



Skymet - Beyond Weather



ABOUT THE COMPANY

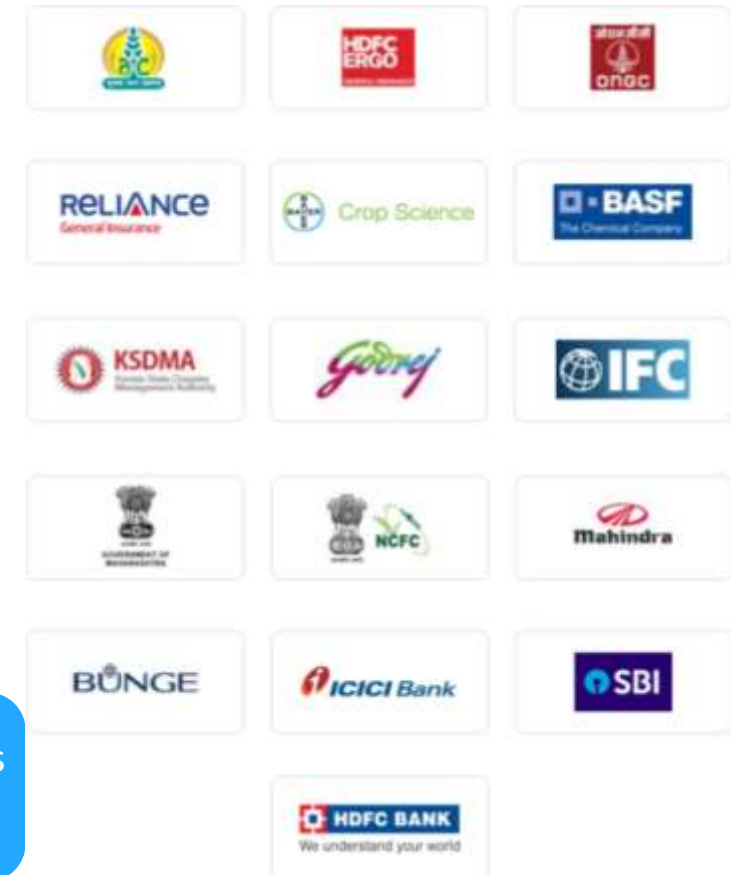


- Only Indian company with **entire agriculture technology stack** ground truthing (field data capture), weather monitoring/forecasting, remote sensing (satellite & AWS), crop monitoring/modeling/advisory
- Number of farmers Crop Insurance Claims Settled: **23 million+ (~3 billion USD)**
- Number of Farmers Crop Loan Processed: **500 K+ (~1 billion USD)**
- Number of Farmers & Farms information digitized & geotagged: **20 million+**
- Land area monitored annually: **73 million Ha**
- **2 million+** active web and app users
- Existing Investors: Omnivore (2011 & 2014) | DMGT (2014) |

InsuResilience Fund (2017)

With an ESG Mission

Environmental	Significantly improves Climate Science and weather forecasting
Social	Protect farmers and save lives
Governance	Shields countries, business and farmers from the impact of Climate Change



Skymet is an agro-weather company that utilizes big data to predict and harness the caprices of the weather in the most beneficial way

SKYMET SNAPSHOT



Employees: 200 Permanent, 1000+ Seasonal

Core Capabilities:

- Weather Monitoring, Forecasting & Modeling
- Crop Monitoring & Modeling
- Agriculture Risk Management (Insurance & Credit)

IOT Network Pan India:

- 5,500+ Automatic Weather Stations (AWS)
- 300+ AQI Sensors
- 23 Lightning Detection Network







Existing Investors



DMGT





Data Capture Infrastructure	Data Analysis	Use Cases	Products
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="text-align: center;">  <p>Satellites</p> </div> <div style="text-align: center;">  <p>Drones</p> </div> </div> <div style="text-align: center; margin: 10px 0;">  <p>Government Data</p> </div> <div style="text-align: center; margin: 10px 0;"> <div style="background-color: black; color: white; padding: 2px 5px; border-radius: 5px;">Alternate sensing</div> </div> <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="text-align: center;">  <p>AWS, Lightning Sensors</p> </div> <div style="text-align: center;">  <p>Manual Data Capture</p> </div> </div> </div>	<p style="text-align: center;">Advanced forecasting algorithms for enhancing weather forecast</p> <div style="text-align: center; margin: 20px 0;">  </div> <p style="text-align: center;">Advanced AI & ML algorithms crunching all the available data to come up with valuable use cases for B2C & B2B solutions</p>	<p>Weather Monitoring & Forecasting</p> <p>Lightning Detection</p> <p>Crop Identification</p> <p>Crop Advisory</p> <p>Yield Estimation</p> <p>Crop Loss Detection</p> <p>Farmer Risk Profile & Distress Data</p>	<p style="text-align: center;">SWIMS</p> <p style="text-align: center;">End-to-end weather solution including historical weather data, current weather monitoring and weather forecasting for India</p> <p style="text-align: center; margin-top: 20px;">ARMS</p> <p style="text-align: center;">Comprehensive risk management tool for insurance companies, banks and agri businesses</p> <p style="text-align: center; margin-top: 20px;">Skymet</p> <p style="text-align: center;">Web & mobile based interface for rural & urban consumers; includes customized crop advisory for farmers</p>

How Skymet Solutions Can Help



Seasonal Planning



Supply Chain Optimization



Develop Farm Advisory



Weather API



Digital Land & Crop Verification



Remote Sensing solutions



Digital Land & Crop Verification



Crop & Land Verification



- Digital & online solution
- Ability to locate farmer's fields based on survey numbers
- Field's ownership details
- Farmer's latest borrowing status
- Farms' irrigation status
- Tentative Yield
- Visualize field with google image as background
- Crop sown in current season & previous season
- Neighborhood plot ownership details with graphic presentation
- Printable reports in single page

Digital Farm Report			
Farmer Details:			
Loan Ref. No.:	39891719714	Name :	babulal
Mobile :	0000000000	Report Queried On :	24-Mar-2021 16:14:00
Khasra Location:			
Village :	Tigharee	Tehsil :	Devendranagar
District :	Panna	State :	Madhya Pradesh
Ownership and Liabilities (as on: 24-Mar-2021 16:14:00)			
Khasra Number:	35		
Details	खसरा नंबर : 35 बाबूलाल पि.विशेश्वर धोबी पता सा.देह भूमि स्वामी क्षेत्रफल :0.0810 हैक्टेयर कैफियत : *भारतीय स्टेट बैंक शाखा देवेन्द्रनगर में दिनांक 16/06/2012से बंधक		
Crop Assessment:			
Rabi 2019-2020		Kharif 2020	
Crop Name	Wheat	Crop Name	Soybean
Tentative Sowing	4th week, Oct 2019	Tentative Sowing	2nd week, Jun 2020
Tentative Harvesting	2nd week, Mar 2020	Tentative Harvesting	4th week, Sep 2020
Crop Health	Good	Crop Health	Above average
Estimated Yield	2200 Kg/Ha	Estimated Yield	276 Kg/Ha

Crop Coverage & Yield Estimation



- Take inventory of crops on regional scale directly before harvesting
- Bottom to Top approach
- Estimate risk due to inclement weather conditions

Crops Covered :

Bajra	Grapes	Moong	Potato
Banana	Groundnut	Moth	Sugarcane
Cotton	Jowar	Mustard	Sesamum
Cumin Seed	Jute	Other Oil Seed	Soyabean
Ginger	Maize	Paddy	Tur
Gram	Masoor	Pomegranate	Urad
Wheat	Castor Seed	Chilli	





Nat-Cat Risk Scoring (Village/Pincode)





Land Use

The land use has three types of different variables in it.

1. Net sown area
2. Area under irrigation
3. Irrigation status

Yield

Yield variability

Weather

1. The average seasonal rainfall
2. Variability of seasonal rainfall
3. Drought and flood
4. Extreme events

NAT CAT

We consider

- i) **Earthquake:** The risk zones for earthquake are defined in 5 categories. These categories are defined in their MMI scale. Higher the zone riskier it is.
- ii) **Riverine Flooding:** These are also categorized in 5 zones by considering rainfall, proximity to waterbody, and inundation
- iii) **Cyclone proneness:** These are categorized in 5 categories
- iv) **Landslide risk zones:** These are also categorized to 5 categories
- v) **Wind Hazard risk zones:** This is also defined in five zones, based on threshold values and return period.

Risk Scoring



	Least Risk	Minor Risk	Moderate Risk	High Risk	Severe Risk
Parameters	1	2	3	4	5
Flood	Proximity to Water body	Historical Inundation	Historical Inundation	Flood Vulnerability Atlas Rating	Proximity to Water body, Historical Inundation
Drought	Proximity to Water Body	Rainfall Departure	Irrigation Potential	Irrigation Potential, Proximity to Water Body	Rainfall Departure, Irrigation Potential
Cyclone	No/Low Wind Speed	Distance is Far From Coast	Distance is Far from Coast but High Wind Speed	Close to Coast, High Wind Speed	No. of cyclone hit, High Wind Speed
Other Parameters

Glimpse of the data



	State Code	District Code	Sub District Code	Village Code	State Name	District Name	Sub District Name	Village Name	CD Block Name	Total Geographical Area (in Hectares)	Forest Area (in Hectares)	Area under Non-Agricultural Uses (in Hectares)	Barren & Uncultivable Land Area (in Hectares)	Permanent Pastures and Other Grazing Land Area (in Hectares)	Land Under Miscellaneous Tree Crops etc. Area (in Hectares)	Culturable Waste Land Area (in Hectares)	Fallow Land other than Current Fallow Area (in Hectares)	Current Fallow Area (in Hectares)	Net Area Sown (in Hectares)	Total Cultivable Area	Total Unirrigated Land Area (in Hectares)	Area Irrigated by Source (in Hectares)	Canals Area (in Hectares)	Wells/Tube Wells Area (in Hectares)	Tanks/Lakes Area (in Hectares)	Waterfall Area (in Hectares)	Other Source (specify) Area (in Hectares)	
1																												
2682	27	499	3971	527705	Maharas	Jalgaon	Bhadgad	Bodarde	Bhadgad	227	0	6	32	5	0	5	4	3	172	184	85	87	0	87	0	0	0	0
2683	27	499	3971	527706	Maharas	Jalgaon	Bhadgad	Nimbhore	Bhadgad	1264.6	0.73	736.18	0	0	0	45.72	36.9	0	445.04	527.66	295.04	150	0	150	0	0	0	0
2684	27	499	3971	527707	Maharas	Jalgaon	Bhadgad	Kothali	Bhadgad	644.87	0	22.82	0	0	0	27.34	0	41.15	553.56	622.05	448.56	105	0	105	0	0	0	0
2685	27	499	3971	527708	Maharas	Jalgaon	Bhadgad	Balad Kh	Bhadgad	706.42	0	76.02	0	0	0	0	0	0	630.4	630.4	545.4	85	0	85	0	0	0	0
2686	27	499	3971	527709	Maharas	Jalgaon	Bhadgad	Wadgaon	Bhadgad	727	0	102.87	0	0	0	0	0	0	624.13	624.13	586.28	37.85	37.85	0	0	0	0	0
2687	27	499	3971	527710	Maharas	Jalgaon	Bhadgad	Devhari	Bhadgad	572.84	0	4.85	0	29.5	0	0	110.11	93.93	334.45	538.49	274.45	60	0	60	0	0	0	0
2688	27	499	3971	527711	Maharas	Jalgaon	Bhadgad	Kanashi	Bhadgad	527	0	5	17	13	1	5	16	10	460	492	200	260	160	100	0	0	0	0
2689	27	499	3971	527712	Maharas	Jalgaon	Bhadgad	Lon Pr. B	Bhadgad	479	0	7	37	32	0	7	8	8	380	403	184	196	129	67	0	0	0	0
2690	27	499	3971	527713	Maharas	Jalgaon	Bhadgad	Gondgad	Bhadgad	986.35	0	195	0	0	0	20	0	0	771.35	791.35	711.35	60	0	60	0	0	0	0
2691	27	499	3971	527714	Maharas	Jalgaon	Bhadgad	Bambrud	Bhadgad	805.15	0	0	43.4	193.8	0	0	0	0	567.95	567.95	249.95	318	0	318	0	0	0	0
2692	27	499	3971	527715	Maharas	Jalgaon	Bhadgad	Malgaon	Bhadgad	768	0	3	36	105	5	20	40	29	530	624	463	67	0	67	0	0	0	0
2693	27	499	3971	527716	Maharas	Jalgaon	Bhadgad	Tandaw	Bhadgad	341.71	0	105.71	9	8	0	5	10	6	198	219	138	60	0	60	0	0	0	0
2694	27	499	3971	527717	Maharas	Jalgaon	Bhadgad	Umarkhe	Bhadgad	341	0	1	24	0	0	3	9	8	296	316	209	87	0	87	0	0	0	0
2695	27	499	3971	527718	Maharas	Jalgaon	Bhadgad	Bhortek B	Bhadgad	718	0	4	67	85	4	10	25	20	503	562	396	107	107	0	0	0	0	0
2696	27	499	3971	527719	Maharas	Jalgaon	Bhadgad	Kajgaon	Bhadgad	1194.3	130.44	31.22	45.06	5.9	0	46.82	0	0	934.89	981.71	720.89	214	0	214	0	0	0	0
2697	27	499	3971	527720	Maharas	Jalgaon	Bhadgad	Pasardi	Bhadgad	528.39	0	2.25	0	44.34	0	24.1	0	28.68	429.02	481.8	358.02	71	0	71	0	0	0	0
2698	27	499	3972	527721	Maharas	Jalgaon	Chalisga	Ramnag	Chalisga	196.73	2	2	34.22	0	0	0	0	0	158.51	158.51	130	28.51	0	28.51	0	0	0	0
2699	27	499	3972	527722	Maharas	Jalgaon	Chalisga	Visapur	Chalisga	59.56	0	2.56	3	0	0	2	0	2	50	54	30	20	0	20	0	0	0	0
2700	27	499	3972	527723	Maharas	Jalgaon	Chalisga	Daregaon	Chalisga	575	150	26.59	0	50	0	20	0	0	328.41	348.41	313.01	15.4	0	15.4	0	0	0	0
2701	27	499	3972	527724	Maharas	Jalgaon	Chalisga	Londhe	Chalisga	1100.3	7	2	40	2.5	0	4.08	0	0	1044.7	1048.8	1000	44.69	0	44.69	0	0	0	0

Flavour of product



Village Code (LGD)	State Name	District Name	Sub District Name	Village Name	Net Sown/Total Geog (%)	Irrigated Area/Net Sown Area (%)	Irrigation Status	Area Weighted average of CV	Seasonal Rainfall Variability (%) (2000-2022)	Flood Rating	Drought Index	Avg Rainy Days (past 5 years)	Ratio of 50mm/ Rainydays (avg past 5 years)	Ratio of 100mm/ Rainydays (avg past 5 years)	count of 7 consecutive day dry (avg past 5years)	count of 10 consecutive day dry (avg past 5years)	Rating
279595	ASSAM	Kokrajhar	Gossaigaon (Pt)	Khokhshaguri Block	2	1	5	5	5	5	1	5	2	3	5	5	5
279596	ASSAM	Kokrajhar	Gossaigaon (Pt)	Khukshiguri No.3	1	1	1	5	5	5	1	5	2	3	5	5	3
279597	ASSAM	Kokrajhar	Gossaigaon (Pt)	Khukshiguri No.1	4	1	1	5	5	5	1	5	2	4	5	5	5
279598	ASSAM	Kokrajhar	Gossaigaon (Pt)	Moktaigaon-I	2	1	1	5	5	5	1	5	2	4	5	5	4
279599	ASSAM	Kokrajhar	Gossaigaon (Pt)	SapkataNo.1	4	1	5	5	5	5	1	5	2	5	5	5	5
279600	ASSAM	Kokrajhar	Gossaigaon (Pt)	Matiapara No.1	3	1	1	5	5	5	1	5	2	5	5	5	5
279601	ASSAM	Kokrajhar	Gossaigaon (Pt)	Matiapara No.2	4	1	1	5	5	5	1	5	3	5	5	5	5
279602	ASSAM	Kokrajhar	Gossaigaon (Pt)	Borjabil No.1	4	1	1	5	5	5	1	5	3	5	5	5	5
279603	ASSAM	Kokrajhar	Gossaigaon (Pt)	Shyamdasguri	4	1	1	5	5	5	1	5	3	5	5	5	5
279605	ASSAM	Kokrajhar	Gossaigaon (Pt)	Kanhupara No.1	4	1	1	5	5	5	1	5	3	5	5	5	5
279606	ASSAM	Kokrajhar	Gossaigaon (Pt)	Kanhupara No.2	4	1	1	5	5	5	1	5	3	5	5	5	5
279607	ASSAM	Kokrajhar	Gossaigaon (Pt)	Hatigarh No.1	4	1	1	5	5	5	1	5	3	5	5	5	5
279608	ASSAM	Kokrajhar	Gossaigaon (Pt)	Thaigirguri	3	1	1	5	5	5	1	5	3	5	5	5	5
279609	ASSAM	Kokrajhar	Gossaigaon (Pt)	Panbari No.2	4	1	5	5	5	5	1	5	3	5	5	5	5
279610	ASSAM	Kokrajhar	Gossaigaon (Pt)	Panbari No.3	5	1	5	5	5	5	1	5	3	5	5	5	5



Governments & Developmental Org



State Governments



Gujarat



Karnataka



Kerala



Madhya Pradesh



Rajasthan



Nagaland



Maharashtra

Our Clients



Insurance



Banks



Agri Input



Food Processors & Commodity Trading





Thank you

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