

## 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.

## DETALHES

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ORIGEM DA MADEIRA

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TIPO DE MADEIRA

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TIPO DE MADEIRA EM CAUSA

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IMPACTE NO AMBIENTE E BIODIVERSIDADE

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

IMPACTE NAS RECEITAS

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POTENCIAL DE EXPLORAÇÃO

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HUB

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IMPACTE ECONOMICO

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CONHECIMENTOS ESPECIFICOS NECESSÁRIOS

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POTENCIAL DE MOBILIZAÇÃO

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SUSTENTABILIDADE POTENCIAL - VALOR

Muito positivo

FACILIDADE DE IMPLEMENTAÇÃO

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FACILIDADE DE IMPLEMENTAÇÃO

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PRE-REQUISITOS CHAVE

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TIPO DE EVENTO EM QUE ESTE BPI TEM SIDO APRESENTADO

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IMPACTE NO EMPREGO

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CUSTOS DE IMPLEMENTAÇÃO (EURO - EUR)

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## MAIS DETALHES

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<b>DESAFIO ABORDADO</b> 1. Melhorar a resiliência e adaptação das florestas às alterações climáticas	<b>DOMÍNIO</b> Inventário, avaliação e monitorização Gestão florestal, silvicultura, serviços do ecossistema, resiliencia Perturbações florestais, riscos e resposta a catástrofes	<b>TIPO DE SOLUÇÃO</b> Sensores, equipamentos de medição
<b>PALAVRAS-CHAVE</b> forest monitoring; sensors; machine learning; biodiversity	<b>SOLUÇÃO DIGITAL</b> Sim	<b>INOVAÇÃO</b> Sim
<b>PAÍS DE ORIGEM</b> Alemanha	<b>ESCALA DE APLICAÇÃO</b> Além fronteiras/ multilateral	<b>ANO DE INÍCIO E FIM</b> 2019 -

## DADOS DE CONTACTO

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### PROPRIETÁRIO OU AUTOR

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## REFERENCES AND RESOURCES

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### WEBSITE PRINCIPAL

<https://fold.ai>

### WEBSITE DO PROJETO

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### REFERÊNCIA AO PROJETO

### RECURSOS

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PROJETO NO ÂMBITO DO QUAL A FOLHA DE DIVULGAÇÃO FOI CRIADA

Rosewood 4.0

DATA DE ENTRADA

16 Dez 2021



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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

