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.

DETALJI

PODRIJETLO DRVA
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VRSTA DRVA
--

ODGOVARAJUĆA VRSTA DRVA
--

UTJECAJ NA OKOLIŠ I BIORAZNOLIKOST
The solution helps to monitor ecosystem functions of forests and biodiversity, thereby improving risk management

UČINAK NA PRIHOD
--

POTENCIJAL ISKORISTIVOSTI
--

SREDIŠTE
--

GOSPODARSKI UČINAK
--

POTREBNA POSEBNA ZNANJA
--

POTENCIJAL ZA POVEĆANJE UPORABE DRVA
--

POTENCIJAL ODRŽIVOSTI - VRIJEDNOST
Vrlo pozitivno

JEDNOSTAVNOST PROVEDBE
--

JEDNOSTAVNOST PROVEDBE - EVALUACIJA
--

KLJUČNI PREDUVJETI
--

VRSTA DOGAđAJA NA KOJEM JE PRIKAZAN OVAJ BPI
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UČINAK NA ZAPOŠLJIVOST
--

TROŠKOVI PROVEDBE (EURO - €)
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VIŠE DETALJA

IZAZOV

1. Poboljšanje otpornosti šuma i prilagodbe klimatskim promjenama

DOMENA

Popis, procjena, praćenje

Upravljanje šumama, uzgoj šuma, usluge ekosustava, otpornost

Nepovoljni prirodni uvjeti, rizici, odgovor na katastrofe

VRSTA RJEŠENJA

Senzori, mjerna oprema

KLJUČNE RIJEČI

forest monitoring; sensors; machine learning; biodiversity

DIGITALNO RJEŠENJE

Da

INOVACIJA

Da

ZEMLJA PODRIJETLA

Njemačka

PODRUČJE PRIMJENE

Prekogranična / multilateralna

POČETAK I KRAJ GODINE

2019 -

KONTAKT PODATCI

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REFERENCES AND RESOURCES

GLAVNA WEB STRANICA

https://fold.ai

WEB STRANICA PROJEKTA

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REFERENCA PROJEKTA

IZVORI

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LOGO PRIMJERA DOBRE PRAKSE

LOGO GLAVNE ORGANIZACIJE

PROJEKT U OKVIRU KOJEG JE INFORMATIVNI LIST KREIRAN

Rosewood 4.0

DATUM UNOSA

16 pro 2021

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

Link to Rosewood 4.0

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

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