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EIT AI COMMUNITY

Grupo AN

AI Challenge 2025

Grupo AN – AI Solution for Fertilization

Challenge description

Create a system that uses AI to precisely and dynamically adjust fertilization, minimizing costs and avoiding environmental impacts.

Why is this a challenge/opportunity to overcome?

Farmers apply fertilizers according to general formulas, without taking into account the variability of soil and crops. This leads to inefficiencies and economic losses.

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Did you try out a solution for this already?

We have worked on variable fertilization but without applying artificial intelligence methods

What are your expectations about the solution?

Improve and optimize fertilizer application

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Additional information?

What this challenge seeks:

- A solution that analyzes soil maps (nutrients, pH, texture)
 - Combine this with NDVI or multispectral imagery
- And use predictive models to determine fertilizer dosage and type for each sector of the field.

Information about the challenge ownership

María Teresa Muruzabal

Name of your organisation – **Challenge Title**

Optional: please add infographics, pictures or videos here