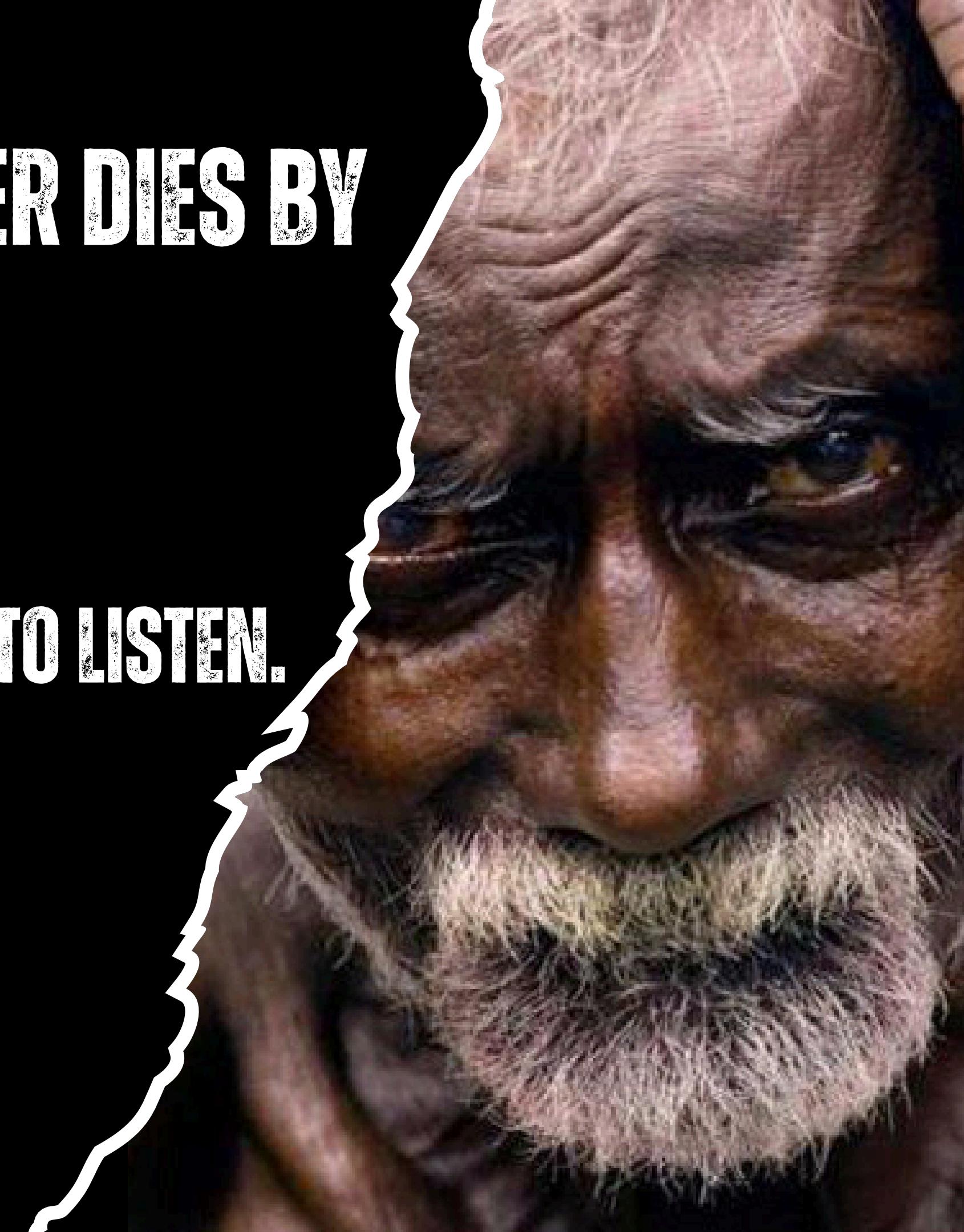


**“EVERY 41 MINUTES, A FARMER DIES BY
SUICIDE IN INDIA.”**

NO WARNINGS. NO SUPPORT. NO ONE TO LISTEN.



Maharashtra sees 479 farmer suicides in March-April; Minister says aid hike not being considered

As per a government resolution (GR) of January 24, 2006, farmer suicides due to crop failure, inability to repay loan from nationalized and cooperative banks or licensed money lenders, burgeoning debt etc are considered eligible for financial aid.

Published - July 04, 2025 05:08 pm IST - Mumbai

PTI



Jul 12, 2025 10:21 AM | E-PAPER



THE NEW
INDIAN EXPRESS

Edition



IN

English



Delhi



31°C

THE TIMES OF INDIA

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News / City News / Bhubaneswar News / Bhubaneswar News / Farmer Suffers 'Crop Loss', Kills Self In Jajpur

Trending

Bijnor Rape

Rajasthan Drone Found

Lucknow Bus Fire

Jharkhand Lightning Strike



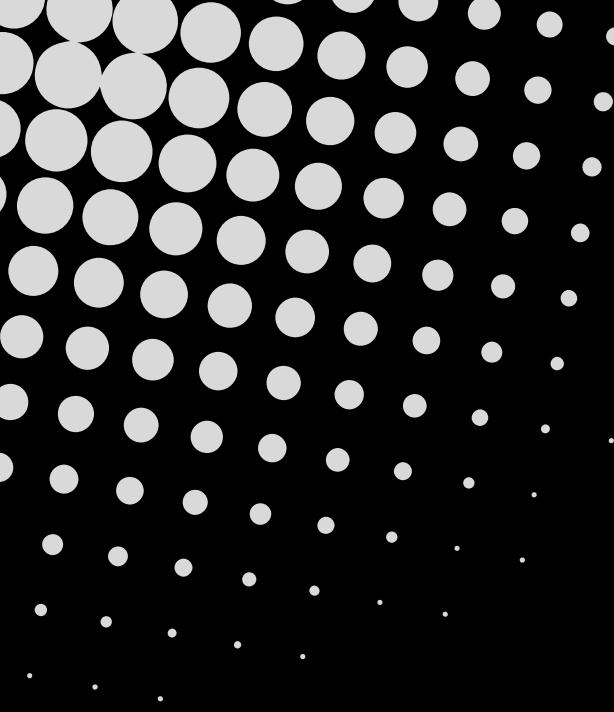
Farmer suffers 'crop loss', kills self in Jajpur

May 17, 2025, 00:33 IST

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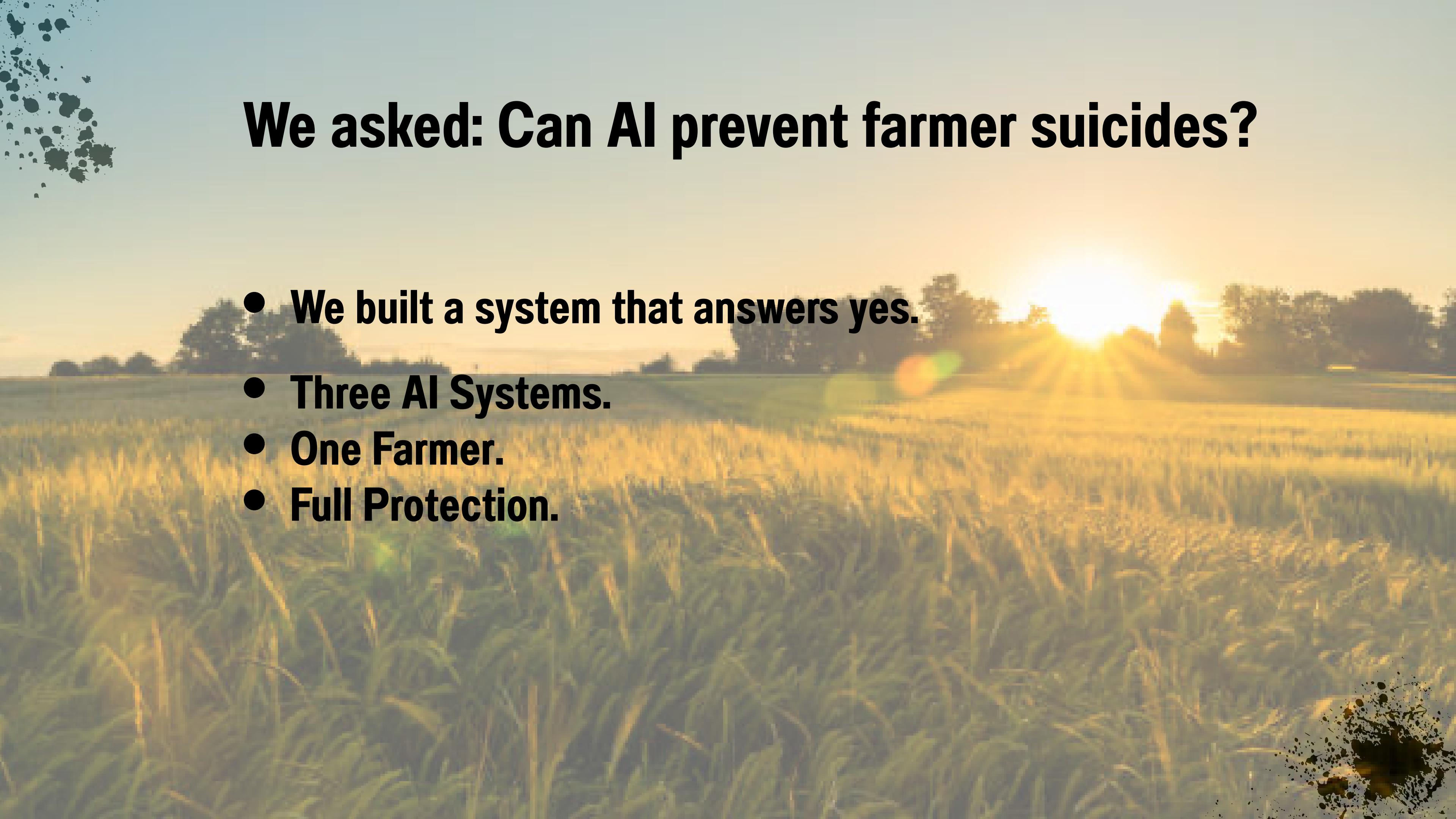
Why is this still happening?

- Sudden crop failure – no warning
- Mental health crisis – no alert system
- Existing tech needs internet, apps, or literacy

Old tools aren't built for our farmers.

✗	App Solutions	Needs 4G and not local
✗	Government Portals	Slow and confusing
✗	AI Platforms	Needs an app or a browser

Nothing works on 2G- until now.



We asked: Can AI prevent farmer suicides?

- We built a system that answers yes.
- Three AI Systems.
- One Farmer.
- Full Protection.

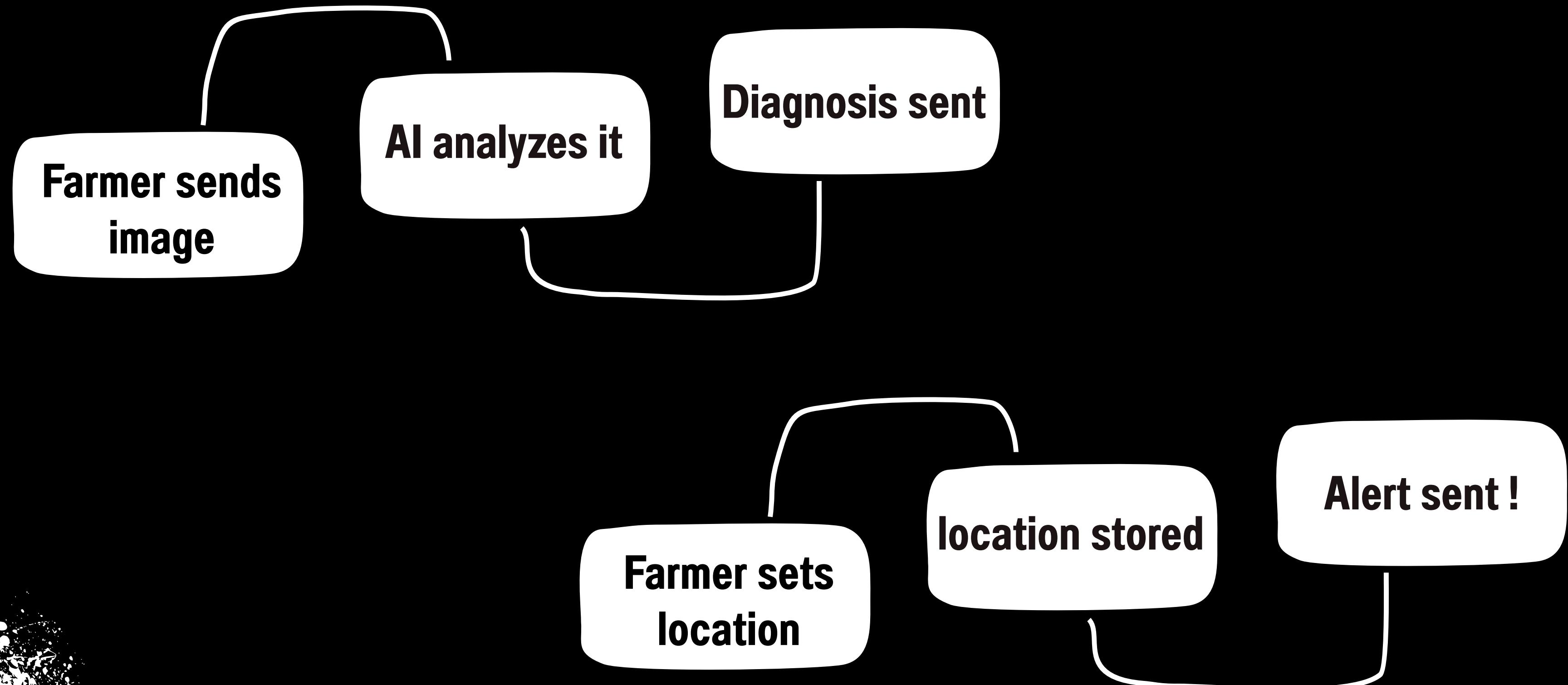
THE 3 AI GUARDIANS

**Just one blurry image
or message
that's all it takes.**

	Crop Autopsy AI	Detects pest/soil/drought from low-res images
	Distress Signal AI	Flags suicide risks in chats, alerts NGOs
	Future Vision AI	Predicts disaster zones before the disaster occurs

How it works

page 06 |



A photograph of a happy Indian family in a lush green field. In the foreground, a young girl with a bindi on her forehead, wearing a pink sari with a yellow border, looks directly at the camera with a wide smile. Behind her, a woman with a red bindi, wearing a green and gold patterned sari, also smiles warmly. In the background, a man with a mustache, wearing a light-colored shirt, is partially visible, smiling. The scene conveys a sense of rural life and family well-being.

**One message saved a crop.
One alert saved a life.
No app. No dashboard. Just hope.**

Scalability

Scaling to Every Farmer – Even on Button Phones



Farmer



Button Phone / WhatsApp / SMS / IVR



AI System: Image | Text | Forecast



Fixes via SMS



Alerts to NGO

Scalability

 IVR Bots	Voice-based help for illiterate users (press 1 for issue, etc.)
 SMS Integration	Works on button phones, even without WhatsApp
 Telegram/WhatsApp Bots	Optional smart interaction for those with data
 No app, no internet needed	Works on 2G, zero learning curve
 NGO + Gov API Hooks	Alerts go to real humans – fast intervention
 Scalable via cloud	Deploy via FastAPI & serverless tools

Built in 36 Hours. Our Stack.

Front end	HTML/CSS + Vercel (for risk map)
Backend	FastAPI (Python) + Railway
Image AI	Roboflow (blurred crop classification)
Text AI	TextBlob + suicide keyword detection and Gemini API for friendly crop doctor chat feature
Forecast AI	Rule engine (soil/climate inputs) and OpenWeather API to fetch real time weather updates
Bots	Telegram Bot API

These were our problems...

- Sudden crop failure
- Silent suicides
- No early warnings

“And yes – we’ve solved them.”

Built by F22 Raptors
AI for real lives.

THANK YOU

Mithurn Jerome
Mahee Tibrewal