



About the program

PMFBY Key Features.

Low Farmer Premium

Uniform across the nation; claim paid directly to farmer's account

Comprehensive Risk Coverage

Comprehensive risk coverage against all non-preventable natural risks from pre-sowing to post-harvest stage

RWBCIS

Weather-index-based RWBCIS offered for Crops/Areas where Historical Yield Data is not available



National Crop Insurance Portal (NCIP)

End-to-end auto Administration of the Scheme

Leveraging technology

Apps, Remote Sensing Technology, and other technologies in yield estimation

Voluntary for loanee farmers

Enrolment made voluntary for loanee farmers for first time in history of Crop Insurance

History of Crop Insurance In India

1972-1978

First Scheme

Individual Approach Basis

1979-1984

PCIS

Pilot Crop Insurance Scheme

1985-1999

CCIS

Comprehensive Crop Insurance Scheme

1997-98

ECIS

Experimental Crop Insurance Scheme

2010

MNAIS

Modified National Agriculture

Insurance Scheme

2007

WBCIS

Pilot Weather Based Crop

Insurance Scheme

1999-2009

NAIS

National Agriculture Insurance

Scheme

2013-2015

NCIS

National Crop Insurance Programme

Other Insurance Schemes

- Farm Income Insurance Scheme
- Coconut Palm Insurance Scheme
- Rajasthan Gov Orange Insurance
- Bio-Fuel Tree or Plant Insurance
- Drought Risk Insurance

2016

PMFBY

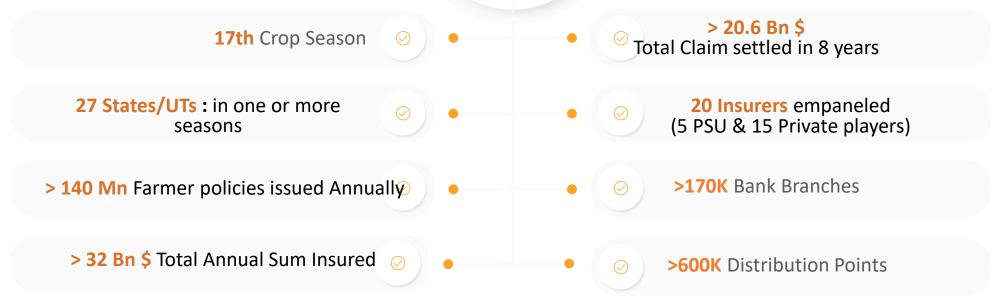
Pradhan Mantri Fasal Bima Yojana

PMFBY Journey Over Last 8 Years.



Scale of Implementation





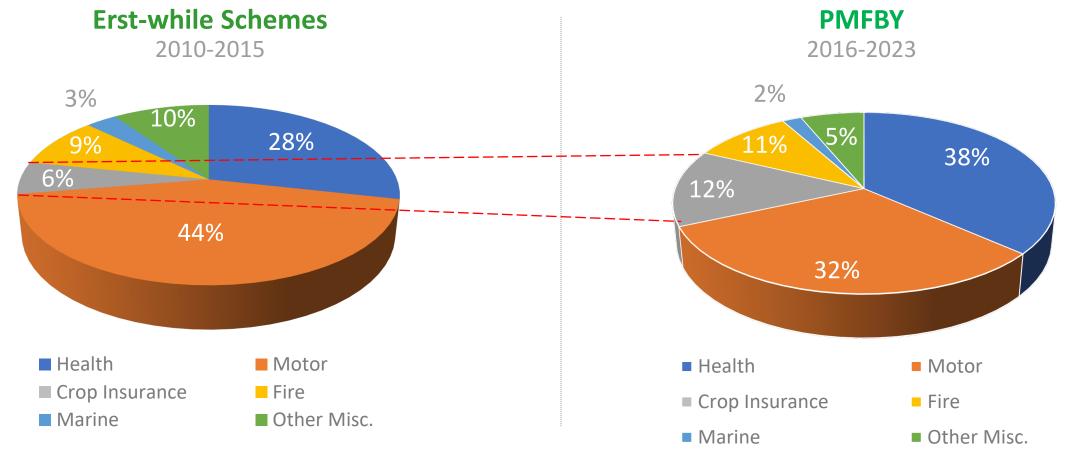


• Globally largest program for Crop Insurance in terms of Policies Generated



Growth of Crop Insurance under PMFBY







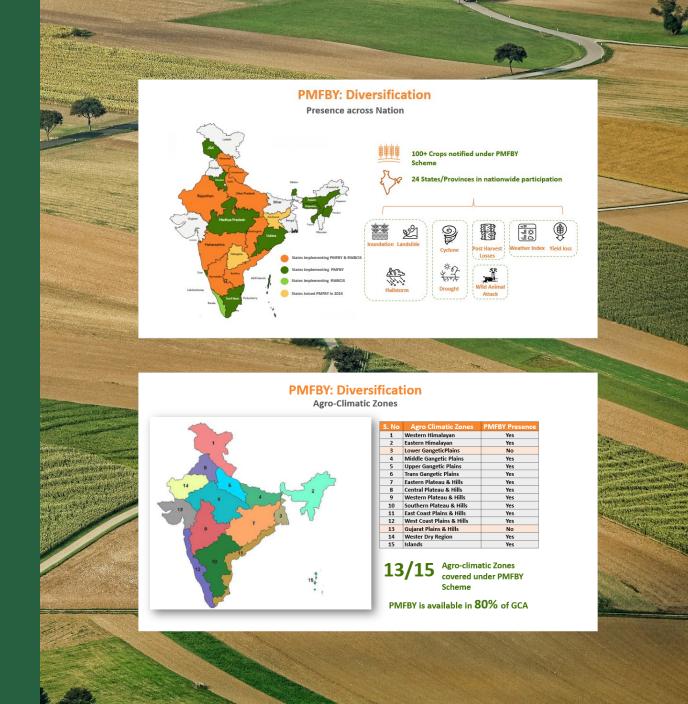
Crop Insurance:

3rd Largest Line of business in the Indian General Insurance Industry Globally, **3rd Largest Crop Insurance Program** in term of GWP *All



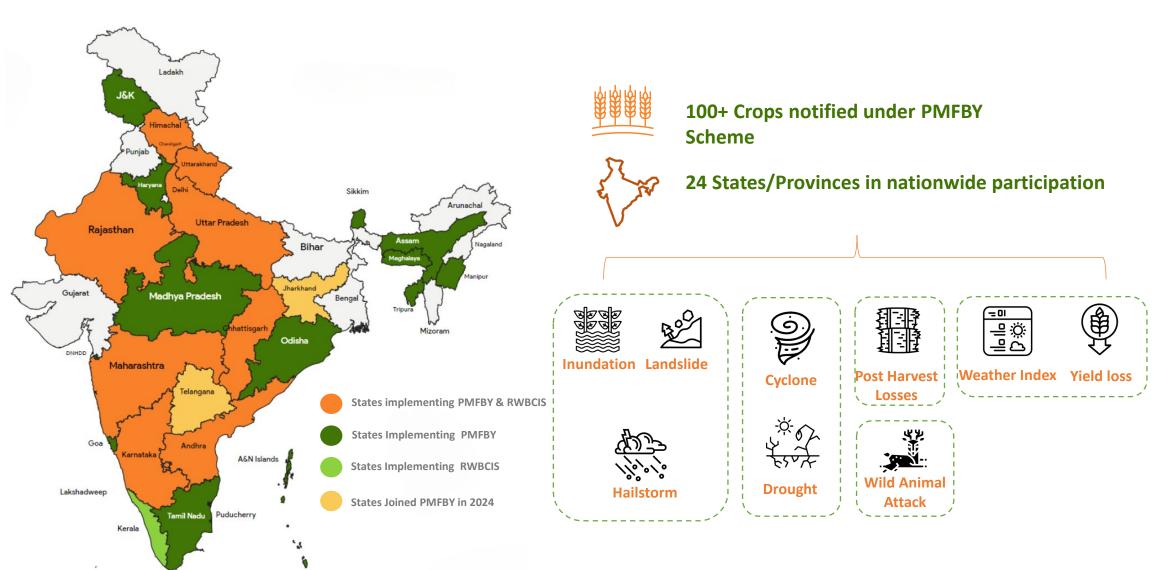
PMFBY Diversification

- ☐ Nation Wide Presence
- ☐ Agro Climatic Zones Spread



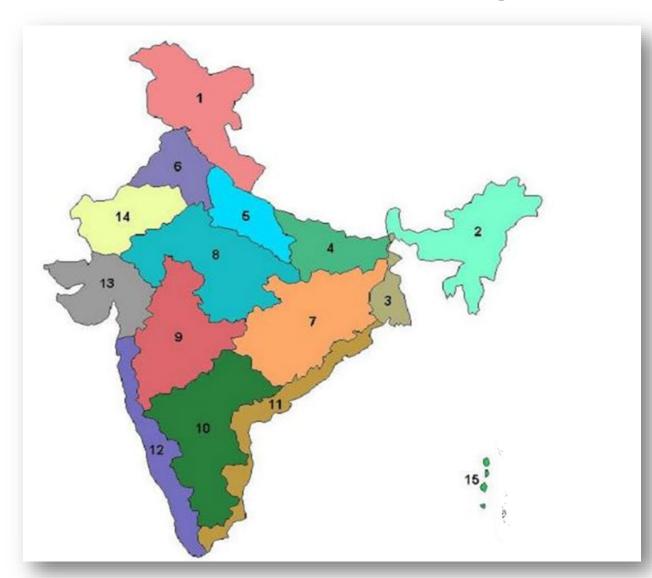
PMFBY: Diversification

Presence across Nation



PMFBY: Diversification

Agro-Climatic Zones



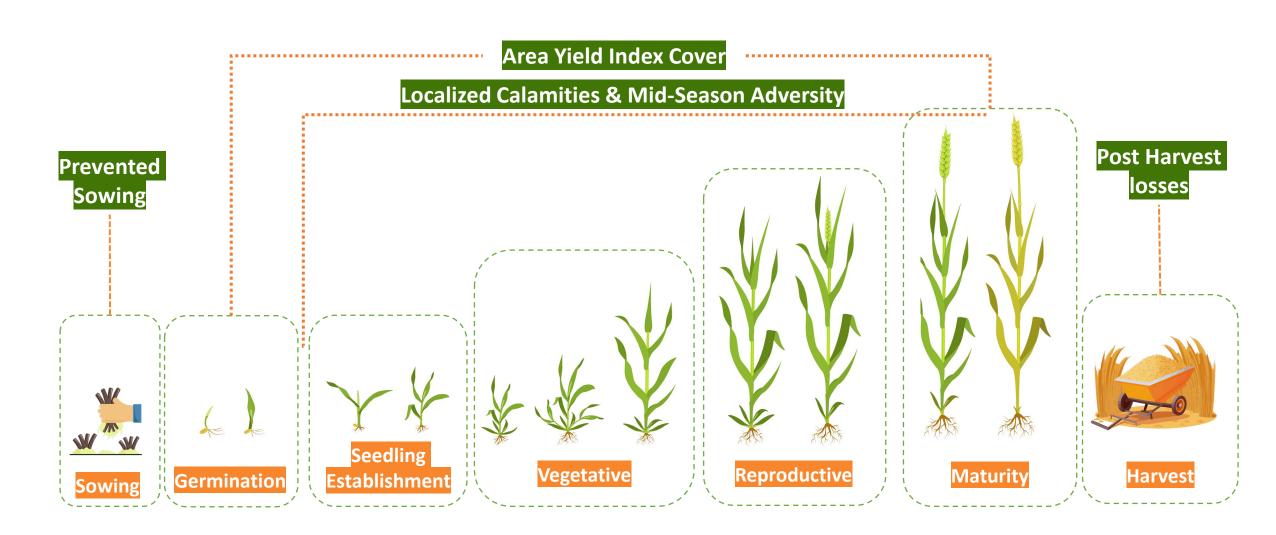
S. No	Agro Climatic Zones	PMFBY Presence
1	Western Himalayan	Yes
2	Eastern Himalayan	Yes
3	Lower GangeticPlains	No
4	Middle Gangetic Plains	Yes
5	Upper Gangetic Plains	Yes
6	Trans Gangetic Plains	Yes
7	Eastern Plateau & Hills	Yes
8	Central Plateau & Hills	Yes
9	Western Plateau & Hills	Yes
10	Southern Plateau & Hills	Yes
11	East Coast Plains & Hills	Yes
12	West Coast Plains & Hills	Yes
13	Gujarat Plains & Hills	No
14	Wester Dry Region	Yes
15	Islands	Yes

13/15 Agro-climatic Zones covered under PMFBY Scheme

PMFBY is available in 80% of GCA

PMFBY Product Structure

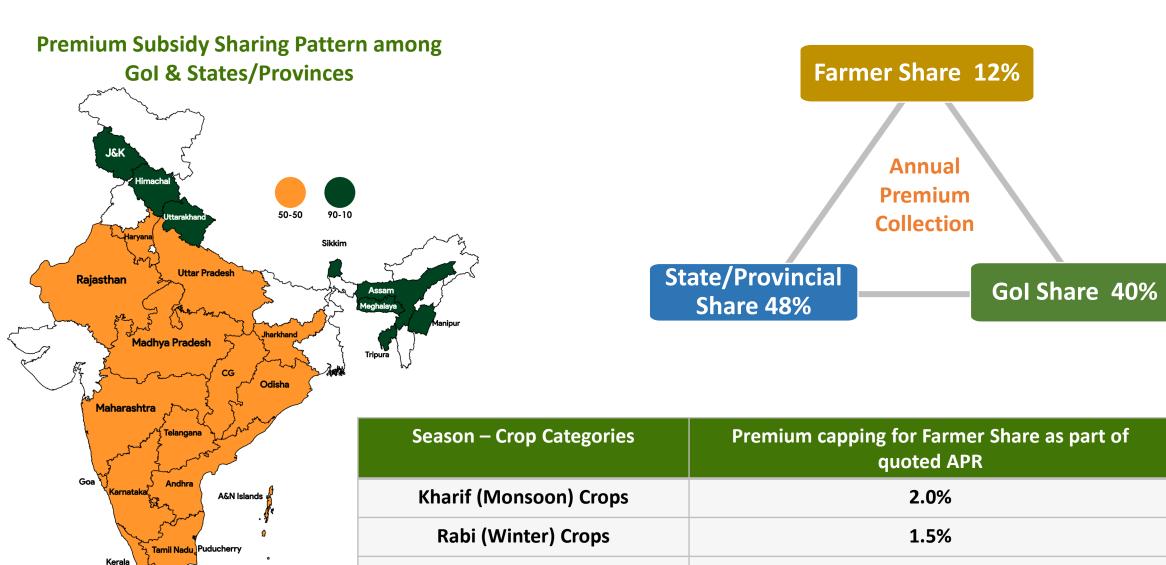
A Comprehensive Insurance Product covering all Stages from Sowing to Harvesting





Premium Rate capping for farmers & Subsidy sharing





Commercial / Horticulture Crops

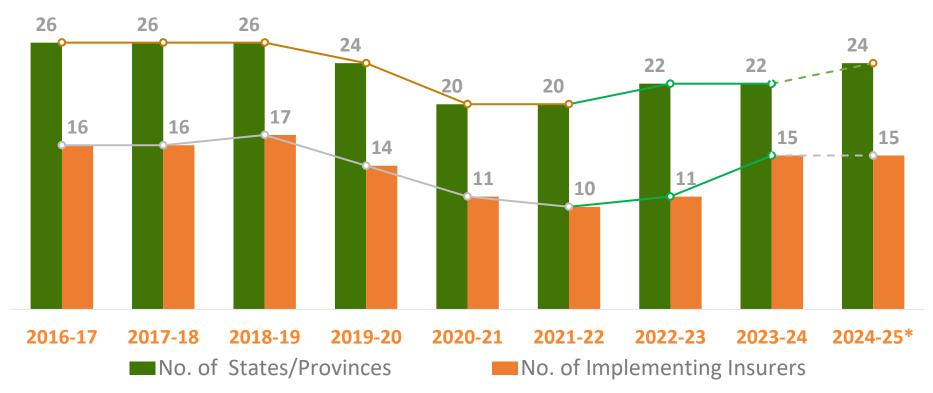
5.0%











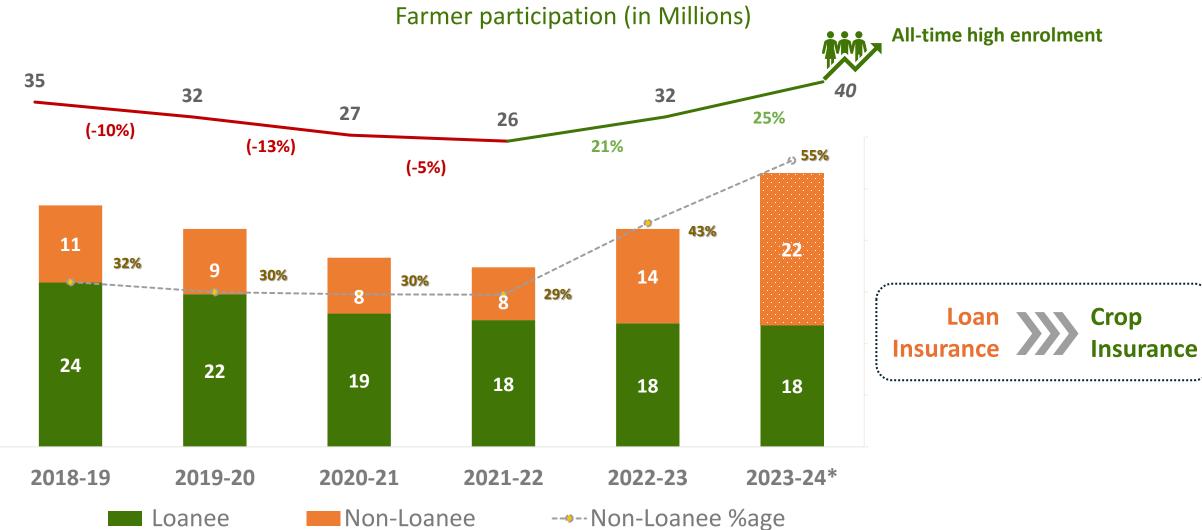
Quick Statistics

- **□** 15 Empanelled Insurance companies implementing PMFBY
- 24 States/Provinces currently implementing the Programme



PMFBY: Enrolment (Year long)



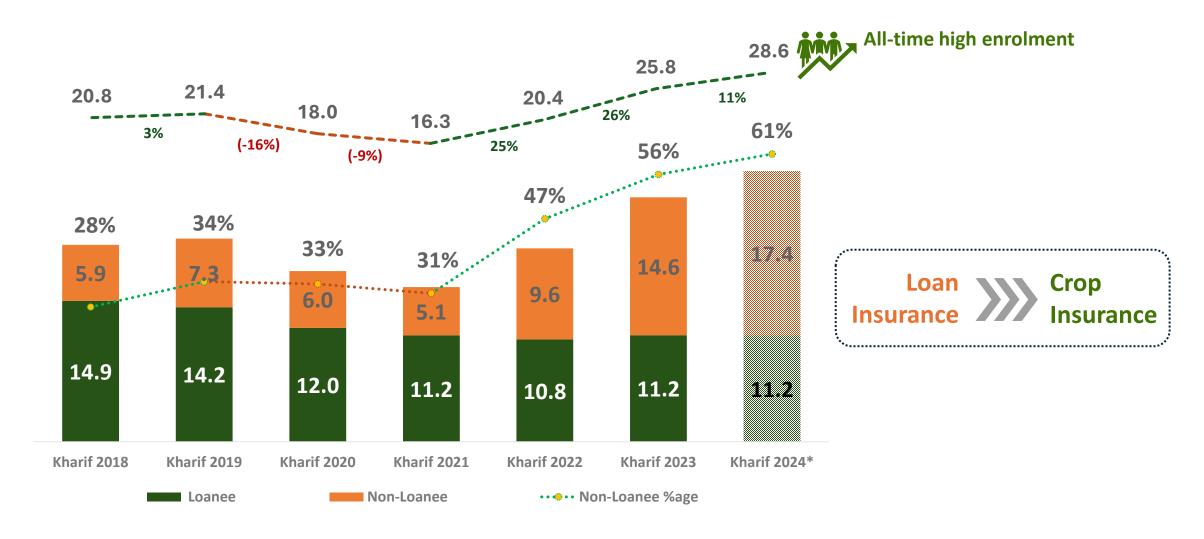




PMFBY: Enrolment trend Kharif



Farmer participation (in Millions)

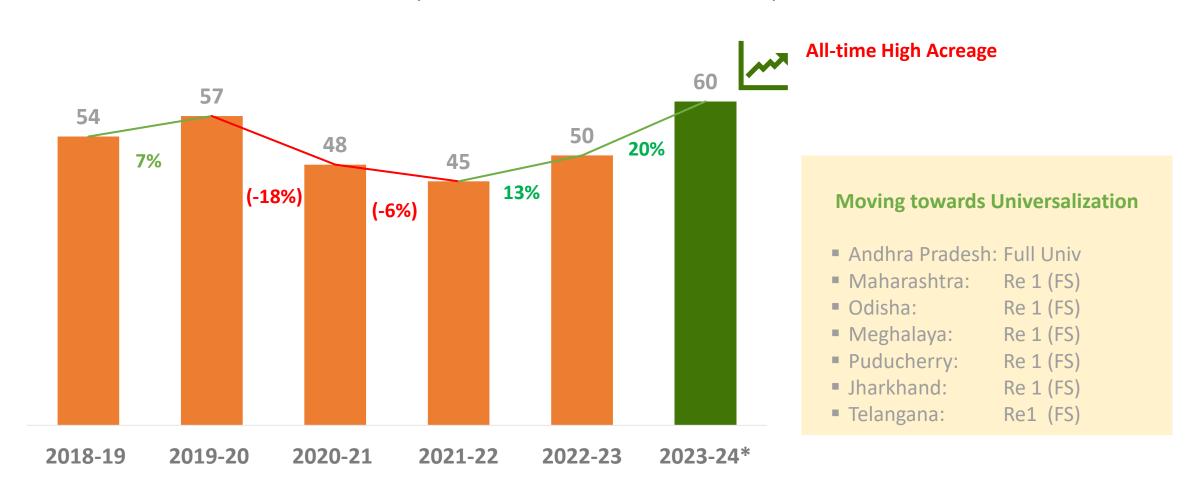




PMFBY: Area Insured for last 5 years



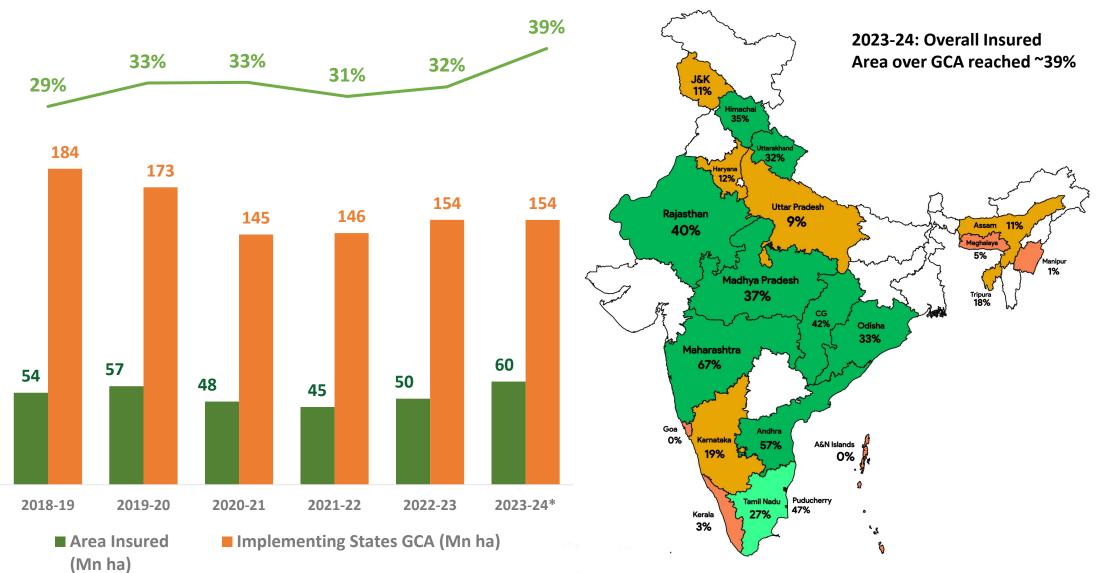
(Insured Area in Million hectares)





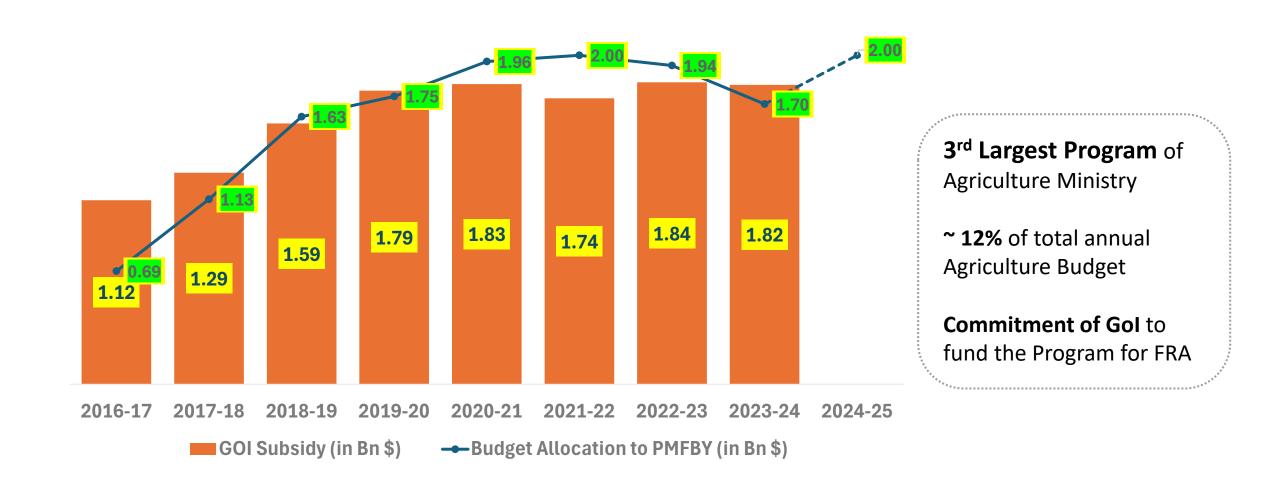
Insured Area Coverage over Gross Cropped Area





Central Govt. Budget Allocation & Utilization

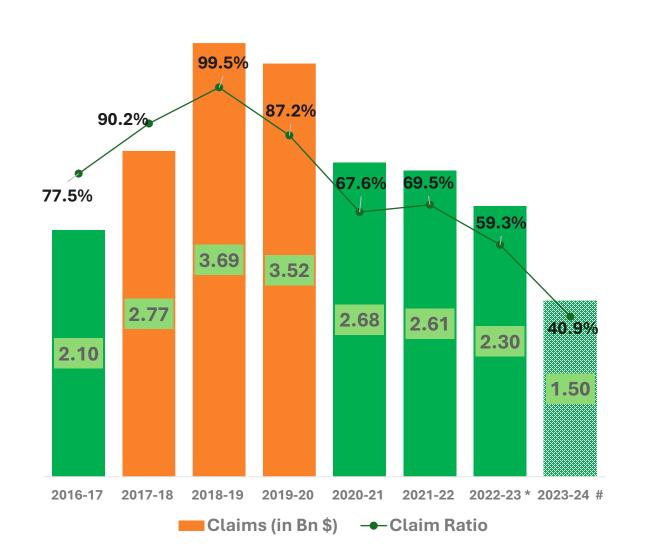
(Central Budget Allocation & Utilization -- PMFBY (in Bn \$)

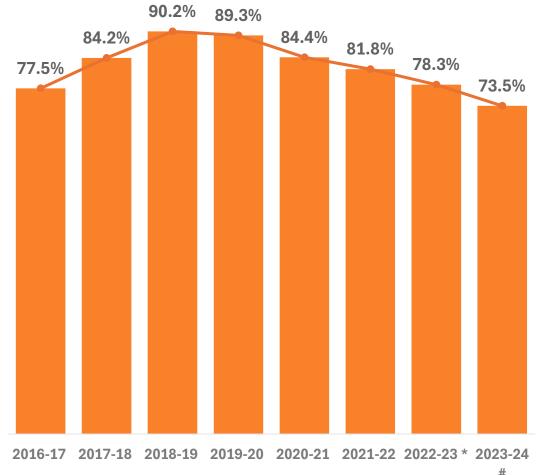


Claim Experience over last 8 years

Year Wise Trend

Cumulative Claim Ratio Trend

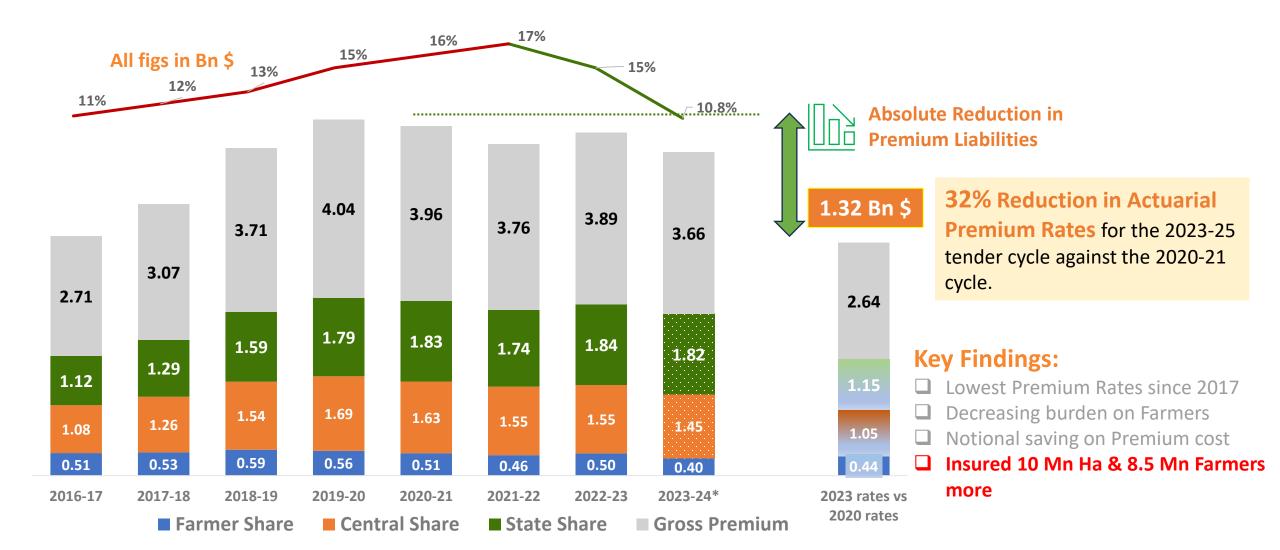






PMFBY: Rationalization of Premium Rates















YES-TECH: Automation of Yield Estimation



Key Partners / Collaborators



Pilot Studies in 100 Districts



Models recommended by Expert Committee





AI/ML Model



Crop Simulation Model



Ensemble Models



Crop Health Index - CHF











Key Parameters & Milestones

- Blended approach: Min. 30% for Tech Yield +70% traditional CCEs
- 3 Major Crops Covered: Paddy, Wheat & Soyabean (Pilots for Cotton)
- >65% insured crops Acreage

Process Outlined

Implementation

by States

Insurers



Claim settlement yield estimation



YES-Tech Framework

State Govts

MNCFC

TIP

Validation & Acceptance



MITR

Report **Sharing**

Applications / End Uses



Yield estimation



Crop Insurance



management

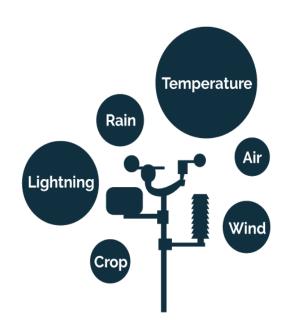








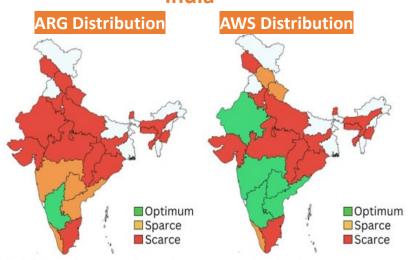






WINDS: One Nation One Weather Data Pipeline

States/UTs wise ARGs and AWS across India

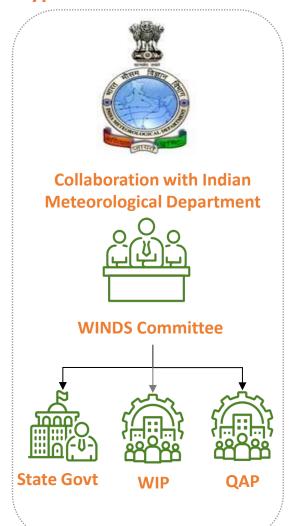


	Existing Network	Requirement
AWS	20,000	3,500
ARGs	13,000	160,000



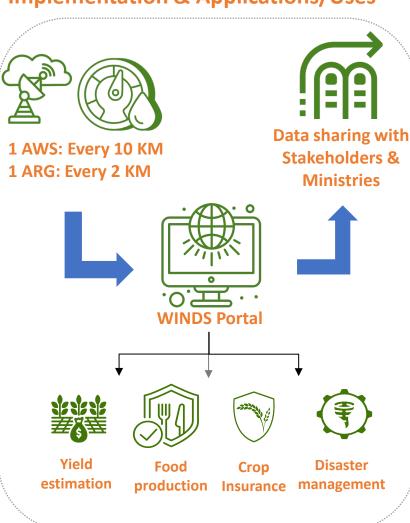
Need for Hyper Local Weather Data for Precision Advisories & Use for Risk Protection & Assessment

Hyper-local Weather Data



Building a **5X** density

Implementation & Applications/Uses

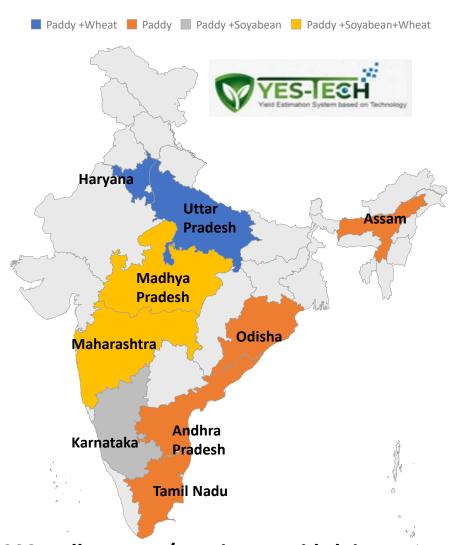


End Uses



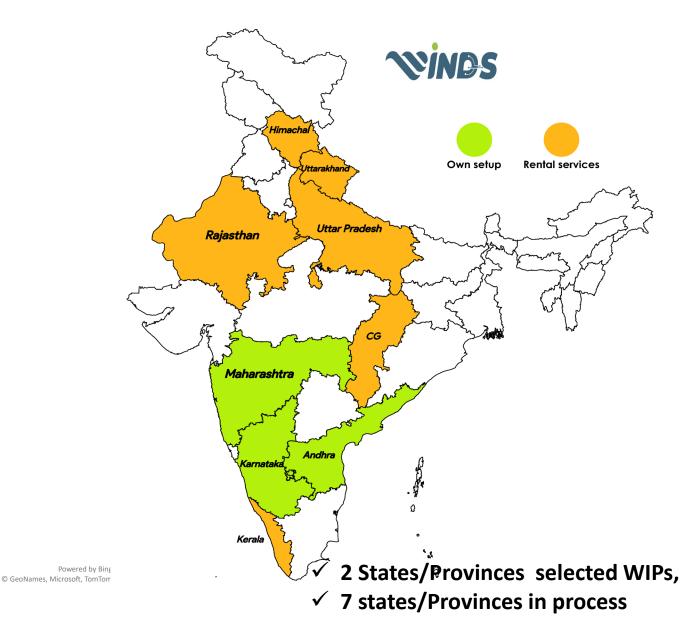
Implementation Status: YES-TECH & WINDS





✓ Kharif 2023—all 7 states/Provinces paid claims

√ Rabi 2023-24--9 states/Provinces implementing,









Collection of Real Time Observations & Photographs of Crops



CROPIC: Photo-Analytics for Crop Loss Assessment



Major Challenges faced In Loss Intimations



Crop & Peril Identification



Capital intensive

Higher number of

Physical Loss Surveys



Moral Hazards, Political sensitization

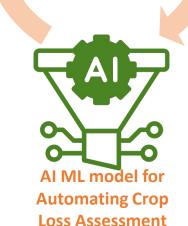
Technology leveraging Photo Analytics & Modelling







Data pooling through crowdsourcing & Repository



Process flow, Data Validation & Applications



Data Flow into National Portal



Insurer to validate and Accept



Risk Identification



Key Actionables

- Nationwide Pilots underway
- Training basis on samples collected
- Crop Sown Acreage & Damage Severity assessment



ARTM



Alternate Risk Transfer Mechanisms



A mix of Risk Transfer & Participation



Complete Risk Participation -> Complete Risk Transfer -> Partial Risk Participation

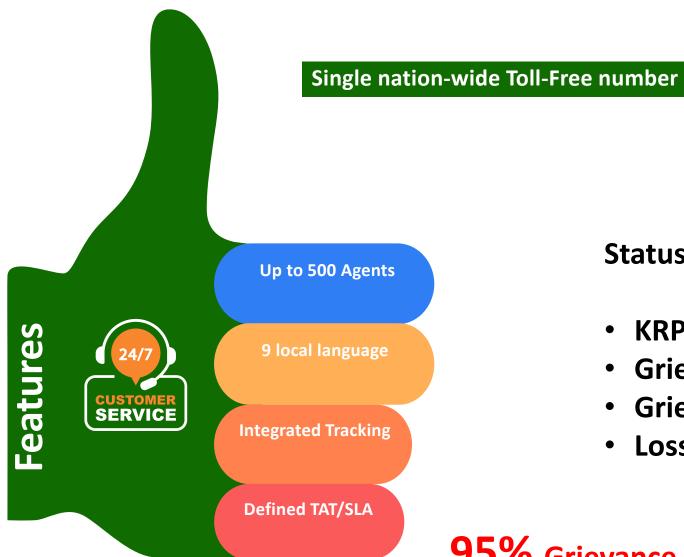
Innovation for: Financial & Perception Management





Krishi Rakshak Helpdesk & Portal





TOLL-FREE

14447

Status of KRPH Operations:

Values In '000

• KRPH Calls Answered: 50,00

• Grievance Received: 450

Grievances Resolved: 405

Loss Intimation Received: 435

95% Grievance Resolution Achieved



Learning Management System



For Insurance and Credit Schemes

40+
COURSES OFFERED

85,000+ REGISTERED USERS

16,564+
CERTIFICATIONS
ISSUED

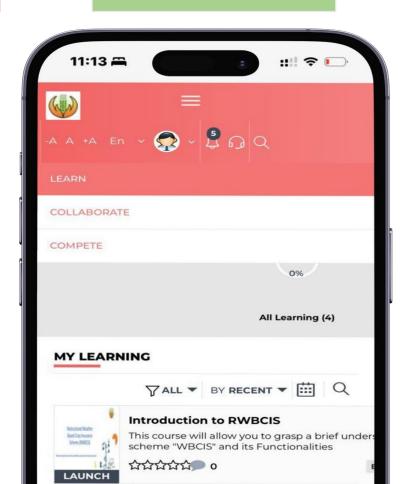
RESOURCE LIBRARY

DISCUSSION FORUMS

ASSESSMENT & CERTIFICATION

USER PROFILING & TRACKING

INTERACTIVE COURSE MODULES



LIVE WEBINARS & EXPERT SESSIONS

MOBILE APP ACCESSIBILITY

PROGRESS TRACKING

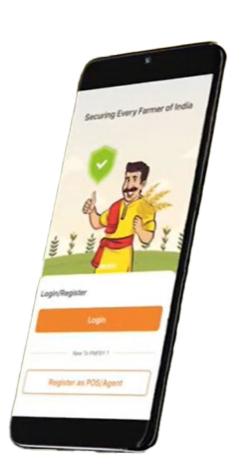
INTEGRATION WITH GOVT PORTALS

FEEDBACK MECHANISM



Smartphone App for Subscription-AIDE







Launched in **Summer 2023**



1.4+ Million applications enrolled



0.8+ Mn Ha **Area insured**



600,000 Partners



12 Insurers



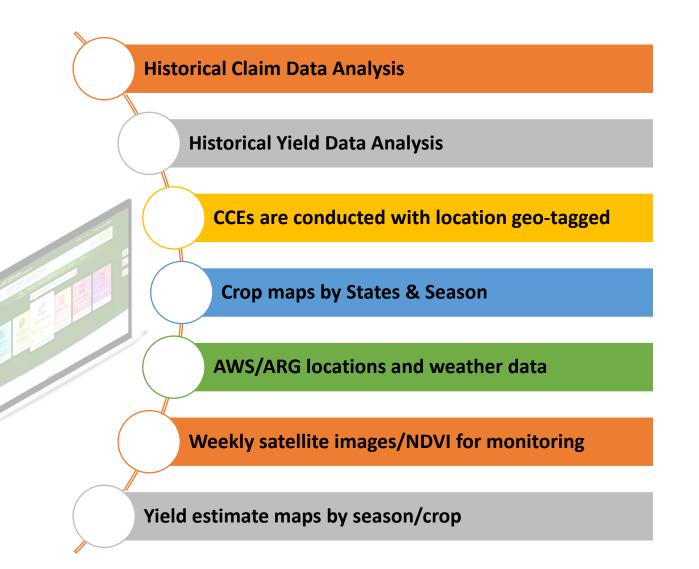
12 States/Provinces

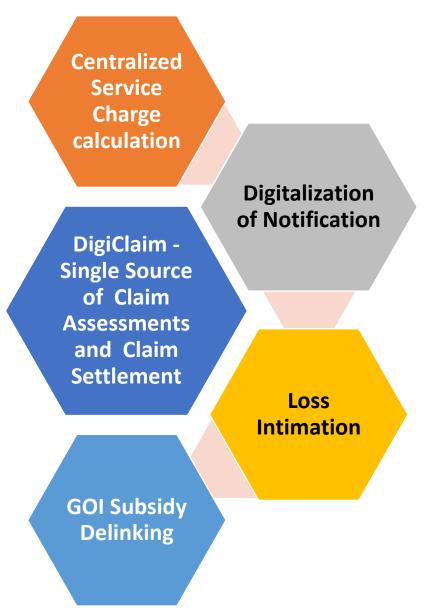




NCIP Portal- A Single Source of Truth



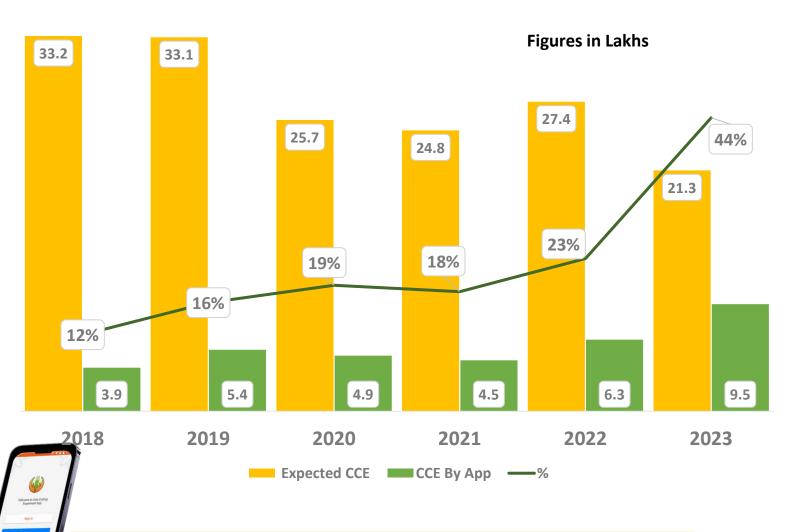






CCE Agri App--Objective Assessment of Crop Yield





State/Province Wise Implementation of CCE Mobile App

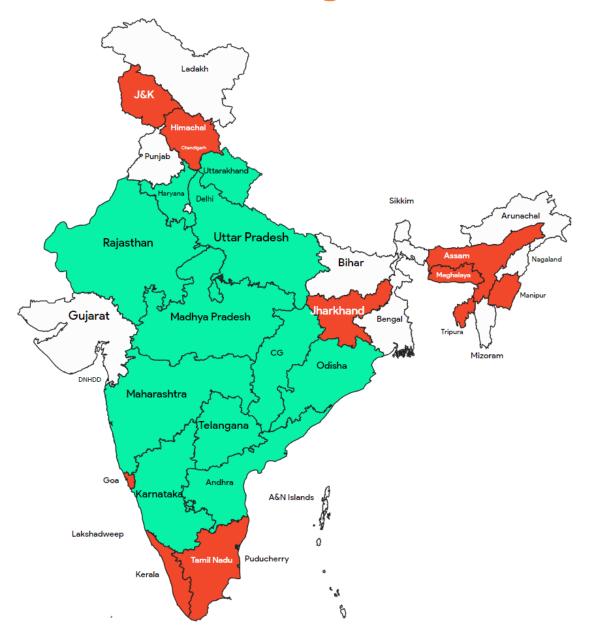


During 2023 -24 - 44% of the total CCE conducted are through CCE AGRI App across 22 States/Provinces



Digitized Land Record Validation





>95% of Insured Areas being pre-validated through digital e-land records (10 major implementing States/Provinces)



Vision 2025 – A Universal & Comprehensive Risk Protection



