# 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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**TYPE TRE INVOLVERT**

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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

**INNTEKTSEFFEKT**

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**UTNYTTELSESPOTENSIAL**

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**HUB**

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**ØKONOMISK PåVIRKNING**

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**SPESIFIKKE KUNNSKAPSBEHOV**

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**MOBILISERINGSPOTENSIAL**

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**BæREKRAFTPOTENSIAL - VERDI**

Veldig positivt

**ENKEL IMPLEMENTERING**

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**ENKEL IMPLEMENTERING - EVALUERING**

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**VIKTIGE FORUTSETNINGER**

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**TYPE BEGIVENHET DER DENNE BPI HAR BLITT OMTALT**

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**EFFEKT På ARBEIDSPLASSER**

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**KOSTNADER MED IMPLEMENTERING (EURO - €)**

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## MER INFORMASJON

**UTFORDRING ADRESSERT**

1. Forbedre skogens robusthet og tilpasningsevne til klimaendringer

**NøKKELORD**

forest monitoring; sensors; machine learning; biodiversity

**OPPRINELSESLAND**

Tyskland

**DOMENE**

Inventering, vurdering, overvåking

Skogforvaltning, skogskjøtsel, økosystemtjenester

Skogskader, risiko, katastrofeberedskap

**DIGITAL LøSNING**

Ja

**POTENSIALE**

Grenseoverskridende/transnasjonal

**TYPE LøSNING**

Sensorer, måleinstrumenter

**INNOVASJON**

Ja

**START OG SLUTT åR**

2019 -

## KONTAKT INFORMASJON

**EIER ELLER FORFATTER**

foldAI

Dr. Friedrich Förster

hello@fold.ai

https://fold.ai

**RAPPORTøR**

Dr. Marie-Charlotte Hoffmann

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

## REFERENCES AND RESOURCES

**HJEMMESIDE (HOVEDSIDE)**

https://fold.ai

**PROSJEKTETS HJEMMESIDE**

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**REFERANSE TIL PROSJEKT**

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**RESSURSER**

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**PROSJEKT SOM DETTE FAKTAARKET ER OPPRETTET UNDER**

Rosewood 4.0

**INNLEGGSDATO**

16 des 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**