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.

DETALJER

VEDENS URSPRUNG

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TRäTYP

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TYP AV TRä

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PåVERKAN På MILJö & BIOLOGISK MåNGFALD

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

EKONOMISK EFFEKT

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KOMMERSIELL POTENTIAL

--

NAV

--

EKONOMISK PåVERKAN

--

SPECIFIKA KUNSKAPSBEHOV

--

MOBILISERINGSPOTENTIAL

--

HåLLBARHETS POTENTIAL - VäRDE

Mycket positiv

ENKEL IMPLEMENTERING

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ENKEL IMPLEMENTERING - UTVäRDERING

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NYCKEL FöRUTSäTTNINGAR

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TYP AV EVENEMANG DäR DENNA BPI HAR PRESENTERATS

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EFFEKT ANTAL ANSTäLLDA

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KOSTNADER FöR IMPLEMENTERING (EURO - €)

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MER INFORMATION

UTMANING SOM ADRESSERAS

1. Förbättra skogens motståndskraft och anpassning till klimatförändringar

DOMäN

Inventering, värdering, övervakning

Skogsförvaltning, skogskjötsel, ekosystemtjänster

Skogsskador, risker, katastrofberedskap

TYPE AV LöSNING

Sensorer, mätinstrument

NYCKELORD

forest monitoring; sensors; machine learning; biodiversity

DIGITAL LöSNING

Ja

INNOVASION

Ja

UPPHOVSLAND

Tyskland

POTENTIAL

Gränsöverskridande/transnationell

START OCH SLUTåR

2019 -

KONTAKT INFORMASION

ÄGARE ELLER FöRFATTARE

foldAI

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RAPPORTöR

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REFERENCES AND RESOURCES

HEMSIDA (HUVUDSIDA)

https://fold.ai

PROJEKTETS HEMSIDA

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PROJEKTREFERENS

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RESURSER

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LOGO FöR BEST PRACTICE

LOGO, HUVUDORGANISATION

PROJEKT SOM DETTA FACTSHEET SKAPATS INOM

Rosewood 4.0

DATUM FöR INLäGG

16 dec 2021

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY