

## 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

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### 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

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### NAV

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### EKONOMISK PÅVERKAN

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### SPECIFIKA KUNSKAPSBEHOV

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### MOBILISERINGSPOTENTIAL

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### 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

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### 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 INFORMATION

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## REFERENCES AND RESOURCES

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### HEMSIDA (HUVUDSIDA)

<https://fold.ai>

### PROJEKTETS HEMSIDA

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### PROJEKTFERENS

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### RESURSER

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PROJEKT SOM DETTA FACTSHEET SKAPATS INOM

Rosewood 4.0

DATUM FÖR INLÄGG

16 dec 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

