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REFERINȚĂ PROIECT	
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DESPRE EXEMPLUL DE BUNă
PRACTICă

A PRINCIPALEI ORGANIZAțII



PROIECTUL ÎN CADRUL CĂRUIA A FOST CREATă ACEASTă Fișă INFORMATIVă

Rosewood 4.0

DATA POSTăRII

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY



Centro de Servicios y Promoción Forestal
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