BOTSWANA ANIMAL HEALTH SITUATION (TADS)

PRESENTATION TO THE KAZA TFCA ANIMAL HEALTH SUB-WORKING GROUP

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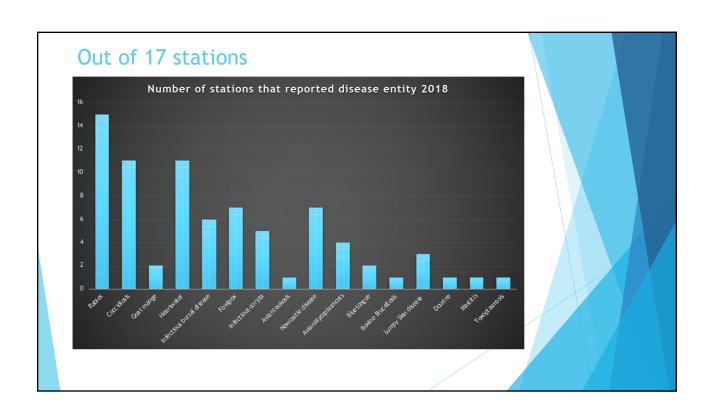
ZIMBABWE

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PRESENTED BY WIGGANSON MATANDIKO

Presentation outline

- Number of stations reporting disease entity in 2018
- Southern Africa livestock / Wildlife diseases of economic importance
- ▶ Transboundary animal diseases of regular concern
- ▶ 1. Foot and mouth disease
 - Disease control zones in Botswana
 - Recent History of FMD in Botswana
- 2. Peste des petit ruminants
- > 3. Contagious bovine pleural pneumonia
- ▶ 4. Rabies
- ▶ 5. Newcastle disease
- ▶ 6. Bluetongue
- 7. Brucellosis
- Conclusion



Rinderpest Paramyxovirus Direct & indirect contact ungulates ungulates ungulates	Disease	Etiology	Vector / transmission	Animal Species involved	Reservoir host	Zoonotic	Economic importance	Notifiable	
indirect contact Cattle, giraffe, waterbuck, eland, hippo, oryx, impala, bushbuck, wildebeest Phlebovirus genus Arthropod borne e.g. mosquitoes Possibly belsbok, springbok Phosphore e.g. cullicoides spp Phosphore e.g. cullicoides spp Phosphore e.g. cullicoides spp Phosphore e.g. cullicoides spp Possibly buffalo, elephant, hippo belsbok, springbok Possibly buffalo, elephant, hippo belsbok, springbok Phosphore e.g. cullicoides spp Phosphore e.g. cullicoides eradicated Phosphore e.g. cullicoides Phosphore e.g. cull	FMD	Aphthovirus			Buffalo	No	Important	N	
Bovine herpesvirus Arthropod, e.g. byoma fasciata, stomoxys spp Mil hippo, oryx, impala, bushbuck, wildebeest Arthropod genus Arthropod borne e.g. goats, buffalo, elephant, hippo blesbok, springbok Dorne e.g. artiodactyls, cullicoides spp Arthropod borne e.g. cullicoides spp Arthropod Bluetongue Orbivirus Arthropod borne e.g. cullicoides spp Arthropod Zebra, domestic Possibly No Important N	Rinderpest	Paramyxovirus		All ungulates	cattle	No	(disease	N	
fever genus borne e.g. goats, buffalo, elephant, hippo, blesbok, springbok hippo Bluetongue Orbivirus Arthropod borne e.g. cullicoides spp elephant, rodents rodents on oreservoir African Horse Orbivirus Arthropod Zebra, domestic Possibly No Important N	LSD		Byoma fasciata,	waterbuck, eland, hippo, oryx, impala, bushbuck,	Nil	No		N	
borne e.g. artiodactyls, transmission, cullicoides spp elephant, rodents no reservoir African Horse Orbivirus Arthropod Zebra, domestic Possibly No Important N			borne e.g.	goats, buffalo, elephant, hippo,	buffalo, elephant,	Man	Important	N	
	Bluetongue	Orbivirus	borne e.g.	artiodactyls,	transmission,	No	Important	N	
horses		Orbivirus	•	donkeys and	,	No	Important	N	

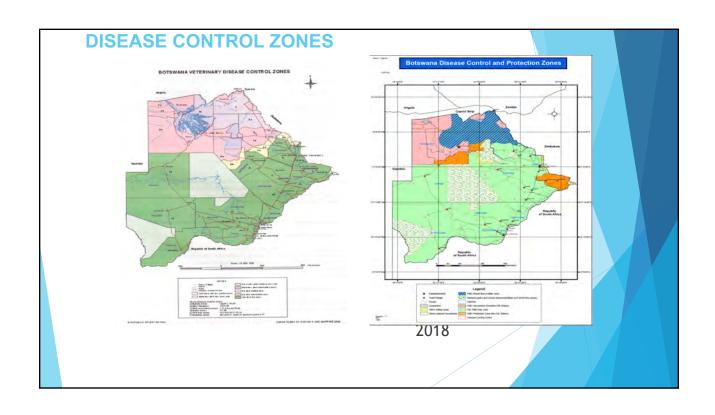
Disease	Etiology		Animal Species involved	Reservoir host	Zoonotic	Economic importance	Notifiable	
Rabies	Rhabdovirus	Bites from infected hosts	All warm blooded animals	Sylvatic cycle in carnivorous spp	Man	Important	N	
Brucellosis	Brucella abortus	Direct & indirect	herbivores	Nil	Man	Important	N	
Tuberculosis	M.bovis M.avium M.tuberculosis	Direct & indirect contact	All animals	Nil	Man	Important	N	
Anthrax	B.anthracis	Direct / indirect contact	All herbivores	Contaminated Environment	Man	Important	N	
Heartwater	Cowdria ruminantium	ticks	Domestic herbivores /	Ticks, guinea fowl, tortoise	No	Important		
Malignant Catarrhal Fever - (MCF)	Gamma herpesvirus	Direct & indirect contact	Domestic cattle, deer, antelope, Buffalo	Wildebeest	No	Important	N	
PPR	Paramyxovirus	Direct & indirect contact	Small domestic & wild ruminants	Nil	No	Important	N	

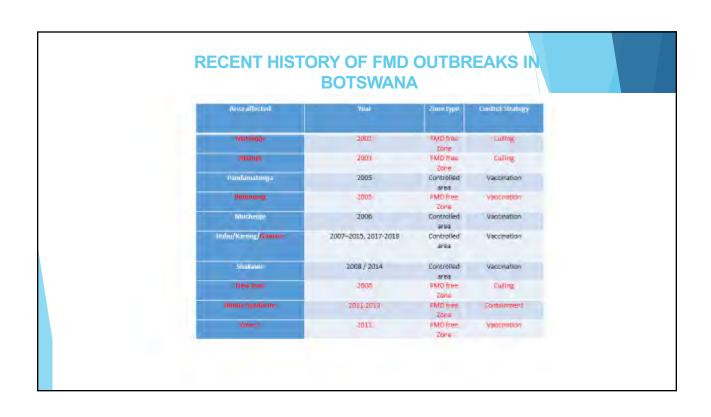
			Animal Species involved	Reservoir host	Zoonotic	Economic importance	
Trypanosomiasis	T. brucei, T.vivax, T.rhodesiensis	Tsetse flys	Wild animals & domestic animals	Wild animals	Man	Important	N
Theileriosis	T. parva T. mutans	ticks	Domestic cattle	buffalo	No	Important	N
vian influenza	Orthomyxovirus	Direct & indirect contact	Domestic birds Wild birds / waterfowls	Wild birds	Man	Important	N

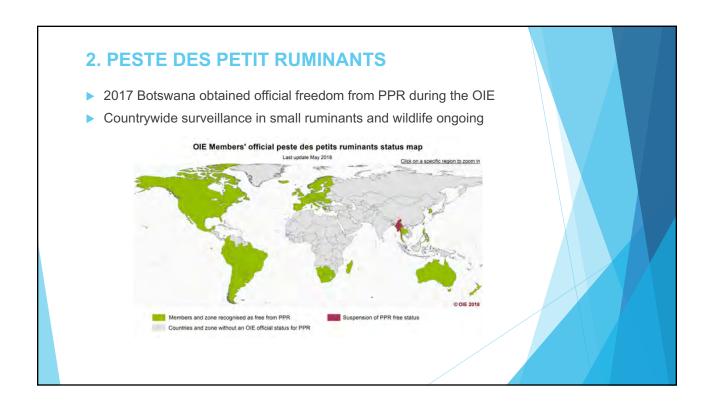
TRANSBOUNDARY ANIMAL DISEASES OF REGULAR CONCERN

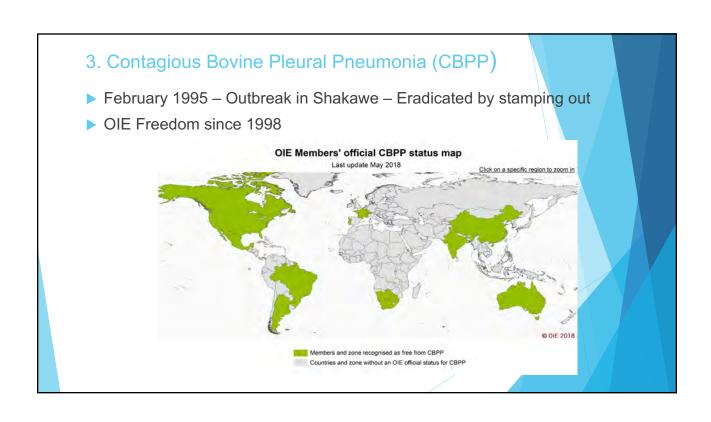
- 1. FOOT AND MOUTH DISEASE
- 2. PESTE DES PETIT RUMINANTS (PPR)
- 3. CONTAGIOUS BOVINE PLEUROPNEUMONIA (CBPP)
- 4. RABIES,
- 5. NEWCASTLE DISEASE/AI
- 6. BLUETONGUE
- 7. BRUCELLOSIS

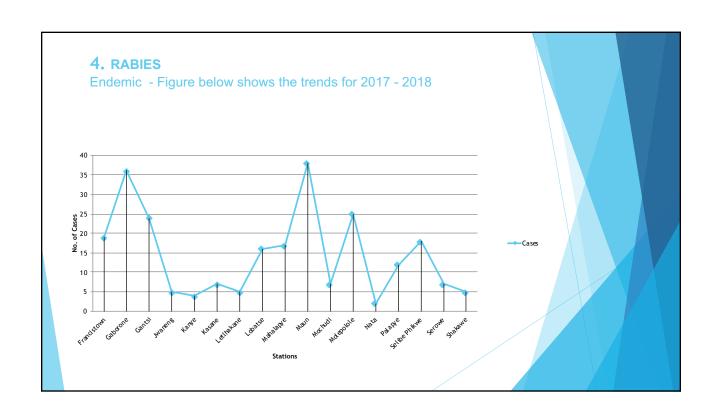
1. FOOT AND MOUTH DISEASE Disease Control Zones Recent History of FMD in Botswana OIE FMD Free zones 5 independent FMD free zones added to the already existing free zones (3b, 3c, 4a, 6, 7 [Recent addition]) Of Swindows Wildia PRD serious ray ON SWINDOWS SWI

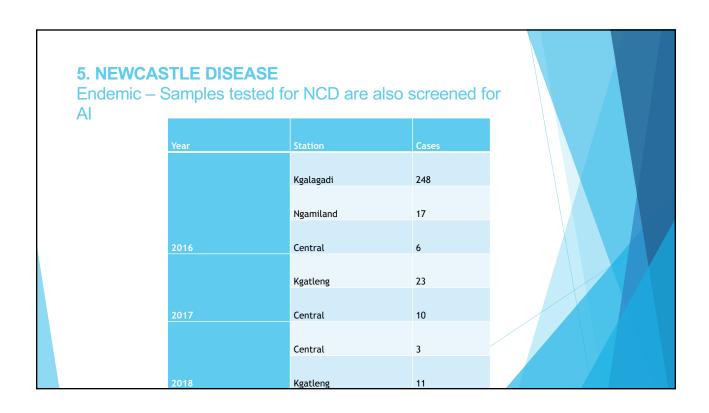












6. BLUETONGUE

► Endemic – Sporadic outbreaks





7. BRUCELLOSIS

Last annual vaccination in 2014 Since then – Sporadic cases reported as per table below (2015 -2018)

Area	Bovine	Caprine
Lobatse	1	0
Kasane	8	0
Molepolole	0	1
Total	9	1

CONCLUSION

- Disease threats are real and should not be underestimated
- ▶ Regular surveillance for early detection of disease outbreaks
- Control measures need to be sustained
- Information sharing for enhancing preparedness
- Research in diseases impacting animal health
- ▶ Climate change Insidious ecological extinctions

Quotable quote

- " It's impossible" said pride.
- " It's risky" said experience.
- " It's pointless" said reason

"Give it a try" whispered the heart.

- Anonymous