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The Swedish Research Council for Environment,
Agricultural Sciences and Spatial Planning

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Adaptation and Resilience to Climate Change (ARCC) Mugumu Workshop - Scenario development Programme.

Dates: 5 to 7th August 2019

Venue: Giraffe Garden Hotel, Mugumu

Workshop facilitated by **Dr. Rebecca Kariuki** (rebecca.kariuki@nm-aist.ac.tz) with **Dr. Linus Munishi** (Nelson Mandela African Institution of Science and Technology (NM-AIST) and **Dr. Anna Shoemaker** (Uppsala University).

Day 1: Monday, 5th August 2019 - Location - Giraffe Garden Hotel, Mugumu			
Start	End	Item	Topic
8.00	8.30	Arrival and registration	
8.30	9.00	1) Welcome note and housekeeping note by ARCC. 2) Stakeholder introduction	1) Who you are 2) Where you work and your role, 3) Why are you interested in the workshop? 4) What do you expect to learn? 5) What will you use the skills for? 6) Have you been involved in scenario planning before?
9.00	9.15	Workshop introduction by ARCC	Northern Tanzania landscapes, climates, area of interest, research interest, methodology
9.15	9.25	Definitions and key concepts that will be used in the workshop - all	Area of interest, landscapes, societies, WMAs, scenarios
9.25	9.40	Past perspectives of human - environmental interactions in Serengeti - ARCC	Importance of 'the past', Past human - environmental interactions
9.40	10.00	Discussion on 'the past' - break out groups	Past landscapes, climates and societies

10.00	10.15	Past and present time frames - plenary	1) Time frame of 'our past' and 'our present'. 2) Land cover types in past and present landscapes
10.15	10.45	Tea/coffee break and group picture	
10.45	11.30	Mapping past and present land cover - break out groups	What was the land cover distribution in the past and currently?
11.30	11.45	Drivers of past and present land cover - pairwise	What drives land cover change?
11.45	12.15	Rank drivers of past and present land cover - pairwise	What was the most important to the least important driver of change?
12.15	13.00	Introduction and developing timelines - ARCC, break out groups	What major events shaped land cover in Serengeti from the past to present
13.00	13.30	Feedback from timeline exercise	1) What events have been included? 2) What has been missed?
13.30	14.30	Lunch	
14.30	15.00	Introduction to 'the future' - ARCC	1) Why is the future important? 2) What is our future 3) How do we study the future?
15.00	15.30	Key drivers of land cover change in 2030 - break out groups	What will be the key drivers of land cover change in 2030?
15.30	15.45	Rank drivers of land use change in 2030 - break out groups	What will be the most important and least important drivers of land use change in 2030?
15.45	16.15	Key drivers of land cover change in 2063 - break out groups	What will be the key drivers of land cover change in 2063?
16.15	16.30	Rank drivers of land use change in 2063 - break out groups	What will be the most important and least important drivers of land use change in 2063?
16.30	16.45	Feedback from drivers of future land use change	1) What drivers have been included? 2) Which ones have been missed?
16.45	17.00	Day 1 wrap up	Summary of activities, feedback
17.00		Close of Day 1	
Day 2: Tuesday, 6th August 2019 - Location - Giraffe Garden Hotel, Mugumu			
Start	End	Item	Topic
8.00	8.15	Welcome note and recap of previous day - ARCC	
8.15	8.30	Introduction to scenario planning - ARCC	Scenario planning framework, scenario setting, scenario end users, outputs, introduction to scenario development.

8.30	9.00	Main factors that will drive future land cover, scenario development exercise - pairwise	What main factors will drive future land cover?
9.00	9.15	Feedback from scenario development exercise	Discussion of factors identified by different groups.
9.15	9.30	Introduction to writing scenario narratives - ARCC	What events will lead to the envisioned scenario?
9.30	10.00	Tea/coffee break and networking	
10.00	10.10	Main factors to be used in scenario development - ARCC	
10.10	10.20	Stakeholder representation -	Who is the room and who is not?
10.20	11.20	Writing scenario narratives for 2030 - break out groups	Scenario narratives
11.20	12.20	Writing scenario narratives for 2063 - break out groups	
12.20	13.00	Feedback from groups on scenario narratives	
13.00	14.00	Lunch	
14.00	14.45	Desired and undesired futures - pair wise	What is the desired/undesired 2030/2063
14.45	15.00	Feedback from desired and undesired futures	
15.00	16.00	Plausibility and consistency analysis - break out groups	Are the developed scenarios consistent, plausible, and independent?
16.00	16.45	Feedback from plausibility and consistency analysis - break out groups	What has been missed from the scenario narratives by each group? What is plausible and what is not?
16.45	17.00	Day 2 wrap up	Summary of activities, feedback
17.00		Close of Day 2	

Day 3: Tuesday, 7th August 2019 - Location - Giraffe Garden Hotel, Mugumu

Start	End	Item	Topic
8.00	8.15	Welcome note and recap of previous day - ARCC	
8.15	8.30	Background - ARCC	Main economic sectors that will determine future socio-economic and environmental trajectories.
8.30	9.30	Direction of change in sectors - break out groups	What will be direction of change in future for economic sectors?
9.30	10.00	Feedback on 'future direction of change in economic sectors'	How will economic sectors determine future socio-economic-environmental trajectories?
10.00	10.30	Tea/coffee break and networking	

10.30	10.45	Quantifying land cover change - ARCC	Where will land cover change occur, and what the likelihood of change?
10.45	11.45	Quantifying land cover change in 2030	In 2030, what is the likelihood of land cover change for each scenario? 2) Where will change occur?
11.45	12.15	Mark identified land cover change in 2030 on the map	
12.15	13.15	Quantifying land cover change in 2063	In 2063, what is the likelihood of land cover change for each scenario? 2) Where will change occur?
13.15	14.15	Lunch	
14.15	14.45	Mark identified land cover change in 2063 on the map	In 2063, what is the likelihood of land cover change for each scenario? 2) Where will change occur?
14.45	15.15	Feedback on 'quantifying land cover change'	2030 and 2063 likelihood of land cover change
15.15	16.00	Key lessons learnt/ next steps/ general views of stakeholders	
16.00	16.30	Workshop evaluation form	
16.30	16.45	Day 3 wrap up	
16.45	17.00	Wrap up of Mugumu scenario development workshop	
17.00	Close		