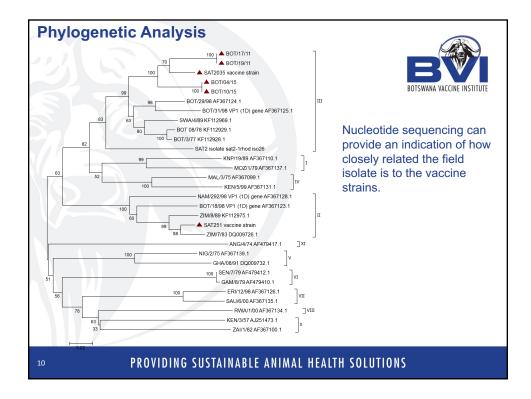


virus serotype	Number of observations per period			Total	RF <sup>1</sup> in percent
	2014	2015	2016 – 2017		(%)
Type SAT1	3	1	2	6	25.00
Type SAT2	3	10	2	15	62.50
Type SAT3	0	1	1	2	8.33
Туре О	0	0	1	1	4.67
Total observations	6	12	6	24	





## Vaccine matching

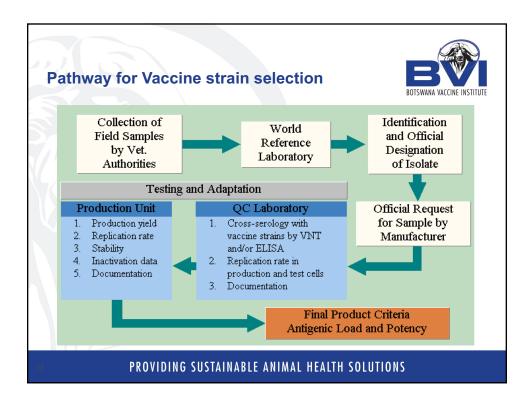
Test used = 2dVNT

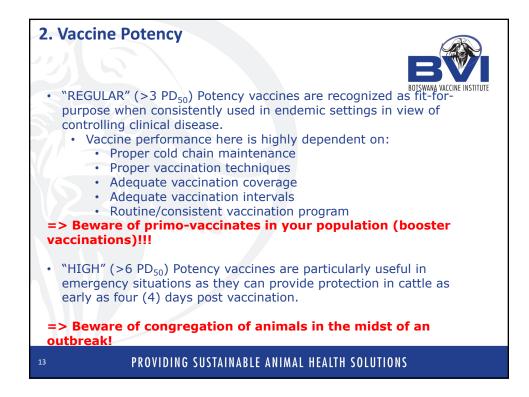


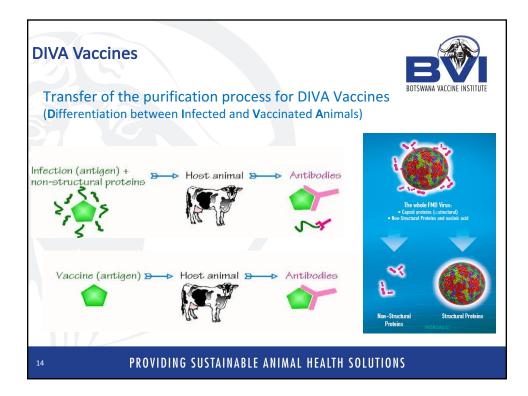
Relationship co-efficients (r-values) also provide an estimate of the likely crossprotection between a Vaccine Strain and a field isolate

Country	Field virus isolate	Vaccine virus strain	r1- value
Botswana	SAT1/BOT11/2015	SAT109	0.90
Botswana	SAT2/BOT15/2015	SAT251	0.49
		SAT2035	0.57
Botswana	SAT2/BOT21/2015	SAT251	0.73
Namibia	SAT2/NAM09/2015	SAT251	0.55
Namibia	SAT2/NAM20/2015	SAT251	0.48
Namibia	SAT1/NAM42/2015	SAT105	0.36
Zimbabwe	SAT2/ZIM17/2015	SAT251	0.82
		SAT2035	0.52

## PROVIDING SUSTAINABLE ANIMAL HEALTH SOLUTIONS









, )	nation Protoco		BOTSWANA VACCINE INSTITUTE	
		Primo Injection	Booster	
Cattle	From Non-Vaccinated Dams	dFrom 14 days old: 2 vaccinations 3 to 4 weeks apart	every 4 - 6 months	
	From Vaccinated Dams	at 2 months: 2 vaccinations 3 to 4 weeks apart		
	s impractical to follow u	up calves (primo vaccinates) in extensed and on vaccination coverage achieved	-	
⇒Bo	osters must be guided	by risk of contact with infectious host	(buffalo)	
RESC	OURCES!!! F	RESOURCES!!! RESOURC	ES!!!	
	PROVIDING SUS	TAINABLE ANIMAL HEALTH SOLUTIONS		

