

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

OPPRINNELSE FOR TRE

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TYPE TRE

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MOBILISERINGSPOTENSIAL

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BÆREKRAFTPOTENSIAL - VERDI

Veldig positivt

TYPE TRE INVOLVERT

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ENKEL IMPLEMENTERING

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PÅVIRKNING PÅ MILJØ OG BIOLOGISK MANGFOLD

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

ENKEL IMPLEMENTERING - EVALUERING

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INNTEKTSEFFEKT

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VIKTIGE FORUTSETNINGER

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UTNYTTELSESPOTENSIAL

--

TYPE BEGIVENHET DER DENNE BPI HAR BLITT OMTALT

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HUB

--

EFFEKT PÅ ARBEIDSPLASSER

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ØKONOMISK PÅVIRKNING

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KOSTNADER MED IMPLEMENTERING (EURO - €)

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SPESIFIKKE KUNNSKAPSBEHOV

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MER INFORMASJON

UTFORDRING ADRESSERT	DOMENE	TYPE LØSNING
1. Forbedre skogens robusthet og tilpasningsevne til klimaendringer	Inventering, vurdering, overvåking Skogforvaltning, skogskjøtsel, økosystemtjenester Skogskader, risiko, katastrofeberedskap	Sensorer, måleinstrumenter
NØKKELORD	DIGITAL LØSNING	INNOVASJON
forest monitoring; sensors; machine learning; biodiversity	Ja	Ja
OPPRINELSESLAND	POTENSIALE	START OG SLUTT ÅR
Tyskland	Grenseoverskridende/transnasjonal	2019 -

KONTAKT INFORMASJON

EIER ELLER FORFATTER	RAPPORTØR
foldAI	
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https://fold.ai	

REFERENCES AND RESOURCES

HJEMMESIDE (HOVEDSIDE)	RESSURSER
https://fold.ai	--
PROSJEKTETS HJEMMESIDE	--
REFERANSE TIL PROSJEKT	--

LOGO FOR BESTE PRAKSIS

LOGO FOR
HOVEDORGANISASJON

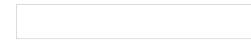


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Rosewood 4.0

INNLEGGSDATO

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Centro de Servicios y Promoción Forestal
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