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

--

TIPUL DE LEMN

--

TIPUL DE LEMN îN CAUZă

--

IMPACTUL ASUPRA MEDIULUI șI BIODIVERSITățII

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

EFECT ASUPRA VENITURILOR

--

POTENțIAL DE EXPLOATARE

--

HUB

--

IMPACT ECONOMIC

--

CUNOșTINțE SPECIFICE NECESARE

--

POTENțIALUL DE MOBILIZARE

--

POTENțIAL DE SUSTENABILITATE - VALOARE

Foarte pozitiv

FACILITATEA DE IMPLEMENTARE

--

FACILITATEA DE IMPLEMENTARE - EVALUARE

--

CONDIțII CHEIE PREALABILE

--

TIPUL DE EVENIMENT LA CARE A FOST PREZENTAT ACEST IPB

--

EFECT ASUPRA LOCURILOR DE MUNCă

--

COSTURI PENTRU IMPLEMENTARE (EURO - €)

--

MAI MULTE DETALII

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

PROPRIETAR SAU AUTOR

foldAI

Dr. Friedrich Förster

hello@fold.ai

https://fold.ai

REPORTER

Dr. Marie-Charlotte Hoffmann

marie-charlotte.hoffmann@wald-und-holz.nrw.de

REFERENCES AND RESOURCES

PAGINă WEB

https://fold.ai

WEBSITE PROJECT

--

REFERINță PROIECT

--

RESURSE

--

foldAI

PROIECTUL îN CADRUL CăRUIA A FOST CREATă ACEASTă FIșă INFORMATIVă

Rosewood 4.0

DATA POSTăRII

16 Dec 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

cesefor
Centro de Servicios y Promoción Forestal y de su Industria de Castilla y León