

Reporting | **Strategies Your G**uides: Wes McCoubrie and Karen Lifsey

- Take 5 Minutes
- Turn to a Person Near You
- Introduce Yourself
- Business Cards



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- What are your biggest concerns when it comes to reporting in your organization?
- Is there more than one source for the same information?
- Do your users utilize the reports available?

- Reporting Strategy Introduction
- Clarity Reporting Options
- Integrated BI Tools
- Best Practices

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Reporting Strategy Introduction

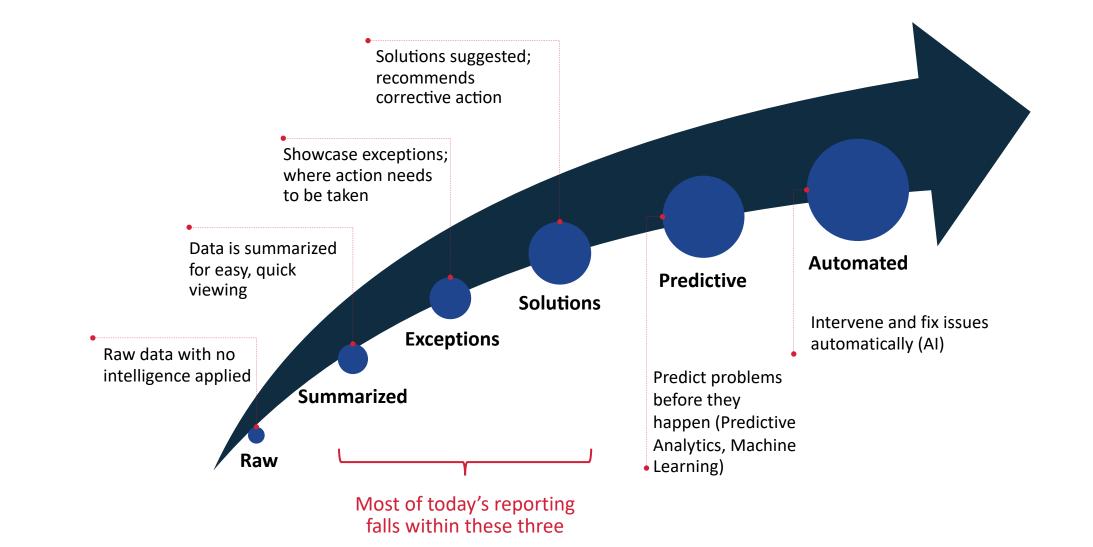


Analytic & BI Trends for 2022 (https://www.datapine.com/blog/business-intelligence-trends/)

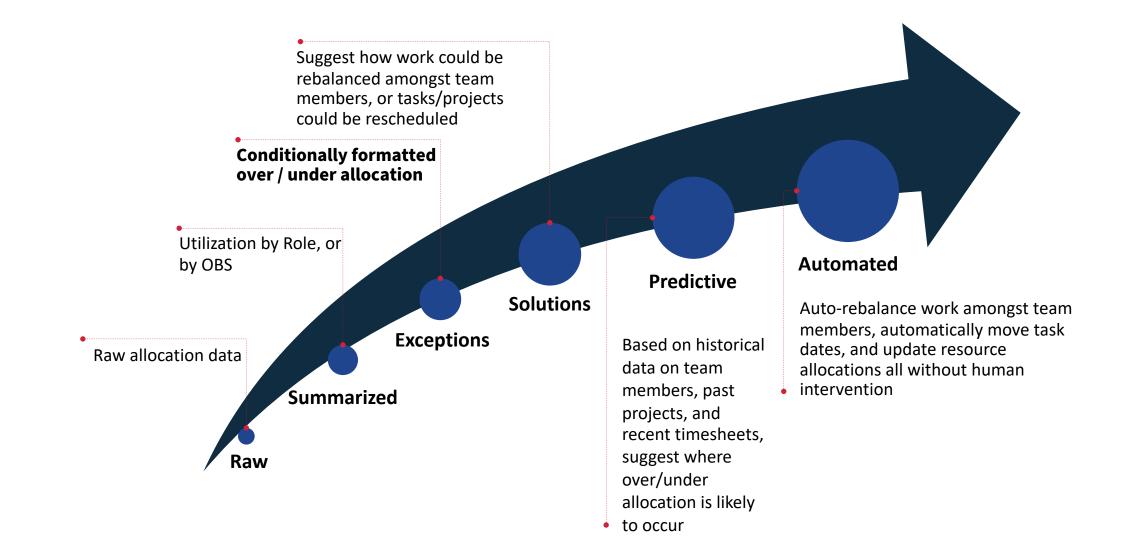
- Artificial Intelligence
- Data Security
- Data Discovery/Visualization
- Data Quality Management
- Predictive and Prescriptive Analytic Tools
- Real-time Data & Analytics
- Collaborative BI
- Data Literacy
- Data Automation
- Embedded Analytics



Evolution of Business Intelligence



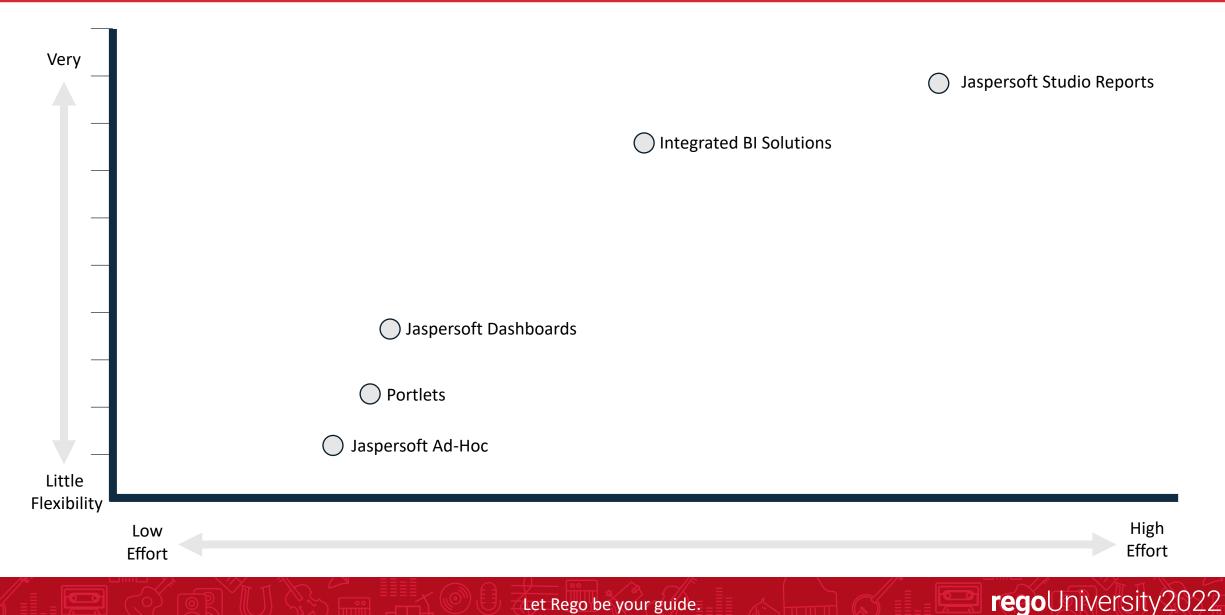
Example: Resource Allocations



Clarity Reporting Options



Reporting Tools: Flexibility vs Effort



Reporting Tools



Portlets

- Data sourced from Clarity transactional DB
- Reports are operational, used day-to-day
- The data does not need to be accessed by non-Clarity users
- Data is rendered within acceptable performance thresholds
- The number of data elements required does not negatively affect the usability.
- Personalization features available

- Data sourced from Clarity DWH as default
- PDF or other non-CSV formats needed
- Requires "pixel perfect" formatting
- Report access outside of Clarity required
- Archiving is required
- Multiple reports required and presented as a single package
- Large number of calculations

Ad Hoc



- Data sourced from Clarity DWH as default
- PDF or other non-CSV formats needed
- Used for 'on the fly' reporting
- Best suited for "super-users" who understand the underlying data.

Dashboards



- Summary level information with drill-down capability
- Short time-to-information interface
- Stock dashboards are available as well as userdefined "grouping" dashboards that present multiple Ad Hoc and Studio Reports on single page

Integrated BI Solutions

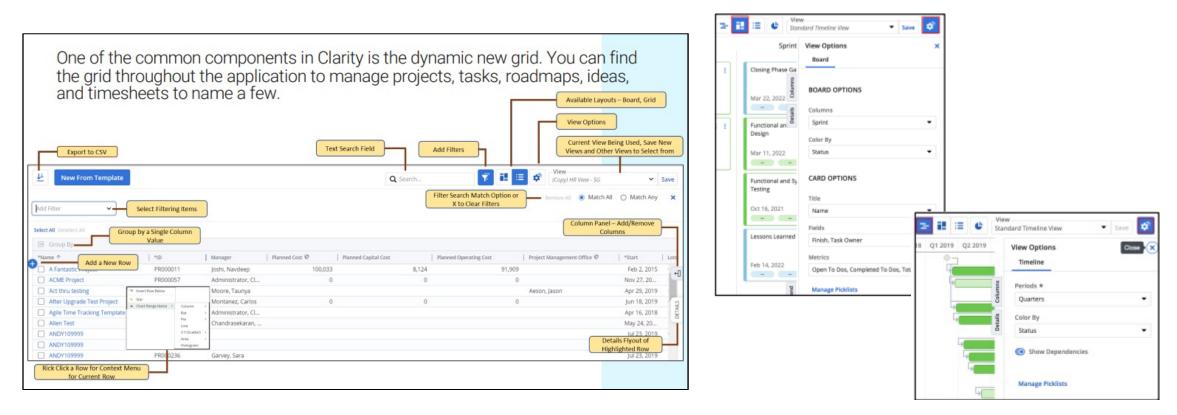


- Typically tied to multiple data sources
- OData and flat-file batch exports are common Clarity connection options
- Industry-best visualization, interactivity
- Affords most flexibility
- In-house expertise typically available (Power BI, Tableau, etc.)

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Portlets in the Modern UX

- In the Modern UX, custom portlets are to an extent being replaced by a heavy focus on personalization.
- Channels still leveraged for classic portlet dashboards.



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Portlet Examples

		Time by Pr	rojost Ti	or											Time By Cate	tegory			
		Time by Pi	ioject fi	er							- 1							Time By Category	
	Tier 2 - 15	Tier 3 - 1% Idea	- 1%							Idea Tier Tier Tier	1						Strategy - 7% perational and Support - 8% Missed Hours - 9% n Enhancements - 10%	Idea - 1% Project - 41%	Idea Project Admin & Compliance Application Enhancem Missed Hours Operational and Suppo Strategy
Resource V	Vorkloads														Q		Admin & Compliance - 24%		
							Availabi	ility, Allo	cation, a	& Actual	8								
Resource	Primary Role		Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18	Nov 18	Dec 18	Manager				
Abbott, Paul	Manager/Supervisor	Availability Rate Allocation Actuals	73.60		70.40	58.80						184.00 9.20		168.00 8.40	Fedele, Mark	r Resou	I 📀 🖬	Resource Is Active Yes ▼ ■Time Start 1/1/2018 [70
Akouri, Elias	Manager/Supervisor	Availability Rate Allocation Actuals		160.00 302.41			184.00	168.00	176.00	184.00	160.00	184.00	176.00	168.00	Vu-Pham, Trang	OBS	Department OBS:IT	Time End 4/11/2018	
Alexander, Ellen	Business/Systems Analyst	Availability Rate Allocation Actuals	184.00		176.00	168.00						184.00 220.80			Vliet, Marc van	Mode Filter	Unit and descendants		
Allin, Lee	Business/Systems Analyst	Availability Rate Allocation Actuals	48.00		295.99	296.00						184.00 232.00			Kluge, Peter	rce	Resource Manage Abbott, Paul Abbott, Paul Abbott, Paul	r ▲ Time Period 04/09/18 - 04/16/18 04/09/18 - 04/16/18 03/19/18 - 03/26/18	Timesheet Status Open Not Opened Open
Arbelaez, Luz	Business/Systems Analyst	Availability Rate Allocation Actuals	56.00		123.20	84.00						184.00 36.80			Rende, Ignacio	E	Abbott, Paul Abbott, Paul Abbott, Paul Abbott, Paul	03/26/18 - 04/02/18 04/02/18 - 04/02/18 04/02/18 - 04/16/18	Not Opened Not Opened Not Opened
Bapat, Rashmi	Applications Developer	Availability Rate Allocation Actuals		160.00 160.00		168.00	184.00	168.00	176.00	184.00	160.00	184.00	176.00	168.00	Sen, Partha	l	Abbott, Paul Abbott, Paul Abbott, Paul Abbott, Paul	04/02/18 - 04/09/18 04/09/18 - 04/16/18 04/09/18 - 04/16/18 03/26/18 - 04/02/18	Not Opened Not Opened Not Opened Not Opened
Basak, Surajit	Manager/Supervisor	Availability Rate Allocation Actuals	201.80		225.71	226.40						184.00 64.40			Goodloe, Alan		Abbott, Paul Abbott, Paul Abbott, Paul	04/02/18 - 04/09/18 04/09/18 - 04/16/18 04/09/18 - 04/16/18	Not Opened Not Opened Approved
Bedi, Karan	Manager/Supervisor	Availability Rate Allocation			176.00		184.00	168.00	176.00	184.00	160.00	184.00	176.00	168.00	Vu-Pham, Trang	E	Akouri, Elias Akouri, Elias Akouri, Elias Akouri, Elias	04/02/18 - 04/09/18 04/09/18 - 04/16/18 03/12/18 - 03/19/18 03/19/18 - 03/26/18	Not Opened Not Opened Open Not Opened
		Actuals	164.00	100.00	177.00	40.00													

Studio Report Examples

Project Status Summary: eCommerce Portal			1			_									
	Overall Status 🔶 🔶	Status Report Date: 8/14/2015			nve	stme	ent As	ssign	men	ts by Ta	ask				
Stage: Building				- I '											
Key Accomplishments	Upcoming Activities			-											
Key Accomplishments for this week:	The following reviews are scheduled for next week:				Investment A	ssignments b	y Task								
Resource issues resolved User acceptance test plan approved	User acceptance test results Change Requests				•		- Contractor								
 End-to-end test plan approved Pre-briefs for the Monthly Project Review completed by all team members 	- Monthly Project Review					Task	Status	% Complete	Resource	Role	Assignment Start	Finish	Actuals	ETC	EAC
Online training solution chosen and team assembled	The Configuration Control Board meeting is scheduled in two weeks.				Altus Online Order	Application			Resource	Role	start	Finish	Actuals	EIG	EAC
					Portal Development	Application	Started	25.00 Ben	rry Jason	Developer	8/4/14	7/29/16	230.00	382.00	612.00
Cost Resources	0, Risk Map by Category				Unit and Performance	e Testing	Started	25.00 Lew		Test Engineer	8/4/14	7/29/16	84.00	186.00	270.00
	Objectives				Total								314.00	568.00	882.00
													-		
50% 100% 50% 100%										Business Analyst	2/5/15	2/26/15	160.00	0.00	160.00
	T FOD '		11.1							Storage Architect	2/5/15	2/26/15	160.00	0.00	160.00
	Top 50 Projec	t Watch	TST							Architect	3/2/15	3/27/15	70.00	70.00	140.00
		e www.cer	1136							Business Analyst	3/2/15	3/27/15	90.00	90.00	180.00
	- 10 million									Developer	3/30/15	5/4/15	0.00	300.00	300.00
										Storage Architect Test Engineer	3/30/15 3/30/15	5/4/15	0.00	90.00 170.00	90.00
Displays burn rate against baseline	Top 50 Project Watchlist									Son Engineer	0.00.10	0.4110	480.00	720.00	1,200.00
Pha													400.00	720.00	1,200.00
Pha	De an						Issues			Project Manager	1/6/15	4/8/15	60.00	20.00	80.00
Phase/Key Milestone Aug-15 5	Sep-									Business Analyst	1/6/15	4/8/15	132.00	48.00	180.00
Design Phase		KPIs					18			Test Engineer	1/6/15	4/8/15	175.00	55.00	230.00
a cago maso						25 -		High		Network Engineer	1/6/15	4/8/15	160.00	50.00	210.00
Design Phase Gate Complete								Mediu	um	Project Manager	4/10/15	8/20/15	0.00	80.00	80.00
Annale when Plane								Low		Test Engineer	4/10/15	8/20/15	0.00	230.00	230.00
Construction Phase	50 -12	12	50	50			- 34			Network Engineer Project Manager	4/10/15 8/21/15	8/20/15 9/25/15	0.00	210.00 90.00	210.00 90.00
Construction Phase Gate Complete	25 75 75	75 75	25	25	75					Test Engineer	8/21/15	9/25/15	0.00	190.00	190.00
										Network Engineer	8/21/15	9/25/15	0.00	250.00	250.00
Deployment and Quality Phase							Change Rec	luests		Project Manager	9/30/15	10/29/15	0.00	40.00	40.00
Deployment Phase Gate Complete	0 20 36 100 60 20 100 F	60 100	58	0 40	100		1						527.00	1,263.00	1,790.00
	Status Sc	6 . d. d.	Ali		lisk	2 -							1,321.00	2,551.00	3,872.00
Closing Phase	Status Sc	hedule	Alignment	R	USK			High Mediu					1,021.00	2,001.00	0,012.00
Closing Phase Gate Complete								Low				In with	2.2		
							3								
						-									
	# Project Name	Project Type	Status Sche	dule Alignment	Risk	Issues	CRs Reso		ed Cost						
							Alloca	auons							
	1 XPL Translations	Major Project		•		•			4,260.00						
	2 Meeting Reservation Portal	Major Project		•		*	-		4,950.00						
	3 eBusiness Mobile Network	Major Project	•						6,260.00						
	4 Mobile Time and Approvals	Application Change	• •	•	•	•			9,960.00						
	5 Mobile Device Management (MDM) Deployment	Major Project							6,260.00						
	6 Office Upgrade	Major Project		•					6,260.00						
	7 System Upgrade Release 14	Major Project		•	•	•			6,260.00						
	8 Mobile Advertising	Major Project	• •	•	•				4,400.00						
	9 HR Online Benefits Security Upgrade	Major Project	• •	•	•	•			4,800.00						
		Infrastructure Declaument	A 4			•		6,728 236	6,400.00						
	10 Online Order Performance Improvements 11 Mobility Management Services	Infrastructure Deployment Major Project							3,020.00						

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Jaspersoft Ad Hoc Examples

	ate ×						
	Click to add a title				Total Allocation Hours	Colum Save Ad Hoc View Save Ad Hoc View	
Project Name	 Project Manager 	 Start Date 	Finish Date	Total Actual Hours	Total Allocation Hours	Ro Save Ad Hoc View	and Create Report
 (DELETE) Qualify America Renolit to replace Nanya (Calendared High Gloss) 		⊟ Aug 13, 2013	Aug 14, 2013	0.00	0.00		Click to add a title
 (bold) 36# Fighter Grade as a lower-cost next generation TT face paper. 	Humes - AUTOINACTIVE , Holly	 May 30, 2013 	Jun 1, 2013	0.00	0.00		
 (hold) Sour Fighter Grade as a lower-cost flext generation in face paper. (hold) AD private label - Kimdura Fighter spec 	 Blackwell, Chris(deact) 	 May 50, 2013 Mar 1, 2013 	Mar 4, 2013	0.00	0.00	Project Manager	Project Name
(hold) Add our own nucleator at EFP	 Blackwell, Chris(deact) Blackwell, Chris(deact) 	□ Jul 11, 2013	Jul 12, 2013	0.00	0.00	E Abbott, Paul	Driving SFDC Effectiveness
(hold) Had out own indecator at ETT (hold) Exploration of using PET face instead of BOPP for beer/beverage	Blackwell, Chris(deact) Blackwell, Chris(deact)	□ Jun 27, 2013	Jun 28, 2013	0.00	0.00	Allin, Lee	Transship functionality Travel & Expenses System - South America
(hold) Exploration of using PET lace instead of BOPP for Been/Beverage (hold) Extrude our own PET liner	 Blackwell, Chris(deact) Blackwell, Chris(deact) 	□ Jul 11, 2013	Jul 12, 2013	0.00	0.00	Basak, Surajit	AP BI Program / Project CPMO
(hold) Extrude our own PET inter (hold) Flame Treat @ EFP for cost savings			Jul 12, 2013	0.00	0.00		AP BI Program / Project Finance B
	Blackwell, Chris(deact)	⊟ Jul 10, 2013		0.00	0.00		AP BI Program /Project Finance - Part A
(hold) Tie Coat Weight Reduction	Klich, Paul	⊟ Feb 26, 2013	Feb 27, 2013				BI - AP BI Program (Phase -II - Scrap)
(hold) White PVC Shrink film replacement	Blackwell, Chris(deact)	⊟ Aug 13, 2013	Aug 14, 2013	0.00	0.00		LA BI Program 2018 / Scrap Analytics
 (hold) IAIternative EFP formula (formulate on more PE vs PP resins) 	Blackwell, Chris(deact)	⊟ Jun 27, 2013	Jun 28, 2013	0.00	0.00	🗇 Bedi, Karan	PoC with Linux and Tm1/Expense
 *Copiers for Glendale Office (Value Summit) 	 Rodriguez - AUTOINACTIVE , Johann 		Dec 31, 2015	0.00	0.00	🖂 Bedi, Karan	MES Europe - Risk Remediation Optio to Transform migration
*DUPLICATE*Compounding 2.0 in Alphen - MES Integration (ADU)	 Huizinga, Frank 	🖃 Jan 1, 2018	Dec 31, 2018	0.00	0.00		Upgrade WebSeal for EU Commerce
*Level 3 Rate Reductions	 Rodriguez - AUTOINACTIVE , Johann 		Dec 31, 2015	0.00	0.00	E Block, John	2017 PC refresh - (LGM-NA Resource Cost Only)
= *VMWare Maintenance Rate Reductions	 Rodriguez - AUTOINACTIVE , Johann 		. Dec 31 2015	0.00	0.00		Estavoria CIC Desines Company AlA
∃ *Vodafone Rate Reduction - The Netherlands (Value Summit)	Rodriguez - AUTOINACTIVE , Joha Control						
∃ ,Qualify Catalyst for 54# Semi Gloss Face	🖻 Messer, Kelli Jo	Rows Project Manager ×					
3 0002- fasson.com Claim Changes	Ulle, Cheryl	· ·				Click to add a title	
0033-CLS Gross and Net Wt Maintenance on Invoice	Sadekar - AUTOINACTIVE , Jyoti	Chart Types Chart Format					
 0034-CLS Additional lines in order comments 	Sadekar - AUTOINACTIVE , Jyoti	Lhart Format					
0043-3112 - Analyze Dual Entry	 Beres, John 						
= 0045-3114 Claim Entry Modification	Ulle, Cheryl	130k					
0073-3561 - Update apps.fasson.com Header	Ulle, Cheryl	120k					
0074-3562 - Convert Sample Requests into Opportunities	Merritt - AUTOINACTIVE , William						
0093-3578 - Product Finder Data Automation	Caldwell - AUTOINACTIVE , Brian	110k					
0137-Colombia Transfer Price - Proposal for 2014	Ulle, Cheryl	100k					
 0186-Support Sales Realignment 	Ulle, Cheryl						
 0242 - CR - DW - Sales Realignment - Display Team Members from Table 54 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	90k					
 □ 0253 -PTC Metrix on the Go 	Patel, Bhavna	1 80k					
		1					
	E Ragupathi Senthil	¥					
 0262- ROCCA Process Realignment/ training 	Ragupathi, Senthil Ragupathi Senthil	70k					
 O262- ROCCA Process Realignment/ training O263- PT Salesforce.com Cleanup / Strategy 	🖻 Ragupathi, Senthil	70k					
O262- ROCCA Process Realignment/ training O263- PT Salesforce.com Cleanup / Strategy O264- PT ERP Hi-Level Requirements	Ragupathi, Senthil Ragupathi, Senthil	60k					
O262- ROCCA Process Realignment/ training O263- PT Salesforce.com Cleanup / Strategy O264- PT ERP Hi-Level Requirements O310- SFDC Dataloader Replace Windows XP PC with new solution	Ragupathi, Senthil Ragupathi, Senthil Ragupathi, Senthil	Tota					
O262- ROCCA Process Realignment/ training O263- PT Salesforce.com Cleanup / Strategy O264- PT ERP Hi-Level Requirements O304- SFD Cataloader Replace Windows XP PC with new solution O310- SFDC Dataloader Replace Windows XP PC with new solution O317 - New Label format for Walnut Industries	Ragupathi, Senthil Ragupathi, Senthil Ragupathi, Senthil Ragupathi, Senthil Ragupathi, Senthil	60k					
0262- ROCCA Process Realignment/ training 0263- PT Salesforce.com Cleanup / Strategy 0264- PT ExP Hi-Level Requirements 0310- SFDC Dataloader Replace Windows XP PC with new solution 0317- New Label format for Walnut Industries 03141- Salesforce Opportunity to Case Syncronization	Ragupathi, Senthil Ragupathi, Senthil Ragupathi, Senthil Ragupathi, Senthil Ragupathi, Senthil Ragupathi, Senthil	50k				- 1	
O262- ROCCA Process Realignment/ training O263- PT Salesforce.com Cleanup / Strategy O264- PT Salesforce.com Cleanup / Strategy O310- SFDC Dataloader Replace Windows XP PC with new solution O310- SFDC Dataloader Replace Windows XP PC with new solution O310- State format for Walnut Industries O311- Salesforce Opportunity to Case Syncronization O362- Continuous Improvement IT Request Life Cycle	Ragupathi, Senthil Ragupathi, Senthil Ragupathi, Senthil Ragupathi, Senthil Ragupathi, Senthil Ragupathi, Senthil Ragupathi, Senthil	50k					
O262- ROCCA Process Realignment/ training O263- PT Salesforce.com Cleanup / Strategy O264- PT Salesforce.com Cleanup / Strategy O310- SFDC Dataloader Replace Windows XP PC with new solution O310- SFDC Dataloader Replace Windows XP PC with new solution O317 - New Label format for Walnut Industries O341- Salesforce Opportunity to Case Syncronization	Ragupathi, Senthil Ragupathi, Senthil Ragupathi, Senthil Ragupathi, Senthil Ragupathi, Senthil Ragupathi, Senthil	50k					

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		Measures Total Actual Hours
Project Manager	Project Name	Neddures Total Actual Hours
Abbott, Paul	Driving SFDC Effectiveness	25.00
E Allin, Lee	Transship functionality	425.00
Arbelaez, Luz	Travel & Expenses System - South America	458.00
 Basak, Surajit 	AP BI Program / Project CPMO	196.00
	AP BI Program / Project Finance B	119.50
	AP BI Program /Project Finance - Part A	1,506.00
	BI - AP BI Program (Phase -II - Scrap)	940.50
	LA BI Program 2018 / Scrap Analytics	1,221.00
	PoC with Linux and Tm1/Expense	62.50
🗉 Bedi, Karan	MES Europe - Risk Remediation	173.00
	Optio to Transform migration	1.00
	Upgrade WebSeal for EU Commerce	17.00
E Block, John	2017 PC refresh - (LGM-NA Resource Cost Only)	1,159.50
	Enternaine CIC Dunings Commany MIA	324.58
		227.92
		90.50
		317.95
		48.50
		79.00
		1,399.51
		45.00
		1,945.75
		708.50
		88,317.32
		22,011.20
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		7,912.50
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Integrated BI Tools



Enterprise BI

- Many organizations have an enterprise BI tool within their reporting landscape. It is important to define how Clarity fits into the enterprise standards.
- Gartner magic quadrant BI platforms include:
 - Microsoft PowerBl
 - Tableau
 - Qlik View
- If you are an on-premise implementation, you can connect directly to the built-in data warehouse.
- If you are a SaaS implementation, you have several options for connecting:
 - OData Connection (Enhanced AWS OData connection coming soon!)
 - Flat file extracts & report directly against files
 - Flat file or API-based extracts loaded into on-premise or cloud database (3rd party ETL tools help)



OData Direct Connection

Power Bl

- Qlik Q
- X Excel

- On-Demand customers can use an OData connector to point a BI tool at the Clarity DWH.
- The connector will only go against the updated Data Warehouse
- The connector was optimized to work with PowerBI, but can used with other reporting BI tools – even Microsoft Excel
- Row level security possible with custom BI User ID on the Clarity Resource
- Ability to have individual logins for OData access

PowerBI Examples

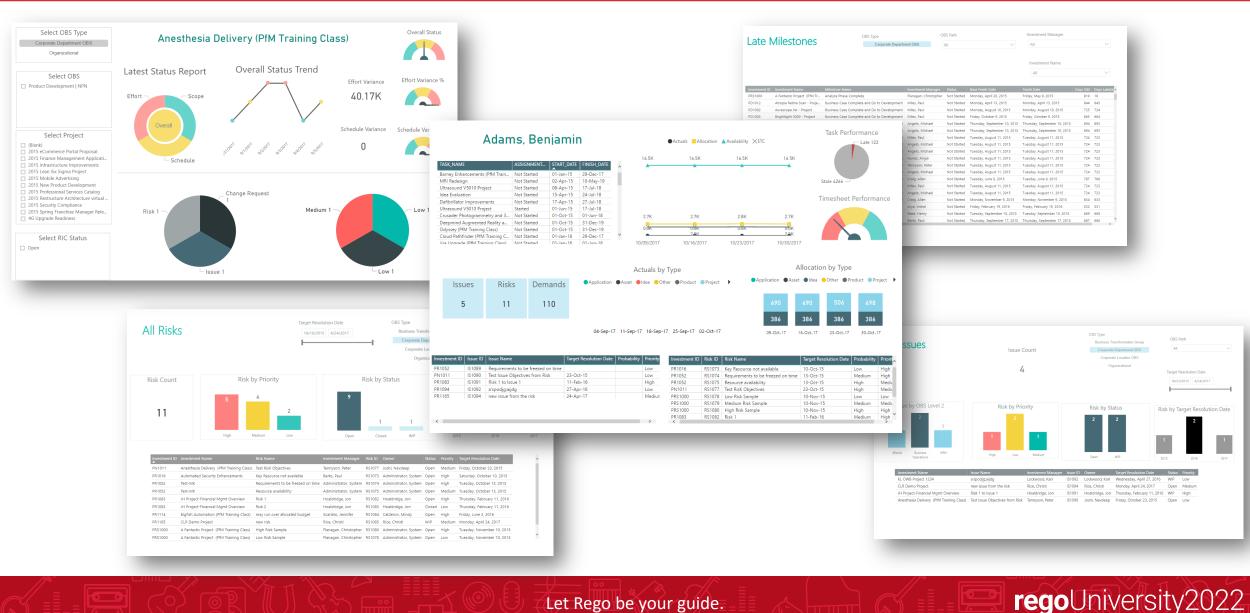


Tableau Examples

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Best Practice Recommendations



Open Mic

- What is your primary reporting tool? (Portlets, Jaspersoft, PowerBI, Tableau, Others)
- How are reports typically consumed? (Web, Mobile, Email, Print)
- How do your executives want to consume reports?
 - Email
 - Printed
 - Mobile
 - Sharepoint
 - Web



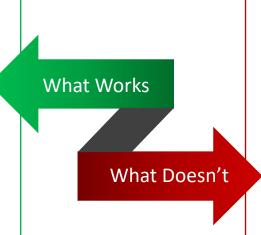
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In most cases, the reality is not a single reporting solution, but a mix of tools

- Case 1 (SaaS, 1,000 Users)
 - Portlets data governance & exception reporting
 - Jaspersoft Ad-Hoc end user ad-hoc requests, semi-"standard"
 - Enterprise BI (Tableau) Standard reports / dashboards
- Case 2 (SaaS, 200 Users)
 - Mostly OOTB or RegoXchange portlets and Jaspersoft reports
 - Set of executive-level PowerBI dashboards using OData connection
- Case 3 (On-Prem, 5,000 Users)
 - Built on on-premise DWH. Data extracted from Clarity, VersionOne, JIRA, ServiceNow, etc.
 - Instead of integrating tools, combined on the reporting side
 - Not a single enterprise BI tool, but tool agnostic PowerBI, Excel, Cognos all pointing to the same DWH

Best Practices

- With any report, identify the top question(s) that the report should answer
- Use the right report technology for the job (Portlets, Jaspersoft, Enterprise, etc..)
- Converting Excel reports that are already operationalized and moving them into the tool can gain big benefits
- Automation of report delivery
- Having leadership adopt the tool and utilize the tool's dashboards (eventually moving away from "receiving" dashboards to "using" dashboards)
- Ensure that the reports are designed for 'Easy Reading'
- Ensure the data definition of data is the uniform for all reports



- Having people go into the tool to pull out extracts and fish for the data
- Developing reports that have too many data columns, which can cause the report to lose its purpose
- Having scenarios where the user is taking a report from the system, copying and pasting parts of it into a PPT/Excel, and generating another report outside of the tool
- Creating different versions of the same report for different business units. This should be handled with thoughtful filters
- Creating reports with data that is inconsistent with other systems, and not having a clear understanding of ownership of data

Questions?



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- Date Completed = Today's Date ۰
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Let us know how we can improve! Don't forget to fill out the class survey.

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