

ignitia

ai powered weather intelligence for smallholder climate resilience

November 2025



Google
Startups for
Sustainable
Development

Early
Warnings
for
All

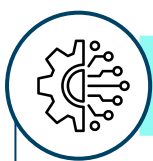


INNOVATION
ACCELERATOR



ignitia

Excellent science, packaged for scale and impact



Science

Industry-leading AI based weather forecast models

- AI-driven, remote sensing
- Optimised for fast, dynamic heat-driven storms
- High resolution (1km - 9km)
- Purpose-built to trigger alerts, advisory, and action



Traction

Trusted by 3 million + customers

Global model coverage

Strategic **Partnerships** for resilience



claro



Impact

Improves **resilience to extreme weather events**

Advisory tools reduce carbon emissions

Highly sticky service for end users with **net promoter score of 71**



Solutions

- **AI-driven, virtual weather radar** for early warning systems
- **Climate risk indices** for investment due diligence, parametric insurance products, commodity trading, targeting interventions
- **Forecasts and weather-triggered advisory** for agriculture, logistics, green energy



Partners



Google
Startups for Sustainable Development

DFC | U.S. International Development Finance Corporation

Extreme weather is humanity's fastest-growing threat and weather models are failing where it matters most

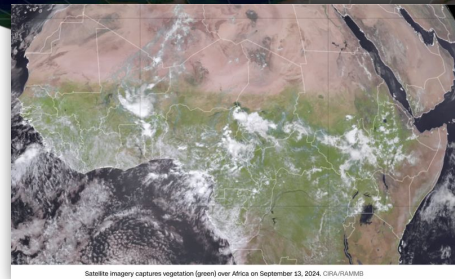
- \$250B–\$2T annual economic losses from extreme weather
- 4 billion people lack access to early warning systems
- Legacy weather models miss rainfall and extremes due to climate change heating up storms



Observations like this radar density illustration are unevenly distributed and past data is no longer as good at predicting the future

An unusual shift in the weather has turned the Sahara green

By Mary Gilbert, CNN Meteorologist
Updated 4:04 PM EDT, Fri September 13, 2024



Satellite imagery captures vegetation (green) over Africa on September 13, 2024. CRI/VIIRS/NOAA

Wildfires sweep Amazon as Brazil suffers worst drought on record

Destruction of forest combined with low rainfall exacerbate effects of climate change



The total area burnt this year in Brazil estimated at 34.5m hectares — or about the size of Germany © Reuters

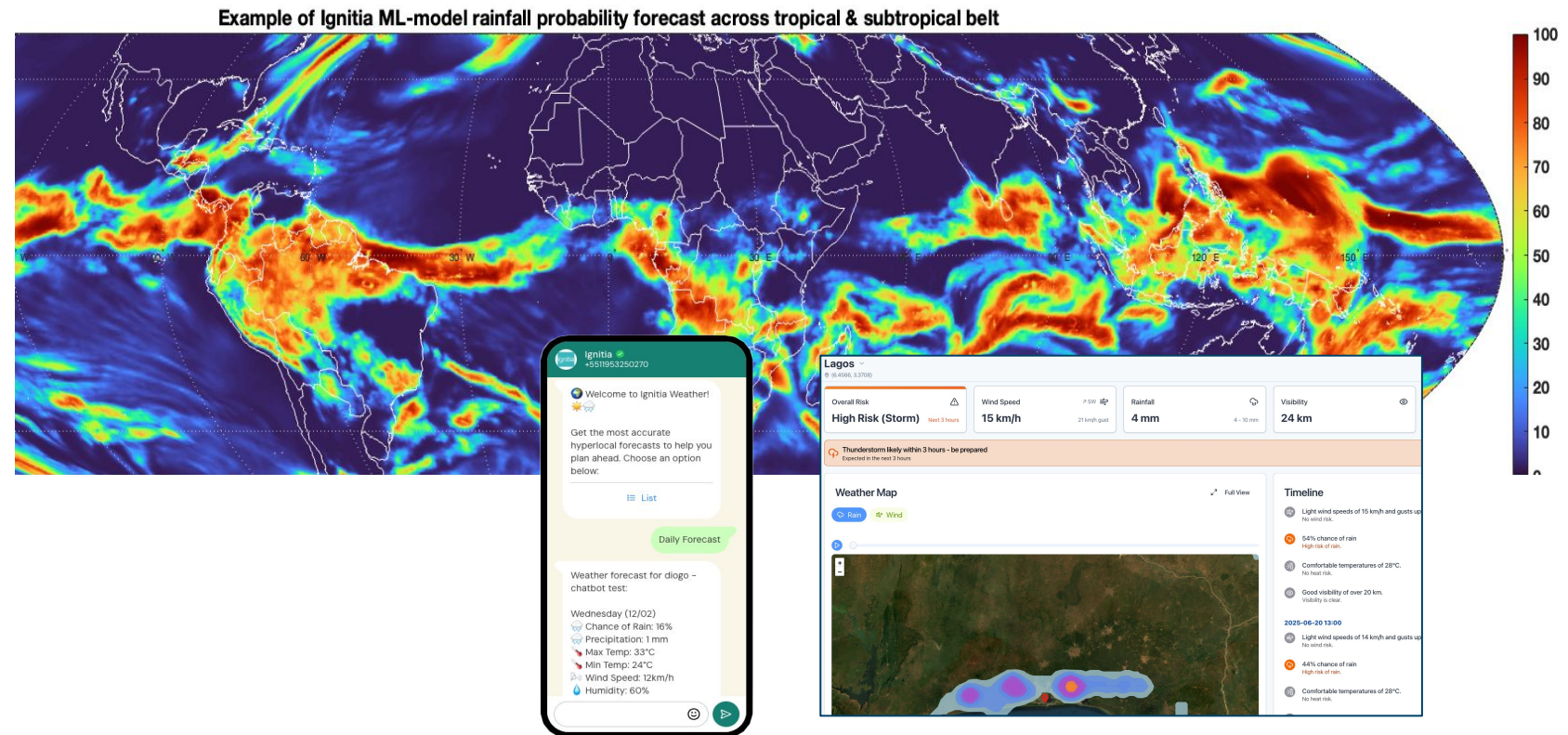
CNN

Dubai flooded with year's worth of rain in just 12 hours



We're building an AI-native weather platform built for our extreme weather future

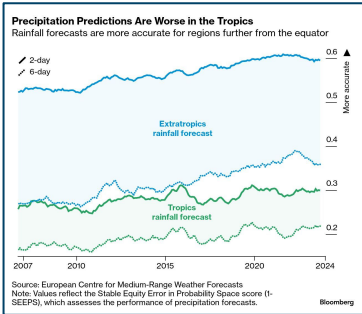
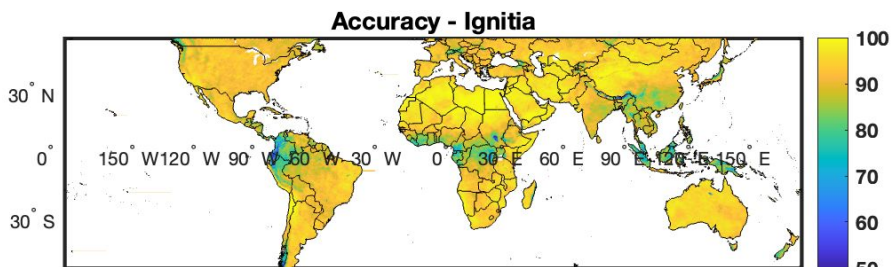
- Developed physics-informed AI models trained on 15+ years of reforecast and ground truth data
- Virtual storm radar and forecasts out to 6 months without additional hardware
- Delivered for widespread accessibility via WhatsApp, SMS, API, dashboards – reaching users in the last mile that others can't



ignitia stands out by predicting extremes and removing model bias – critical for advisory and action

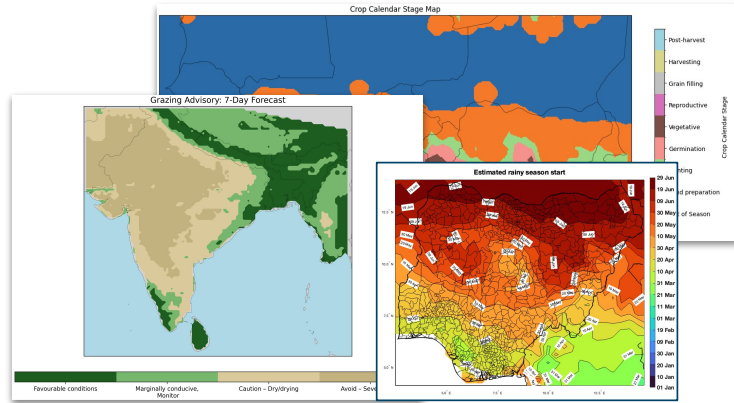
- Rainfall forecast accuracy leadership: 93 % locations overall; 100 % of test days best-in-class
- Asset-light: no hardware, e.g. avoids expensive radar for early warning systems
- Reforecasting datasets continuously improves models
- Agentic AI and human-centered design insights drive high Net Promoter Score & evidenced based impact

ignitia.se

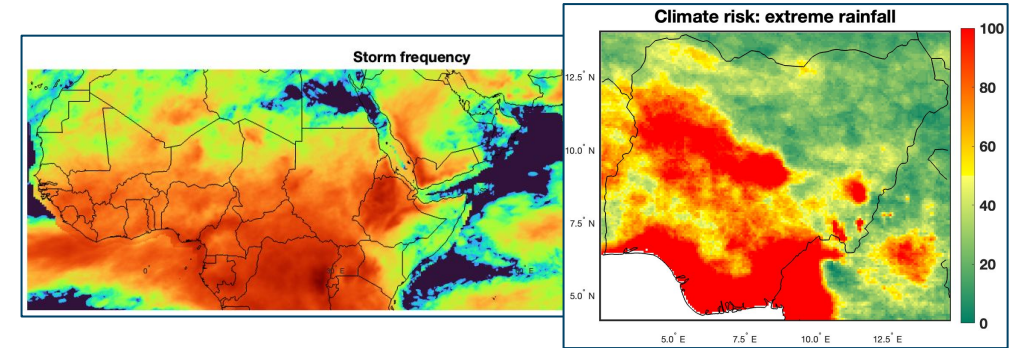


Study Dates: 20230701-20240731	Confidence forecast <20%, >60%	
Metric	ignitia	Altern.
% of days with best accuracy	100%	0%
% of locations with best accuracy	93%	7%
Bias (0 = perfect)	-2%	+33%
Heidke Skill Score	71%	62%
Brier score (lower=better)	0.11	0.15
Accuracy	93%	87%
Reliability (integral)	90%	68%
ROC AUC	90%	88%
CSI	60%	53%
Success rate (SR)	76%	61%
Miss rate (MAR)	26%	19%
False alarm rate (FAR)	24%	39%

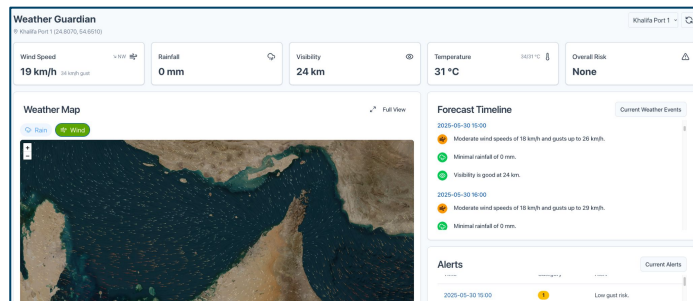
One scientific data platform, multi-sector adaptation solutions.



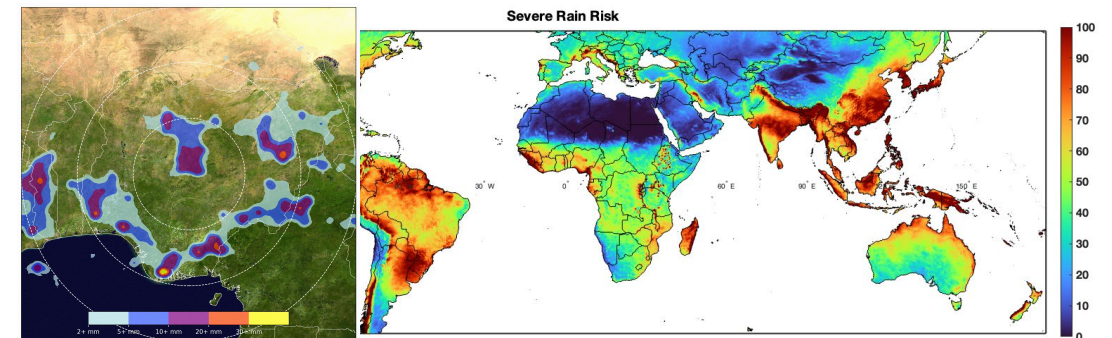
Agriculture: planting dates, rainfall forecasts, regenerative ag advisory



Finance & Insurance: parametric indices, climate risk scores, underwriting data

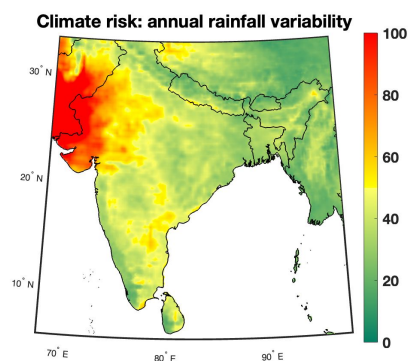


Ports & Logistics: real-time extreme weather alerts for operations

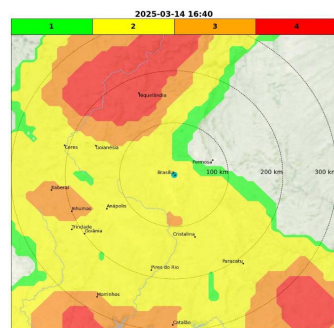


Governments & Early Warning Systems: national-scale disaster risk reduction

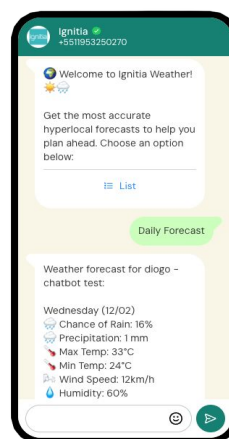
We build products that empower partners to know their risk factors and do something about them



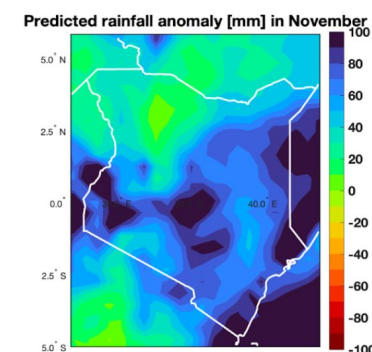
banks,
asset managers



ports, logistics, energy,
insurers, governments



climate vulnerable
populations, farmers



ag-finance, energy,
insurers



Public digital good & commercial value added services

→ Supports national EWS and private-sector decision tools

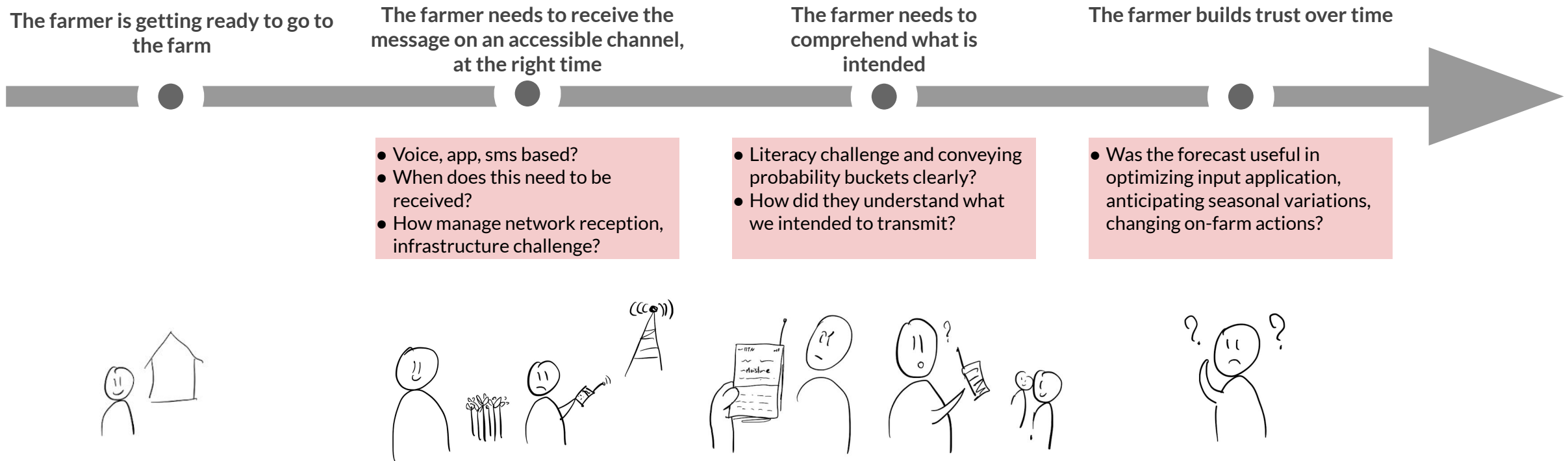
Asset-Light

→ Built for low-bandwidth environments

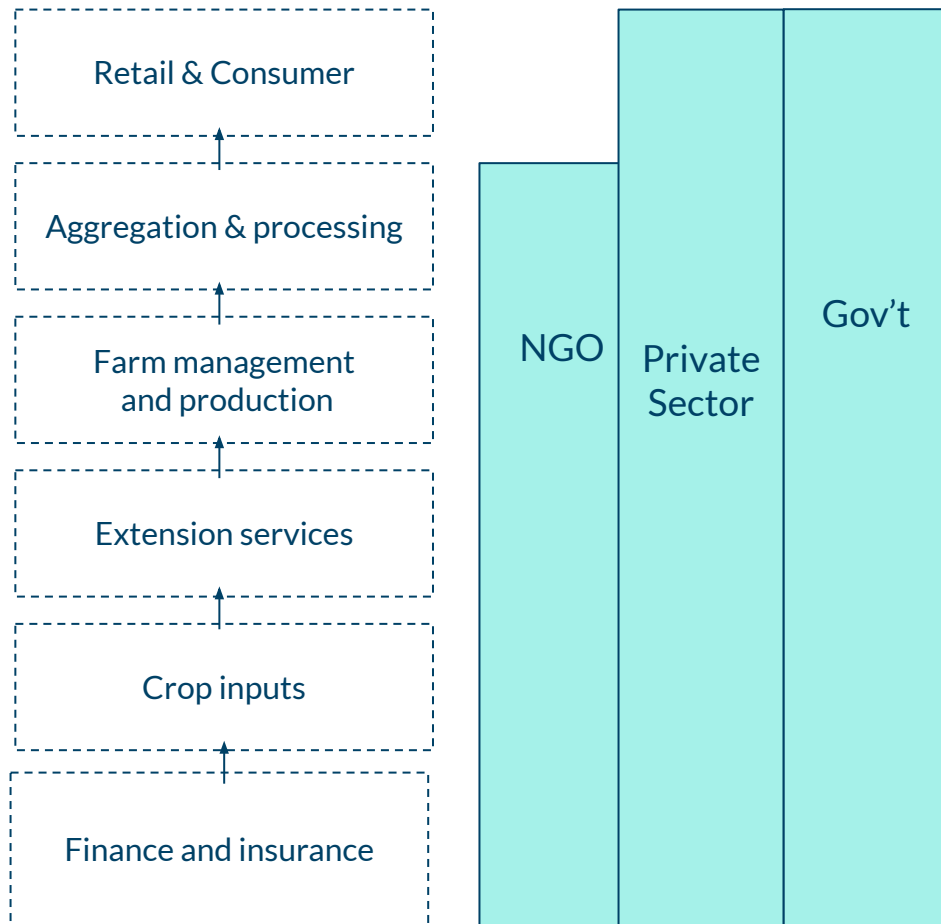
Partner-Ready Architecture

→ APIs for met agencies, MNOs, agri-businesses, and humanitarian orgs

Human centered design has been critical to developing accessible, actionable, and demanded forecast and advisory products



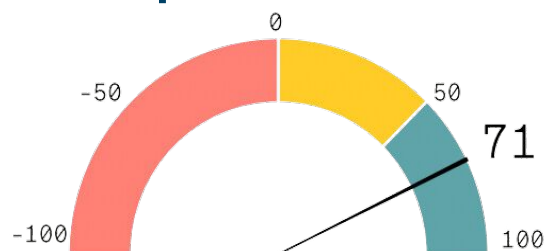
Building sustainable market systems through partnership and evidence based interventions



- The ag supply chain suffers from **overlapping efforts**, with NGOs, governments, and the private sector often duplicating initiatives due to lack of transparency and coordination
- **Subsidies often create short-term solutions** instead of sustainable market systems. This leads to repetitive 4-5 year NGO projects without forming long-term, sustainable partnerships
- Resources for interventions could be directed toward areas with **proven evidence of impact**
- **Sustainable market systems with public-private partnerships and intentional, coordinated segmentation** of public vs commercial goods:
 - traceability (critical to location-based services)
 - financing for digital public goods (data input, processing, and delivery costs) vs commercial services
 - lowering the cost curve for development and distribution of solutions (e.g. SMS, Whatsapp delivery cost subsidy)
 - enabling environment for private sector innovation for value add digital services (engagement with Met offices, government agencies, and digital stakeholders: telcos, social media companies, other channel partners)

ignitia has improved livelihoods and climate resilience for farmers and climate vulnerable populations

Net promoter score



NPS = % Promoters - % Detractors
9-10 rating 0-6 rating

On a scale of 0-10, how likely are you to recommend ignitia to a friend or family member?

15 million

individuals benefited from ignitia's weather data¹

7 in 10

farmers built **climate resilience** and feel better prepared or have actively recovered from a climate event

500,000

individuals impacted on avg on a 6 month basis

9 in 10

farmers **improved their way of farming** and experienced a better farming season

71%

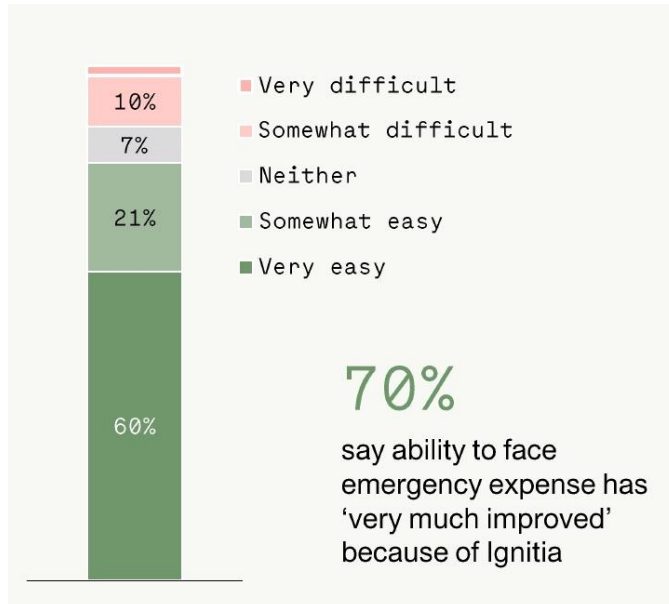
of users report increased income after using Ignitia

*"I got a **very good yield** because of the SMS I got for weather forecasts. I **planted at the right time** when the rainfall was at its peak" - Farmer, 45, Nigeria*

We build resilience to climate change and accelerate the digitization of agriculture

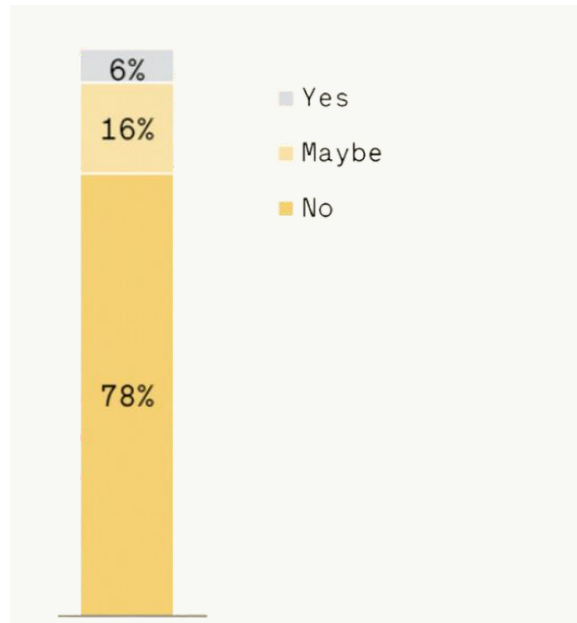
Climate resilience

Ease of accessing funds in case of emergencies



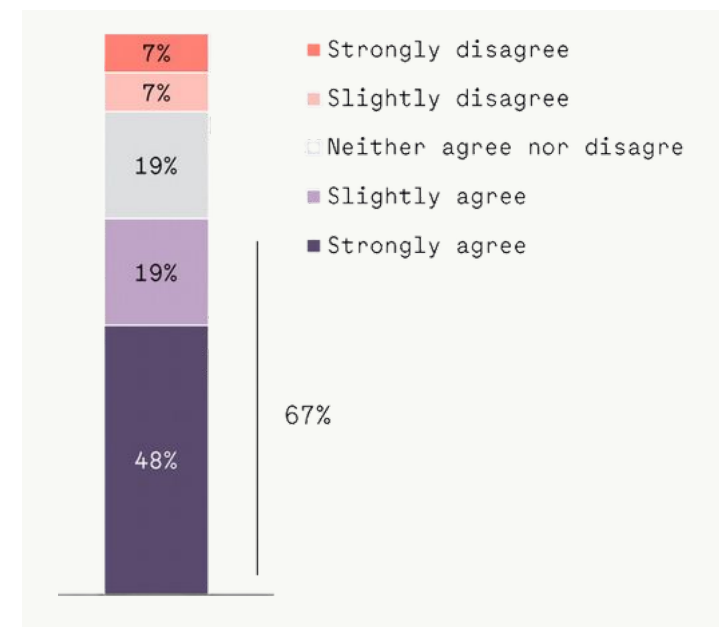
First time access

Could you easily find a good alternative to Ignitia?



Digital tool usage

Using Ignitia made me feel more confident using other digital tools to support my farming activities



ignitia in numbers

25

team members

3+ million

individual subscribers

14

nationalities

1+ billion

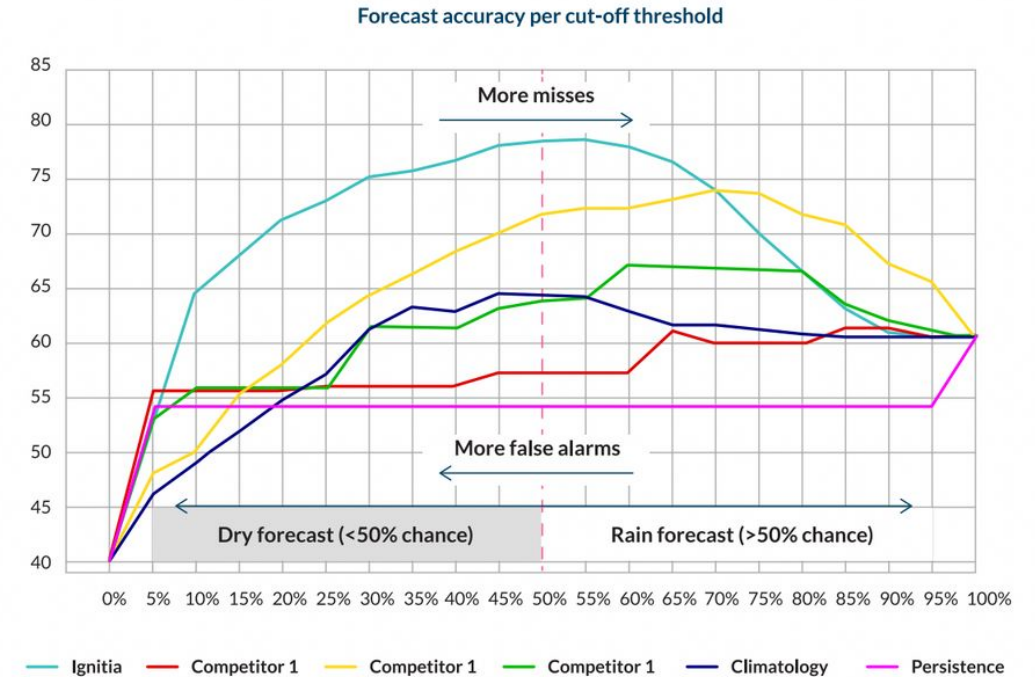
forecasts sent

15+

active countries

88%

global average accuracy



The above graph illustrates ignitia's superior performance against competing weather models. To do this, we carefully remove wet/dry biases from the model by optimizing the balance between misses and false alarms, which enables reliable forecasts. Users who get a forecast will clearly understand if we predict rain or no rain as opposed to receiving a competitor's 50% chance, leaving them guessing what will happen.

We have an exceptional team to achieve our vision with experience in physics, AI, and scaling impact ventures



Andrew Lala

CEO

MA International Econ
Council Foreign Relations



Andreas Vallgren

**Co-Founder, Chief
Scientist**

PhD Fluid Mechanics,
MSc Meteorology



Hafen McCormick

Co-Founder, CIO

Jet Propulsion Lab - NASA
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Tugce Alacadagli

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BSc Economics



Kwabena Frimpong

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Esoko, GIZ
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Theresa Fehle

Chief of Staff

Siemens, Dream VC
MSc Innovation &
Entrepreneurship

Investors and Support from



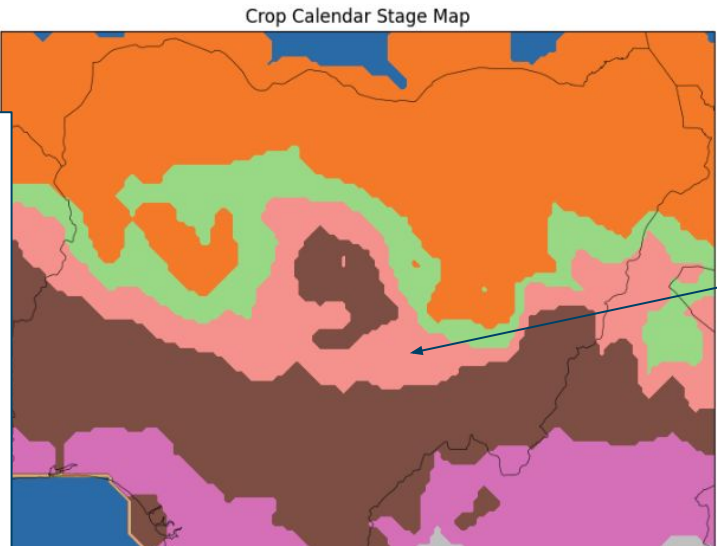
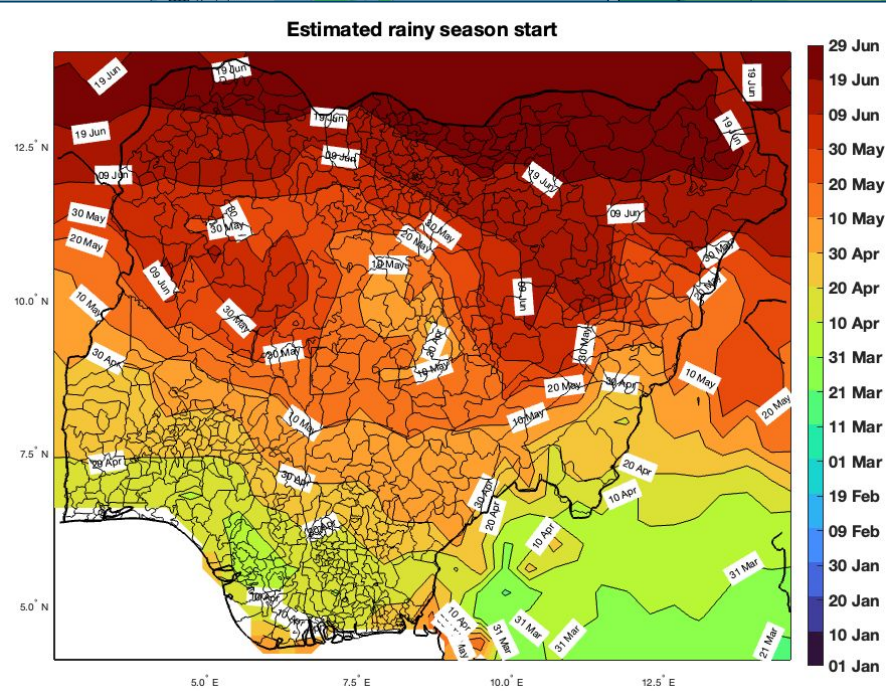
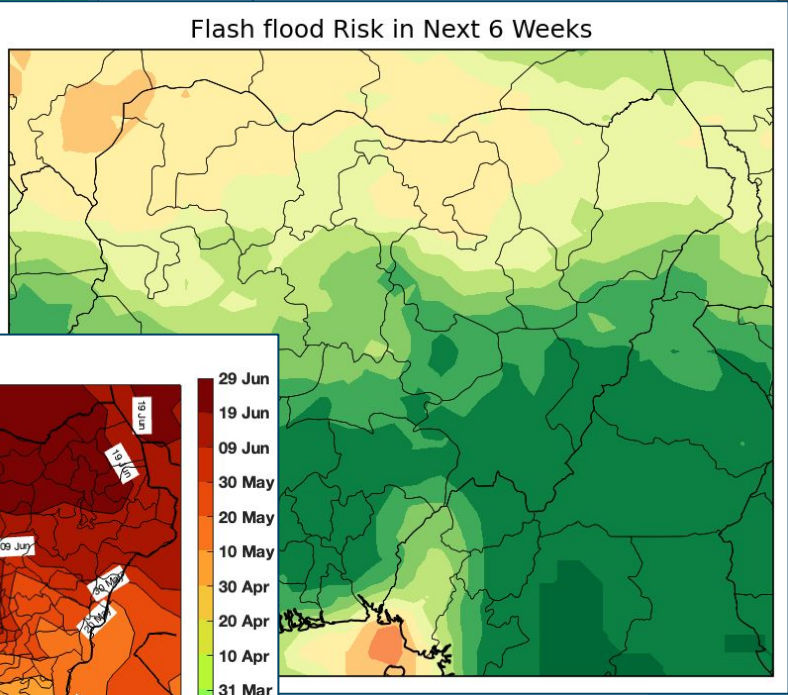
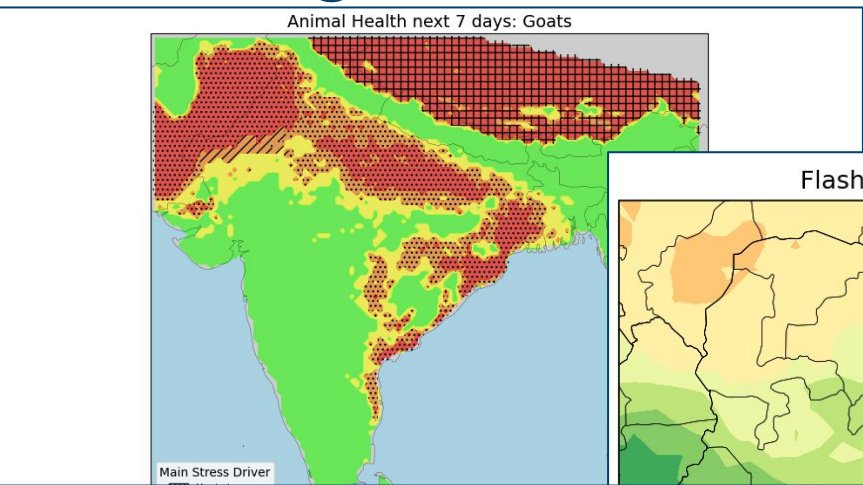
obrigado
tack
thanks
merci

ignitia

Contact us as: theresa.fehle@ignitia.se for more information or a demo to put our data to the test.



We package cutting-edge AI-driven weather and climate intelligence into accessible and actionable advisory



Advisory 4: "Favourable weather conditions for planting. Ideal time to proceed"

Grazing Advisory: 7-Day Forecast

