

CLIMATE-SMART SOLUTIONS STUDY

Assessment of climate-smart dashboards to
serve farmer facing organizations

August 2021

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Definition of a climate-smart dashboard

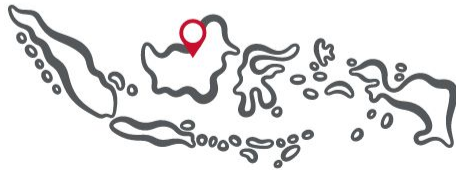
Use cases for farmer facing organizations

Review of existing climate-smart dashboards

View separate Annex for a detailed overview of different dashboards.



- 📍 Nigeria
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ABOUT AGRIFIN

Mercy Corps' AgriFin programming (MCAF) represents USD 35 million in innovation funding from the Mastercard Foundation, Bill and Melinda Gates Foundation and the Swiss Development Corporation to support development, testing and scale of digitally-enabled services for smallholder farmers.

- Our objective is to develop sustainable services that increase farmer income and productivity by 50%, with 50% outreach to women
- MCAF works as an innovation partner with private sector scale partners and such as banks, mobile network operators, agribusinesses, as well as technology innovators and governments committed to serving smallholders at scale
- We help our partners develop, test and scale bundles of digitally-enabled financial and non-financial services supporting partnership development between market actors that leverage their strengths
- We combine MCAF team expertise with strategic subsidy to jointly implement iterative, fail-fast engagements with partners on a cost-share basis, sharing public learnings to drive market ecosystem growth
- Since 2015, we have completed more than 200 engagements with over 120 partners across Africa
- With the onset of the Desert Locust in East Africa, the Skoll Foundation funded AgriFin's first emergency response work leveraging digital tools

Background to the climate-smart solutions study



Context

- **Climate-smart solutions** have emerged as an important way to **reduce risks for smallholder farmer financing and production**
- Smallholder farmers that have adopted weather advisory services have reported increases in productivity, but **more is needed in areas of soil management, crop selection, pest and disease management and other services**
- A growing number of **farmer facing organizations are therefore expressing an interest in engaging climate-smart dashboard solutions** that work across these climate-associated risks



Objectives & Approach

- This study is intended for stakeholders seeking to support the adoption of climate-smart agriculture practices amongst smallholder farmers and seeks to achieve three main objectives:
 1. **Understand the needs and potential use cases of farmer facing organizations** for climate-smart dashboards
 2. **Assess existing platforms** currently available to farmer facing organizations
 3. **Develop strategic recommendations** on a future pathway for a climate-smart solutions dashboard



Research Overview

- Over three weeks Dalberg used a combination of research methods to conduct a rapid assessment of the ecosystem for climate-smart dashboards, including:
 - Conducting 12 virtual interviews with providers of dashboards and potential dashboard users (i.e. farmer facing organizations)
 - Conducting desk-based research
 - Consulting Mercy Corps AgriFin, KALRO and Dalberg subject experts

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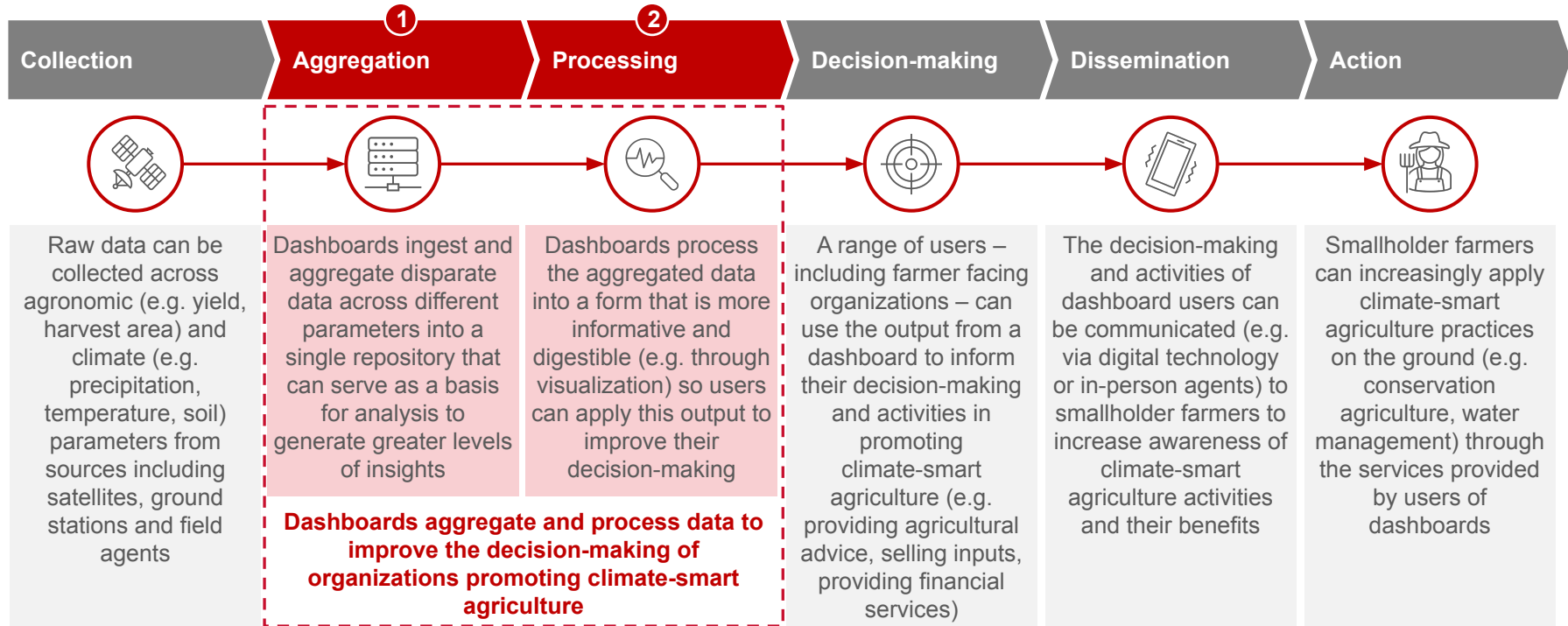
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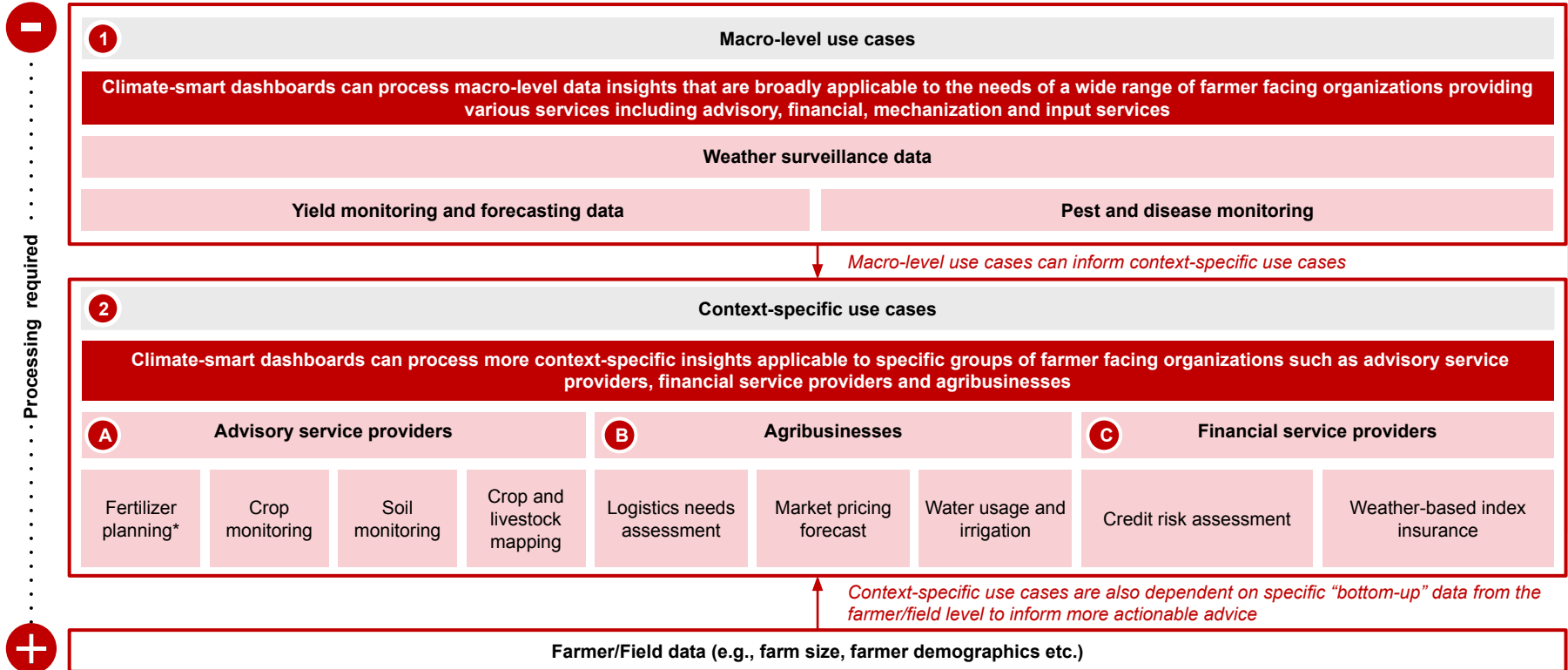
Executive summary

A climate-smart dashboard aggregates and processes agroclimatic data to inform the adoption of climate-smart agriculture practices



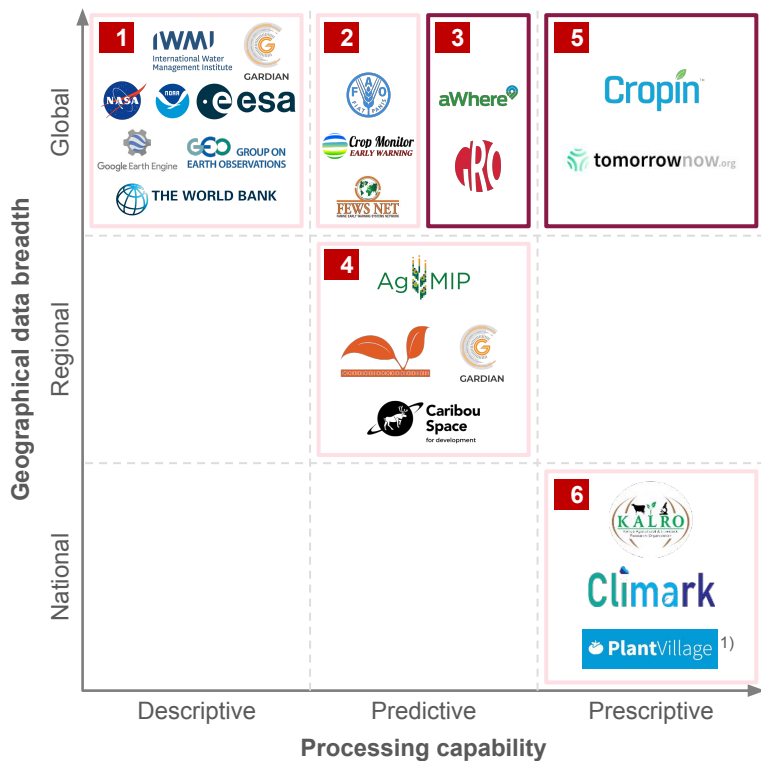
Executive summary

Climate-smart dashboards can inform two levels of use cases that are either broadly applicable or specific to farmer facing organizations



Executive summary

Climate-smart dashboards can be broadly grouped in six archetypes according to their processing capability and geographical coverage



 Available free of charge

 Operate charged business models

1) PlantVillage solution can also input into other climate-smart dashboard archetypes (e.g. FAO Global Locust Monitoring and Early Warning System)

1 Macro data portals

- Aggregate and visualize a broad range of descriptive data (e.g. weather patterns) to inform macro-level decision-making (e.g. for policy makers)
- Free of charge but relatively complex to use for non-scientists

2 Monitoring and warning systems

- Process data for forecast applications at a macro level (e.g. drought/famine warning) that can often inform a broad range of users
- Free of charge but relatively complex to use for non-scientists

3 Macro analytics platforms

- Apply advanced analytics to offer a broad range of applications (e.g. yield forecast models, weather indices)
- Operate behind a paywall due to more advanced analytics

4 Regional analytics platforms

- Process data (e.g. yield forecasts) with a narrower geographical coverage and range of use cases than macro-level platforms
- Free of charge and relatively interactive/user-friendly

5 Intelligence solutions

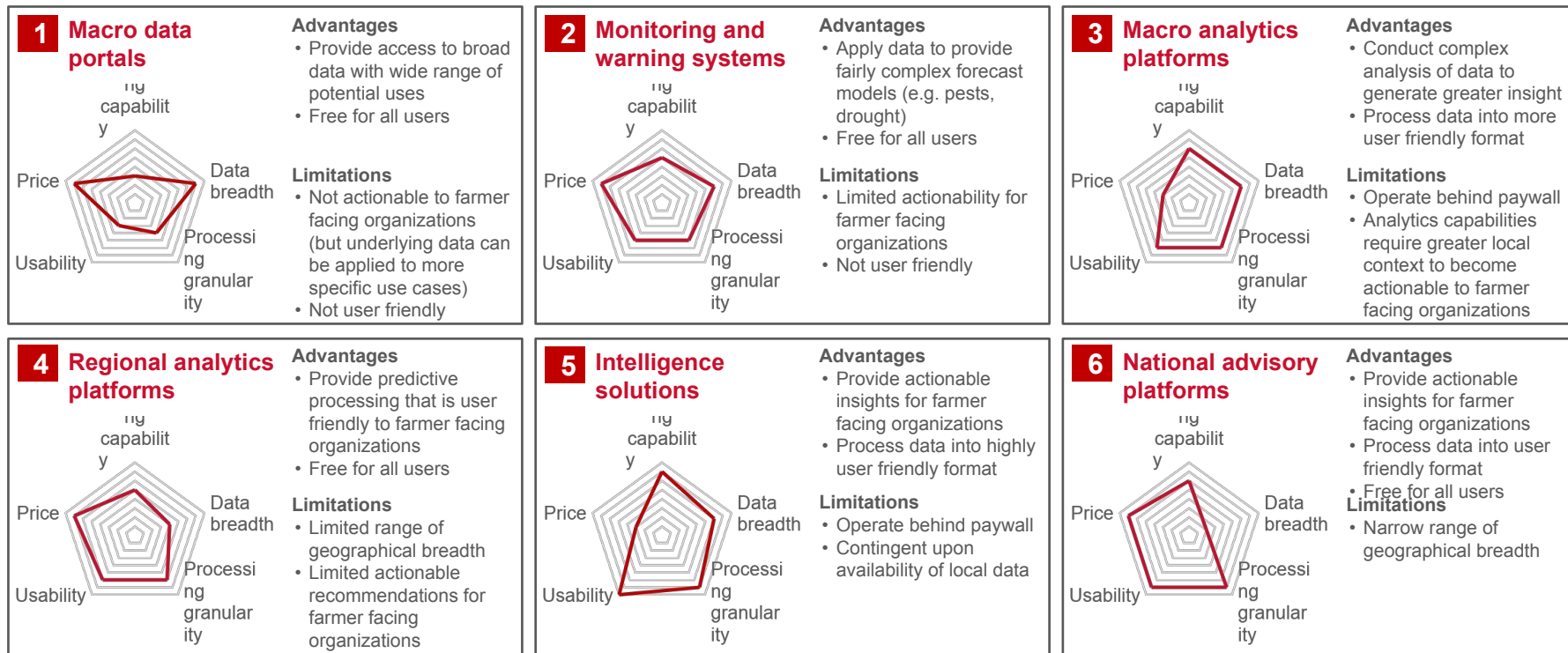
- Apply advanced analytics to provide more actionable advice to end users (e.g. when to plant crops)
- Operate behind a paywall due to more advanced analytics

6 National advisory platforms

- Apply processing to a local context to provide more actionable advice (e.g. crop selection) albeit with a narrower geographical range
- Free of charge and relatively interactive/user-friendly

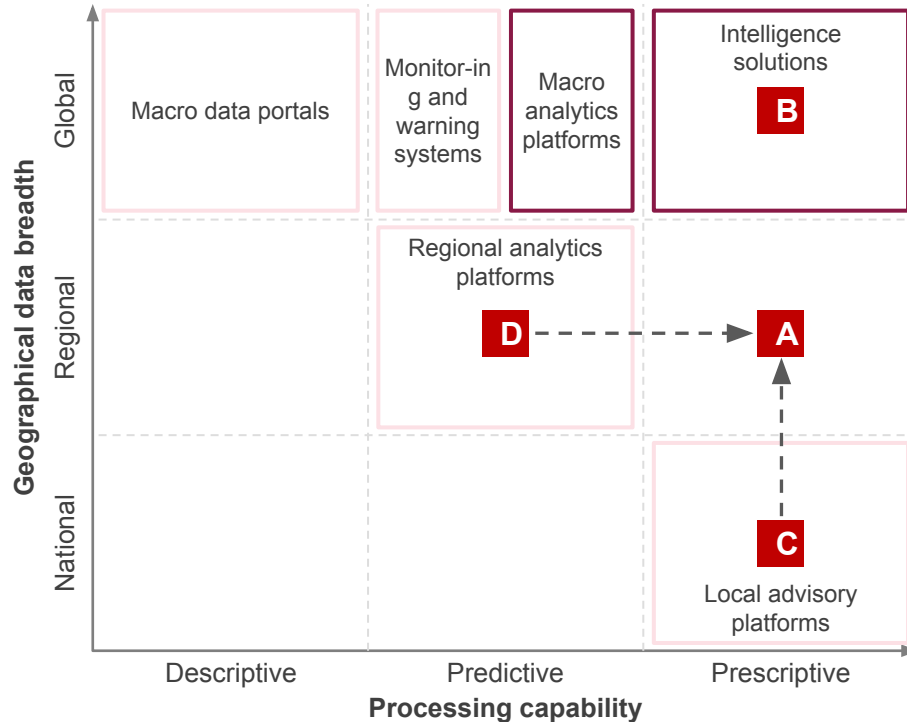
Executive summary

The six dashboard archetypes offer different advantages, but all have their limitations in serving farmer facing organizations



Executive summary

There are four potential interventions to increase the actionability of dashboards in meeting farmer facing organizations' needs



- A Build new dashboard**
Build a new climate-smart dashboard from scratch that is more tailored to the needs of farmer facing organizations
- B Increase accessibility of intelligence solutions**
Improve the economics and business case for farmer facing organizations to adopt existing intelligence solutions, and facilitate local data sharing with partners
- C Increase scope of local advisory platforms**
Broaden the geographical scope of local advisory platforms so they have wider applicability to farmer facing organizations
- D Increase actionability of regional platforms**
Improve the processing capability of regional analytics platforms so they can provide more actionable insights for farmer facing organizations

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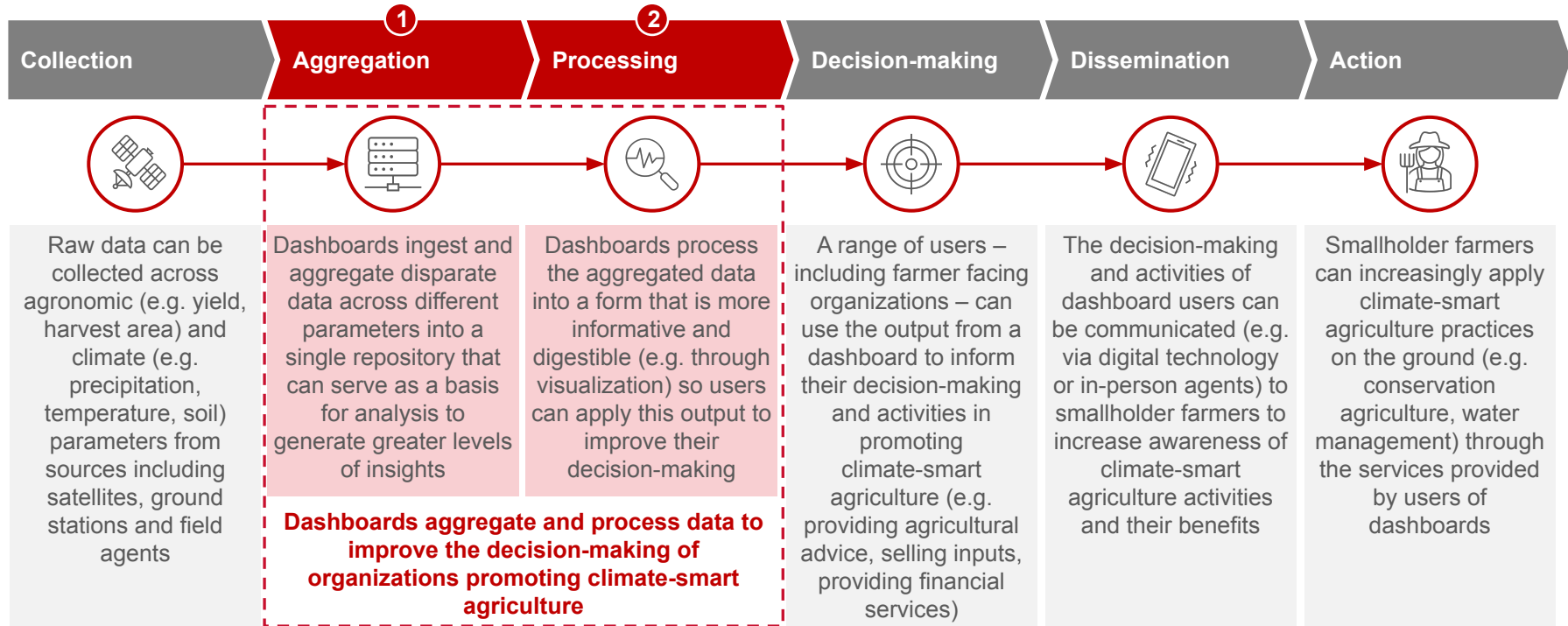
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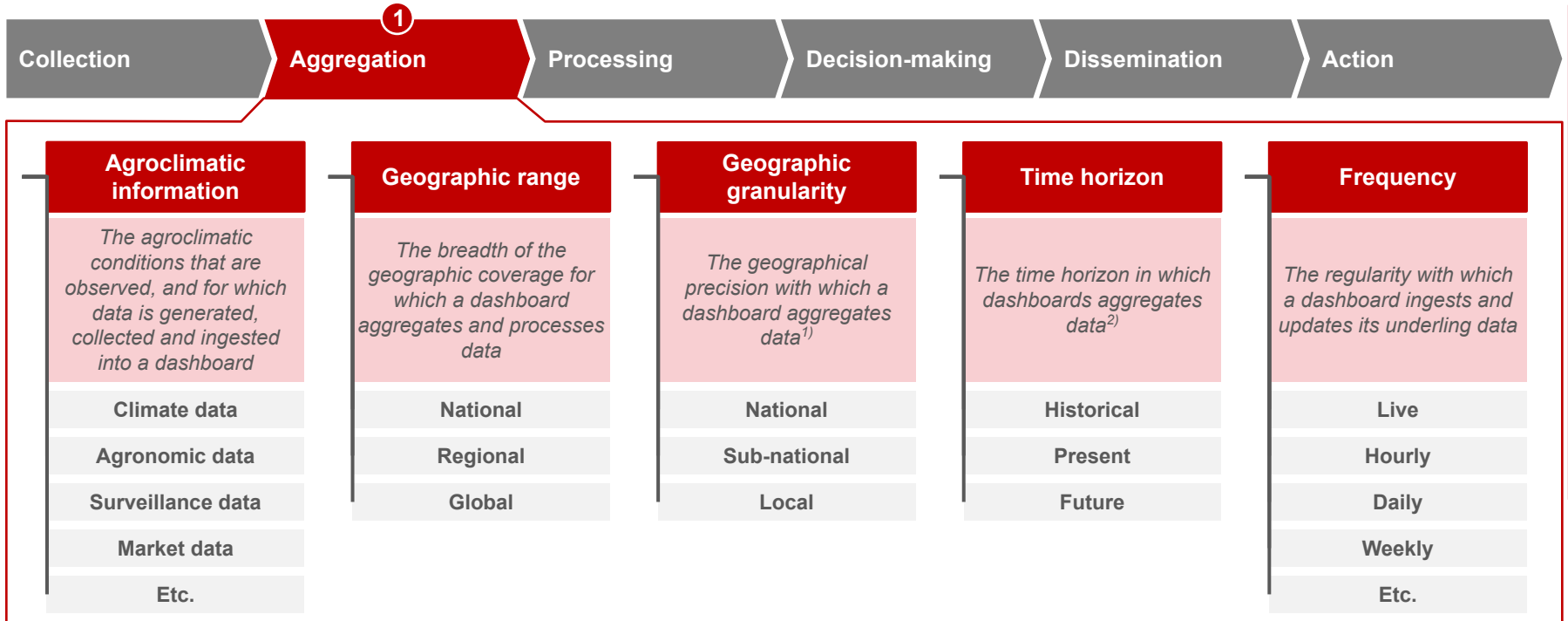
Definition of a climate-smart dashboard

A climate-smart dashboard aggregates and processes agroclimatic data to inform the adoption of climate-smart agriculture practices



1 Definition of a climate-smart dashboard

Dashboards can ingest and aggregate data across a wide range of parameters that affect their complexity



1) The precision with which a dashboard aggregates and processes data are not necessarily the same – e.g. some dashboards aggregate localized data but do not hold the processing capability to inform decision-making at a local level (e.g. macro data portals, monitoring and warning systems); 2) The time horizon in which a dashboard aggregates and processes data is not necessarily the same – e.g. a dashboard can aggregate forecast data from separate sources and simply describe this forecast data without adding its own predictive processing

2 Definition of a climate-smart dashboard

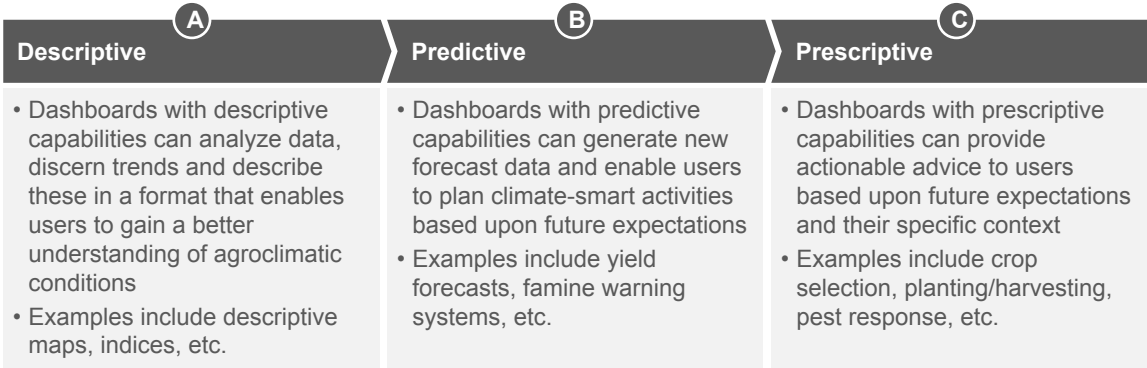
Dashboards can process data to generate insights with varying levels of actionability and present these insights in a user-friendly format



Dashboards can analyze the data they aggregate and generate new insights that can be broadly categorized as descriptive, predictive or prescriptive...

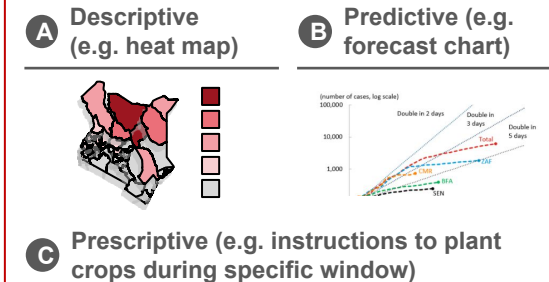
...and present this greater level of insight in an interactive and usable format

Back end



..... Technical complexity

Front end (illustrative)



	24	25	26	27	28
Maiz					
Sorghu					

Definition of a climate-smart dashboard

The greater a dashboard's aggregation and processing capability, the more complex – and potentially expensive – it is to build and operate

Illustrative

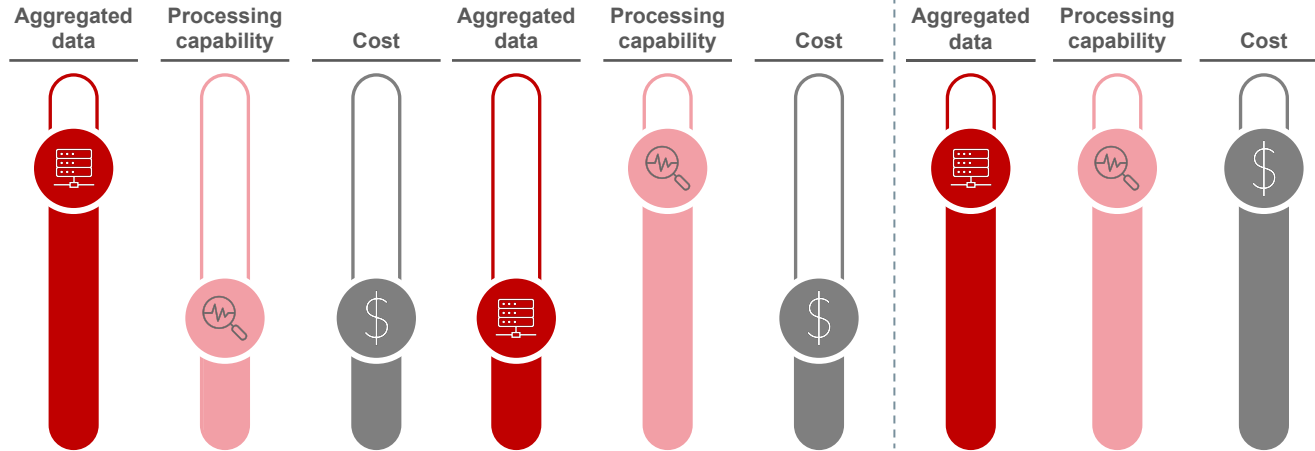
There is a potential trade-off between the breadth of data a dashboard aggregates and its processing capability...

The greater the breadth of data aggregated by a dashboard, the more difficult it is to apply advanced processing capability:

Vice versa, the greater the processing capability the more difficult it is to apply this to a greater breadth of aggregated data:

...and between its technical complexity and cost

- A dashboard that applies complex processing to a broad range of data is not technically impossible, but it requires greater resource to build and operate, which can translate into greater cost for potential users
- This can mean the most advanced dashboards are prohibitively expensive for more price-sensitive end users (e.g. farmer facing organizations)



Farmer facing organizations consistently express a willingness to pay for dashboards that meet their needs for which they can prove a viable business case for paying the cost of such dashboards:

"The key is getting the economics right – if the dashboard is at a price for which we can prove the added value, we'd be interested"

Farmer facing organization

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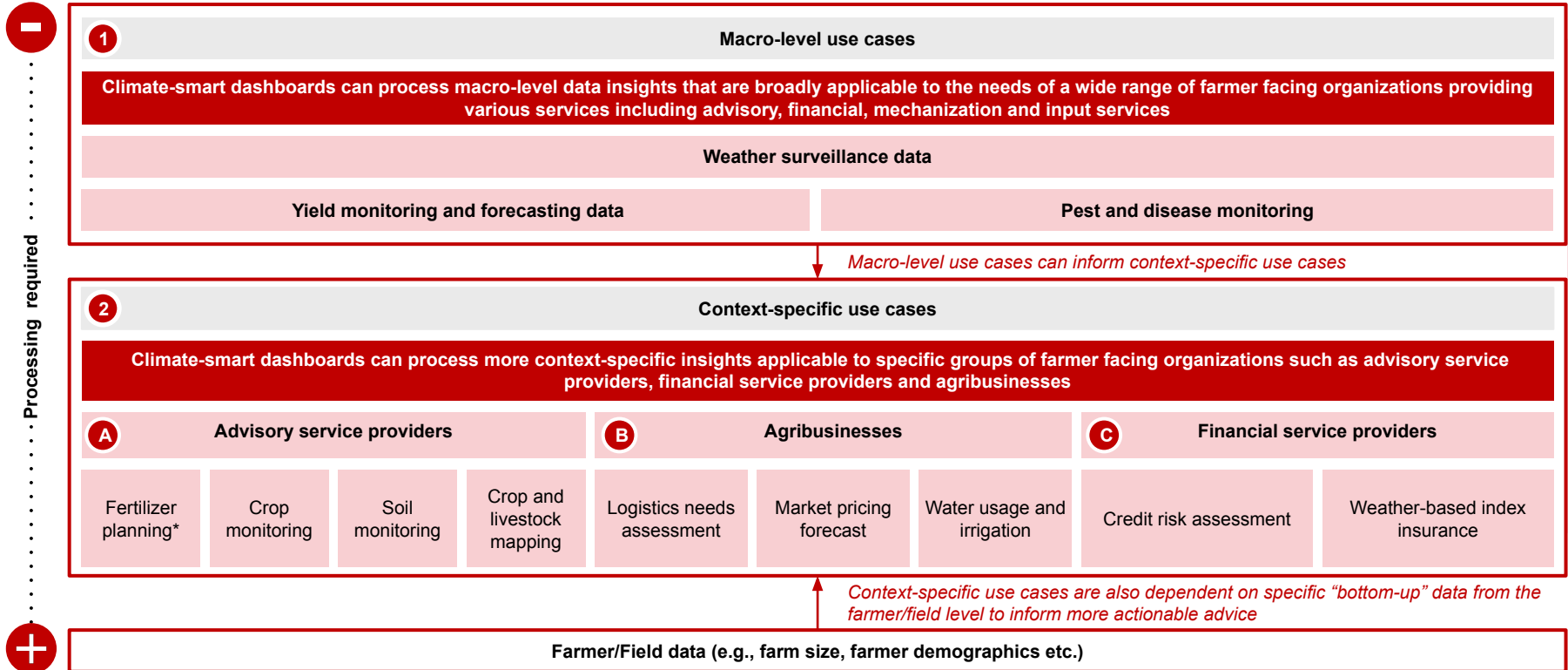
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Review of existing climate-smart dashboards

Use cases for farmer facing organizations

Climate-smart dashboards can inform two levels of use cases that are either broadly applicable or specific to farmer facing organizations



Note: Fertilizer planner can also be applicable for agribusinesses and credit providers that provide input loans


Use cases for farmer facing organizations

Macro-level use cases of dashboards include weather surveillance, yield monitoring and pest and disease monitoring


Use cases



Weather surveillance and monitoring



Yield monitoring and forecasting



Pest and disease monitoring

Description

Provides weather data (historical, live and predictions) such as wind, rainfall etc. and monitors extreme weather events such as droughts, floods etc. to provide farmers with weather alerts and weather advisory

Provides forecast of the expected crop production and yield for a given area over a certain period. Farmer facing organizations can therefore price their products accordingly e.g., insurance premiums

Predicts and monitors the likelihood of pest and disease outbreaks. Farmer facing organizations can generate alerts, provide advice on response and prevention and provision of pesticides at the right time and quantity

Benefit to farmers

Farmers with localized weather forecasts are less likely to experience crop loss and make decisions that maximize output regarding planting, irrigation and harvest

Farmers can make informed decisions based on their crop productions and yield predictions such as purchase of insurance

Farmers with pest and disease information (alerts, advice, relevant products) can react accordingly and avoid crop losses

Information required

- Live/forecast weather data (satellite and ground stations)
- Geotagged farm fields and field boundaries
- Vegetation cover

- Satellite weather data
- Crop health algorithms
- Geotagged farm boundaries
- Pest and disease surveillance
- Satellite data for biomass calculation

- Satellite weather data
- Crop monitoring data
- Crop disease and pest algorithms
- Image recognition

Use cases for farmer facing organizations

Advisory service providers, agribusinesses and FSPs can also use dashboards for use cases more specific to their different activities



“We are open-minded to engage in different data platforms that bring something different to the table and can enable us to support growers in an efficient way”





PARTNER ORGANIZATION | ADVISORY SERVICES PROVIDER

“If we can identify farm characteristics like vegetation cover from a satellite instead of sending field officers, we can scale up and price our products better”

PARTNER ORGANIZATION | FINANCIAL SERVICE PROVIDER

A Use cases for farmer facing organizations




Advisory service providers could use dashboards to inform specific use cases such as fertilizer planning and soil and crop monitoring

Use cases	Description	Benefit to farmers	Data required	
			Macro-level data	Context-specific data
 Fertilizer planner	Provides a decision support tool to calculate fertilizer recommendations such as amount of fertilizer to optimize yield for certain crops	Farmers can better manage their usage of fertilizer (amount, frequency and placement) for improved conservation agricultural practices	<ul style="list-style-type: none"> Satellite weather data 	<ul style="list-style-type: none"> Soil data Crop variety data Market data Geotagged farm boundaries
 Crop monitoring	Monitors crops across the planting cycle to generate advice on crop suitability, monitoring and calendaring	Farmers can improve their crop management practices by using fertilizers/pesticides optimally and climate resilient seeds	<ul style="list-style-type: none"> Satellite weather data 	<ul style="list-style-type: none"> Crop variety data Soil monitoring data Geotagged farm boundaries
 Soil monitoring	Provides a range of soil characteristics including moisture, salinity etc. to generate advice on crop suitability	Farmers can improve their soil management practices based on soil data such as planting of salinity resistant crops	<ul style="list-style-type: none"> Satellite weather data 	<ul style="list-style-type: none"> Soil data (moisture, salinity etc.) Topographic data Geotagged farm boundaries
 Crop and livestock mapping	Maps areas that are suitable for specific crops and types of livestock	Farmers can improve their crop and livestock management practices that will improve their farm productivity	<ul style="list-style-type: none"> Satellite weather data 	<ul style="list-style-type: none"> Agroecological zone data Livestock data Crop variety data

Advisory service providers

B Use cases for farmer facing organizations



Agribusinesses could use dashboards to inform specific use cases such as market pricing forecast and logistics needs assessment

Use cases	Description	Benefit to farmers	Data required	
			Macro-level data	Context-specific data
 Logistics needs assessment	<p>Logistic needs assessment enables logistics companies to provide transport and storage of inputs and crops at the right location and time</p>	<p>Farmers can have better post harvest crop management such as timely and sufficient transport of their harvested crops from their farms</p>	<ul style="list-style-type: none"> Yield forecast and monitoring Pest and disease monitoring data 	<ul style="list-style-type: none"> Crop calendaring and selection data Timing/planning of harvesting Geotagged farm boundaries
 Market pricing forecast	<p>Market pricing forecasts enables off-takers to estimate yields for pricing</p>	<p>Farmers with increased visibility of market prices can competitively participate in markets and are more likely to adopt and afford climate-smart practices</p>	<ul style="list-style-type: none"> Yield monitoring and forecast data Pest and disease monitoring data 	<ul style="list-style-type: none"> Market information (supply, demand and prices) Crop selection and monitoring data
 Water usage and irrigation data	<p>Measures water productivity and water usage, enabling irrigation service providers to estimate demand and increase accessibility of irrigation tools</p>	<p>Farmers can improve their water management practices through supplemental irrigation e.g. drip irrigation with accurate scheduling and application</p>	<ul style="list-style-type: none"> Satellite weather data 	<ul style="list-style-type: none"> Crop water requirement (CRW) ratio Water productivity

Agribusinesses

C Use cases for farmer facing organizations

Financial service providers could use dashboards to inform specific use cases such as credit scoring and weather-based index insurance

Use cases	Description	Benefit to farmers	Data required	
			Macro-level data	Context-specific data
Financial Service Providers  Credit and risk assessment	<p>Provides a credit scoring instrument for credit providers to better assess farmer credit risk based on potential yield and earnings and how risks can be mitigated</p>	<p>Farmers can have increased access to formal credit products such as input loans that can increase their crop production and food security</p>	<ul style="list-style-type: none"> • Yield monitoring and forecast data • Extreme weather risk • Pest and disease monitoring data 	<ul style="list-style-type: none"> • Farmer profiling data (collateral, demographics, farm size etc.) • Crop selection and monitoring data
 Weather based index insurance	<p>Weather based index insurance based on climatic and weather-related crop loss enables insurance providers to better price their insurance products</p>	<p>Farmers can have a safety net and become more resilient to extreme weather events that cause crop failure with better payout practices i.e. with fewer disputes than is for typical for conventional crop insurance and timely payouts</p>	<ul style="list-style-type: none"> • Satellite weather data that affects crop yields including rainfall, temperature etc. (incl. historical weather data) • Yield monitoring and forecast data • Pest and disease monitoring data 	<ul style="list-style-type: none"> • Credit scoring algorithms • Individual farm characteristics (e.g., choice of crop, acreage) • Cropping patterns and varieties • Soil types

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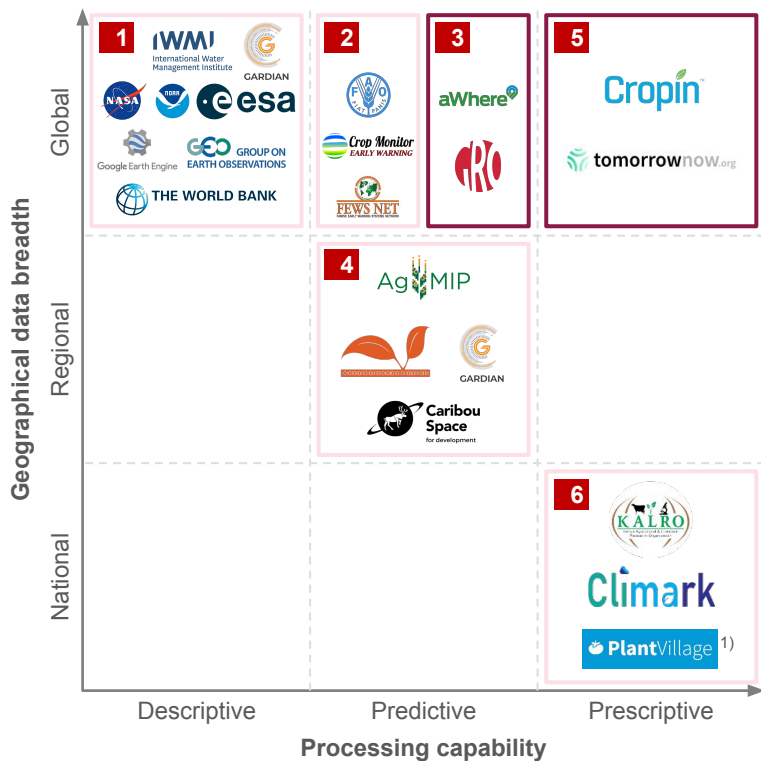
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Landscape review of climate-smart dashboards

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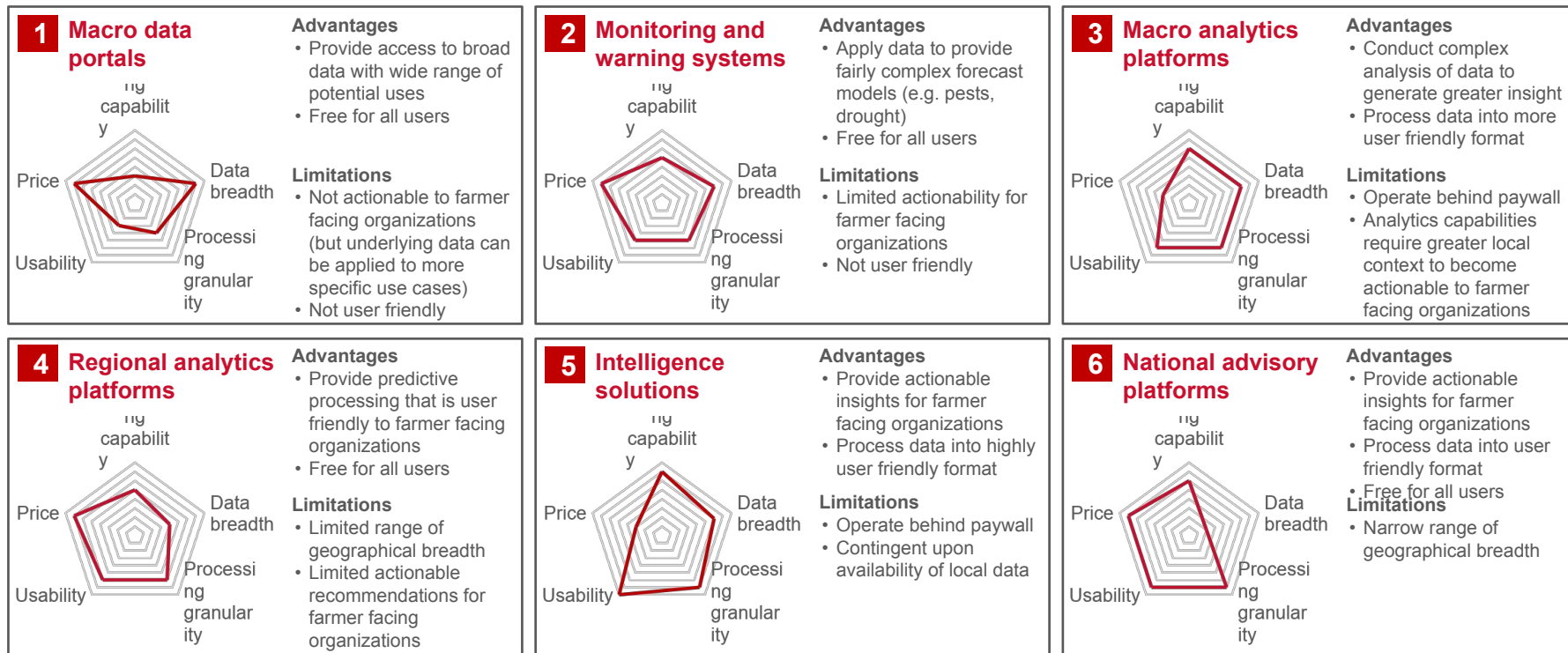
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 - Free of charge and relatively interactive/user-friendly
- 5 Intelligence solutions**
 - Apply advanced analytics to provide more actionable advice to end users (e.g. when to plant crops)
 - Operate behind a paywall due to more advanced analytics
- 6 National advisory platforms**
 - Apply processing to a local context to provide more actionable advice (e.g. crop selection) albeit with a narrower geographical range
 - Free of charge and relatively interactive/user-friendly

Landscape review of climate-smart dashboards

The six dashboard archetypes offer different advantages, but all have their limitations in serving farmer facing organizations



Landscape review of climate-smart dashboards

Macro data portals and monitoring/warning systems are public goods that offer simpler processing capability at a national/regional level

Non-exhaustive

Organization	Dashboard	Summary	Geographic breadth	Cost model	Processing capability			Processing granularity		
					Descriptive	Predictive	Prescriptive	National	Sub-national	Local
1 CGIAR	GARDIAN	Aggregates and visualizes data for application towards agricultural research	Global	Free of charge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
European Space Agency	CCI Open Data	Aggregates data from across ESA Member States to support R&D	Global	Free of charge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Google	Google Earth Engine	Aggregates satellite imagery and geospatial data at a global level	Global	Free of charge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Group on Earth Observations	Open EO Data	Aggregates Earth observation data from different providers across the world	Global	Free of charge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IWMI	Water Data Portal	Aggregates different sources of global water and agriculture data	Global	Free of charge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NASA	EOSDIS	Provides open access to NASA's earth science data generated from satellites	Global	Free of charge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NOAA	Global Drought Info System	Aggregates and compares drought information from different sources	Global	Free of charge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
World Bank	Climate Data Portal	Provides historical climate data by sector, impacts and vulnerabilities	Global	Free of charge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 FAO	GIEWS	Monitors food supply and demand and other key indicators across the globe	Global	Free of charge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Geoglam	Crop Monitor	Provides crop conditions data to support early warning of production shortfalls	Global	Free of charge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
USAID	FEWSNET	Provides a famine early warning system to monitor and predict food insecurity	Global	Free of charge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Holds capability

Does not hold capability

Landscape review of climate-smart dashboards

Analytics platforms and intelligence solutions offer more processing but at a cost; local advisory platforms offer simple prescriptive advice

Non-exhaustive



Organization	Dashboard	Summary	Geographic breadth	Cost model	Processing capability			Processing granularity		
					Descriptive	Predictive	Prescriptive	National	Sub-national	Local
3	aWhere	Provides agricultural APIs and Apps for real-time weather insights and forecasts	Global	Charged	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	GRO Intelligence	Provides analytics, indices, and decision models for climate, food and agriculture	Global	Hybrid ¹⁾	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	CGIAR CGLabs	Provides a workbench and analytic pipelines for common agricultural issues	Africa, Asia, Americas	Free of charge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Fieldy	Enables the remote monitoring of smallholder field data	Africa	Hybrid ²⁾	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Space for Development Wageningen	EO for Disaster Resilience AgMIP	Africa Africa, Asia	Free of charge Free of charge	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>
5	Cropin	Develops agricultural decision-making solutions based on weather data	Global	Charged	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	TomorrowNow	Develops intelligence tools to improve weather-based decision-making	Global	Hybrid ²⁾	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	Climark	Provides users with localized, near real-time weather information and advice	Kenya, Ethiopia	Free of charge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	KALRO	Provides local weather forecasts and offers agricultural climate advisory services	Kenya	Free of charge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	PlantVillage	Applies artificial intelligence to provide advice on crop management	Kenya, Ethiopia, Zambia	Free of charge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Holds capability Does not hold capability

1) GRO offers free platform access to teams and projects working on food security and climate security for the common good; 2) TomorrowNow operates a charged commercial model and a non-profit division that offers its data solutions at cost or free of charge

Landscape review of climate-smart dashboards

We have developed case studies on six dashboards to illustrate the advantages and limitations of the different archetypes

	Organization	Dashboard	 Advantages	 Limitations
1	CGIAR	GARDIAN	<ul style="list-style-type: none">• Offers access to vast range of aggregated data that can serve as platform for a broad range of processing applications• Free of charge to users	<ul style="list-style-type: none">• Holds limited processing power to generate new insights• Low usability for users without data science experience
2	USAID	FEWSNET	<ul style="list-style-type: none">• Generates complex forecasts for a specific warning application (i.e. famine/food insecurity)• Free of charge to users	<ul style="list-style-type: none">• Processed insights have limited directed actionability for farmer facing organizations
3	GRO Intelligence	GRO Intelligence	<ul style="list-style-type: none">• Can provide a wide range of complex analyses and insights (e.g. yield forecasts, drought indices) in a user-friendly format	<ul style="list-style-type: none">• Processing capabilities have limited applicability at the local level most relevant to farmer facing organizations• Operates a charged model (some services are free of charge)
4	Wageningen University	AgMIP	<ul style="list-style-type: none">• Generates longer-term forecasts (e.g. yields) and links these to climate change impacts in a user-friendly format• Free of charge to users	<ul style="list-style-type: none">• Processed insights have limited short-term actionability for farmer facing organizations• Limited geographical range (focused on seven countries)
5	Cropin	SmartFarm/ SmartRisk	<ul style="list-style-type: none">• Can provide highly prescriptive and actionable insights (e.g. crop calendaring)• Presents insights in a highly user-friendly format	<ul style="list-style-type: none">• Dependent on local data to inform prescriptive processing• Operates a charged model that is not economically viable to some farmer facing organizations
6	KALRO	KAOP	<ul style="list-style-type: none">• Can provide prescriptive and actionable insights (e.g. crop selection) in a simple, user-friendly format• Free of charge to users	<ul style="list-style-type: none">• Narrow geographical range (focused only on Kenya)

CONCLUSION

- **Climate-smart solutions** have emerged as an important way to **reduce risks for smallholder farmer financing and production**
- A growing number of **farmer facing organizations are therefore expressing an interest in engaging climate-smart dashboard solutions** that work across these climate-associated risks
- This is a **fast-moving and exciting field** with the potential for data to accelerate innovation and scale, both of which (speed and reach) are critical in the current climate context
- Our **research** shows that the way farmer facing organizations would use and benefit from dashboards (use cases) range from fertilizer planning and crop monitoring tools, market pricing forecasts, credit and risk assessments to weather-based index insurance, amongst others
- **Dashboards have important advantages** but also can come with shortfalls; more work in this space is encouraged to further customize them for farmer facing organizations
- **AgriFin** will continue to build use cases, encourage data sharing, publish lessons learnt and support partners to design, test, scale their own dashboards as well as leverage existing work

Get in touch with us to if you'd like to collaborate, or to find out more!

View separate Annex for a detailed overview of different dashboards.

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