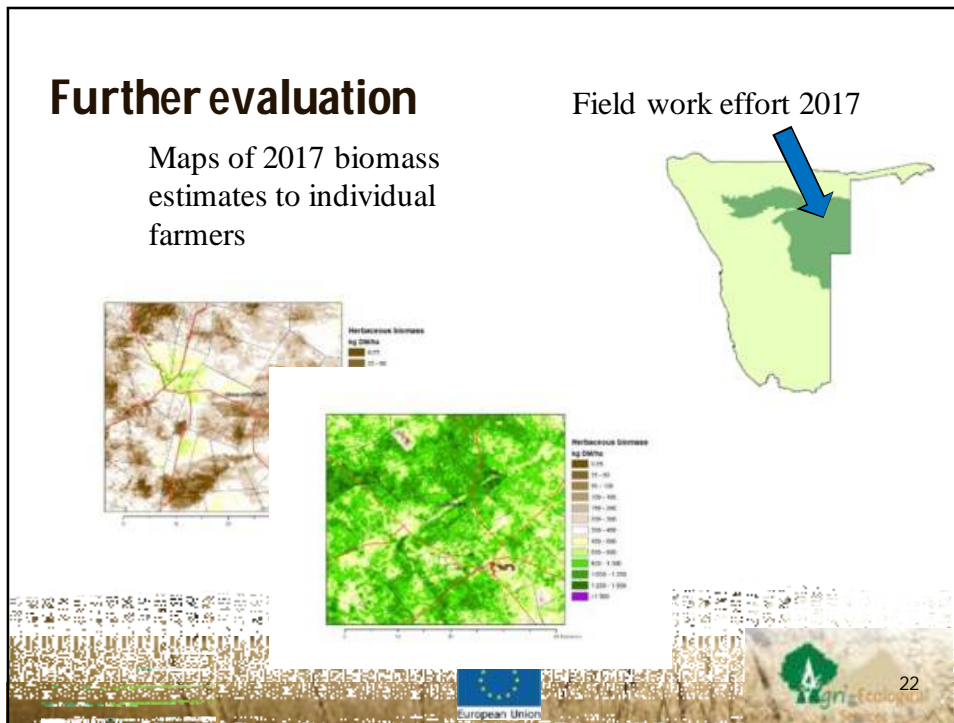


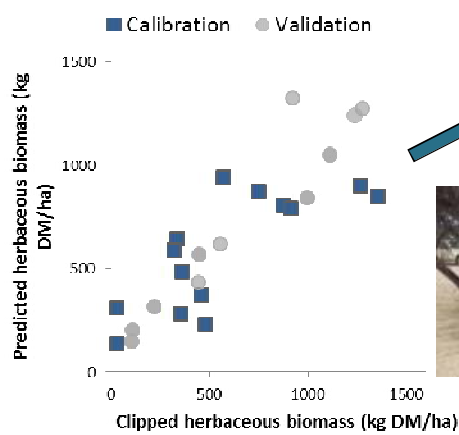
Further evaluation

Maps of 2017 biomass estimates to individual farmers

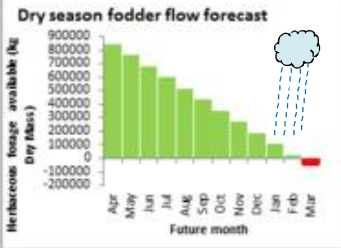
Field work effort 2017



2017 field campaign



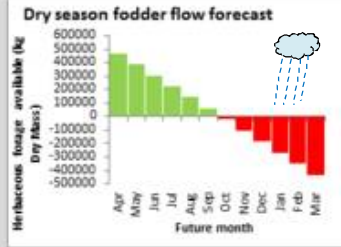
Stocking rate calculator

Data input		Results	
Area	Farm size in ha	5000	Grazer stocking rate 19.1 kg grazer biomass/ha 23.6 ha/Large Stock Unit
	ha not grazeable	300	
Forage availability	Herbaceous aboveground production (kg Dry Matter/ha)	900	Fodder flow forecasting 57364 LSU grazing days available at current stocking rate
	Percentage usable forage	20%	
Livestock	Animal numbers to be sustained		Dry season fodder flow forecast 
	Numbers		
	Cattle: Bulls		
	Cattle: Cows	300	
	Cattle: Calves	120	
	Cattle: Tollies		
	Cattle: Oxen		
	Sheep		
	Goats	35	
	Donkeys	12	
	Horses		
	Burchell's zebra	100	
	Hartmann's zebra	50	
	Hippo		
	Waterbuck	50	
White rhino			
Black wildebeest	25		
Blesbok			
Blue wildebeest	25		
Ostrich	50		

Risk of a forage shortfall: **Low**
Risk of veld fire: **Low**

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Stocking rate calculator

Data input		Results	
Area	Farm size in ha	5000	Grazer stocking rate 19.1 kg grazer biomass/ha 23.6 ha/Large Stock Unit
	ha not grazeable	300	
Forage availability	Herbaceous aboveground production (kg Dry Matter/ha)	500	Fodder flow forecasting 31869 LSU grazing days available at current stocking rate
	Percentage usable forage	20%	
Livestock	Animal numbers to be sustained		Dry season fodder flow forecast 
	Numbers		
	Cattle: Bulls		
	Cattle: Cows	300	
	Cattle: Calves	120	
	Cattle: Tollies		
	Cattle: Oxen		
	Sheep		
	Goats	35	
	Donkeys	12	
	Horses		
	Burchell's zebra	100	
	Hartmann's zebra	50	
	Hippo		
	Waterbuck	50	
White rhino			
Black wildebeest	25		
Blesbok			
Blue wildebeest	25		
Ostrich	50		

Risk of a forage shortfall: **High**
Risk of veld fire: **Low**

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Conclusions

- Optical vegetation index data + Synthetic Aperture Radar promising – needs refinement

