



## LEAP-AGRI OPTIBOV TRAINING IN SOUTH AFRICA: 03-10 NOVEMBER 2019

Date	Activity	Responsible person(s)
Saturday 02 Nov 2019	<ul> <li>Arrival to Johannesburg, South Africa</li> <li>Dr. Richard Crooijmans, Assistant Professor, Wageningen University &amp; Research, Animal Breeding and Genomics, Netherlands</li> <li>Dr. Donald Kugonza, Associate Professor Department of Agricultural Production, Makerere University, Kampala, Uganda.</li> <li>Dr. Nasser Ghanem, Assistant Professor, Cairo University, Teaching and Research, Egypt</li> <li>Dr. Catarina Ginja, Research Associate, University of Porto, Port, Portugal.</li> </ul>	-
Sunday 03 Nov 2019	Meet & Greet (Protea Hotel) Project brief meeting	OPTIBOV Partners
ARC – Animal Pi	roduction – Large Boardroom	
Monday 04 Nov 2019		
08h30 – 10h00	Welcome and Introduction	Linky Makgahlela & Norman Maiwashe,

		General Manager,
		ARC-AP
10h00 – 10h30	Coffee/Tea	-
10h30 – 15h30	OPTIBOV project meeting	
	Project updates per country	
	Data collection & Sampling progress	
	🖶 Bio banking	OPTIBOV Partners
	🔸 Nagoya protocol	
	Demonstration of project facilities (i.e., Mobile	
	App (android & iPhone), Website access	
	Database and access	
	SA Training preparation and materials (Bari	
	Poster/Flyer/Presentations compiled into a	
	manual)	
12h30 – 13h00	Lunch	-
15h00 – 15h30	Coffee/Tea	-







Genetic characterization of cattle populations for optimized performance in African ecosystems

Tuesday 05 Nov 2019	Training Small-holder Farmers – Rust de Winter	
07h00 – 09h30	Travel to Rust de Winter and set-up	-
09h30 - 10h00	Coffee/Tea and Registration	All
10h00 – 10h10	Opening and Welcome	Municipal Counsellor – Mr Johan Welmans
10h10 – 10h15	Purpose of the day	ARC – Linky Makgahlela
	Training Topics and Exhibition	
	About OPTIBOV project	Richard Crooijmans
10h15 – 13h00	Using OPTIBOV mobile App	Nasser Ghanem
	Climate change and its impact in livestock	Donald/Richard
	production	
		Catarina Ginja
	biodiversity	
	Breeding & Selection	Thokozani Ndonga
	Beef market options	Dan Motiang
13h00-13h05	Closing	Linky Makgahlela
13h05	Presentation of Certificates	Dikeledi/Shoni
13h05 – 14h00	Lunch	-
14h00 – 16h00	Beef Small-Holder Farm visit – Rust de Winter	-
16h00	Travel to Pretoria	-





Wednesday 06 Nov 2019	Students Training and Career Expo – Tembisa High School Theme "Top 3 for the future farm"	
08h30 - 09h00	Dairy Farm Visit, ARC – Animal Production	Sandra Erasmus
09h00 – 09h30	GrowSafe System	Georgette Pyoos/Giel Scholtz
10h00	Travel to Tembisa High School and set-up	
10h30 – 11h00	Registration	All
11h00 – 11h10	Opening and Welcome	Mr. V.E. Malinga (Science HOD)
11h10 – 11h15	Purpose of the day	Linky Makgahlela
11h15 – 13h00	<ul> <li>Training Topics and demonstration</li> <li>Career opportunities in Agriculture, incl. Genetics</li> <li>Understanding of genetics (Kahoot)</li> <li>Africa's adapted cattle breeds</li> <li>Understanding Climate Change</li> <li>Video – Archaeogenetics (Shared with the school)</li> <li>Demonstration and Livestock Genetics Career Expo</li> </ul>	Linky Makgahlela Richard Crooijmans Linky Makgahlela Richard Crooijmans & Donald Kugonza Catarina Ginja Helen Mapeka
13h00 – 14h00	Lunch	-
14h00 – 16h00	Visit ARC Roodeplaat Bonsmara Herd – Carbon- and water footprint research	-





Thursday 07 Nov 2019	Postgraduate Training & Symposium – ARC-AP, Meat Science Auditorium	
08h30 - 09h00	Registration	All
09h00 – 09h15	Opening and Welcome	Linky Makgahlela
10h30	Tea/Coffee	
10h45 – 12h30	Training Topics and Exhibition	
	About OPTIBOV project	
	Biodiversity – Conservation and Utilization of farm	Richard Crooijmans
	animal genetic resources	Nasser Ghanem
	Importance of farm animal genetic resources	
	Genetic markers and Archaeogenetics	Catarina Ginja
	Climate change and its impact in livestock	Catarina Ginja
	production	Donald Kugonza
	Genomics as a tool to evaluate and improve cattle	
	fertility	Nasser Ghanem
		All
	Genetics Kahoot Quiz	Richard Crooijmans
	Presentation of Certificates	Dikeledi/Shoni
12h30 – 13h30	Lunch	
18h00	Entertainment – Delegation Dinner	ARC

Friday 08 Nov 2019	Leisure Tour	
09h00-16h00	<ul> <li>Rhino and Lion Nature Reserve</li> <li>Sterkfontein Caves</li> <li>Visit to Cradle of Human Kind – Maropeng</li> </ul>	-





Saturday 09 Nov 2019	Training Small-holder Farmers – Mmakgatle Communal Farmers	
07h00 – 09h30	Travel to Mmakgatle and set-up	-
09h30 - 10h00	Coffee/Tea and Registration	All
09h30 – 12h00	Livestock Exhibitions	Stephen Rasebotsa
12h00 – 12h10	Opening and Welcome	Mr. M.D. Pholoto (Principal)
12h10 – 12h15	Purpose of the day	ARC – Linky Makgahlela
12h15 – 14h00	Training Topics	
	About OPTIBOV project	Richard Crooijmans
	Importance of farm animal genetic resources and	Catarina Ginja
	biodiversity	
	Using OPTIBOV mobile App	Nasser Ghanem
	Bull identification, Breeding & Selection	Stephen Rasebotsa
14h00	Presentation of Certificates	Dikeledi/Helen
14h05	Lunch	-
15h00	Travel to Pretoria	-

Saturday 09 Nov 2019	Students Training and Career Expo – Hututu High School	
11h30 – 11h35	Purpose of the day	Shoni Zwane
11h35 – 13h00	Training Topics and demonstrationLinear opportunities in Agriculture, incl. Genetics	
	Understanding of genetics (Kahoot)	Kgaogelo Mafolo/Shoni
	Africa's adapted cattle breeds	Zwane Richard Crooijmans
	Understanding Climate Change	
	Video – Archaeogenetics (Shared with the school)	
	Demonstration & Livestock Genetics Career Expo	Catarina Ginja Helen Mapeka
14h00	Lunch	-

