

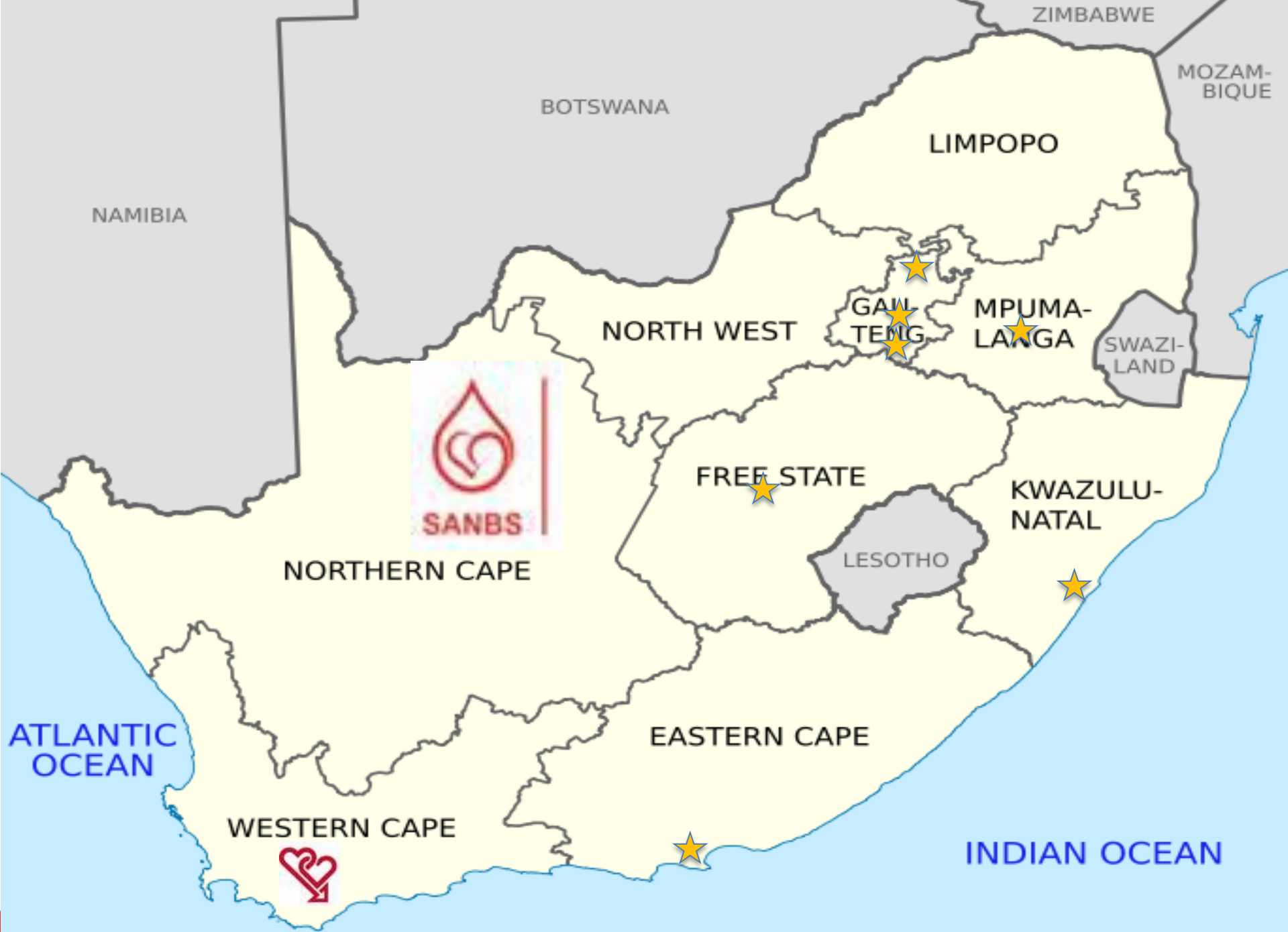
# **Maximizing Plasma Production from Whole Blood Collections**

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**South African National Blood Service**

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# SANBS collections (2014/5)



- Whole blood collections = 821 668
  - Fixed site donor centres = 83
  - Active mobile drives = 24 901 (cancelled = 7 415)
  - Km's covered = 2 640 000km
- Production
  - Red Blood Cells = 816 168
  - Whole Blood = 6 500
- ✓ % WB processed = 99.20%



# Number of African countries preparing components



Group A	
Country	%
Swaziland	100.00
Botswana	99.00
Namibia	98.70
Burkina Faso	98.40
South Africa	98.10
Cote d'Ivoire	86.20
Togo	72.20
Uganda	60.00
Rwanda	58.20
Eritrea	48.00
Mauritius	47.60
Benin	39.20
Kenya	30.80
Zimbabwe	22.30
Burundi	13.40
Zambia	2.00
Tanzania	1.70
Nigeria*	0.00

Group B	
Country	%
Central African Republic	100.00
Mozambique	99.50
Cape Verde	87.10
Sao Tome and Principe	85.20
Senegal	20.50
Algeria	9.00
Malawi	4.80

Group C	
Country	%
Gabon	100.00
Mauritania	100.00
DRC	45.00
Madagascar	38.60
Mali	30.40
Congo	20.50
Ethiopia	16.50
Niger	7.20
Cameroon	2.80
Ghana	2.60
Guinea	0.40
Chad	0.00
Gambia	0.00
Sierra Leone	0.00

Information adapted from “Status of Blood Safety in the WHO Africa Region” – Report of the 2010 Survey – J Tapco, B. Toure & L. Sambo

\* Only data from Abuja Blood Centre

# SANBS Production timeline



**15 000 litres  
NBI (Bioplasma)  
Cat. C, low titre**

**145 000 litres  
NBI**

**<6 hours  
11.91%**

**> 6 - 18 hours  
63.21%**

**18 - 24 hours  
93.88%**

**Remaining  
Cat. C & R  
FFP**

**All cats.  
FFP  
5 Zones**

**Quarantine**



# SANBS FFP Quarantine Programme



## SANBS QUARANTINE WAREHOUSE

Maximum period in quarantine = 84 days

Ave units : Unreleased = 39 000 to 42 000

Released = 9 000 to 12 000



Donor returns & tests negative

Donor does not return



Issued as DTPFF  
to 84 Blood Banks  
130 000 units pa.

Cryo production  
15 000 units pa

Plasma sent to  
NBI



# The Plasma Quarantine Warehouse



# The way forward



- Increase units processed within 24 hours from 93.88% to 99%
  - Review number of transport collections at donor centres
  - Review times of collections
  - Review production hours
- Reduce WB usage in KZN for cardiac surgery (3 500 units per annum)
- Review extent of centralisation of Processing Centres
  - Investigated possibility of automated processing in remote areas





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Thank you

