# Rapid Thorough Deforestation impact on Chlorophyll concentration

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European Big Data Hackathon 2025
Earth Observation: from Space to European Statistics
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European Commission

# Problem:

How can we measure the impact in chlorophyll levels in remaining vegetation after rapid deforestation?

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eurostat

ÖREBRO UNIVERSITET

# Our idea:

- Use NDVI ratio of before and after the event to estimate the percentage of vegetation lost (check definition)
- Use OTCI ratio of before and after the event to estimate the percentage difference in chlorophyll levels in average
- Goal: understand the impact of the event on the health of the remaining vegetation

# Theoretical Reasoning

- What has been done previously?

- Why did we choose these two indicators?

# Interactive Dashboard

DASHBOARD

# Policy Relevance

- Biodiversity Strategy for 2030

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**COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS**

**EU Biodiversity Strategy for 2030**

# Future work

- Integrate Copernicus Emergency Management into the proposed solution
- Extend the area of study
- Further evaluate relevancy to other deforestation events

# THANK YOU!