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## FFPLUS SUCCESS STORY: INNOVATION STUDY

# TURNING CLIMATE SCIENCE INTO INSTANT INTELLIGENCE: THE CLIMATEBLOCKS PROJECT

## ORGANIZATIONS

**The Newsroom** is a Portuguese media innovation startup specialising in AI tools that help journalists navigate complex scientific information with speed, accuracy and transparency. The company designs and deploys ClimateBlocks, combining expertise in AI, knowledge engineering, climate science and responsible data journalism to transform large-scale research into auditable, evidence-linked intelligence for public communication.



## THE CHALLENGE

Climate science is expanding faster than journalists can interpret it. Evidence is dispersed across 500,000 papers, making transparent, reliable reporting difficult. To enter the growing climate intelligence market and move beyond media-monitoring tools, The Newsroom needed a traceable, scientifically grounded solution. Building such a system required computational power far beyond commercial infrastructure.



**Technology used:** HPC, AI, GenAI  
**Industry Sector:** Environment

## THE SOLUTION

The Newsroom developed ClimateBlocks, an AI-powered platform that connects and interprets more than 500,000 climate research papers through a transparent, sourced knowledge graph. Using GPU-accelerated HPC resources, the team fine-tuned a specialised small language model on thousands of annotated papers, enabling rapid extraction of insights, expert identification and traceable concept pathways within seconds for newsroom workflows. The system is designed for practical, auditable newsroom use.

## THE IMPACT

ClimateBlocks is already used by more than 150 journalists to verify findings and reduce research time from hours to seconds, improving the speed, quality and credibility of evidence-based reporting. Through its partnership with the European Journalism Centre, the platform is scaling across newsrooms and strengthening resilience against climate misinformation – a growing societal and democratic risk.

For The Newsroom, the project establishes a defensible position in the emerging climate intelligence market, transforming the company from a media-tech startup into a provider of structured, auditable scientific infrastructure. The creation of a 500,000-paper knowledge graph with millions of validated links provides a proprietary asset base that supports new revenue streams across journalism, research services and policy analysis. By delivering transparent, source-linked AI built on European HPC, the company enhances trust, digital sovereignty and long-term commercial scalability.

## BENEFITS

- Trained a domain-specific AI model 96% smaller than general systems, cutting inference costs by 12–17×.
- Built a proprietary knowledge graph of 500,000 climate papers with millions of structured links.
- Enabled 150+ journalists to verify claims in seconds, improving reporting credibility.
- Secured European Journalism Centre partnership, accelerating market adoption.
- Created a scalable climate intelligence platform supporting new revenue streams.



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