





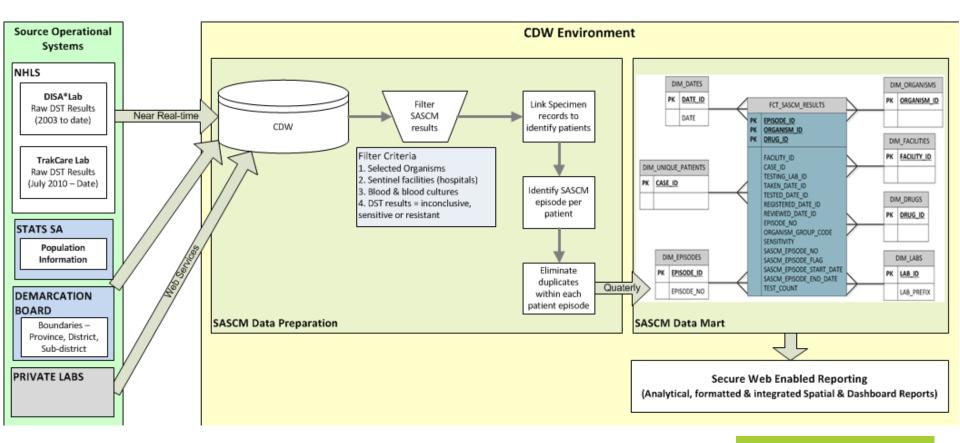




Data Warehouse - Surveillance Support

Sue Candy

Data Flows Supporting SASCM Reporting





CDW Capabilities

- Process +/- 300 million raw data records per month
- Record linking specimens to patients
- Surveillance alerts for select organisms (since 2007) SMS & eMail
- Daily HAI Reporting to the Western Cape
- Daily Malaria suspect list
- Weekly suspect lists to Provincial coordinators:
 - EID, TB GeneXpert, MDR/XDR
- Data feeds to NICD for Measles, Germs SA, Hepatitis, etc
- Data preparation for NCR coding database (including Lancet data)
- Reporting analytical, formatted, integrated spatial dashboard reporting is available





district level.











district level.







CCMT M&E Reporting

CCMT M&E Dashboard An online only, fully interactive CCMT M&E Dashboard.	
CCMT M&E - National A summarised downloadable, printable PDF version of the CCMT M&E Dashboard. This is run at a national level.	CCMT M&E - Provincial A summarised downloadable, printable PDF version of the CCMT M&E Dashboard. This is run at a province level.
Metric Information Metric library, including complete details around metrics, description	ons, impact, calculation and review considerations.
ARV Analytics Dashboard An online only, fully interactive specimen level ARV Analytics Das	:hboard.
CD4 by Province A summarised downloadable, printable PDF version of the ARV Analytics Dashboard. It is run for CD4 at a provincial level.	VL by Province A summarised downloadable, printable PDF version of the ARV Analytics Dashboard. It is run for VL at a provincial level.
CD4 by District A summarised downloadable, printable PDF version of the ARV Applytics Dashboard. It is not for CD4 at a	VL by District A summarised downloadable, printable PDF version of the ARV Analytics Dashboard. It is run for VL at a





















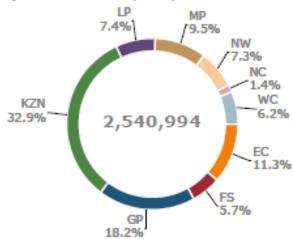




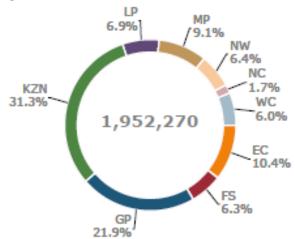
Summary indicators for CCMT M&E in SA

Period: from Q1 2012 to Q1 2014

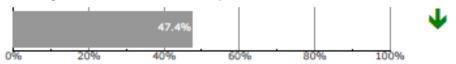
People on treatment (DHIS)



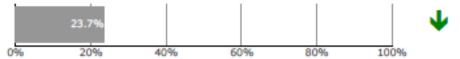
People with a VL test done in the last 12 months



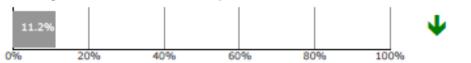
% People with CD4 tests done, with a CD4 count <= 350 cells/mm3



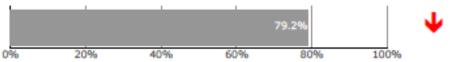
% People with CD4 tests done, with a CD4 count <= 200 cells/mm3



% People with CD4 tests done, with a CD4 count <= 100 cells/mm3



% People in care and on ART with a VL <= 1000 copies/ml



% Children < 5 years infected by vertical transmission



% HIV+ people in care and on ART, who have a VL done at least annually

























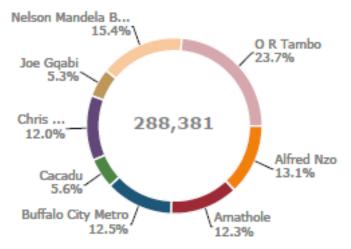




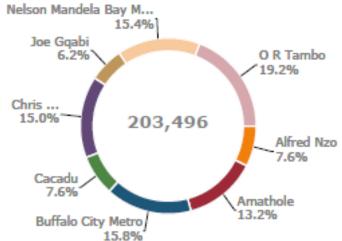
Summary indicators for CCMT M&E in Eastern Cape (EC)

Period: from Q1 2012 to Q1 2014

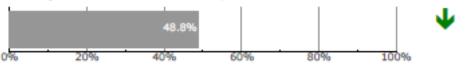
People on treatment (DHIS)



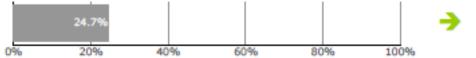
People with a VL test done in the last 12 months



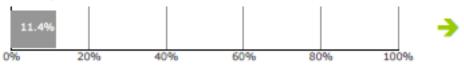
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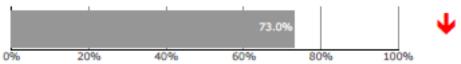
% People with CD4 tests done, with a CD4 count <= 200 cells/mm3



% People with CD4 tests done, with a CD4 count <= 100 cells/mm3



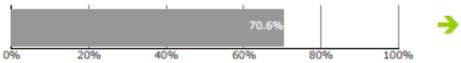
% People in care and on ART with a VL <= 1000 copies/ml

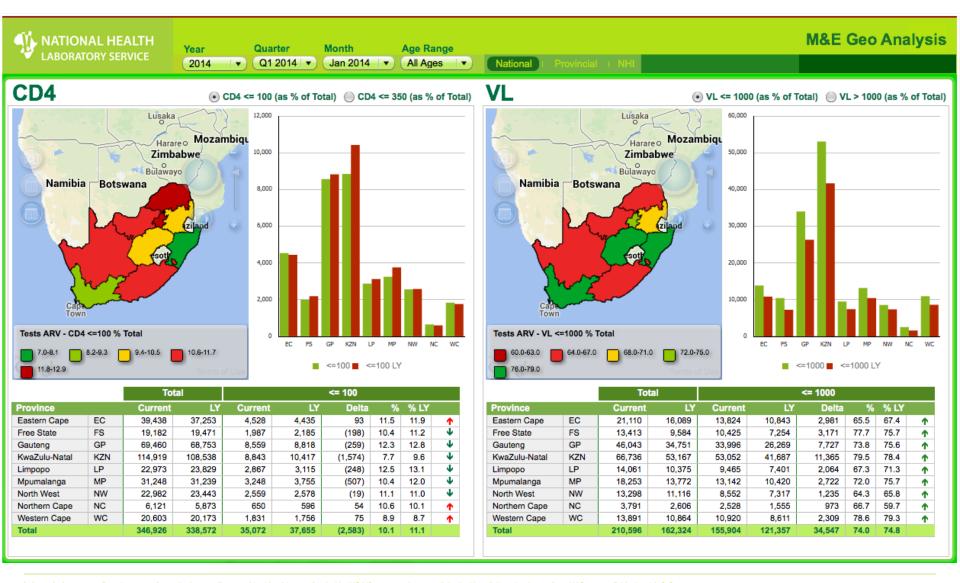


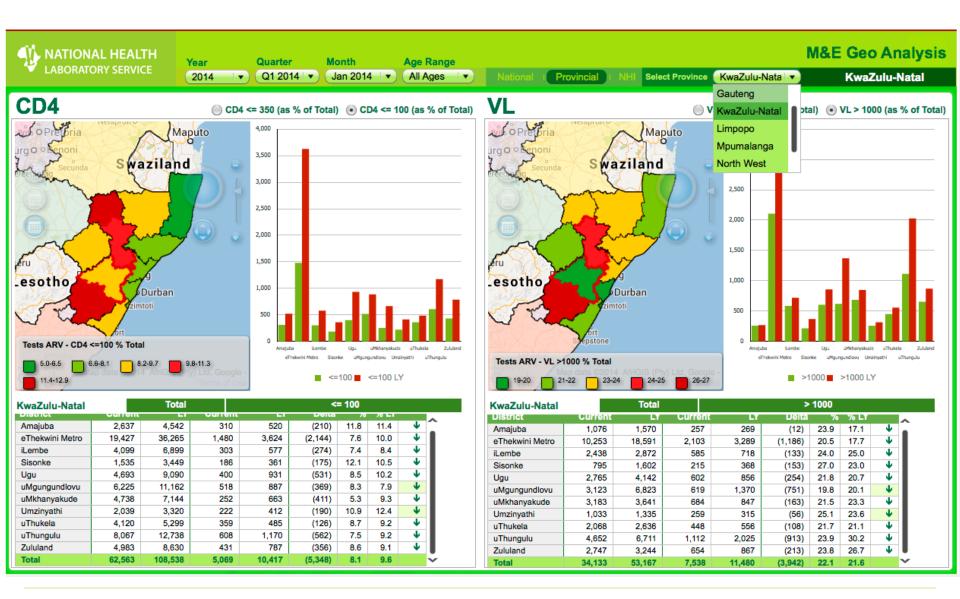
% Children < 5 years infected by vertical transmission

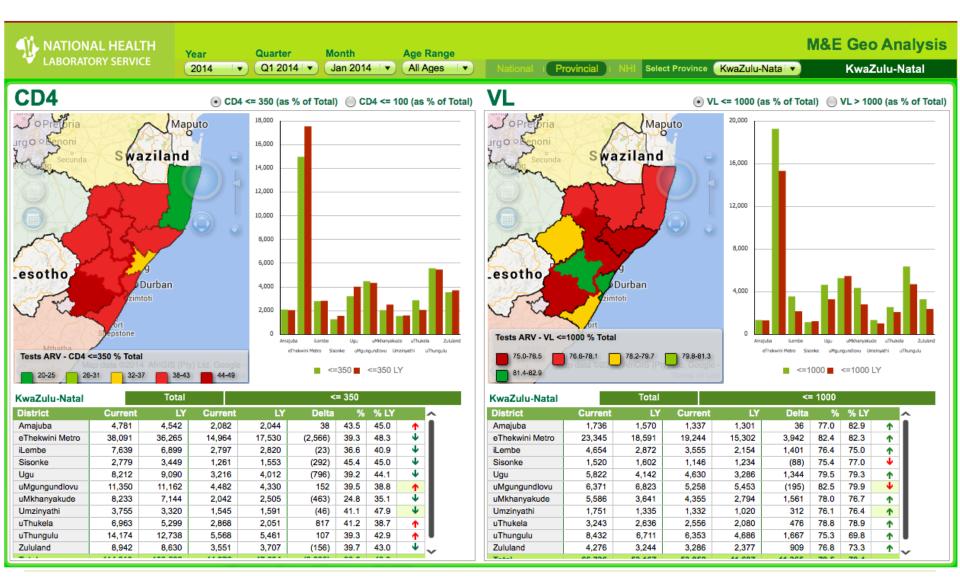


% HIV+ people in care and on ART, who have a VL done at least annually























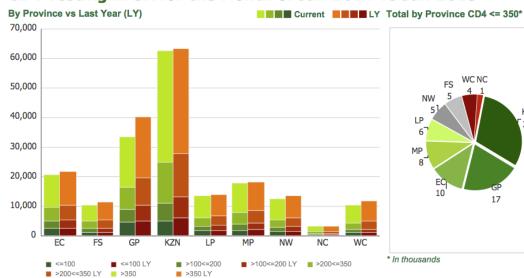


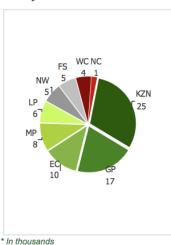


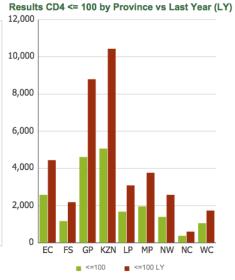




CD4 Testing in SA for the Month of Jan 2014 vs Jan 2013







Results by Range by Province vs Last Year (LY)

	Total		<= 100				> 100 <= 200				> 200 <= 350				> 350				YTD		
Province		Current	LY	Current	%	LY	% LY	Current	%	LY	% LY	Current	%	LY	% LY	Current	%	LY	% LY	YTD	LY
Eastern Cape	EC	20,659	37,253	2,579	12.5	4,435	11.9	2,604	12.6	4,811	12.9	4,558	22.1	8,598	23.1	10,918	52.8	19,409	52.1	20,659	37,253
Free State	FS	10,548	19,471	1,165	11.0	2,185	11.2	1,310	12.4	2,462	12.6	2,472	23.4	4,766	24.5	5,601	53.1	10,058	51.7	10,548	19,471
Gauteng	GP	33,613	68,753	4,593	13.7	8,818	12.8	4,341	12.9	8,927	13.0	7,617	22.7	16,078	23.4	17,062	50.8	34,930	50.8	33,613	68,753
KwaZulu-Natal	KZN	62,563	108,538	5,069	8.1	10,417	9.6	6,191	9.9	12,060	11.1	13,530	21.6	25,127	23.2	37,773	60.4	60,934	56.1	62,563	108,538
Limpopo	LP	13,436	23,829	1,702	12.7	3,115	13.1	1,623	12.1	3,110	13.1	2,820	21.0	5,623	23.6	7,291	54.3	11,981	50.3	13,436	23,829
Mpumalanga	MP	17,722	31,239	1,972	11.1	3,755	12.0	1,998	11.3	3,780	12.1	3,924	22.1	6,973	22.3	9,828	55.5	16,731	53.6	17,722	31,239
North West	NW	12,491	23,443	1,398	11.2	2,578	11.0	1,448	11.6	2,755	11.8	2,633	21.1	5,270	22.5	7,012	56.1	12,840	54.8	12,491	23,443
Northern Cape	NC	3,343	5,873	371	11.1	596	10.1	395	11.8	701	11.9	720	21.5	1,297	22.1	1,857	55.5	3,279	55.8	3,343	5,873
Western Cape	WC	10,223	20,173	1,036	10.1	1,756	8.7	1,110	10.9	2,141	10.6	2,232	21.8	4,699	23.3	5,845	57.2	11,577	57.4	10,223	20,173
Total		184,598	338,572	19,885	10.8	37,655	11.1	21,020	11.4	40,747	12.0	40,506	21.9	78,431	23.2	103,187	55.9	181,739	53.7	184,598	338,572

CD4 is represented as cells x 10 6 per ml

















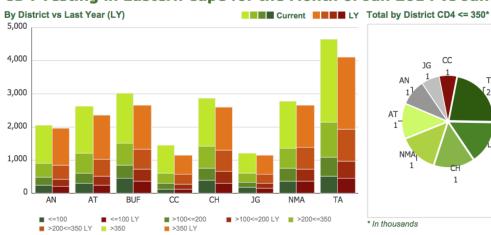


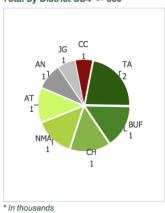


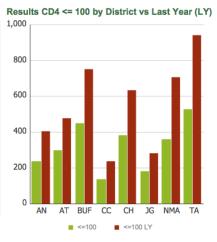




CD4 Testing in Eastern Cape for the Month of Jan 2014 vs Jan 2013







Results by Range by District vs Last Year (LY)

Total			otal	<= 100			> 100 <= 200					> 200	<= 350		> 350				Year to Date		
District		Current	LY	Current	%	LY	% LY	Current	%	LY	% LY	Current	%	LY	% LY	Current	%	LY	% LY	Current	LY
Alfred Nzo	AN	2,058	3,900	236	11.5	404	10.4	258	12.5	462	11.8	409	19.9	833	21.4	1,155	56.1	2,201	56.4	2,058	3,900
Amathole	AT	2,637	4,701	297	11.3	480	10.2	319	12.1	535	11.4	581	22.0	1,021	21.7	1,440	54.6	2,665	56.7	2,637	4,701
Buffalo City Metro	BUF	3,011	5,314	451	15.0	753	14.2	393	13.1	695	13.1	653	21.7	1,197	22.5	1,514	50.3	2,669	50.2	3,011	5,314
Cacadu	CC	1,443	2,328	139	9.6	239	10.3	162	11.2	313	13.4	297	20.6	588	25.3	845	58.6	1,188	51.0	1,443	2,328
Chris Hani	СН	2,855	5,206	384	13.5	634	12.2	387	13.6	720	13.8	643	22.5	1,218	23.4	1,441	50.5	2,634	50.6	2,855	5,206
Joe Gqabi	JG	1,217	2,294	184	15.1	281	12.2	147	12.1	308	13.4	290	23.8	538	23.5	596	49.0	1,167	50.9	1,217	2,294
Nelson Mandela Bay Metro	NMA	2,781	5,318	360	12.9	704	13.2	390	14.0	755	14.2	609	21.9	1,317	24.8	1,422	51.1	2,542	47.8	2,781	5,318
O R Tambo	TA	4,657	8,192	528	11.3	940	11.5	548	11.8	1,023	12.5	1,076	23.1	1,886	23.0	2,505	53.8	4,343	53.0	4,657	8,192
Total		20,659	37,253	2,579	12.5	4,435	11.9	2,604	12.6	4,811	12.9	4,558	22.1	8,598	23.1	10,918	52.8	19,409	52.1	20,659	37,253

CD4 is represented as cells x 106 per ml

A single AMR Surveillance Repository

Potential challenges

- Acquisition (mechanics) of private data
- Merging private data with public data
 - Granularity of information i.e. level of detail
 - Agreement re: inclusion:
 - Specimen type
 - Pathogens
 - Drugs
 - Mapping of codes relating to tests, facilities, pathogens, drugs, etc

Opportunities offered by CDW

Infrastructure

- Specialist big data analytics server
- Specialist analytical and geospatial reporting software
- Reports available securely on-line

Short Term Opportunities

- Have data for +/- 80% of the population
- Expand case based reporting as done for SASCM to broader surveillance reporting e.g. ESKAPITATIONA GERMS SA, Measles etc

Opportunities cont....

Medium Term

- Some clinical information is captured in an unstructured way in the LIS. Investigate the usefulness of this information
- Inclusion of additionally captured clinical data discussions with Measles group
- Inclusion of private information



Way forward

- Decision re: hosting of single repository
- Define reporting requirements standardise & agree:
 - Sentinel sites
 - Organisms
 - Antibiotics
- Framework for data sharing & necessary agreements
 - Public/Private
- Formation of a working group to drive implementation

