



**Innovating to Drive
Farmer Livelihood**

33%

**food
supply**

600M

**smallholder
farmers**

>5

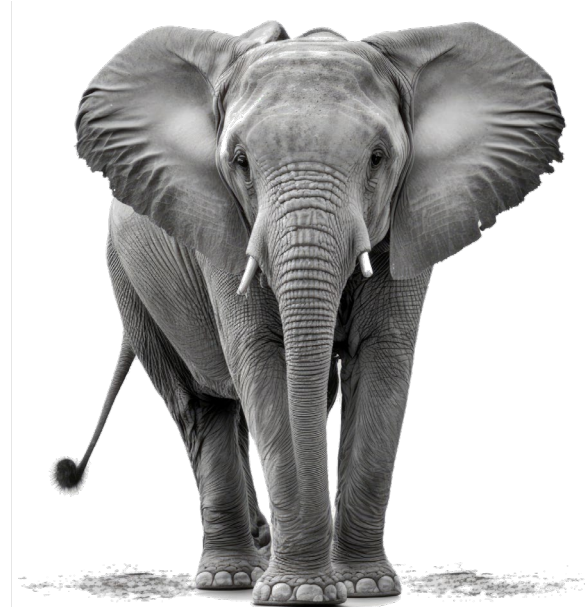
acres



Food and Agriculture
Organization of the
United Nations

33% =

**food
supply**



African Male Elephants
(avg weight 14,000 lbs.)

**total weight of 510K
African Male Elephants**

600M
smallholder
farmers

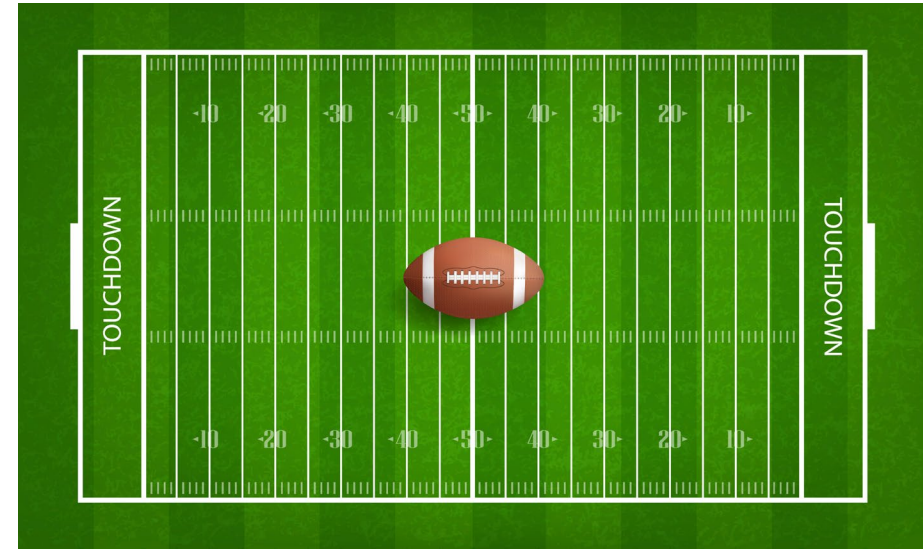
=



U.S. Population
334 Million

1.8x
U.S. Population

> 5
acres =



U.S. Football Fields
1.32 acres

3.5
U.S. Football Fields



Nourish the world in a safe, responsible and sustainable way.

Over 150,000 employees

Working in over 70 countries

More than 158 years of experience

A trusted partner for food, agriculture, financial and industrial customers in more than 125 countries.



Agriculture



Food

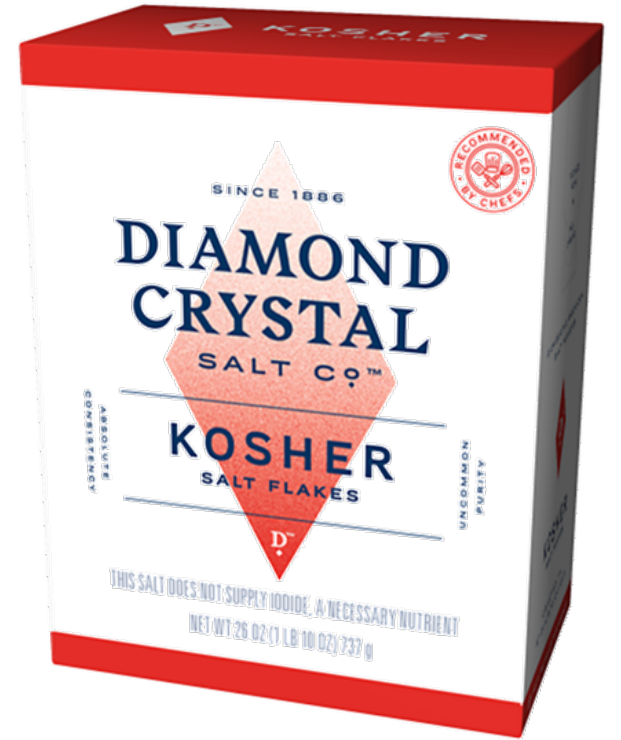


Animal nutrition & protein



Financial & industrial





Cargill[®] Helping the world thrive

Cargill & IBM: Farmer Livelihood

- 1957 installed its first electronic digital computer, IBM 650
- Analyzed more than 4 million possible outcomes
- Precisely formulate a breakthrough product: Nutrena All-Mash Egg Feed
- Helped farmers raise healthier, larger and more productive chickens at a lower cost
- First formulation completely calculated by the computer— an industry turning point





DIGITAL LABS

Preparing Cargill for a digital future.



iQuatic



**Digital
Saathi**

Cargill's Innovation Approach



How to explore the customer problem



How to develop & test a solution



How to build & scale the solution



Precision Agriculture

**Access to Knowledge
and Education**

**Digital Marketplaces
and Direct Trade**

**Financial Inclusion
and Access to Credit**

**Collaboration and
Knowledge Sharing**



Shrimp Farmer Livelihood in Ecuador



Ecuadorian Shrimp Farming

- Shrimp farms comprise 220,00 hectares
- 2nd largest generator of non-oil export earnings
- Employs over 340,000 people, many in poor, rural areas
- Women make up 33% of the workforce



Explore Customer Problems

DESIGN
THINKING

Conversations and
interviews to
understand shrimp
farmer problems

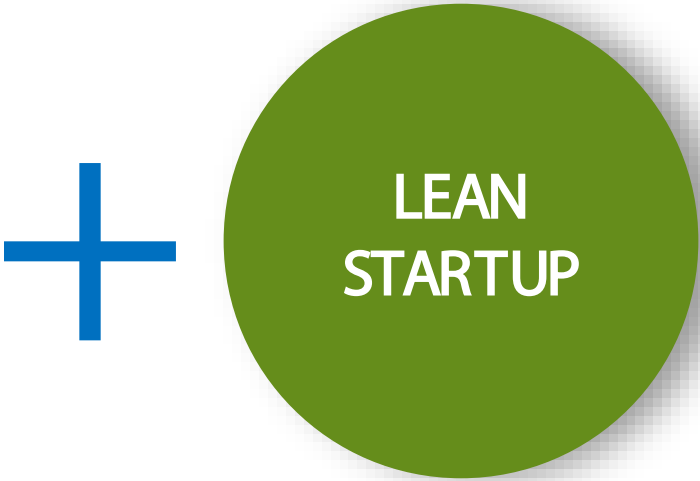


Shrimp Farmer Problems

- Weather
- Poor Productivity
- Low Feed Conversion Rate
- Diseases
- Unpredictable Yields
- Resource-intensive Farming



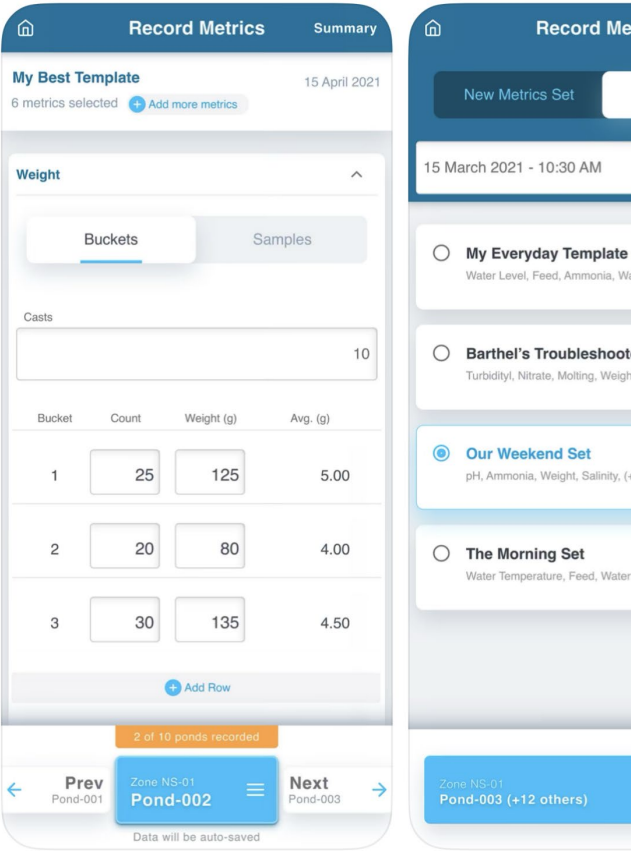
Test Minimal Usable Demo (MUD)



Minimal Usable Demo (MUD)

MEASURE: Form Entries/Day (usage)

**Launch and test with select
shrimp farmers**

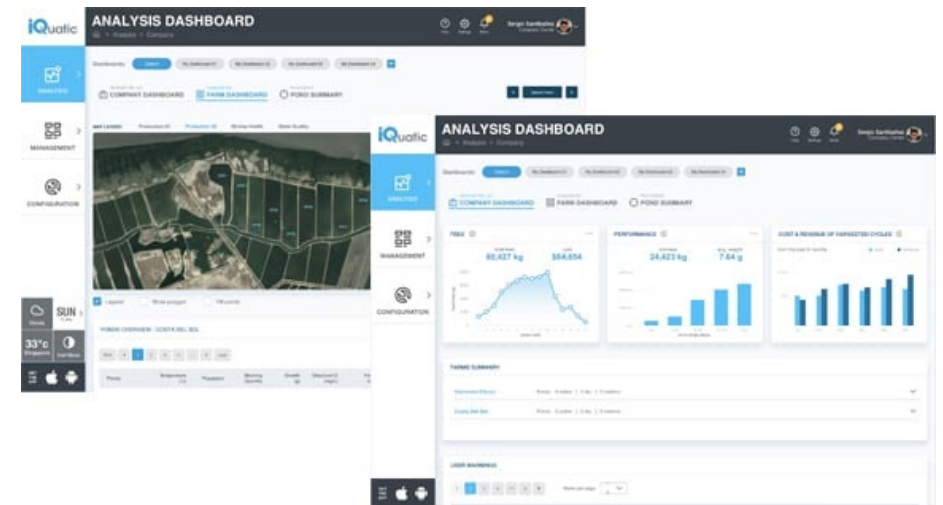


iQuatic Build & Scale



AGILE
DEV

Expanded to all
Ecuadorian
shrimp farmers
AND then Asia

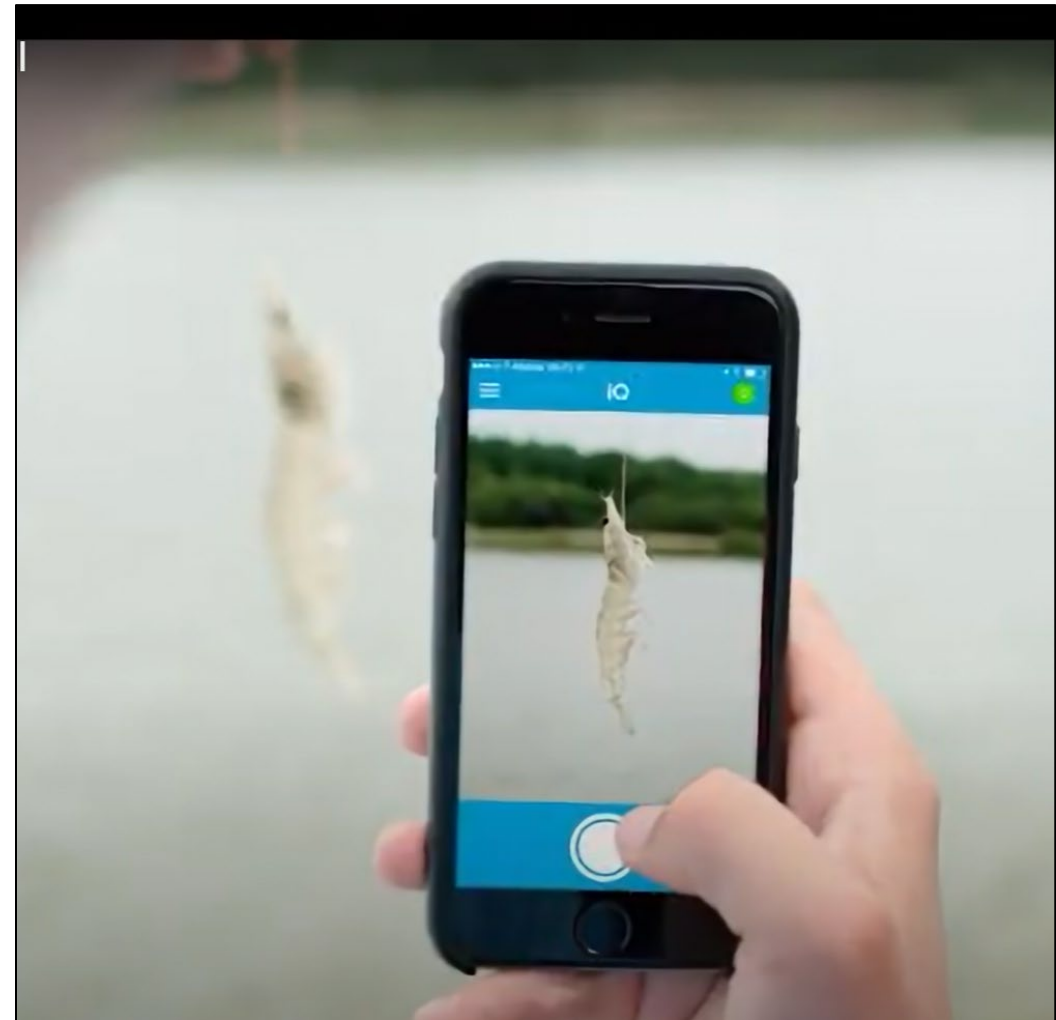
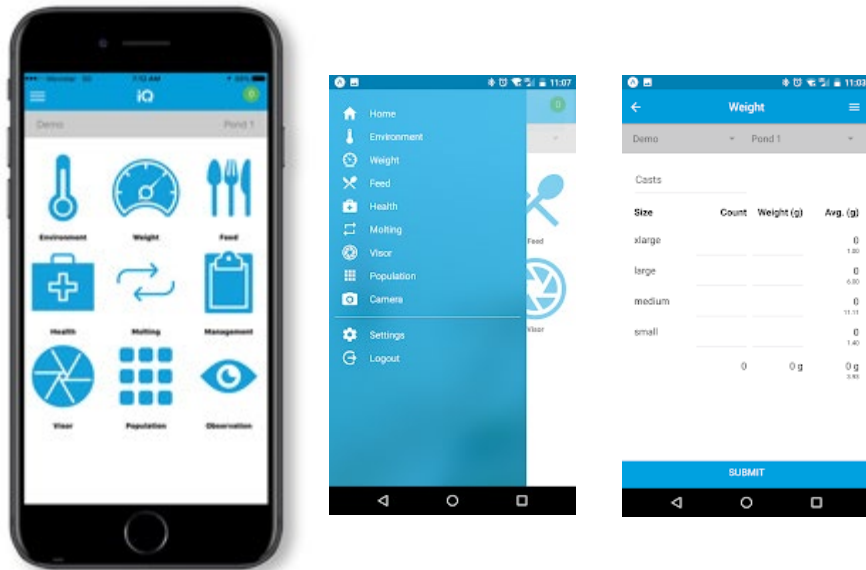




iQShrimp, driven by iQuatic™

Cargill's digital platform for aquaculture

iQuatic Success Story



iQuatic – AgTech Check List



- ✓ Precision Agriculture
- ✓ Access to Knowledge and Education

Digital Marketplaces and Direct Trade

Financial Inclusion and Access to Credit

Collaboration and Knowledge Sharing

Crop Farmer Livelihood in India



Indian Agriculture

- 17% of GDP is agriculture
- Employs 60% of nation's workforce
- 70% rural households depend on agriculture for livelihood
- 82% farmers are small and marginal
- Cereal-centric (grains)
- Traditional farming practices, are unsustainable



Explore Customer Problems

DESIGN
THINKING

Conversations and
interviews to
understand
smallholder farmer
problems

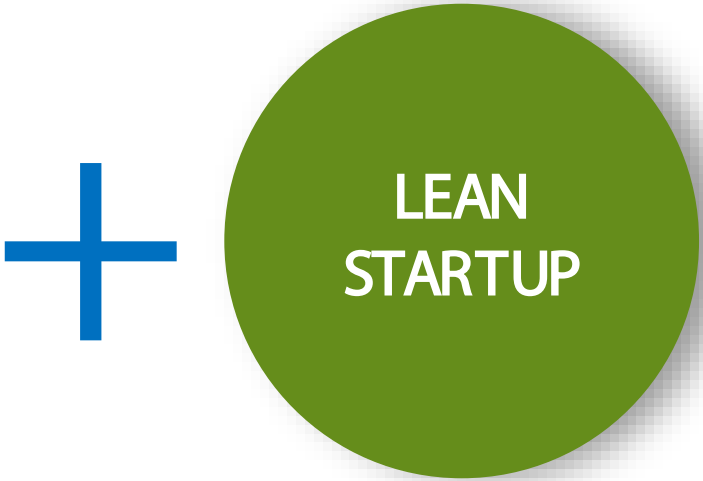


Indian Farmer Problems

- Regionally based markets
- Low Productivity
- Managing drought
- Floods
- Pests
- Unpredictable yields
- Traditional farming techniques
- Farming knowledge



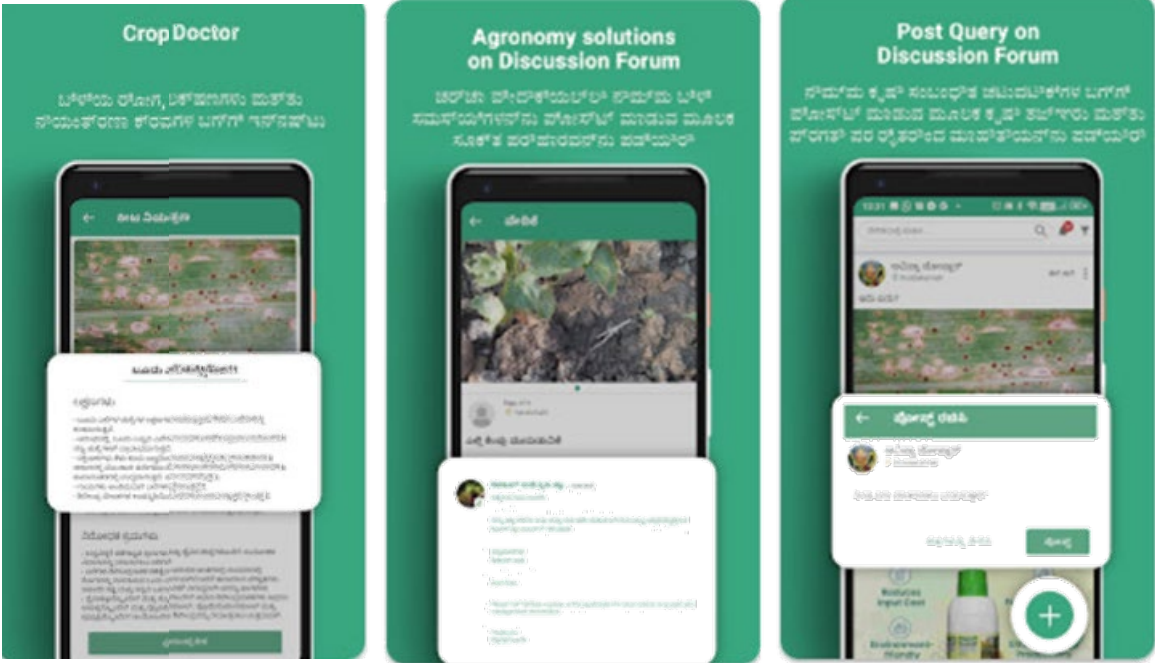
Test Minimal Usable Demo (MUD)



Minimal Useable Demo (MUD).

MEASURE: Customer sign ups

**Launched and tested in
Karnataka**

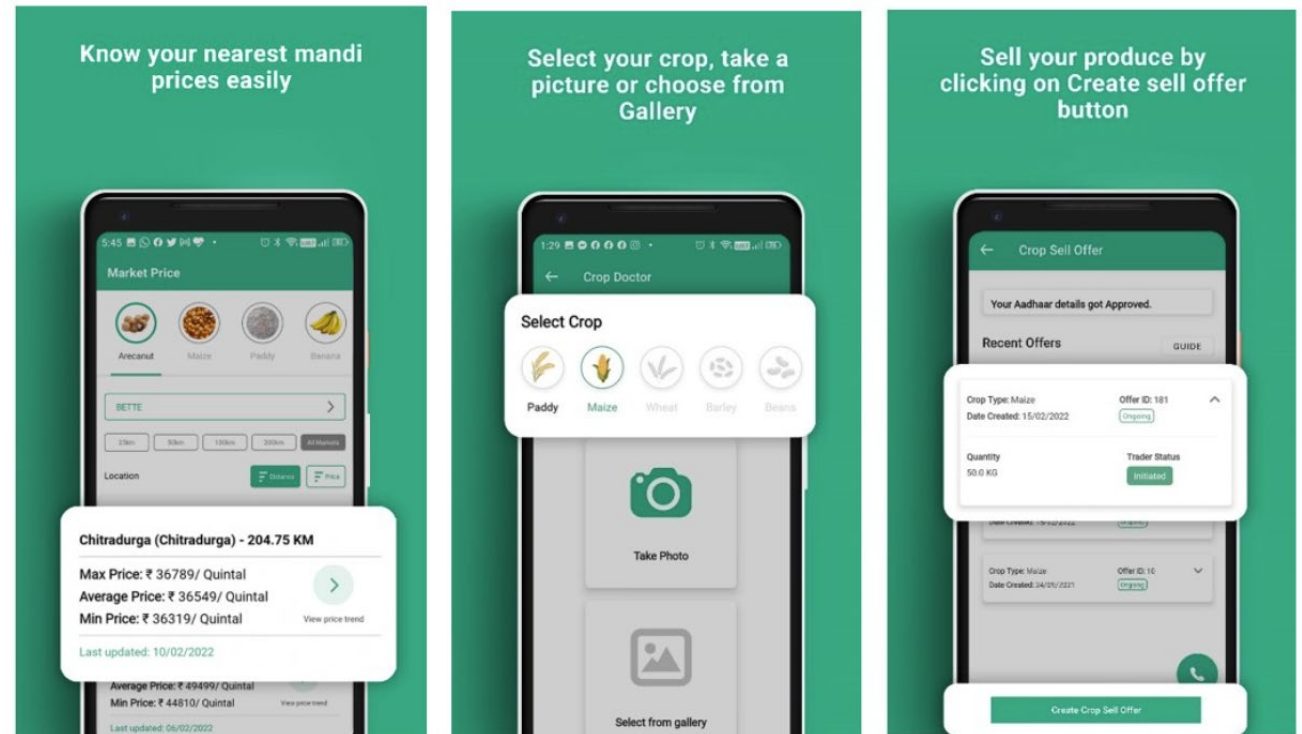


Digital Saathi Build & Scale



AGILE
DEV

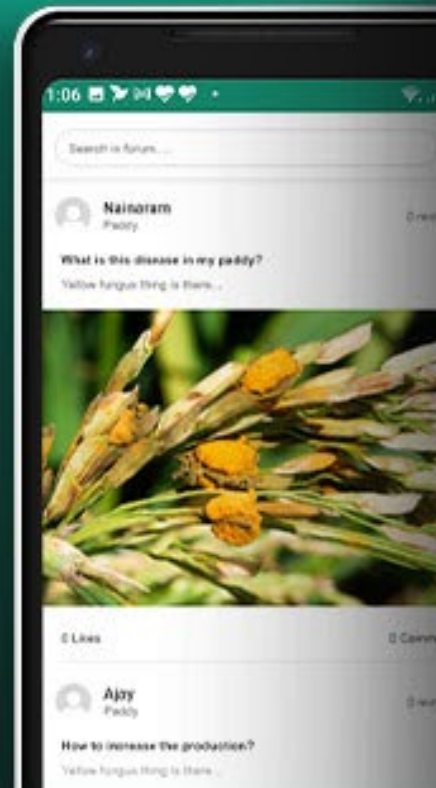
Expanded to 5
other regions





Our Premium Features.....

- **Community**
- **Market Price**
- **Crop Practices**
- **News**
- **Insurance**
- **Credit**



Digital Saathi Success Story



Manjunath Devendrappa

Digital Saathi – AgTech Check List



Precision Agriculture

- ✓ Access to Knowledge and Education
- ✓ Digital Marketplaces and Direct Trade
- ✓ Financial Inclusion and Access to Credit
- ✓ Collaboration and Knowledge Sharing



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