FORV/S[®]

Business Technology Solutions

Streamline Budgeting & Reporting Processes in Higher Education September 12, 2023

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About FORVIS

Services

- Assurance
- Tax
- Consulting

FORV/S

FORVIS ranks among the nation's top 10 public accounting firms, helping unlock the potential of our clients, people, and communities. We deliver an **Unmatched Client Experience**[®] with assurance, tax, and consulting services that reflect our exceptional capabilities and uncommon commitment to excellence. Discover how our forward vision can help you prepare for what's next.



Business Technology Solutions

Microsoft Partner

Soge Partner

ORACLE NETSUITE Solution Provider



FORVIS' Business Technology Solutions can help support digital transformation across your organization with enterprise resource planning (ERP) and customer relationship management (CRM) platform analysis, design, implementation, upgrade, training, and support services.

In addition, our Insights & Automation services include business intelligence (BI) and robotic process automation (RPA) assessments, implementations, and training.



From sales forecasting to financial reporting, learn what CRM and ERP technologies can do.

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Meet the Presenter



Charles Allen

FORVIS Senior Managing Consultant 713.499.4629 charles.allen@forvis.com



Objectives

- Demonstrate how to develop reports using Solver
- Explain how to develop budgets using Solver
- Describe the interactive examples of dashboards designed to help universities & colleges



Agenda	
9:00 a.m. CT 🤇	SOLV101: Introduction to Solver
9:10 a.m.	RPT101: Principles of Reporting
9:30 a.m.	PLAN102: Fundamentals of Planning
9:40 a.m.	DASH105: Dashboards & Visualizations



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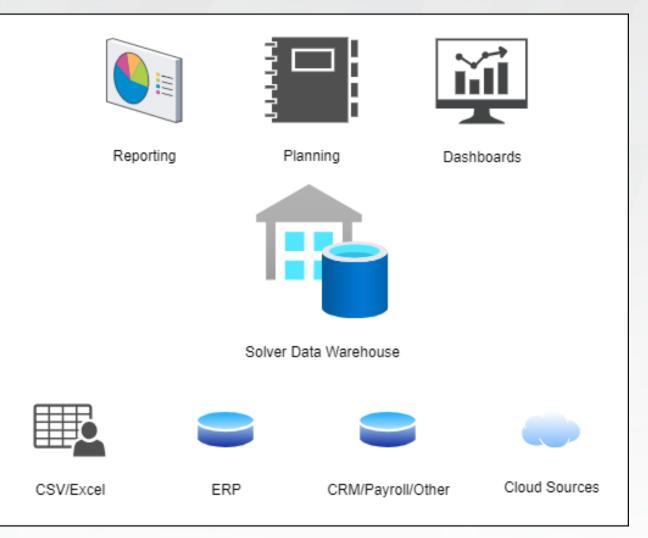
- Published by Solver Global
- Microsoft Azure-Based Solution
- Includes Reporting, Planning, & Data Warehouse



- Process Automation
- KPIs & Alerts
- Data Source Connectors



- Connectors pull data from sources
- Data is stored in the Data Warehouse
- Reports, planning templates, & dashboards are created from the Data Warehouse





- Assess Funding Needs
- Develop & Track KPIs
- Combine Financial Data With Student Information & Payroll Data
- Work Across Departments



Show Me!

Principles of Reporting



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Principles of Reporting



CLOUD-BASED REPORTING SCHEDULED & MANUAL PUBLICATION

EXCEL REPORT DESIGN EXPERIENCE AD-HOC REPORTING



Principles of Reporting

Start a new report

Add fields, formatting, & formulas

Save & publish



Revenue & Expense Report

- Displays revenue & expenses
- By campus, school, & period
- Actual & budget amounts

Solver Uni	iversity								
Revenue	and Expen	se Report						S	olver
	Business Sch	hool							
	: Central								
Period	: April, 2021								
			Revenue vs Exp	ense(%)					
Actual						11.8%			
Budget	1.3%								
0.0%	2.0%	4.0%	6.0%	8.0%	10.0%	12.0%	14.0%		
			Revenues						
Actu al		\$2,181,915							
Budget						\$6,090,805			
\$0	\$1,000,000	\$2,000,000	\$3,000,000	\$4,000,000	\$5,000,000	\$6,000,000	\$7,000,000		
					Actual	Budget			
Туре	Code	Account			YTD	Year-all	Remaining	i F	Remainin
Revenue									
	40001	Alumni Reve	nue		1,600	12,410	10,81		87.1%
	40002	Tuition			1,000,000	2,180,754	1,180,75		54.1%
	40003	Education S	ponsor		4,050	115,940	111,89	ō Ō	96.5%
	40004	Web Course			41,728	598,581	556,85		93.0%
	40005	Admission F	ee		50,594	74,954	24,36		32.5%
	40006	Consulting F	ee		205,119	883,453	678.33	4 Õ	76.8%
	40007	Rental Incon			41,452	119,755	78,30		65.4%
	40008	Parking Fee			80,414	480,697	400,28	-	83.3%
	40009	Housing			200,146	770,513	570,36	-	74.0%
	40010	Other Reven	Nes		355,535	649.062	293,52	-	45.2/
	40011	Course Reve			201,277	204,686	3,40	-	1.7%
		Total Reve	nues	\$2	2,181,915	\$6,090,805	\$3,908,890		64.2%
_		Totarriere	inde 5		2,101,010	10,000,000	10,000,000	, 	01.271
Expenses	<u>s</u> Student S								
	5tudent 5 60001	Student Sala			70.070	100,450	121,37		60.9%
			aries		78,079	199,452	121,31		00.37
		ed Salaries						_	
	60006		Salaries - Peri		292,766	1,270,452	977,68	-	77.0%
	60007	Unclassified	Salaries - Ten	npora	97,589	603,073	505,48	4 🔘	83.8%
	Classified							_	
	60004		alaries-Perma		617,225	1,730,021	1,112,79		64.3%
	60005	Classified Sa	alaries-Tempo	rary	205,742	915,355	709,61	3 🔘	77.5%
	Other Ope	erating Expe	nses						
	50010	Research			182,256	629,938	447,68	2 🔘	71.1%
	50020	Computer Sy	stems Softwa	re	48,123	4,374	(43,74	B) (*****
	50030	Books and L	ibrary Materias	5	12,447	51,255	38,80		
	60002	Licenses an	d Registration:	5	119,279	53,799	(65,48	D) 🕒	*****
	60003	Scholarship:	5		201,812	123,272	(78,54	D) 🔴	-63.7%
	60008	Repairs and	Maintenance		29,017	50,441	21,42	1 🔘	42.5%
	60010	Other Expen	ses		39,477	383,191	343,71	4 🔘	89.7%
		Total Expe	nses	\$1	1,923,811	\$6,014,622	\$4,090,81		68.0%
		Revenue a	and Expense	Bal \$	\$258,104	\$76,182	(\$181,92) -	238.8%
		Revenue a	and Expense	Bal	11.8%	1.37			

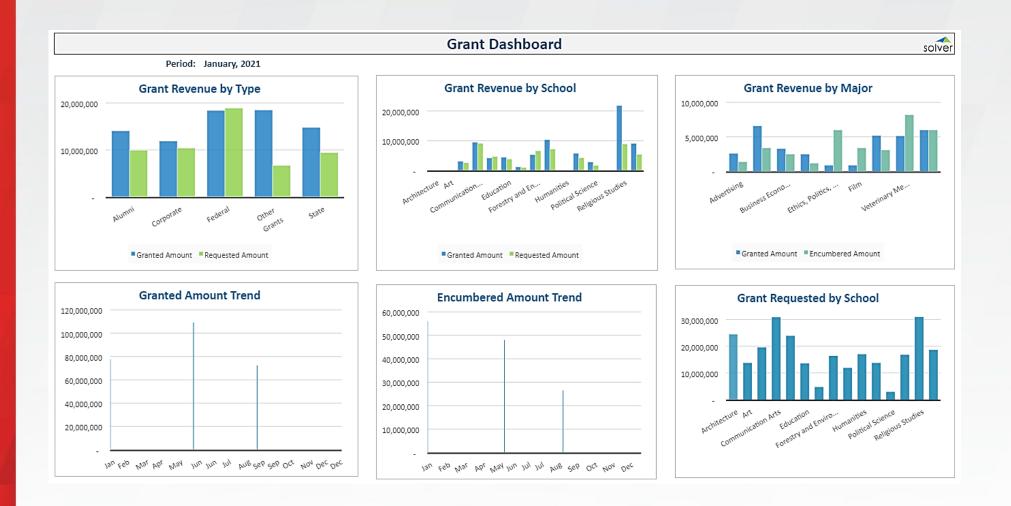
FORV/S

Grant Dashboard

Displays charts

Utilizes period parameter

Contains tables to support the charts



Show Me!

Fundamentals of Planning



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Fundamentals of Planning





CLOUD-BASED DATA ENTRY PARAMETER DRIVEN

WORKFLOW

DYNAMIC FORECASTING & MODELING



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Fundamentals of Planning

Start a new planning template

Add fields, formatting, & formulas

Save & publish

Assign to users



Parameters for scenario, period, school, & campus

Data entry for adjustment & notes

Grouping by GL account

Salaries	Budget	Request	by Fund
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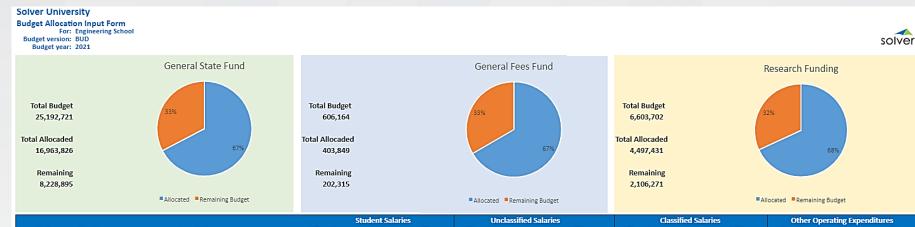
olver Univ	ersity										
alary Budge Request from: For Campus: Scenario: For year:	: Business So : Central : Budget									sc	olver
			Actuals 2020	2021 Target %	2021 Dept.	2021 Dept.	2021 Dept.	2021 Dept.	%		
Account	Fund	Description	ALL	Change	Baseline	Adjust (%)	Adjust (\$)	Request	Change	Departmental Notes	
laries											_
	Student S	alaries									
60001		Student Salaries	176,094	2%	178,735	1%	5,000	185,074	4%		
	1	General State Fund	44,024		44,024	1%	2,000	46,464	6%		
	2	General Fees Fund	44,024	2%	44,904	2%		45,802	4%		
	3	Research Funding	44,024		44,024		3,000	47,024	7%		
	4	Work Study Program	44,024	4%	45,784			45,784	4%		
	Classified	Salaries									
60004		Classified Salaries- Permanent	1,439,327	0%	1,439,327	1%	6,000	1,459,720	1%		
	1	General State Fund	359,832		359,832	1%	2,000	365,430	2%		
	2	General Fees Fund	359,832		359,832	3%		370,627	3%		
	3	Research Funding	359,832		359,832		4,000	363,832	1%		
	4	Work Study Program	359,832		359,832			359,832	0%		
60005		Classified Salaries- Temporary	719,664	1%	728,659	1%	7,000	744,745	2%		
20000	1	General State Fund	179,916	5%	188,912	1%	2,000	192,801	7%		
	2	General Fees Fund	179,916	270	179,916	4%	2,000	187,113	4%		
	3	Research Funding	179,916		179,916		5,000	184,916	3%		
	4	Work Study Program	179,916		179,916			179,916	0%		

Budget Allocation Input Form

Parameters for school, period, & budget version

Graphics to display allocations & budget

Grouping by GL account & fund



			Student Salaries			Uncla	ssified Salaries		Clas	sified Salaries		Other Operating Expenditures			
Code	Fund	Description	Allocation	Budget	Difference	Allocation	Budget	Difference	Allocation	Budget	Difference	Allocation	Budget	Difference	
51000		Industrial Engineering Programs	233,201	269,299	36,098	598,486	931,943	333,457	830,117	1,067,669	237,552	453,901	519,747	65,846	
	1	General State Fund	61,503	69,299	7,796	175,825	288,366	112,541	711,687	933,433	221,746	453,901	519,747	65,846	
	2	General Fees Fund			0	81,473	143,576	62,103			0			0	
	3	Research Funding	171,698	200,000	28,302	341,188	500,001	158,813	118,430	134,236	15,806			0	
50008		Engineering School Management	51,387	91,573	40,186	1,777,021	3,179,132	1,402,111	579,934	704,006	124,072	1,154,948	1,841,161	686,213	
	1	General State Fund	51,387	91,573	40,186	1,397,730	2,450,629	1,052,899	429,630	533,600	103,970	1,154,948	1,841,161	686,213	
	2	General Fees Fund			0	33,706	50,678	16,972			0			0	
	3	Research Funding			0	345,585	677,825	332,240	150,304	170,406	20,102			0	
50007		Chemical Engineering Programs	145,473	195,658	50,185	1,023,410	1,265,247	241,837	162,581	175,097	12,516	365,709	433,077	67,368	
	1	General State Fund	60,280	64,476	4,196	970,430	1,165,636	195,206	116,633	124,111	7,478	365,709	433,077	67,368	
	2	General Fees Fund			0	8,877	12,584	3,707			0			0	
	3	Research Funding	85,193	131,182	45,989	44,103	87,027	42,924	45,948	50,986	5,038			0	
50006		Electronic Engineering Programs	136,275	162,824	26,549	711,823	872,384	160,561	750,240	845,033	94,793	1,040,377	1,118,817	78,440	
	1	General State Fund	129,198	151,209	22,011	223,010	266,496	43,486	558,607	644,106	85,499	1,040,377	1,118,817	78,440	
	2	General Fees Fund			0	96,100	111,984	15,884			0			0	
	3	Research Funding	7,077	11,615	4,538	392,713	493,904	101,191	191,633	200,927	9,294			0	
50005		Computer and Systems Engineering Programs	244,696	387,412	142,716	1,046,262	1,290,443	244,181	745,358	886,822	141,464	831,818	1,625,229	793,411	
	1	General State Fund	118,644	172,800	54,156	818,683	1,030,179	211,496	543,804	607,859	64,055	831,818	1,625,229	793,411	
	2	General Fees Fund			0	38,297	67,776	29,479			0			0	
	3	Research Funding	126,052	214,612	88,560	189,282	192,488	3,206	201,554	278,963	77,409			0	
50004		Biomedical Engineering Programs	164,755	297,968	133,213	972,674	1,842,215	869,541	1,013,515	1,061,799	48,284	136,972	204,230	67,258	
	1	General State Fund	11,426	16,381	4,955	537,861	1,000,208	462,347	723,634	745,801	22,167	136,972	204,230	67,258	
	2	General Fees Fund			0	4,298	5,157	859			0			0	

Classified Payroll

Solver University Classified Payroll

> Scenario: Budget Year: 2021

For: Business School

Parameters by school, scenario, & period

Used to budget personnel

Includes options for selecting benefits by employee

Includes ability to enter new employees

			Salay		Annual	Base		Salary														Total
Position Emplo	yee Name	Title	Grade	Rate	Hours	Salary	Merit Change	Change	Salary	Life Insu	irance	Retiree H	ealth Cost	Dental B	lenefits	Health B	Benefits 🛛	Social Sec	urity FICA	Medi	care	Benefits
Permanent Position	ns																					
1 Freddi	ie Mauer	Chairperson-Asst Professor	19	35.17	2,080	73,154	4 No Increase	0.00%	73,154	Yes	8,778	Yes	1,097	Yes	3,500	Yes	300	Yes	4,536	Yes	1,061	19,272
2 Emily I	Martinez	Assistant Teaching Professor	14	24.73	2,080	51,438	B Regular Increase	3.50%	53,239	Yes	6,389	Yes	799	Yes	3,500	Yes	300	Yes	3,301	Yes	772	15,060
3 Dustin	McCann	Associate Teaching Professor	12	21.49	2,080	44,699	9 Merit Increase	5.50%	47,158	Yes	5,659	Yes	707	Yes	3,500	Yes	300	Yes	2,924	Yes	684	13,774
4 Joanee	e Suzuki	Librarian	7	15.11	2,080	31,429	9 Regular Increase	3.50%	32,529	Yes	3,903	Yes	488	Yes	3,500	Yes	300	Yes	2,017	Yes	472	10,680
5 Chris M	Molina	Dean- Professor	19	35.17	2,080	73,154	4 Merit Increase	5.50%	77,177	Yes	9,261	Yes	1,158	Yes	3,500	Yes	300	Yes	4,785	Yes	1,119	20,123
6 Christi	ine Montero	Teaching Professor	15	26.54	2,080	55,203	B Merit Increase	5.50%	58,239	Yes	6,989	Yes	874	Yes	3,500	Yes	300	Yes	3,611	Yes	844	16,118
7 Luis Pi	ierzynski	Teaching Professor	15	26.54	2,080	55,203	8 Merit Increase	5.50%	58,239	Yes	6,989	Yes	874	Yes	3,500	Yes	300	Yes	3,611	Yes	844	16,118
8 Tracy N	Molina	Teaching Professor	15	26.54	2,080	55,203	8 Merit Increase	5.50%	58,239	Yes	6,989	Yes	874	Yes	3,500	Yes	300	Yes	3,611	Yes	844	16,118
9 Elle Bo	oman	Teaching Professor	15	26.54	2,080	55,203	8 Merit Increase	5.50%	58,239	Yes	6,989	Yes	874	Yes	3,500	Yes	300	Yes	3,611	Yes	844	16,118
10 Eduard	do Villarreal	Teaching Professor	15	26.54	2,080	55,203	8 Merit Increase	5.50%	58,239	Yes	6,989	Yes	874	Yes	3,500	Yes	300	Yes	3,611	Yes	844	16,118
11 Jose Fo	orero	Teaching Professor	15	26.54	2,080	55,203	8 Merit Increase	5.50%	58,239	Yes	6,989	Yes	874	Yes	3,500	Yes	300	Yes	3,611	Yes	844	16,118
12 Stephe	en Cerati	Librarian	7	15.11	2,080	31,429	9 Merit Increase	5.50%	33,157	Yes	3,979	Yes	497	Yes	3,500	Yes	300	Yes	2,056	Yes	481	10,813
13 Miche	lle Rigby	Teaching Professor	15	26.54	2,080	55,203	8 No Increase	0.00%	55,203	Yes	6,624	Yes	828	Yes	3,500	Yes	300	Yes	3,423	Yes	800	15,475
				-			-	-	-		-		-		-		-		-		-	-
				-			-	-	-		-		-		-		-		-		-	-
				-			-	-	-		-		-		-		-		-		-	-

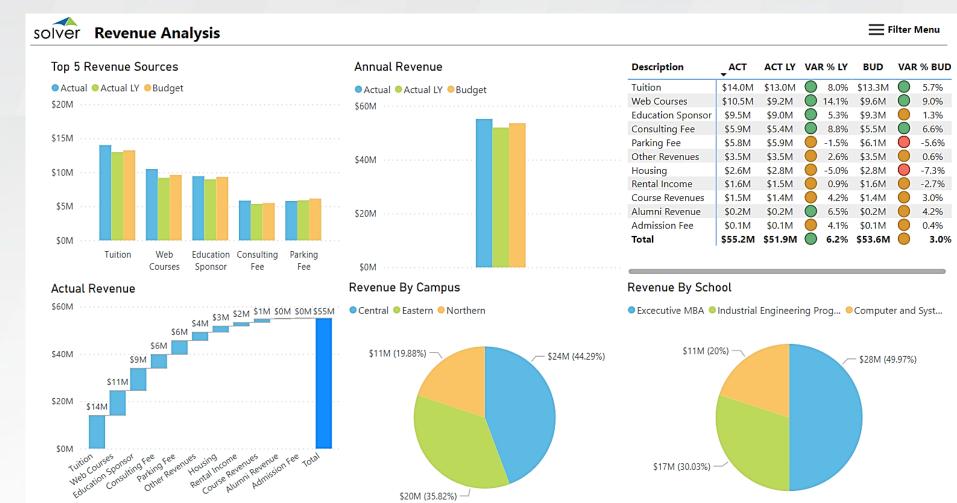
Dashboards & Visualizations



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Dashboards & Visualizations

- Power BI, Tableau, or
 Excel
- Utilize Power BI/Tableau connector
- One data source



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What's Next?

<u>What Is Power BI?</u>	Thursday, September 21	10:00 to 11:00 a.m. ET
<u>Business Central New Features:</u> What's Coming This Fall	Thursday, September 14	11:00 a.m. to 12:00 p.m. ET





Use the Q&A tool to submit any questions you may have



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Assurance / Tax / Advisory