

How we use Resource Capacity &

Demand at Montefiore IT

September 22, 2017



INFORMATION TECHNOLOGY

Agenda

- Introductions
- Need for Resource Capacity vs. Demand
- Basic Montefiore IT PMO Concepts
- Resource and Project Manager Dashboards
- Impact of Improvements
- Next Steps
- Questions



Introductions

- David Eng
 - Assistant Director at Montefiore IT overseeing the Project Management Office, Service Management Tool and Apple Teams
 - Over 10 years experience in Project Portfolio Management as a Project Manager and manager of the PMO
 - Responsible for providing the processes, tools and data to guide Montefiore IT in choosing what to work and ensuring we have the resource and methodology to successful complete the work.
- Montefiore IT PMO
 - Defines and maintains the portfolio and project management standards used by Montefiore IT for all projects across all customers
 - Established in early 2000's
 - Moved to On Demand in 2009
 - Staff of 5 (not including project managers who do not currently report into the PMO)
 - ~900 Clarity users and ~300 investment files



Introductions

- Montefiore Health System (MHS)
 - Premier academic medical center made up of
 - 11 hospitals
 - a primary and specialty care network of 200+ locations across the Bronx, Westchester County and lower Hudson Valley
 - an extended care facility
 - the Montefiore School of Nursing
 - Albert Einstein College of Medicine
 - Partnered with various other medical centers in the NYC area
- Montefiore Information Technology (IT)
 - Wholly owned subsidiary of Montefiore Health System responsible for IT related efforts of the Health System such as support of current IT system and implementation of enhancements and new IT systems
 - Provides data center functionality for multiple medical centers in the NYC area

To heal, teach, discover, and advance the health of the communities we serve



Need for Resource Capacity vs. Demand

- No quantifiable data to show Capacity vs Demand
 - Limited visibility into department's availability
 - Limited visibility into the impact of new work on departments
 - Inaccurate data on estimates to complete requests
 - Departments found it hard to justify saying "No" to a work being requested
 - Projects delayed due to a department taking on too much
 - Very little trust that capacity vs. demand reports were accurate
 - Monthly portfolio meetings were ineffective. Meetings talked more about what estimates needed to be updated vs. making decisions based on the data
- Montefiore continues to grow at a fast pace. To support this growth we need to be able to effectively and efficiently manage current and future work





Resource Capacity vs. Demand Basics

- Estimates (ETC) are the key piece of data we use. We don't use allocation
- Resource capacity and demand is viewed by organization structure (i.e., department and teams). Not role based.
- Resource hours are separated into 4 types of work
 - Administrative: Task to run the business (i.e., Performance Reviews, Training)
 - Core: Maintain existing functionality..."keeping the lights on"
 - Enhancement: New/Improved functionality that does not require significant effort
 - Project: New implementations that require significant effort and requiring multiple domain areas
- Administrative estimates are managed by PMO
- Core and Enhancement estimates are managed by resource managers
- Project estimates are manages by project managers



Clarity Improvements: Role Based Dashboards

- Groups functionality by role and easily accessible from main menu
- Team Member
 - View where and how much time was tracked across timesheets
 - Shows current estimates across investments
- Resource Manager
 - Real time view to resource utilization/availability
 - Real time estimate data
 - Single screen to view previous actuals and future estimates
- Project Manager
 - Identify potential project issues using Key Performance Indicators
 - Single screen to update attributes across projects (i.e. status comments)
 - Real time estimates and make simple updates without Open Workbench.
- Executive
 - Reports/Portlets showing key project data



RM Dashboard: Resource Demand

- Real time view of resource utilization/availability
 - Do resources have too much work or can take on more work
 - What investments resources are working and make sure estimates are correct
 - Compare actuals from previous months to estimates from future months
 - Update estimates directly from Clarity without using Open Workbench

Resource Demand Sum	mary	Summar	y view o	f resol	irce (estimate	S								
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Evana, Daphine	Springer, Roger	\$ 30.07		126.49											
Grayson, Marc	Eng. David	\$55.32		148.60											
Nyazov, Aleksandr	Grayson, Marc	27.77		138.83											
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RM Dashboard: Portfolio Demand

- Real time investment estimates by department and team
 - Make sure your resource's work is estimated correctly

Demand by Portfol	io			0									
Department							2015-04-01	2015-05-01	2015-06-01	2015-07-01	2015-08-01	2015-09-01	
	Project Phase	Priority	Project Name	Start Date	Finish Date	Project Manager	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	
Comprise Trade and Accounts	-		Street, Josepher prophered	Secondary 1	-	Strendling.	5.00						
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View resources by Department

	Demand by Tear	n												Q
	1								2015-04-01	2015-05-01	2015-06-01	2015-07-01	2015-08-01	2015-09-01
	Department	Team	Project Phase	Priority	Project Name	Start Date	Finish Date	Project Manager	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate
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Team	Company Tank	Angele Product Research & No.	-		International Constants & Statements and Statements			Life Sec	0.60	2.99	3.28	3.13		
	Company Tank	And Public Control of	-		Construction in cash		-	Sugar, Spr.	4.50	7.50				
	Company of the local division of the local d	the second se		100	the second s	-	-	inclusion in the	6 27	17 23				



PM Dashboard: Portfolio Demand

- Real time estimates by project
 - Make sure your resource's work is estimated correctly
 - Update estimates directly from Clarity without using Open Workbench

							2015-04-01	2015-05-01 Estimate	2015-06-01 Estimate	2015-07-01	2015-08-01	Estimates b
Project Name	Project Manager	Project Phase	Priority	Start Date	Finish Date	Resource Department	Estimate			Estimate	Estimate	Department
							32.59	47.94	30.74	30.74		
							140.93	133.38	139.72	62.66		
							12.50	7.52				
							3.12	15.59	17.15	17.15		
							10.00	10.00				
							42.27	211.35	232.48	232.48		
	-	-		-	-		32 82	184 17	203 75	203 75		

Update estimates from Clarity by clicking on task name

Project Project Man														2015-04- 01	- 2015-05- 01	- 2015-06- 01	2015-07- 01	20
	Project Manager		Task	Resource	Resource Manager	Assignment Start		Project Phase	Priority	Start Date	Finish Date	Department	Team	Estimate	Estimate	Estimate	Estimate	Es
Navel Descentation Realities Disable Materials - Name 1	Ngo, Steve	-	Group & Ulea Deployment	rial faith	Harmon, Ruth	3/28/15	4/27/15	Approved	2	06/26/2012	08/01/2015		PDS Business & Infrastructure Team	6.50				
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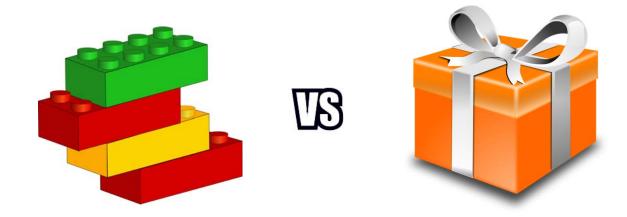
Non-Clarity Improvements

- More visible Executive sponsorship
- Introduced Portfolio Manager aligned to departments
 - Assist Departments in understanding capacity vs demand concepts
 - Train resource managers on how to view and update estimates
 - Meet with resource managers once a month to review dashboards and highlight potential issues
- Increased visibility of reports
 - Reports used by executives made available to everyone
 - Reports sent to key individuals in addition to Department directors



Build vs. Out of the Box

- Ease of use to view/update real time role and resource estimates in one screen
- No out of the box functionality to view/update assignments by department and team
- Needed way to view resource capacity by type of work (i.e., Admin, Core, Enhancement, Project)





Impact of what was implemented

- Resource and Project managers find it much easier to keep their estimates accurate
- Executives trusted the reports
- Portfolio meetings focused on making decisions instead of questing report accuracy
- Provided quantifiable data to Montefiore leadership to prioritize IT work and justify funding for resources and consulting
- General feeling from employees that leadership was trying to control their workload that boosted morale



First report (1/2014): Overcommitted by ~65% in the next 3 months Latest report (7/2017): Overcommitted by ~12% in the next 3 months



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Next Steps



- Enhance Clarity to be able to break down capacity by types of work (i.e., Admin, Core, Enhancement, Project) instead of 1 overall number
 - Rego assisted in development to view and manage "subcapacities"
 - Provides ability to assign a resource's capacity per work type that can then be rolled up to a team/department
 - Capacities used to set team budgets
- Determine best approach to save snapshots of data (i.e., investment ETCs at the beginning of each month).
 - Needed to create trending and audit reports
- Automate creation of portfolio reports



Questions/Contact Info

David Eng Assistant Director - PMO deng@Montefiore.org 914-457-6010

Joseph Stabile Senior Product Manager - PMO jstabile@montefiore.org 914-457-6386

Tammi Reel-Davis Technical Lead - PMO treel@montefiore.org 914-457-6353

