

Western Cape Department of Agriculture

Management Improvement Plan

Climate Change Response Framework and Implementation Plan (SmartAgri)

S Midgley and I Trautmann 2021

WESTERN CAPE AGRICULTURAL SECTOR CLIMATE CHANGE RESPONSE FRAMEWORK AND IMPLEMENTATION PLAN (SMARTAGRI) EVALUATION MANAGEMENT IMPROVEMENT PLAN

1. MANAGEMENT RESPONSE ON RECOMMENDATIONS

Re	commendation	Record of agreement or disagreement	Reasons for disagreement
1	Undertake a review and update of the climatic information and any required refinements to response strategies that underpin the SmartAgri Plan – particularly at the downscaled level.	Agree	
2	Undertake an internal review of the projects and detailed activities defined in the SmartAgri Plan to assess relevance and any needs for updating requirements.	Agree	
3	Institute, mandate and resource a formalised SmartAgri Plan management/oversight structure.	Agree	
4	Undertake a deep-dive review of each programme in the two lead departments to assess levels of adoption of the SmartAgri Plan and drive towards institutionalisation within each department's programmes.	Agree	
5	Re-engage and strengthen uptake by other provincial and national government departments identified in the SmartAgri Plan.	Agree	
6	Re-engage and strengthen uptake by Industry organisations and role players identified in the SmartAgri Plan.	Agree	
7	Adopt mechanisms to identify and mainstream farm-level innovation, learning and change.	Agree	

2. IMPROVEMENT OBJECTIVES

Recommendation 1:	Undertake a review and update of the climatic information and any required refinements to response strategies that underpin the SmartAgri
Improvement Objective 1:	Plan – particularly at the downscaled level. Review, update and make available the latest downscaled climate change projections, with associated risks and impacts, and make
	recommendations for the updating of the SmartAgri Plan and supporting resources.
Recommendation 2:	Undertake an internal review of the projects and detailed activities defined in the SmartAgri Plan to assess relevance and any needs for updating requirements.
Improvement Objective 2:	Review the projects, their detailed activities and their lead institutions as defined in the SmartAgri Plan to identify and agree any required amendments, deletions and additions, and update the Plan accordingly.
Recommendation 3:	Institute, mandate and resource a formalised SmartAgri Plan management / oversight structure.
Improvement Objective 3:	Formally institute, mandate and resource a SmartAgri management/oversight/coordination unit within the DOA.
Recommendation 4:	Undertake a deep-dive review of each programme in the two lead departments to assess levels of adoption of the SmartAgri Plan and drive towards institutionalisation within each department's programmes.
Improvement Objective 4:	Review the uptake of projects and activities defined in the SmartAgri Plan within relevant programmes in DOA and DEA&DP, and develop planning and M,E&L mechanisms for the institutionalisation of Plan activities in these departments.
Recommendation 5:	Re-engage and strengthen uptake by other provincial and national government departments identified in the SmartAgri Plan.
Improvement Objective 5:	Activate or establish formal dialogue channels between DOA and other provincial and national departments identified in the SmartAgri Plan, through which engagement around SmartAgri institutionalisation and implementation will take place.
Recommendation 6:	Re-engage and strengthen uptake by Industry organisations and role players identified in the SmartAgri Plan.
Improvement Objective 6:	Activate or establish formal dialogue channels between DOA and key agricultural sector organisations and role players identified in the SmartAgri Plan, through which engagement around SmartAgri awareness, uptake and implementation will take place.
Recommendation 7:	Adopt mechanisms to identify and mainstream farm-level innovation, learning and change.
Improvement Objective 7:	Establish mechanisms to make updated SmartAgri resources and tools widely available to farmers through online portals and farmer forums, and to establish a spatially explicit database to capture local innovations and learning at farm/landscape level.

3. IMPROVEMENT PLAN

ociafed	Progress			
ions, with assu	Budget available	Funds to be allocated within operational budget to appoint service provider	Operational	
ange project SmartAgri Plo	Deadline	31 July 2021	31 August 2021	
led climate ch updafing of the	Person	Service provider (climate change climatologist)	Dr S. Midgley	
ake available the latest downscaled climate change projections, with associat make recommendations for the updating of the SmartAgri Plan and supporting	Deliverable	Updated Status Quo Review Ch. 3 with recommendations for updating the SmartAgri Plan and supporting resources	Updated Status Quo Review Ch. 9 with recommendations for updating the Smart Agri Plan and supporting resources	
Review, update and make available the latest downscaled climate change projections, with associated risks and impacts, and make recommendations for the updating of the SmartAgri Plan and supporting resources.	l _t	Review the latest (post-2015) climate change projections (GCM and downscaled model outputs) to identify changes across agroclimatic zones that should be reflected in the SmartAgri Plan and supporting resources	Review and assess, using the results of 1.1.1, changes in climate change risks and impacts across agroclimatic zones, including lessons from the 2015-18 drought, that should be reflected in the SmartAgri Plan and	
pdate a	Activity	1.1.1	1.1.2	
Review, update and morisks and impacts, and i	Priority	Very	Important	
Improvement Objective 1:	puf	Updated knowledge of downscaled climate change projections, and of risks and impacts across the 23 agro-climatic zones, with recommendations		
lmp Obj	Output	=		

Im QO	Improvement Objective 1:	Review, uprisks and irresources.	odate (and make availables, and make recom	Review, update and make available the latest downscaled climate change projections, with associated risks and impacts, and make recommendations for the updating of the SmartAgri Plan and supporting resources.	iled climate ch updating of the	ange projecti SmartAgri Plc	ons, with asso in and suppo	ociated rting
0	Output	Priority	Activity	ły	Deliverable	Person	Deadline	Budget available	Progress
				supporfing resources					
1.2	Dissemination of updated knowledge to users	Very important	1.2.1	Make the updated projections and assessments available through the GreenAgri Portal and departmental website and SmartAgri newsletter	Updated chapters 3 and 9 (excl. recommendations) and maps uploaded on the GreenAgri portal, departmental website and SmartAgri newsletter	Dr S. Midgley	30 September 2021	Operational budget	
		Important	1.2.2	Plan the integration of the spatial layers of the climate change projections per agro-ecological zone into Cape Farm Mapper	Work Plan	FC Basson and F Koegelenberg	28 February 2022	Operational budget	
		Important	1.2.3	Plan the updating and dissemination of supporting resources (Commodity Briefs, Executive Summary)	Work Plan	Dr S. Midgley	30 September 2021	Operational budget	

m Obj	Improvement Objective 2:	Review the identify an	proje d agre	Review the projects, their detailed activities and their lead institutions as defined in the SmartAgri Plan to identify and agree any required amendments, deletions and additions, and update the Plan accordingly.	ctivities and their le endments, deletior	ead institutions and addit	ns as definedions, and upo	in the Smart date the Plan	Agri Plan to accordingly.
Output	put	Priority	Activity	lty	Deliverable	Person	Deadline	Budget available	Progress
2.1	Needs and recommendations for an updated SmartAgri Plan are identified	Very	2.1.1	Consultative internal departmental review of the projects in the SmartAgri Plan, their detailed activities, and their lead institutions, to assess relevance and updating needs, with recommendations	Document listing the needs and recommendations for updating the SmartAgri Plan, for discussion by the Steering Committee ¹	Dr S. Midgley	30 September 2021	Operational budget	
2.2	Update the SmartAgri Plan	Very important	2.2.1	Meeting of SmartAgri Steering Committee ² to discuss the updating of the SmartAgri Plan	Minutes of meeting	Dr I. Trautmann	31 October 2021	Operational budget	
		Very important	2.2.2	Update the SmartAgri Plan	Updated SmartAgri Plan document with agreed lead institutions	Dr S. Midgley	30 November 2021	Operational budget	

¹ See Objective 3.1 ² See Objective 3.1

lm Qbj	Improvement Objective 3:	Formally in DOA.	nstiitute	, mandate and r	esource a Sma	rtAgri mana	gement/ ove	rsight/ coording	Formally institute, mandate and resource a SmartAgri management/ oversight/ coordination unit within the DOA.
Output	put	Priority	Activity	ły	Deliverable	Person	Deadline	Budget available	Progress
г.	SmartAgri Steering Committee is re- instituted	Very	3.1.	Re-institute the SmartAgri Steering Committee including more representatives from departmental programmes	Confirmed membership and meeting schedule for 2021/2022	Dr I. Trautmann	28 February 2021	Operational budget	
3.2	Management / oversight / coordination unit is formally established and mandated	Very	3.2.1	Meeting of the SmartAgri Steering Committee to agree on unit's structure and function	Minutes of meeting	Dr I. Trautmann	30 April 2021	Operational budget	
		Very important	3.2.2	Senior management of DOA formally institute and mandate the	Minutes of meeting	Dr I. Trautmann	30 June 2021	Operational budgef	
3.3	The unit is appropriately resourced	Very	3.3.1	Appoint a dedicated person in DOA with clear responsibilities and authorities to oversee and coordinate the	Person appointed	Dr 1. Trautmann	01 January 2021	Compensation of employment budget	Completed (Dr S. Midgley appointed from 01-01-2021)

lmp Obj	Improvement Objective 3:	Formally in DOA.	stitute	, mandate and r	esource a Sma	ırtAgri manaç	gement/ ove	rsight/ coordina	Formally institute, mandate and resource a SmartAgri management/ oversight/ coordination unit within the DOA.
Output	put	Priority	Activity	ty	Deliverable	Person	Deadline	Budget available	Progress
				work of the unit					
		Very	3.3.2	Identify and co-opt semidedicated support persons in DOA and DEA&DP	Support persons approved by line managers	Dr I. Trautmann and Mr G. Isaacs	28 February 2021	Operational budget	
		Very important	3.3.3	Develop a distinct operating budget for the unit	Budget	Dr I. Trautmann and Dr S Midgley	31 July 2021	Operational budget	
3.4	Actions are planned	Very important	3.4.1	Develop and gain approval for Work Plan for remainder of 2021/2022	Work Plan 2021/2022	Dr S. Midgley	31 July 2021	Operational budget	
-		Important	3.4.2	Develop and gain approval for Action Plan for 2022/2023	Work Plan 2022/2023	Dr.S. Midgley	30 November 2021	Operational budgef	
		Very important	3.4.3	Integrate Action Plans into unit members' Performance	Updated Performance Agreements	Dr I. Trautmann [and Mr G. Isaacs]	28 February 2022	Operational budget	
3.5	Needs and recommendations for M,E&L	Important	3.5.1	Review and evaluate options for	Document outlining proposed	Dr S. Midgley	28 February 2022	Operational budget	

Improvement Objective 3:	Formally in DOA.	nstiitute,	mandate and r	resource a Sma	rtAgri manaç	gement/ ove	rsight/ coordina	formally institute, mandate and resource a SmartAgri management/ oversight/ coordination unit within the DOA.
Output	Priority Activity	Activit	^	Deliverable	Person	Deadline	Budget available	Progress
framework are			M,E&L	structure of	and Mr. G			
formulated			framework for	M,E&L	Isaacs			
			the SmartAgri	framework,				
			Plan	for discussion				

Output Relevant departments have been reengaged and activities and gaps assessed	DOA and DEA&DP, and in these departments. Priority Activity Conductor of eacting of eacting of eacting of eacting of eacting of eacting important and important important and important and important and important important and important an	DEA&DP, e uptake DEA&DP, e partmei Activity Activity Activity Activity Activity Activity Activity		develop planning and M,E&L mechanisms for the institutionalisation of Plan activities develop planning and M,E&L mechanisms for the institutionalisation of Plan activities Deliverable Person Deadline Budget Progress	in the SmartA. mechanisms Person Dr S. Midgley	gri Plan withl for the instift Deadline 30 November 2021	In relevant provided available available budget	ogrammes in of Plan activities Progress
Planning and M,E&L framework to achieve implementation and institutionalisation	Important	4.2.1	Develop Management Improvement Plans for each relevant DOA programme to drive the	Management Improvement Plans for each DOA programme	Each Director / Chief Director of relevant programmes	28 February 2022	Operational	

Improvement Objective 4:	Review the uptake of DOA and DEA&DP, an in these departments.	e uptak DEA&D epartm	Review the uptake of projects and activities defined in the SmartAgri Plan within relevant programmes in DOA and DEA&DP, and develop planning and M,E&L mechanisms for the institutionalisation of Plan activities in these departments.	activities defined anning and M,E&I	in the SmartA mechanisms	gri Plan with for the institu	in relevant pro utionalisation	ogrammes in of Plan activities
Output	Priority	Activity	<u></u>	Deliverable	Person	Deadline	Budget available	Progress
			institutionalisation of SmartAgri Plan projects and activities					
11	Important 4.2.2	4.2.2	Linking with 3.4.1, identify mechanisms that can link relevant DOA programmes and their activities into a SmartAgri M,E&L framework	Feed identified mechanisms into 3.4.1	Dr S. Midgley	28 February 2022	Operational budget	

nd national artAgri	Progress	Older stakeholder list is available but must be updated and focused	
provincial are	Budget available	Operational budget	
A and other engagemen	Deadline	31 March 2021	
between DO ough which place.	Person	Dr S. Midgley	
mal dialogue channels between DOA and other provincial and nation the SmartAgri Plan, through which engagement around SmartAgri mplementation will take place.	Deliverable	List of departments / engagement partners with contacts	
Activate or establish formal dialogue channels between DOA and other provincial and national departments identified in the SmartAgri Plan, through which engagement around SmartAgri Institutionalisation and implementation will take place.	ity	Identification of departments and partners to be re- engaged	
or estal ints ide	Activ	5.1.1	
Activate or establish for departments identified institutionalisation and it	Priority Activity	Very important	
Improvement Objective 5:	out	Departments and their engagement partners are identified	
Impr Obje	Output	5.1	

Activate or establish formal dialogue channels between DOA and other provincial and national departments identified in the SmartAgri Plan, through which engagement around SmartAgri institutionalisation and implementation will take place	Priority Activity Deliverable Person Deadline available Progress	Very 5.2.1 and agreement of engagement terms of engagement engagement terms of terms of terms of engagement	Very important engagement5.2.2 engagementMinutes of departments meetings with and terms of engagementMinutes of meetings with and terms of engagementDr. I. Dr. I. Dr. I. December Irautmann 202131 December December December December December December December December December	Important 5.3.1
Activate or establi departments identification	Priority Activity	5.2.1	5.2.2	5.3.1
Improvement Objective 5:	put	Dialogue channels are identified and/or established		Re-engagement on the SmartAgri Plan and the roles of departments
obj	Output	5.2		5.3

Impi Obje	Improvement Objective 6:	Activate or establish forrrole players identified in uptake and implementa	r estab rs iden d impla	Activate or establish formal dialogue chann role players identified in the SmartAgri Plan, uptake and implementation will take place.	nal dialogue channels between DOA and key agricultural sector organisation the SmartAgri Plan, through which engagement around SmartAgri awareness, tion will take place.	oetween DO, ugh which e	A and key ag ngagement (ricultural sec around Smart	Activate or establish formal dialogue channels between DOA and key agricultural sector organisations and role players identified in the SmartAgri Plan, through which engagement around SmartAgri awareness, uptake and implementation will take place.
Output	out	Priority	Activity	λ	Deliverable	Person	Deadline	Budget available	Progress
6.1	Sectoral role players and their engagement partners are identified	Very important	6.1.1	Identification of sectoral role players and partners to be engaged	List of sectoral role players / engagement partners with contacts	Dr S. Midgley	31 March 2021	Operational budget	Older stakeholder list is available but must be updated and focused
6.2	Dialogue channels are identified and/or established	Very	6.2.1	iion of ient	Proof of agreed terms of engagement	Dr.S. Midgley and Dr.I Trautmann	31 May 2021	Operational budget	
		Very important	6.2.2	Meetings with partners to establish new channels and terms of engagement	Minutes of meetings with agreed mode and terms of engagement	Dr S. Midgley and Dr I Traufmann	31 December 2021	Operational budget	
6.3.	Re-engagement on the SmartAgri Plan and the roles of sectoral players	Important	6.3.1	Begin a process of reengaging with sectoral role players on the SmartAgri Plan and their roles within it, via the channels identified in 5.2	Minutes of each engagement	Dr S. Midgley	28 February 2022	Operational budget	

lmp Obj	Improvement Objective 7:	Establish mechanisms to nonline portals and farmer and learning at farm/land	nechar tals an ng at fa		nake updated SmartAgri resources and tools widely available to farmers through forums, and to establish a spatially explicit database to capture local innovations scape level.	sources and	t tools widely licit databas	available to e to capture l	farmers through ocal innovations
Output	out	Priority	Activity	ły	Deliverable	Person	Deadline	Budget available	Progress
1.7	Updated resources and tools are available to farmers through a consolidated and widely known portal / point	Very important	7.1.1	Review all the resources and tools available to farmers via the Elsenburg and Green Agri Portal websites to determine if updating is required and to make the necessary	Updated SmartAgri point of the GreenAgri Portal	Dr S. Midgley	31 March 2021	Operational budget	
,		Very important	7.1.2	Create a consolidated point on the Green Agri Portal and Elsenburg websites where all the resources can be more easily accessed by users	SmartAgri point on the GreenAgri Portal with clear link on Elsenburg website	Dr S. Midgley	31 March 2021	Operational	
		Very	7.1.3	Communicate the resources/ tools available from which farmers and	Communications and awareness raising through key mediums e.g. AgriProbe,	Dr S. Midgley	31 August 2021	Operational budget	

lmp Obje	Improvement Objective 7:	Establish mechanisms to online portals and farmer and learning at farm/lan	nechar tals an ng at f	Establish mechanisms to make updated SmartAgri resources and tools widely available to farmers through online portals and farmer forums, and to establish a spatially explicit database to capture local innovations and learning at farm/landscape level.	make updated SmartAgri resources and tools widely available to farmers through forums, and to establish a spatially explicit database to capture local innovation: dscape level.	sources and patially exp	d tools widely slicit databas	/ available to the total control of the total control of the total of	armers through ocal innovations
Output	puť	Priority	Activity	,	Deliverable	Person	Deadline	Budget available	Progress
				extension officers can 'pull' the information they need, with strategic assistance from DOA	SmartAgri Barometer, Farmer Days, Radio Elsenburg, etc.				
7.2	Farmer forums per agro-climatic zone are identified and their use as a SmartAgri support structure agreed with forum leaders	Very	7.2.1	Undertake a study to identify the different forums used by farmers in different commodifies and agro-climatic zones {e.g., study groups} with a view to identifying the best structures through which to support local/ regional learning, and engage with forum leaders	Study report and excel-based list of forums (per agro-climatic zone) to be used, with contacts	Dr S. Midgley	31 December 2021	Operational budget	
7.3	Database is established	Important	7.3.1	Develop database structure for capturing climate change	Database structure	Dr S. Midgley	31 October 2021	Operational budget	

lmp įdo	Improvement Objective 7:	Establish mechanisms to online portals and farmer and learning at farm/lan	nechar tals an ng at fe	Establish mechanisms to make update online portals and farmer forums, and and learning at farm/landscape level.	Establish mechanisms to make updated SmartAgri resources and tools widely available to farmers through online portals and farmer forums, and to establish a spatially explicit database to capture local innovations and learning at farm/landscape level.	sources and	d tools widely licit databas	r available to for e to capture lo	urmers through cal innovations
Output	put	Priority	Activity	λ,	Deliverable	Person	Deadline	Budget available	Progress
				adaptation/ mitigation innovations and learning, per agro-climatic zone					
4.7	Existence and utility of possible risk-assessment tools are understood	Important	7.4.1	Scope and evaluate different risk-assessment tools that can aide farmers to think holistically about their farming systems, to identify systemic risks and define the 'improvement pathways' towards greater resilience appropriate to their farms	Scoping report	Dr S. Midgley	30 July 2021	Operational	
7.5	Engagement on the SmartAgri Plan, communication of available resources and documentation	Important	7.5.1	Begin a process of participating in the forums identified in 7.2 to facilitate engagement, to make farmers	Minutes of engagements; database is being populated	Dr S. Midgley	28 February 2022	Operational budget	

farmers through ocal innovations	Progress	
y available to se to capture l	Budget available	Operational
d tools widel olicit databas	Deadline	30 June 2021
esources and spatially exp	Person	Dr.S. Midgley
lated SmartAgri r nd to establish a vel.	Deliverable	Minutes of meeting
Establish mechanisms to make updated SmartAgri resources and tools widely available to farmers through online portals and farmer forums, and to establish a spatially explicit database to capture local innovations and learning at farm/landscape level.	ılıy	more aware of the resources available, and to start to document the local innovations/ learnings Meeting with FSD / Extension Services to discuss the need for, and feasibility of, targeted training of extension support services
mecha irtals an	Activity	7.6.1
Establish rouline por and learn	Priority	Important 7.6.1
Improvement Objective 7:	put	of innovations/ learnings Needs assessment for training of extension support services
opi Obje	Output	7.6

4. SIGNOFF

It is recommended that this Management Improvement Plan is implemented

Mal-	21/01/2021.
PROGRAMME MANAGER:	DATE
APPROVED / NOT APPROVED	
DR M SEROPETSA HEAD OF BEPARTMENT	26 Jan 2621 DATE