Best Practices in Financial Reporting for Higher Education

Overview From Counters to Communicators

Finance professionals have typically been the keepers and custodians of financial numbers for their institutions.

The rise of new challenges in higher ed:

- Flat enrollment
- Declining support from public sources
- Increased scrutiny and information demands from third parties, such as regulators, politicians, and parents

Have made the role of finance more important than ever.



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The Role of Finance is Changing

These new demands call for finance professionals to move beyond the traditional role of custodian of the numbers to a role as **Chief Story Teller** that puts the numbers into proper context for:

- Business managers
- Senior Leadership
- External parties

With the ability to accurately forecast performance and mitigate risk:

- Managing assumptions about the future
- Considering scenarios, running stress tests
- Managing planning processes with integrity

When finance professionals do this they become a Strategic Advisor to the Organization

- Strategic thinking with strong business acumen
- Bring a perspective that is risk aware, grounded in the numbers, and aligned with the mission and aspirations of the institution
- A trusted analytical partner for senior management to guide strategic decision making



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What Aspect to Reporting is Most Challenging?



Source: 2014 Axiom Performance Management Survey

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4 Best Practices in Financial Reporting for Higher Education

These 4 best practices will help you provide the insight to your business partners so they can make informed decisions



Know your Audience

Put the data into context

Allow users to interact with the data

Make Reporting Actionable



(1)

Know your Audience

Like any other author you need to consider the audience. In reporting an enterprise setting this entails these questions:

Who?

• First determine your major user groups

When?

- What is the proper cadence that each of your users groups needs the information
- Don't overburden them with too many reports; identify when it makes sense to give real-time updates vs. weekly/monthly/quarterly reports

How and Where?

- Deliver the information in the format that your audience uses most frequently
- Make them available where users will access them (PPT, mobile, etc)
- Use a variety of formats

What?

- Some users will need highly formatted, fixed reports. Others will use intuitive dashboards. Others will need ad hoc options.
- Ensure appropriate Key Performance Indicators (KPIs) are set and measured for the institution



Consider the information needs across the organization



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8



Know your audience

9

Ready for board presentation or external audiences

		PORTLANDIA UNIVERSITY						
	Welcome: Annette Flynn Home Page	Income & Expenditure Re						
	Trend Monitoring Report Source: All Funds Level 1: UCL	2011 Full Year Actual	2012 Full Year Actual	2013 YTD Actual	2013 Full Year Budget	2013 Full Year CY Forecast		
	INCOME Funding Council grants (110) Academic fees & support grants (120) Research mants and contracts (130)	379,655,857 674,153,904 382,383,051	382.609.840 671.081.732 385.888.451	271.111 92 327.95: 024 202.780,578	379,737,355 666,369,866 393,981,293	322.633.190 195.823.314 213.962.437		
Standard	-rating income (140) -ndowment income & int (150) Share of income from JV (160) 	305,472,260 526,485,840 2,360,694 2,270,511,607	301.079.632 550.736.675 2.331.950 2.293.728.280	179.130.218 440,743,925 (182.619) 1,421,540,218	293,193,273 585,766,307 2,276,315 2,321,324,411	218,785,960 441,015,019 1,060,921 1,393,280,841		
groupings and	EXPENDITURES							
nparison periods	Staff Costs Staff costs (210)	1,025,845,427	1,022,187,354	517,827,070	1,024,976,330	394,532,870		
	Total Staff Costs Non-Staff Costs Other operating expenditure (220)	1,025,845,427	1.022.187.354	517,827,070 241,235,322	1.024,976,330	394,532,870 226,307,563		
	Finance costs (230) Depreciation (240)	282,458,862 8,606,445	286,286,843 8,520,622	136,629,693 1,868,259	285,515,895 8,577,272	136,260,249 1,522,800		
	Total Non-Staff Costs Total Expenditures	880,583,405 1,906,428,833	880,077,126 1,902,264,480	379,733,274 897,560,344	877,484,980 1,902,461,311	364,090,613 758,623,483		
	Net Income	364,082,774	391.463.801	523,979,874	418.863.101	634.657.358		

Put the data into context

To be a good story teller requires more than a recitation of prior history. The data must be put into context

- Show data in a manner that allows for easy trend analysis
- Use targets that are based on both internal and external benchmarks
- For internal target
 - What are the assumptions that went into setting the target?
 - Who participated in the target setting and who approved it?

- Where available use external benchmarks. A few examples of available benchmarks
 - Credit Rating Agencies
 - IPEDS
 - Delaware Cost Study
- Financial data should be presented alongside operational data to help with context





Put the data into context

User options to drill into measure used in KPI calculations



Key Ratios report with credit agency benchmarks

Allow users to interact with the data

- In order to gain insight, users need to interact and explore the data. Reports should offer tools to facilitate user directed drilling and exploration
- Some reports will have a well defined drill path for users while others may need a more ad hoc approach
- This best practice naturally follows the previous two, when you know your audience and their concerns, and you have put the data into it's proper context, the users will want to drill, filter, and slice the report to enhance their understanding.



Labor Expense Variance report with Actual compared to Budget

End user option 🚺 Home 🛛 🛅 L6 Salary Variance Report 🛛 to define row NDIA FY 2014 orientation of report: Salary Variance by Org **Organization or Project** Current Period Actual Budget Variance \$ Variance % Actual 11001 School of Langs, Culture & Society 372 621 374 144 1 522 0.4% 2 207 215 2 166 790 -40 425 -1.8% 11002 Institute of the Americas 396,866 393,989 -2,878 -0.7% 2,476,280 2,478,048 1,767 0.1% 11004 The New Portlandia School 401.034 379.009 -22.025 -5.5% 2,480,888 2.282.004 -198.884 -8.0% 11005 10,416,217 -701,644 62,663,330 -4,041,902 -6.5% Div of Psychology & Language Scier 11,117,861 -6.3% 58,621,428 11006 The Ear Institute 1.968.669 2.077.626 108.957 5.5% 10.407.104 11,595,997 1,188,893 11007 Institute of Neurology 9,540,640 9,571,494 30,854 0.3% 49,435,639 49,552,633 116,994 X Refresh Varia 11008 Institute of Ophthalmology 2,585,650 2,583,979 -1,671 -0.1% 15,343,559 15,327,252 -16,307 11009 Div of Biosciences 3,167,031 3,170,512 3,481 0.1% 18,583,769 18,610,064 26,295 11010 PU School of Pharmacy 4,310,042 4,322,636 12,594 22,244,275 22,352,119 107,843 0.3% 11011 Inst for Womens Health 1.110.663 1.120.187 9,524 0.9% 7.227.550 7.284.000 56,450 11012 Institute of Epidemiology & Health 835.854 834,718 -1,136 -0.1% 5115418 5 115 607 189 Primary Sort 11013 Institute of Child Health 421 761 421 791 30 0.0% 3 033 756 3 031 258 -2 499 11014 Institute of Cardiovascular Science 104 491 107 922 3.431 3 3% 620.956 638.835 17,879 Project 11015 Div of Infection & Immunity 1,384,304 1,381,296 -3,008 -0.2% 8,866,070 8,868,132 2,062 • 11016 Div of Surgery & Interventional Sci 585,578 591.463 5.885 1.0% 3,496,130 3,502,144 6,014 11017 Div of Medicine 229,977 230,995 1,019 0.4% 1,305,985 1,309,520 3,535 11018 Institute & Cancer Inst Admin 77,553 70,500 -7,053 -9.1% 458,385 435,640 -22,739 11019 Cancer Institute 860.383 634.661 -225.723 -26.2% 5,271,304 4,104,356 -1,166,948 OK Cancel 11020 PU Medical School 985,910 792,459 -193,450 -19.6% 6,320,221 5,103,515 -1,216,705 11021 1.748.207 Dental Institute 287,513 263,566 -23,946 -8.3% 1.876.465 -128,258 11022 Capital Projects 259.428 249.913 -9.514 -3.7% 1.669.044 1.568.578 -100.466 11023 Eacilities Services 292.061 276 737 -15 324 -5.2% 1 839 097 1 739 540 -99 557 -6.3% 11024 Engineering & Maintenance 250.512 233.177 -17.335 -6.9% 1.524.754 1.429.434 -95.320 11026 Estates Strategy & Space 179 274 170 295 -8 979 -5.0% 1 093 245 1 026 074 -67 171 -6.1% 11027 Property 210,671 198 949 -11.722 -5.6% 1 347 015 1 260 364 -86 651 -6.4% 11028 Environmental Sustainability 781.476 731.008 -50.467 -6.5% 4.936.044 4.659.420 -276.624 -5.6% 11030 Student Accommodation 2,505,155 2,342,577 -162,578 -6.5% 14,110,716 13,229,078 -881,638 -6.2% 11031 Procurement Services 0.0% 3.552 3.220 -331 -9.3% 11033 School Finance - Arts & Social Scien 275,563 261,366 -14,198 -5.2% 1,649,173 1,547,042 -102,131 -6.2% 11035 School Finance - Life & Medical Scie 938,274 877,865 -60,409 -6.4% 5,636,889 5,278,446 -358,443 -6.4% 1 235 874 -95.463 9.334.937 8.770.700 -564.237 11036 Corporate Support Services Finance 1 140 411 -6.0%

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Interactivity

ORTLAN NIVERSITY alary Variance b																		
			Current P	eriod		Year to Date		- 1										
Org	Name	Actual	Budget	Variance \$	Variance % Actual	Budget Variance	Variance %	<u> </u>										
001	School of Langs, Culture & Society	372,621	374,144	1,522	0.4% 2,207,													
002	Institute of the Americas The New Portlandia School	396,866 401.034	393,989	-2,878	-0.7% 2,476 -5.5% 2,480	Double	click	dri	lling	ot to								
004 005	The New Portlandia School Div of Psychology & Language Scier	401,034 11.117.861	379,009 10.416.217	-22,025 -701.644	-5.5% 2,480 -6.3% 62,663	Dealard												
06	The Ear Institute	1,968,669	2,077,626	108,957	5.5% 10,407	a have a		-										
007	Institute of Neurology	9,540,640	9,571,494	30,854	0.3% 49,435	show e	mpi	oye	e ai	IU								
800	Institute of Ophthalmology	2,585,650	2,583,979	-1,671	-0.1% 15 24*													
009	Div of Biosciences	3,167,031	3,170,512	3,481		positio	on le	vel	deta	ail _								
010	PU School of Pharmacy	4,310,042	1 222 65															
011	Inst for Womens Health																	
012	Institute of Epidemiology & Health																	
013	Institute of Child Health	421,761	421,791	30	0.0% 3,033,756	3,031,258 -2,49		1%										
)14)15	Institute of Cardiovascular Science Div of Infection & Immunity	104,491 1,384,304	107,922 1,381,296	3,431 -3,008	3.3% 620,956	638,835 17,87		.9%										
016	Div of Infection & Immunity Div of Surgery & Interventional Sci	585,578	591,463	-3,008	🕐 Home 🛛 🛅 L6 Salary Variance R													
17	Div of Medicine	229,977	230,995	1,019	Portlandia													
18	Institute & Cancer Inst Admin	77,553	70.500	-7,053	UNIVERSITY													
)19	Cancer Institute	860,383	634,661	-225.723														
020	PU Medical School	985,910	792,459	-193,450	Employee Detail Organization: 11004 - The New Portland	dia School												
021	Dental Institute	287,513	263,566	-23,946	Cigentation: 12004 - The New Portain													
022	Capital Projects	259,428	249,913	-9,514	ID Last Name First Name	Act/Plan/Var	MI	M2	MB	M4	MS	145	M7	MB	M9	M10	M11	M12
023	Facilities Services	292,061	276,737	-15,324	11093763 Bakewell, Selena E	Actual	37,302	32,795	37,870	32,156	28,900	34,100	-	-	-	-	-	-
.024	Engineering & Maintenance	250,512	233,177	-17,335		Plan Variance	30,948 (6,354)	29,838 (2,957)	36,157 (1,713)	28,107 (4,049)	24,776 (4,124)	31,491 (2,609)	30,067 30,067	29,578 29,578	32,191 32,191	32,357 32,357	31,891 31,891	31,24 31,24
.026	Estates Strategy & Space	179,274	170,295	-8,979	11231803 Meares, Lisa K	Actual	27,697	22,149	27,968	27,748	24,041	27,046	-	-	-	-	-	-
.027	Property	210,671	198,949	-11,722		Plan	24,939	20,451	25,663	25,632	21,093	24,584	23,557	24,860	25,823	24,590	24,000	22,85
.028	Environmental Sustainability Student Accommodation	781,476 2,505,155	731,008 2,342,577	-50,467 -162,578		Variance	(2,758)	(1,698)	(2,305)	(2,116)	(2,948)	(2,462)	23,557	24,860	25,823	24,590	24,000	22,85
.031	Procurement Services	2,505,155	2,342,311	-102,378	11978137 Brodie, Lance V	Actual Plan	31,921 27,226	23,113 22,067	31,755 29.061	30,172 28,808	32,280	32,716 27,679	28,768	27,707	29,138	29,241	25,213	30,85
.033	School Finance - Arts & Social Scien	275,563	261,366	-14,198		Variance	(4,694)	(1,045)	(2,695)	(1,365)	(4,546)	(5,037)	28,768	27,707	29,138	29,241	25,213	30,85
.035	School Finance - Life & Medical Scie	938,274	877,865	-60,409	12017509 Sallah, Perry O	Actual Plan	14,615	22,760	14,579 13,591	19,152 17,440	17,842	19,110 17,155	17.033	-	-	-	- 17.820	17.05
.036	Corporate Support Services Finance	1,235,874	1,140,411	-95,463		Variance	(1,920)	20,919 (1,841)	(988)	17,440 (1,712)	15,331 (2,511)	(1,955)	17,033	15,828	16,917	16,501	17,820	17,05
					12289849 Stranahan, Eunice F	Actual	5,574	6,231	5,305	5,568	5,738	4,894			-			
						Plan Variance	5,322 (252)	5,786 (445)	4,443 (862)	5,125 (443)	5,392 (346)	4,582 (312)	4,672 4,672	4,496 4,496	4,548 4,548	4,505 4,505	4,442 4,442	4,36 4,36
					13165961 Open Position	Actual	(202)	(++5)	(002)	(443)	(540)	(511)	-	-		-,505	-	4,30
					open conton	Plan			6,000	6,000	6,106	6,000	6,000	6,000	6,000	6,000	6,000	6,00
						Variance	-		6,000	6,000	6,106	6,000	6,000	6,000	6,000	6,000	6,000	6,00
					13203446 Landucci, Enedina	Actual Plan	17,106 14,369	17,593 16,125	17,101 13,256	14,800 13,686	18,585 17,744	15,253 12,759	13,912	- 12,269	- 14,383	- 13,201	- 14,155	- 14,46
						Variance	(2,736)	(1,468)	(3,845)	(1,114)	(841)	(2,493)	13,912	12,269	14,383	13,201	14,155	14,46
					13203820 Gallop, Felipe V	Actual Plan	9,994 9,423	10,313 9,541	8,599 7,732	9,810 8,883	7,609 6,773	11,739 11,208	11,208	10.147	- 9.820	10,420	11.019	11,07
						Variance	9,423 (571)	9,541 (771)	(867)	8,883 (926)	6,773 (836)	(531)	11,208	10,147	9,820 9,820	10,420	11,019	11,07
					13432861 Open Position	Actual			-	-		-	-	-			-	
						Plan Variance		9,000 9,000	9,000 9,000	9,000 9,000	9,134 9,134	9,000 9,000	9,000 9,000	9,000 9,000	9,000 9,000	9,000 9,000	9,000 9,000	9,00 9,00
						Total Actual	405 254	457.402	409 90*	412 997	294 105	401.024						
						Total Actual Total Plan	405,354 352,732	457,408 416,832	408,995 384,026	413,991 382,651	394,105 366,755	401,034 379,009	- 375,596	- 375,062	- 379,127	- 372,463	- 373,293	- 368,421
													375,596 375,596 15,000	- 375,062 375,062	379,127 379,127	- 372,463 372,463	- 373,293 373,293	- 368,421 368,421



Make Reporting Actionable

The goal of reporting in any enterprise setting is not simply give users understanding of data, but rather to enhance informed decisions and ultimately, action.

In order to nudge users beyond insight toward action, good reporting shows alternative sets of assumptions and outcomes.

- Compare scenarios
- Test the sensitivity of assumptions to outcomes





Scenario Comparison

Scenario Comparison Portlandia University 08/08/2014 Last Scenario Calculation: 08/08/2014 Forecast Year: 2016 User Filter: Consolidated **University Baseline** University with Residence Hall Deb 6 Chng Variance Income Statement Student Revenue Gross Tuition \$229,636 \$243,396 \$13,760 6.0% Gross Fees 139,532 140,847 1,315 0.9% **Gross Student Revenue** 15,075 369,168 384,243 4.1% Scholarship Allowance Scholarship Allowance 151,492 157,253 5,761 3.8% **Total Scholarship Allowance** 151,492 157,253 5,761 3.8% Net Student Revenue 217,676 226,990 9,314 4.3% Other Operating Revenue Gifts and Contributions 216 216 0 0.0% Endowment Spending Distribution 3,783 3,854 71 1.9% Government Gifts and Contracts 0 0 0.0% 0 Sales from Auxiliary Services 0 0.0% 0 0 0 0.0% Patent Royality 0 0 Other Operating Revenue 3,783 3,854 71 1.9% **Total Other Operating Revenue** 7,782 7,924 142 1.8% **Total Operating Revenue** 225,458 234,914 9,456 4.2% **Operating Expenses** Salaries and Wages 110,516 113,848 3,332 3.0% Employee Benefits 46,011 46,998 987 2.1% Professional Fees 4,597 4,697 100 2.2% Supplies 22,614 22,901 287 1.3% Purchased Services 6,724 6,833 109 1.6% Depreciation & Amortization 10,636 11,918 1,282 12.1% Interest 7,980 10,355 2,375 29.8% Other Expense 15,262 15,888 626 4.1% Total Operating Expenses 4.1% 224,340 233,438 9,098 1,118 1,476 358 Net Operating Income 32.0%

Compare scenarios side by side

Best Practices in Financial Reporting for Higher Education

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Sensitivity Analysis

Sensitivity Analysis						tcomes o variable				
Sensitivity Drivers	2015	2016	2017	2018		2020	2021	2022	2023	2024
nrollment	0.0%	0.0%	0.0%	0.0%	.0%	0.0%	0.0%	0.0%	0.0%	0.0%
uition Rate	(47.1%)	(47.1%)	(47.1%)	(47.1%)	(.1%)	(47.1%)	0.0%	0.0%	0.0%	0.0%
ees	0.0%	0.0%	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Gifts	0.0%	0.0%	0.0%	0.0%	.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Grants	0.0	Generate Sensitivity A	halvee	100	×	0.0%	0.0%	0.0%	0.0%	0.0%
FTE Salary Inflation	0.09	Generate Sensitivity P	andiyoes			0.0%	0.0%	0.0%	0.0%	0.0%
Non-Salary Expense Inflation	0.09	Kaufman II.	- 11			0.0%	0.0%	0.0%	0.0%	0.0%
ringe Rate	0.09	KaufmanHa	3//		N 1	0.0%	0.0%	0.0%	0.0%	0.0%
nvestment Income (Basis Pts)	0.09	- Select a target, en	ter a financial goal, se	elect a start year, tarr	tet year and a	0.0%	0.0%	0.0%	0.0%	0.0%
Sensitivity Target Summary	2015	Target Financial Goal	Operating Income		T	2020	2021	2022	2023	2024
Operating Income	\$8,98					\$20,675	\$22,219	\$23, 796	\$25,536	\$27,444
Operating Margin	5.5					11.1%	11.4%	11.5%	11.7%	12.09
Operating EBIDA Margin	16.8	Start Year	2015		Ψ	27.1%	27.2%	27.3%	27.4%	27.49
Days Cash On Hand	2,793.					2,581.9	2,504.0	2,431.2	2,363.2	2,299.7
Debt Service Coverage Ratio	3.	Target Year	2015			3.5	3.7	3.9	4.1	4.3
Excess Cash Flow	\$26,63	_				\$40,237	\$42,906	\$45, 757	\$48, 766	\$52,018
		Driver	Investment Income	e (Basis Pts)	٣					
Sensitivity Impact Summary	2015	Execute	Reset Base	Reset Drivers	Close	2020	2021	2022	2023	2024
Operating Income	\$8,981	\$9,727	\$13,203	\$16,726	\$19,223	\$20,675	\$22,219	\$23, 796	\$25,536	\$27,444
Dperating Margin	5.5%	5.9 %	7.9 %	9.7 %	10.8%	11.1%	11.4%	11.5%	11.7%	12.09
Operating EBIDA Margin	0.17	0.21	0.23	0.26	0.27	0.27	0.27	0.27	0.27	0.27
	2.793.07	2.599.31	2.637.28	2,676.05	2,634,39	2,581.91	2.504.01	2,431.20	2,363,18	2,299,72
· · · · · · · · · · · · · · · · · · ·										-
Days Cash On Hand Debt Service Coverage Ratio Excess Cash Flow	2,793.07 3.7 \$26,634	2,399.31 2.7 \$26,541	2,007,120 2.9 \$29,828	3.2 \$34,501	3.4 \$37.829	3.5 \$40,237	3.7 \$42,906	3.9 \$45,757	4.1 \$48,766	4.3 \$52,018

Deliver in the right place at the right time

Good reporting is delivered in the users preferred format and when they need it

- Consider the audience
 - How the audience will consume the information
 - What Device and format
 - Static or ad hoc

Good reporting puts the data in the proper context

- Trends
- Targets, Thresholds
- Benchmark data

Good reporting is interactive with user selectors and drill options

Good reporting enables appropriate action to showing alternative courses of action and delivering insight to underlying assumptions and risks



About Kaufman Hall

Since 1985, Kaufman Hall has been a leading advisor to senior management teams and Boards of the nation's most distinguished institutions, helping them to incorporate proven methods into their strategic planning and financial management, quantify the financial impact of their plans and actions, and consistently achieve their goals. Our services use a rigorous, disciplined, and structured approach that is based on the principles of corporate finance.

The breadth and integration of our advisory services is unparalleled. Services encompass strategy; financial and capital planning; debt and derivatives-related financial transactions; capital allocation and decision making; and mergers, acquisitions, real estate, and joint ventures. No other professional services firm operating in the non-profit education and healthcare sectors combines all of these services under a single corporate umbrella.

To complement our advisory services, for more than 20 years Kaufman Hall has provided software products that support decision-making processes and sustainable strategies and plans. In 2014, Kaufman Hall acquired Axiom Software, a leading provider of planning systems to higher education. The acquisition of Axiom has provided Kaufman Hall with a world-class software platform, creating a unified company with unmatched expertise and experience in data-driven analysis to transform financial, operational, and strategic planning. Kaufman Hall's Axiom Higher Education Suite offers the industry's leading enterprise performance management platform for finance users. Configured for higher education solutions, the suite supports long-range planning, budgeting, and forecasting, and delivers rich analytics.

For more information, please contact Tony Ard (tonyard@kaufmanhall.com) or Charles Kim (ckim@kaufmanhall.com) at **847.441.8780** or access **www.kaufmanhall.com/highereducation**.



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