

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.

DETAILS

HERKUNFT DES HOLZES

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ART DES HOLZES

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ART DES BETROFFENEN HOLZES

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AUSWIRKUNGEN AUF UMWELT UND BIODIVERSITÄT

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

EINKOMMENSEFFEKT

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VERWERTUNGSPOTENZIAL

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NABE

--

WIRTSCHAFTLICHE AUSWIRKUNGEN

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SPEZIFISCHES WISSEN ERFORDERLICH

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MOBILISIERUNGSPOTENZIAL

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POTENZIAL FÜR NACHHALTIGKEIT - WERT

Sehr positiv

LEICHTE IMPLEMENTIERUNG

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LEICHTE IMPLEMENTIERUNG - BEWERTUNG

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WICHTIGE VORAUSSETZUNGEN

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ART DER VERANSTALTUNG, AUF DER DIESE BPI VORGESTELLT WURDE

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ARBEITSPLATZEFFEKT

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KOSTEN DER IMPLEMENTIERUNG (EURO - €)

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MEHR DETAILS

ANGESPROCHENE HERAUSFORDERUNG

1. Verbesserung der Widerstandsfähigkeit der Wälder und ihrer Anpassung an den Klimawandel

SCHLÜSSELWÖRTER

forest monitoring; sensors; machine learning; biodiversity

HERKUNFTSLAND

Deutschland

DOMÄNE

Bestandsaufnahme, Bewertung, Überwachung
Waldmanagement, Waldbau, Ökosystemleistungen,
Resilienz
Waldstörungen, Risiken, Katastrophenschutz

DIGITALE LÖSUNG

Ja

UMFANG DER ANWENDUNG

Grenzüberschreitend/multilateral

ART DER LÖSUNG

Sensoren, Messgeräte

INNOVATION

Ja

ANFANGS- UND ENDJAHR

2019 -

KONTAKTDATEN

EIGENTÜMER ODER AUTOR

foldAI

Dr. Friedrich Förster

hello@fold.ai

<https://fold.ai>

REPORTER

Dr. Marie-Charlotte Hoffmann

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

REFERENCES AND RESOURCES

HAUPT-WEBSITE

<https://fold.ai>

PROJEKT-WEBSITE

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PROJEKT-REFERENZ

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RESSOURCEN

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LOGO DER BEST PRACTICE

LOGO DER
HAUPTORGANISATION



PROJEKT, IN DESSEN RAHMEN DIESES FACTSHEET ERSTELLT WURDE

Rosewood 4.0

BEITRAGSDATUM

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

