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.

PODROBNOSTI

PôVOD DREVA

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DRUH DREVA

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UVAžOVANý DRUH DREVA

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VPLYV NA ŽIVOTNé PROSTREDIE A BIODIVERZITU

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

DOPAD NA PRíJMY

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POTENCIáL VYUžITIA

--

ROZBOčOVAč

--

EKONOMICKý VPLYV

--

POTREBA šPECIFICKýCH ZNALOSTí

--

MOBILZAčNý POTENCIáL

--

POTENCIáL UDRžATEľNOSTI - HODNOTA

Veľmi pozitívne

UľAHčENIE IMPLMENTáCIE

--

UľAHčENIE IMPLMENTáCIE - HODNOTENIE

--

KľúčOVé PREPOKLADY

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TYP PODUJATIA, NA KTOROM BOL TENTO BPI PREZENTOVANý

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DOPAD NA ZAMESTNANOSť

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NáKLADY NA IMPLEMENTáCIU (EURO - €)

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VIAC INFORMáCIí

RIEšENá VýZVA

1. Zlepšenie odolnosti lesov a adaptácie na zmenu klímy

DOMAIN

Inventarizácia, posudzovanie, monitoring/monitorovanie

Lesné hospodárstvo/hospodárska úprava lesa, pestovanie lesa, ekosystémové služby, odolonosť

Disturbancie/kalamity, riziká, odpoveď na katastrofu

TYP RIEšENIA

Senzory, meracie prístroje/meracie vybavenie

KľúčOVé SLOVá

forest monitoring; sensors; machine learning; biodiversity

DIGITALNE RIEšENIE

áno

INOVáCIE

Áno

KRAJINA PôVODU

Nemecko

ROZSAH APLIKáCIE

Cezhraničný/multilaterálny

ZAčIATOK A KONIEC ROKA

2019 -

KONTAKTNé úDAJE

VLASTNíK ALEBO AUTOR

foldAI

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REPORTéR

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REFERENCES AND RESOURCES

HLAVNá WEBSTRáNKA

https://fold.ai

PROJEKTOVá WEBSTRáNKA

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REFERENCIA PROJEKTU

ZDROJE

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LOGO NAJLPEŠEJ PRAXE

LOGO HLAVNEJ ORGANIZáCIE

PROJEKT, V RáMCI KTORéHO BOL TENTO INFORMAčNý PREHľAD VYTVORENý

Rosewood 4.0

DáTUM ODOSLANIA

16 dec 2021

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY