



Southern African Association for Institutional Research

Foundations of Institutional Research 2015

Principles of Data Quality and Use of the Enterprise Data Warehouse at Wits



Presented by Kevin McLoughlin

1

Purpose of this session

- The purpose of this session is to **give you a Whistle stop tour of Wits' information infrastructure, data quality processes and how we use information for strategy, integrated planning and performance monitoring;**

Content

- Overview of Wits
- Data Warehouse and HEMIS Infrastructure
- Data Quality Processes
- Usage of Information
 - Corporate Performance Management
 - Strategy Implementation through Integrated Planning



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Overview of Wits

- 32000 students and 4000 staff (± 1200 perm academics)
- Federated structure – 5 autonomous faculties and 34 schools; Each faculty has own HR Manager, Business Manager and Faculty Registrar reporting to the Dean
- Functional system specialists (central process owners) – AISU, HRIS, FINIT
 - Responsible – system, training, reporting, data quality
- BIS responsible for data integration (EDW), models, integrated stats, trends, predictive analytics and HEMIS
- Systems – Oracle Financials and HR, Peoplesoft Campus Solutions (SIMS) with bespoke HEMIS functionality
- Data Warehouse – Integrate data using Oracle Data Integrator, CDC technology. Reporting using OBIEE, Business Objects, QlikView and Discoverer



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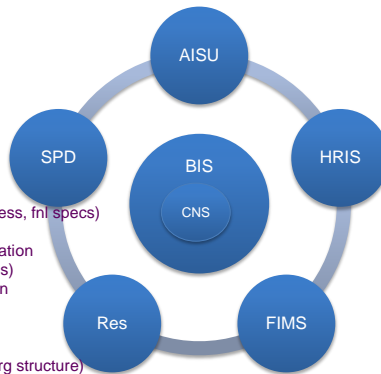


BIS Partners Responsibilities

Process Owners
(Source Systems)
HRIT, AISU, FIMS, RIMS

- Functionality
- Configuration
- Customisation
- Maintenance
- User Training
- Documentation (internal process, fnl specs)
- Data Dictionary
- Business Process Implementation
- Data Quality (Mandatory fields)
- Business Rule Implementation
- Report building and QA
- User Access
- Integration
- Hierarchy Synchronisation (org structure)

There should be standardisation of these
Functions across information areas – e.g. user access,
use of OLM for training etc



BIS

(Data Warehouse)

- Custodian of DW
 - Design
 - Populate
 - QA (=source)
- Inform Institutional performance vs targets
- Enrolment Planning
- Predictive analytics
- Studies (HS Application Strategy)
- Integrated trends & stats
- Models
- Dashboards
- Complex report support
- Portal
- HEMIS
- CRM
- User training

SPD

- Benchmarking
- Surveys
- Profiles (schools, faculty)
- Report writing & Interpretation
- Rankings
- External data sourcing (Scopus, Insights, Mouton)
- Fact Book
- Special Projects (Kresge)
- IR Studies

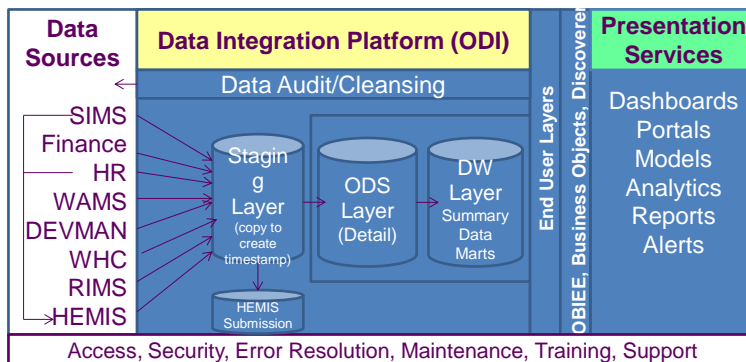


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Data Integration

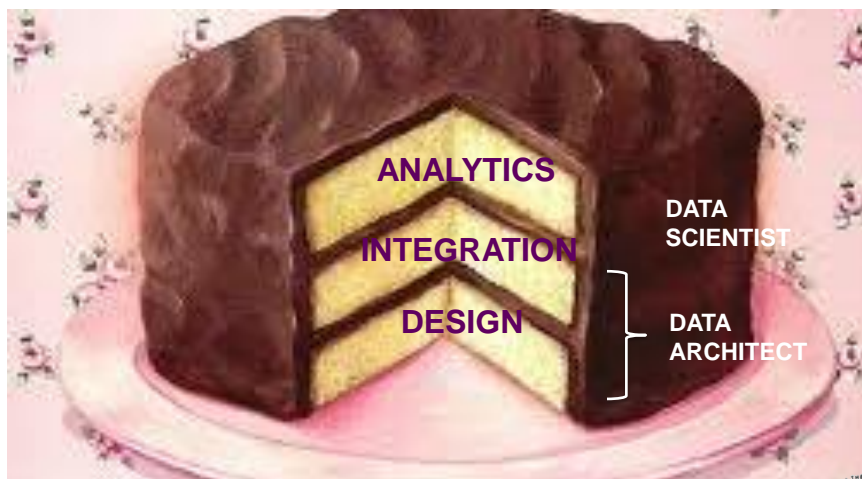
Wits Enterprise Data Warehouse



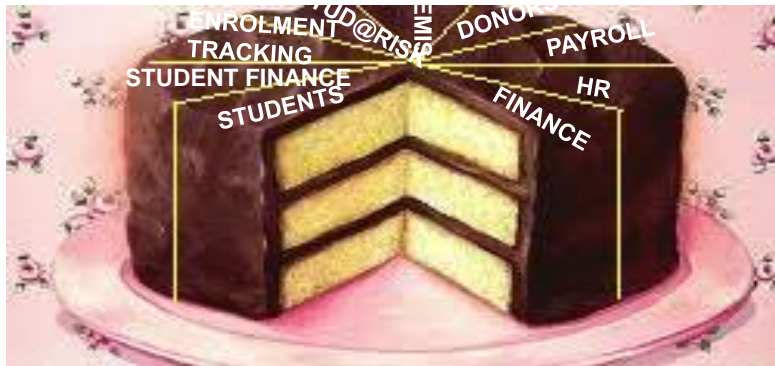
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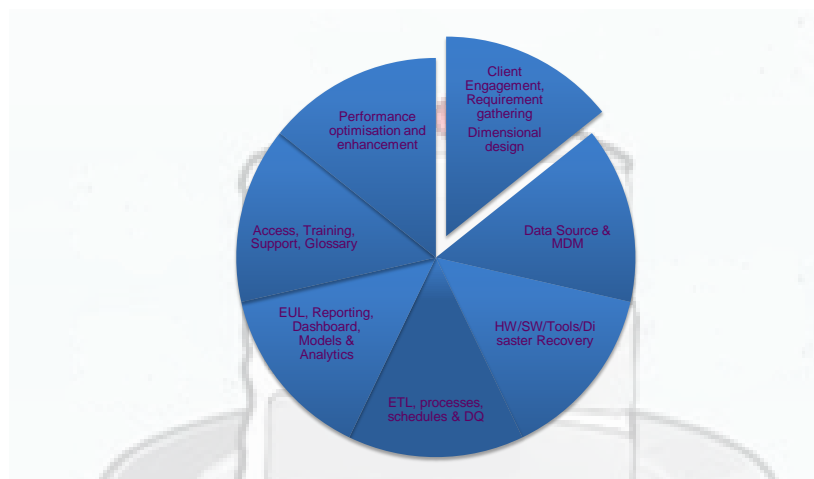
Data Warehouse Processes



Data Warehouse Data Marts



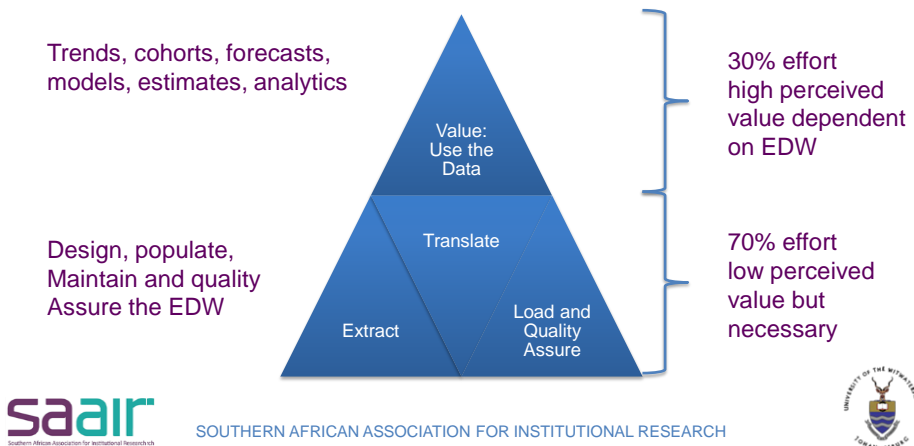
Data Mart Activities



Value Proposition

BIS Core Values

ROI
Responsiveness
Quality



Why is data quality important?

- Information is used for:
 - Planning and decision making
 - Resource allocation
 - Reward
 - Accountability
 - Censure and sanction
 - Accreditation
 - Subsidy

8 Dimensions of Quality

David Garvin

- **Performance:** can I access the information I need quickly and easily? Can you make new data available quickly to answer this important question?
- **Features:** can I manipulate and export the information?
- **Reliability:** is the information correct?
- **Conformance:** does the information meet my requirements?
- **Durability:** can I build trends and projections over time?
- **Serviceability:** can problems be rectified quickly?
- **Aesthetics:** can the information be interpreted easily? Do the visualizations enhance my understanding of the data?
- **Perceived Quality:** I am told the data is audited and correct, but it differs from the reality in my school?

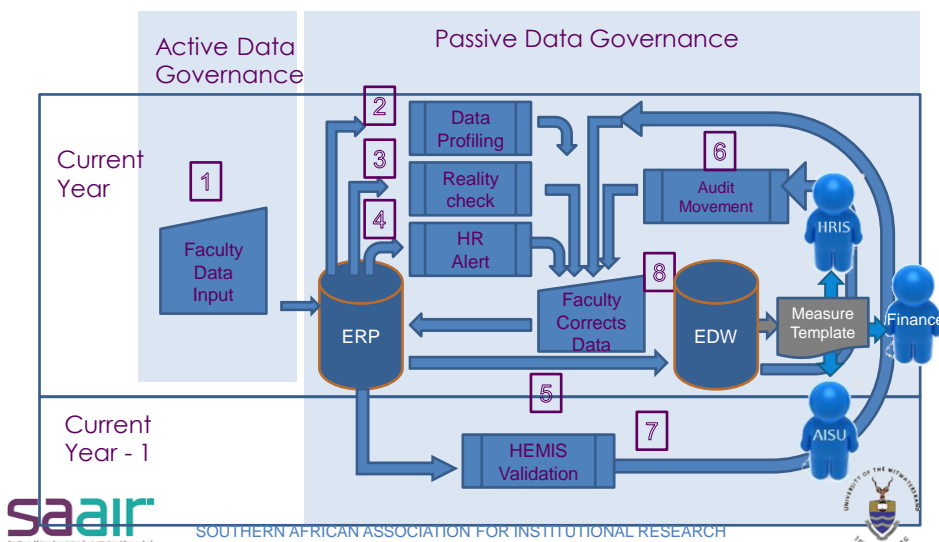
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Data Quality Processes

How we ensure that the data is correct



Measures Template

DEFINITION OF REPORT MEASURES AND RATIOS

Requestor: _____ Developer: _____ Date: _____

Report Name: _____ Report Description: _____

YEAR/S: ☐ Current (N) ☐ N-1 ☐ N-2 ☐ N-3 ☐ N-4 ☐ N-5

ENTITY: ☐ University ☐ Faculty ☐ Area ☐ School ☐ Dept. ☐ Other ☐ Specify Name: _____

STUDENT COMPONENTS

SNAPSHOT: ☐ HEMIS ☐ Current SIMS¹

OFFERING: ☐ Program² Specify Code: _____ ☐ Course Specify Code: _____

Plan³ Specify Name: _____

MEASURE TYPE: ☐ Column Heading or ☐ Numerator ☐ Denominator

MEASURE: ☐ Applications Received ☐ Distinct Applicants

Admissions ☐ Offers Made ☐ Distinct Offers Made

Enrolment ☐ Student Enrolment⁴ ☐ Students Qualified⁵

HEMS ☐ Student Headcount ☐ Student FTE⁶ ☐ Credit FTE⁷

☐ TU⁸ ☐ TOU ☐ ROU

Course ☐ Course Enrolment ☐ Course Pass Percentage⁹ ☐ Inc. Failed Absent¹⁰ ☐ Inc. Sub¹¹ ☐ Inc. S¹²

Cohort: ☐ Throughput: PG cohort ☐ Throughput: US Cohort ☐ Occasional

STUDENT TYPE: ☐ Undergraduate ☐ Postgraduate ☐ PG Research Area Specify Desc: _____

☐ Part-Time ☐ Full-Time ☐ Inc. block release¹³

☐ All YOS ☐ YOS 1 ☐ YOS 2 ☐ YOS 3 ☐ YOS 4 ☐ YOS 5 ☐ YOS 6

☐ New to program¹⁴ ☐ Returning/excluding new to program ☐ New to program & returning

☐ All students ☐ New to Wits ☐ Returning

☐ New to Wits & YOS1 ☐ New to Wits excl. YOS 1

☐ New to Wits Current Matic ☐ New to Wits Part Matic ☐ New to Wits Mature Age

☐ New to Wits International ☐ New to Wits Occasional ☐ New to Wits Unknown

☐ First time entering tertiary

POSTGRAD: ☐ PG Diploma ☐ Honors

☐ All Masters ☐ Masters by coursework and Research ☐ Masters by Research

☐ PhD ☐ DSc

RACE: ☐ White ☐ Black ☐ Coloured ☐ Indian ☐ Chinese ☐ African

GENDER: ☐ Female ☐ Male

FINANCIAL AID: ☐ NSFAS ☐ All Financial Aid including NSFAS

ACCOM: ☐ Residence Students ☐ Non-residence Students

LOCAL/INT: ☐ South African ☐ Inc. students with permanent residence ☐ International

☐ International ☐ Inc. students with permanent residence

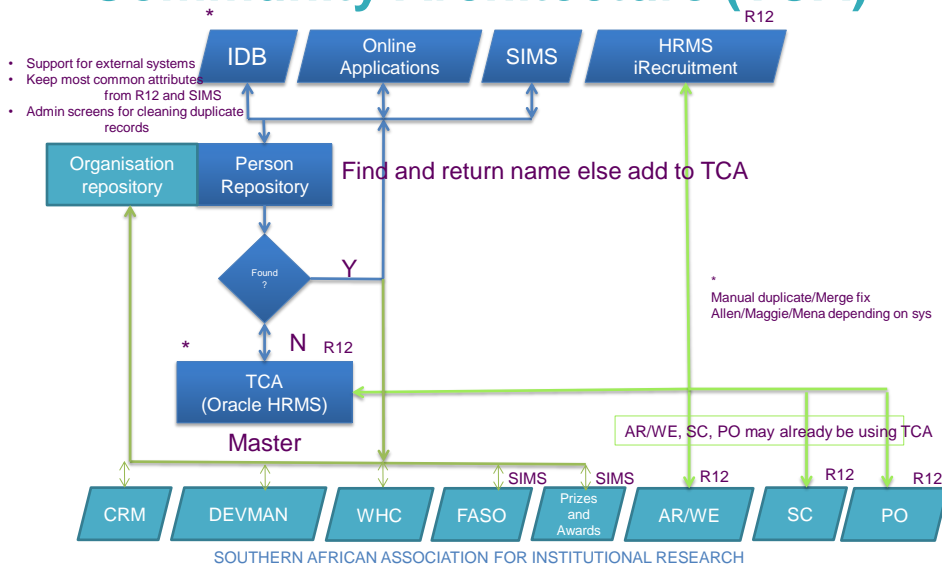
☐ SADC ☐ Inc. South Africa ☐ Non-SADC ☐ Rest of Africa ☐ Excl. SADC

☐ All other International ☐ Excl. Africa

Stages of Data Maturity (Wits)

- Disconnected islands of technology – disputes over figures
- HEMIS validation done on prior years data
- Implementation of an integrated ERP
- Implementation of an Enterprise Data Warehouse – single version of the truth
- Data profiling and data discrepancy reports – daily data cleansing
- Process agreed with partners (AISU, HRIS, FINIS, Research Office) to fix data
- HEMIS validation includes current years data
- Near real time and in process BI – enrolment planning
- Next round – integrate disconnected systems to give a 360 view of external organisations (fundraising)

Person Repository and Trading Community Architecture (TCA)



Data Management Challenges

- ERP hierarchies get out of sync
- Wits may regard a staff member as an academic (e.g. DVC) whereas they are not an academic (to HEMIS rules (internal view differs from HEMIS view))
- Staff member is allocated to an organisation and derives his/her CESM from the organisation. An academic may belong to a support organisation which does not have a CESM
- Technician roles are defined on HEMIS as academic support but some do teaching
- Not all fields are mandatory – missing values
- Defaulted values that are not captured (e.g., PCS template)
- Joint staff – update the province but not Wits

How we use the data....

- Corporate Performance Management
 - Strategy
 - Target Setting
 - Monitoring
- Implementation
 - Integrated Planning
 - In process BI



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Corporate Performance Management

- Wits 2022 Strategic Framework
- School Portal
- Dashboards and Targets
- Efficiency Ratios - benchmarking
- Heads of School Executive Summary
- Deans Executive Summary
- SET Executive Summary*
- VCO Dashboard (Institutional Scorecard)
- Research Dashboard*
- Financial Dashboard*
- Quinquennial Reviews
- Ranking statistics - THES



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Corporate Performance Management

Strategic Framework – Objectives for 2022



Corporate Performance Management

SCHOOL PORTAL: Access to Information

[Home](#)
[Dashboard](#)
[Quinquennial Review](#)
[HR/IR Information](#)
[Finance Information](#)
[Integrity Assurance](#)
[Students](#)
[Services & Support](#)
[Contacts](#)
[Glossary](#)
[Research](#)
[DVC Portfolios](#)
[International Office](#)
[CCDU](#)
[Other Internal Links](#)
[External Links](#)

[Intranet Home](#) > [Support Services](#) > [Business Intelligence Services](#) > [Head of School](#) > Home
 [Print this page](#)

Welcome to the Head of School Portal

Welcome to the HoS portal. This portal has been created for your convenience. The data presented are the most up to date datasets as they appear in the BIS system. We are aware that some of the data is not entirely correct and we have designed this portal in such a way that you can not only look at all the relevant information for your school, but that you can also help us check all data sets on their correctness, so that, together, we can continue to improve the information systems at Wits.

Quick Links

- [Human Resources & Finance Reports](#)
- [Student Reports](#)
- [Oracle BIEE Dashboard](#)
- [Wits QQR](#)
- [Audit Reports](#)
- [Information & Training Requests](#)
- [Hemis](#)

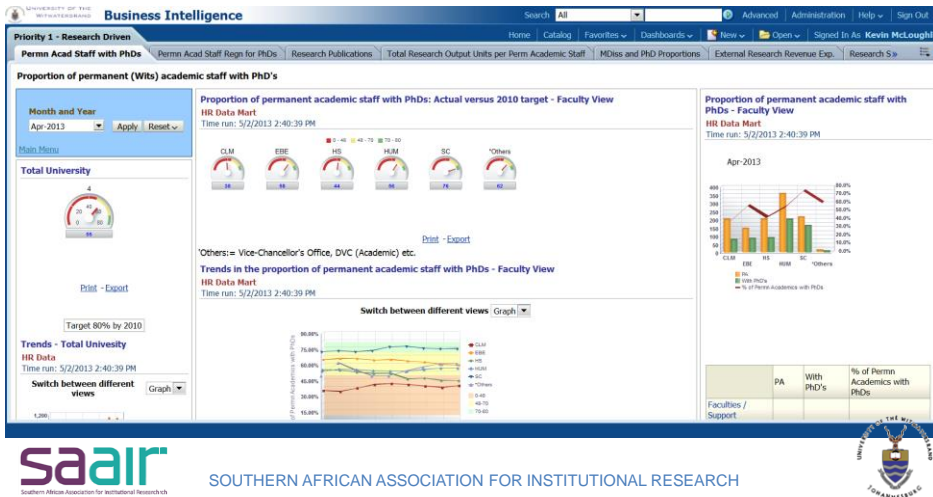
Access to Dashboard
Operational and
Management Reports (HR,
Students, Finance)

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UNIVERSITY OF THE WITWATERSRAND
JOHANNESBURG

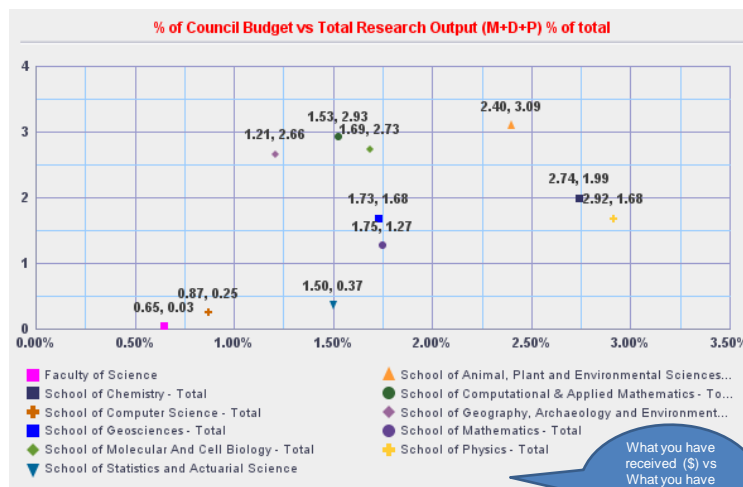
Corporate Performance Management

DASHBOARD: Monitoring Performance against Target



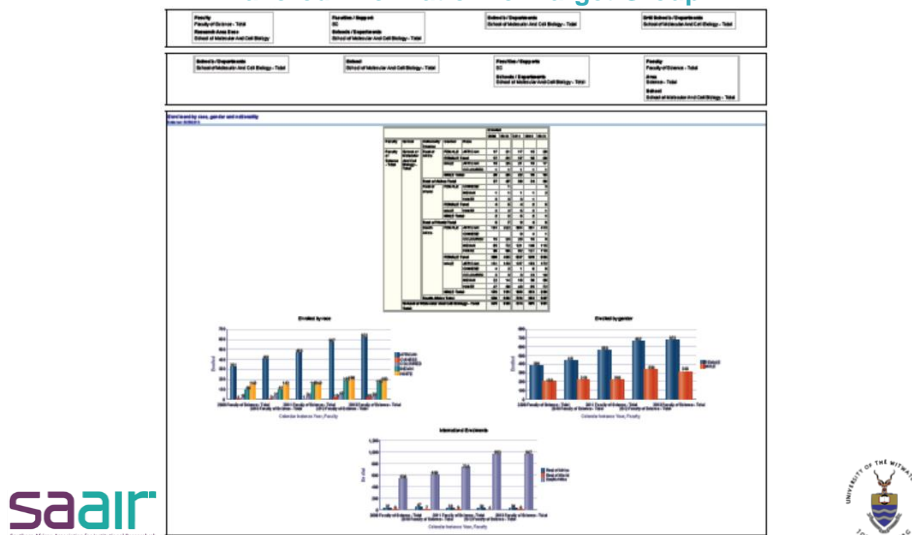
Efficiency Ratios

Benchmarking against other schools in faculty



Heads of School – Executive Summary

Tailored Information for Target Group



Quinquennial Reviews

Monitoring School Performance - 5 Years

TAB	Details
1 Permanent Academic Staff with PhDs	Report shows the headcount of the permanent academic staff the % of these staff that have a PHD. Please note that if the qualification records has not been captured on the system then the staff member will not be counted as having a PHD
2 Total Staff FTE - summary	This report provides a total of the staff FTEs for the school. Please note there are 2 columns for the FTEs 1. Staff Fte Univ (excl Hosp & Registrars) - used for internal reporting 2. Staff Fte Univ (excl Hosp Only) - used for reporting to DOE
3 Academic Staff FTE	This report provides a total ACADEMIC of the staff FTEs for the school. There is a summary as well as the details of all staff members that contributed to the total academic staff FTE
4 Support Staff FTE	This report provides a total SUPPORT of the staff FTEs for the school. There is a summary as well as the details of all staff members that contributed to the total support staff FTE
5 Number of Promotions	This reports list the staff that have been promoted in the school by academic session. For support staff if there has been a grade change to a higher grade then this is classified as an promotion. Staff Headcount data used.
6 Staff Age Profile	This report provides the staff age profile. There are 2 reports that shows totals by academic and support and totals for each age group. If you require the other totals that are not presented in the report please contact the BIS team
7 Staff Gender / race profile	This report provides the staff gender/race profile. There are 2 reports that shows totals by academic and support and totals for each gender/race group. If you require the other totals that are not presented in the report please contact the BIS team
8 Academic Staff with Highest Qualification	This report has a summary of the no. of qualifications of staff within a qualification type. Only the records with completed - highest status are considered for the totals.

Strategy - Implementation

- Formulate the Strategy
- Agree the Targets
- Align resources with objectives through integrated planning
- Monitor performance within the process



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Integrated Planning and Performance Management

How we use the data



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DHET Enrolment Planning

Agreement of macro targets to 2019



SECTION B: FULL-TIME EQUIVALENT (FTE) STUDENT ENROLMENTS

CONTACT STUDENTS: FTE ENROLLED TOTALS																				
Actual enrolments							Ministerial approved target 2013						Planned/prospected enrolment							
	2006	2007	2008	2009	2010	2011	Average annual increase 2006-2011	Actual 2009	Actual 2010	Projected target 2011	Projected target 2012	Projected target 2013	Average annual increase 2009-2013	Proposed target 2014	Proposed target 2015	Proposed target 2016	Proposed target 2017	Proposed target 2018	Proposed target 2019	Average annual increase 2014-2019
Total undergraduate	14593	14810	14800	17805	17313	16394	3.1%	17805	17313	17221	17201	16640	-0.8%	16609	16952	16864	16976	16976	16976	0.1%
Postgraduate to master's level	551	551	551	551	551	551	0.0%	551	551	551	551	551	0.0%	551	551	551	551	551	551	0.0%
Doctors	38	38	38	38	38	38	0.0%	38	38	38	38	38	0.0%	38	38	38	38	38	38	0.0%
Total postgraduate	589	589	589	589	589	589	0.0%	589	589	589	589	589	0.0%	589	589	589	589	589	589	0.0%
TOTAL ENROLMENT	15182	15399	15389	18394	17902	16983	3.1%	18394	17902	17810	17790	17229	-0.8%	17198	17541	17453	17565	17565	17565	0.1%

	Actual enrolments						Ministerial approved target 2013					Planned/prospected enrolment							Average annual increase 2014-2019
	2006	2007	2008	2009	2010	2011	Actual 2009	Actual 2010	Projected target 2011	Projected target 2012	Projected target 2013	Average annual increase 2009-2013	Proposed target 2014	Proposed target 2015	Proposed target 2016	Proposed target 2017	Proposed target 2018	Proposed target 2019	
Total undergraduate	14593	14810	14800	17805	17313	16394	17805	17313	17221	17201	16640	-0.8%	16609	16952	16864	16976	16976	16976	
Postgraduate to master's level	551	551	551	551	551	551	551	551	551	551	551	0.0%	551	551	551	551	551	551	
Doctors	38	38	38	38	38	38	38	38	38	38	38	0.0%	38	38	38	38	38	38	
Total postgraduate	589	589	589	589	589	589	589	589	589	589	589	0.0%	589	589	589	589	589	589	
TOTAL ENROLMENT	15182	15399	15389	18394	17902	16983	18394	17902	17810	17790	17229	-0.8%	17198	17541	17453	17565	17565	17565	

	Actual enrolments						Ministerial approved target 2013					Planned/prospected enrolment							Average annual increase 2014-2019
	2006	2007	2008	2009	2010	2011	Actual 2009	Actual 2010	Projected target 2011	Projected target 2012	Projected target 2013	Proposed target 2014	Proposed target 2015	Proposed target 2016	Proposed target 2017	Proposed target 2018	Proposed target 2019		
Total undergraduate	90%	88%	86%	86%	86%	87%	86%	86%	87%	87%	87%	89%	89%	89%	89%	89%	89%	0.1%	
Postgraduate to master's level	80%	78%	76%	76%	76%	76%	76%	76%	76%	76%	76%	83%	83%	83%	83%	83%	83%	0.1%	
Doctors	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	0.0%	
Total postgraduate	46%	46%	47%	46%	47%	47%	46%	47%	47%	47%	47%	50%	50%	50%	50%	50%	50%	0.1%	
TOTAL ENROLMENT	79%	78%	76%	76%	76%	76%	76%	76%	76%	76%	76%	79%	79%	79%	79%	79%	79%	0.1%	

Based on strategy and sets the context for annual enrolment

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Based on strategy and sets the context for annual enrolment planning

Enrolment Planning Model



- Estimate enrolments at program level
- With Deans, plan expected New UG/PG inputs
- Estimate UG flow rates
- Estimate PG qualifications and dropouts per qualification type
- Derive total enrolment picture
- Rollup to UNIV level
- Enrol>HC>FTE>TIU
- Compare Rollup to DHET TIU target (DVC: Academic)
- Iterate until bottom up and top down satisfy targets
- Faculty targets feed into registration process

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Budgets and Scenarios



- Faculty budgets
 - Based on enrolment plan
 - Generated at course level
 - Estimate income to be generated
- MTEF Scenarios
 - Given sector allocations for input, output, research
 - Based on current statistics
 - What is Wits' likely share of subsidy



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Sustainable Finance Model



- Guides budget allocations to faculties and support services
- Agreed Support/Academic split
- Agreed levels of cross subsidization
- Agreed levels of strategic funding
- Attribution of costs
 - Staff related
 - Student related
 - Space related
- Guide for one line budget given to faculties
- Faculties split to schools



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Sustainable Finance Model



SUSTAINABLE STRATEGIC FINANCE MODEL						
2010 ANNUAL BUDGET						
TOTAL	CLM	EBE	HSC	HUM	SCI	TOTAL
BASIS	TAX					
722 855 527 SUBSIDY FORMULA	-10702 920	-18 752 950	-85 525 590	-348 705 412	-363 650 802	-722 855 527
-363 650 802 SUBSIDY FORMULA	-257 855 527	-53 800 000	-42 500 000	-21 000 000	-24 875 000	-363 650 802
855 525 525 SUBSIDY FORMULA	-244 435 525	-24 004 515	-35 847 888	-52 000 000	-55 695 835	855 525 525
-1086 577 347 SUBSIDY FORMULA	-262 345 835	-163 355 850	-234 768 080	-277 268 484	-255 271 660	-1086 577 347
-793 424 109 FACULTY BUDGET	-225 588 340	-122 248 584	-105 788 977	-185 331 684	-344 436 364	-793 424 109
-41 094 074 FACULTY BUDGET	-12 220 695	-11 305 331	-5 276 360	-13 632 396	-14 570 802	-41 094 074
-158 793 577 FACULTY BUDGET	-140 057 842	-49 000 000	-48 785 000	-23 776 365	-158 793 577	-158 793 577
-47 495 537 FACULTY BUDGET	-26 236 841	-4 454 175	-4 228 439	-8 095 395	-8 432 367	-47 495 537
1 059 255 858 FACULTY BUDGET	105 475 695	118 311 500	133 755 511	263 411 055	196 106 425	1 059 255 858
166 032 310 FACULTY BUDGET	16 455 695	18 311 500	21 755 511	40 367 055	30 366 100	166 032 310
146 106 177 FACULTY BUDGET	14 615 151	16 464 558	21 727 308	33 732 489	31 211 871	146 106 177
130 524 347 FACULTY BUDGET	13 052 443	-	48 785 000	42 491 514	-	130 524 347
-587 959 230	48%	4%	52%	81%	47%	52%
53 156 343	-896 166	4 276 687	24 538 885	11 331 224	13 815 532	53 156 343
-39 336 757 PRO-RATA FEES	-2 688 310	-2 071 703	-3 477 180	-4 764 245	-2 630 771	-39 336 757
9 670 714 GRANT ALLOCATION	1 927 435	3 387 338	5 096 034	3 356 441	6 466 367	9 670 714
3 818 438 BUDGET	2 634 671	3 794 360	5 095 325	8 033 645	4 360 130	3 818 438
25 255 434 BUDGET	2 702 042	12 466 743	6 395 794	4 156 363	6 015 736	25 255 434
10 074 743 UPF GENERAL ALLOCATION	2 702 042	12 466 743	6 395 794	4 156 363	6 015 736	10 074 743
-534 883 347	48%	4%	52%	81%	47%	52%
STRATEGIC DRIVER ADJ. FA	-247 156	-61 789	-	-123 578	432 523	-
2 515 436 STUDENT HEADCOLLOCATE	2 515 436	2 515 436	2 515 436	2 515 436	2 515 436	2 515 436
1 227 851 STUDENT HEADCOLLOCATE	1 227 851	1 227 851	1 227 851	1 227 851	1 227 851	1 227 851
81 079 546 STUDENT HEADCOLLOCATE	81 079 546	81 079 546	81 079 546	81 079 546	81 079 546	81 079 546
4 594 340 STUDENT HEADCOLLOCATE	4 594 340	4 594 340	4 594 340	4 594 340	4 594 340	4 594 340
27 534 436 STUDENT HEADCOLLOCATE	27 534 436	27 534 436	27 534 436	27 534 436	27 534 436	27 534 436
6 442 736 STUDENT HEADCOLLOCATE	6 442 736	6 442 736	6 442 736	6 442 736	6 442 736	6 442 736
3 895 395 STUDENT HEADCOLLOCATE	3 895 395	3 895 395	3 895 395	3 895 395	3 895 395	3 895 395
2 277 556 STUDENT HEADCOLLOCATE	2 277 556	2 277 556	2 277 556	2 277 556	2 277 556	2 277 556
1 695 625 STUDENT HEADCOLLOCATE	1 695 625	1 695 625	1 695 625	1 695 625	1 695 625	1 695 625
10 440 101 STUDENT HEADCOLLOCATE	10 440 101	10 440 101	10 440 101	10 440 101	10 440 101	10 440 101
14 107 343 STUDENT HEADCOLLOCATE	14 107 343	14 107 343	14 107 343	14 107 343	14 107 343	14 107 343
95 760 395 STUDENT HEADCOLLOCATE	95 760 395	95 760 395	95 760 395	95 760 395	95 760 395	95 760 395
46 741 482 STUDENT HEADCOLLOCATE	46 741 482	46 741 482	46 741 482	46 741 482	46 741 482	46 741 482
33 296 456 STUDENT HEADCOLLOCATE	33 296 456	33 296 456	33 296 456	33 296 456	33 296 456	33 296 456
54 354 848 STUDENT HEADCOLLOCATE	54 354 848	54 354 848	54 354 848	54 354 848	54 354 848	54 354 848
21 342 134 STUDENT HEADCOLLOCATE	21 342 134	21 342 134	21 342 134	21 342 134	21 342 134	21 342 134
195 781 288 STUDENT HEADCOLLOCATE	195 781 288	195 781 288	195 781 288	195 781 288	195 781 288	195 781 288
56 417 807 STUDENT HEADCOLLOCATE	56 417 807	56 417 807	56 417 807	56 417 807	56 417 807	56 417 807
9 709 644 STUDENT HEADCOLLOCATE	9 709 644	9 709 644	9 709 644	9 709 644	9 709 644	9 709 644
235 476 689 STUDENT HEADCOLLOCATE	235 476 689	235 476 689	235 476 689	235 476 689	235 476 689	235 476 689
235 730 360 STUDENT HEADCOLLOCATE	235 730 360	235 730 360	235 730 360	235 730 360	235 730 360	235 730 360
4 494 060 STUDENT HEADCOLLOCATE	4 494 060	4 494 060	4 494 060	4 494 060	4 494 060	4 494 060
7 124 380 STUDENT HEADCOLLOCATE	7 124 380	7 124 380	7 124 380	7 124 380	7 124 380	7 124 380

Attribution of income and costs; shows levels of cross subsidisation between faculties

Enrolment Targeting Process

- During Registration process:
 - Can faculty make an additional offer from waitlist?
 - Requires near real time stats
 - Online Registrations (flex curriculum from 2015)
 - All registrations forms (non online) captured same day

Enrolment Targeting



Please note: Only faculties that have provided targets at program level will be listed below. Filtered by VY03 - 3. Faculty(s) - LA01 Column Values

Timespan: 2010/11 & 2011/12

Wits University

Faculty	ICAM Counts		ICAM Counts Total	SHE Counts		SHE Counts Total	Targets		Targets Total
	New to Wits	Returning		New to Wits	Returning		New to Wits	Returning	
Faculty of Commerce, Law & Management - Total	927	338	1265	133	94	227	133	338	1670
Faculty of Engineering and the Built Environment - Total	1033	244	1277	148	94	242	148	244	1469
Faculty of Health Sciences - Total	586	78	664	67	20	87	67	78	754
Faculty of Humanities - Total	520	588	1108	101	63	164	101	63	2560
Faculty of Science - Total	4	207	211	0	11	11	0	11	1238
Grand Total	4268	1456	5724	450	283	733	450	733	7333

Enrolment Counts by Programs with Targets - Faculty View

Filtered by: LA01 Column Values

Timespan: 2010/11 & 2011/12

Faculty of Commerce, Law & Management - Total

				2019		2020		2021		2022		2023	
				ICAM Counts		SHE Counts		SHE Counts		SHE Counts		SHE Counts	
				New to Wits	Returning	New to Wits	Returning	New to Wits	Returning	New to Wits	Returning	New to Wits	Returning
Area	Program Title Desc	Program Code	Program Title										
Commerce - Total	General Academic 1st Bachelors Degree	C0000	Bachelor of Commerce	338	0	489	62	10	84	262	125		
		C0002	Bachelor of Commerce	0	0	0	0	0	0	0	0		
		C0005	Bachelor of Commerce	43	20	63	14	1	15	39	20		
		C0008	Bachelor of Accounting Science	478	63	541	3	13	16	478	63		
		C0010	Bachelor of Commerce	11	16	27	4	12	16	11	16		
		C0012	Bachelor of Commerce	3	2	5	7	1	8	3	2		
						892	268	1160	87	39	126	892	268
Commerce - Total Total				892	268	1160	87	39	126	892	268		
Commerce - Total	Professional 1st Bachelors Degree	L0010	Bachelor of Laws	252	268	520	130	138	268	252	268		
		L0011	Bachelor of Laws	0	0	0	0	0	0	0	0		
		L0012	Bachelor of Laws	376	60	436	0	26	26	376	60		
Professional 1st Bachelors Degree Total				628	228	856	130	26	156	628	228		
Law - Total Total				628	228	856	130	26	156	628	228		
Grand Total				1520	496	2016	217	65	282	1520	496		

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Enrolment Analysis

Debriefing Statistics



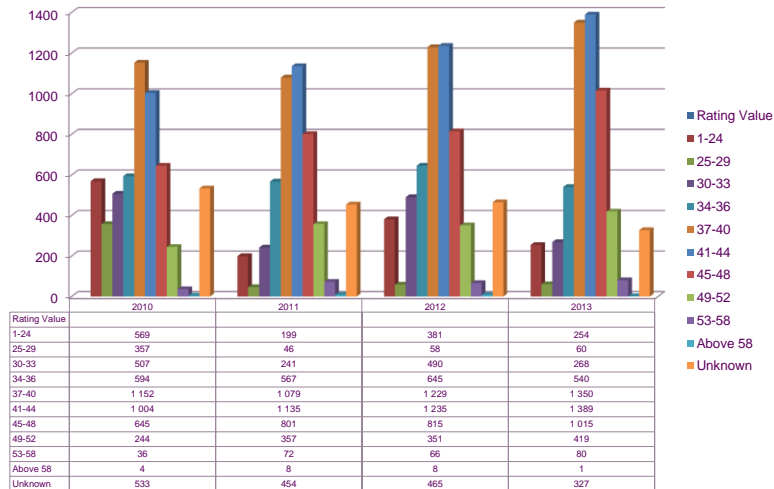
- Accept rate – applications versus firm offers
- UG applications by APS* band
- UG firm offers by APS band
- Applications, Offers and Registrations by Faculty
- New to Wits versus Returning
- New to Wits by APS band etc
- Admission Points Score – composite measure of matric performance

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New to Wits Undergraduate Student Enrolment by Admissions Points Score(APS) 2010-2013



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Note: the number of ALL (full time, part time, degree seeking and occasional) students YOS 1 NEW to Wits Undergraduates enrolled
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Early Warning System

BI in the teaching and learning process

Details will be presented by Innocent Mamvura

- Proactively identify students (1st years) at Risk
- Set up course structure in WAMS and capture marks
- Do snapshot from WAMS into Early Warning Data Mart
- Dedicated staff in faculties review students at risk
- Formulate and capture interventions
- At end of year BIS needs to correlate interventions with movements out of 'at risk' to determine which interventions lead to student success

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The End...

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