



Tableau User Group UC San Diego: Executive Dashboard

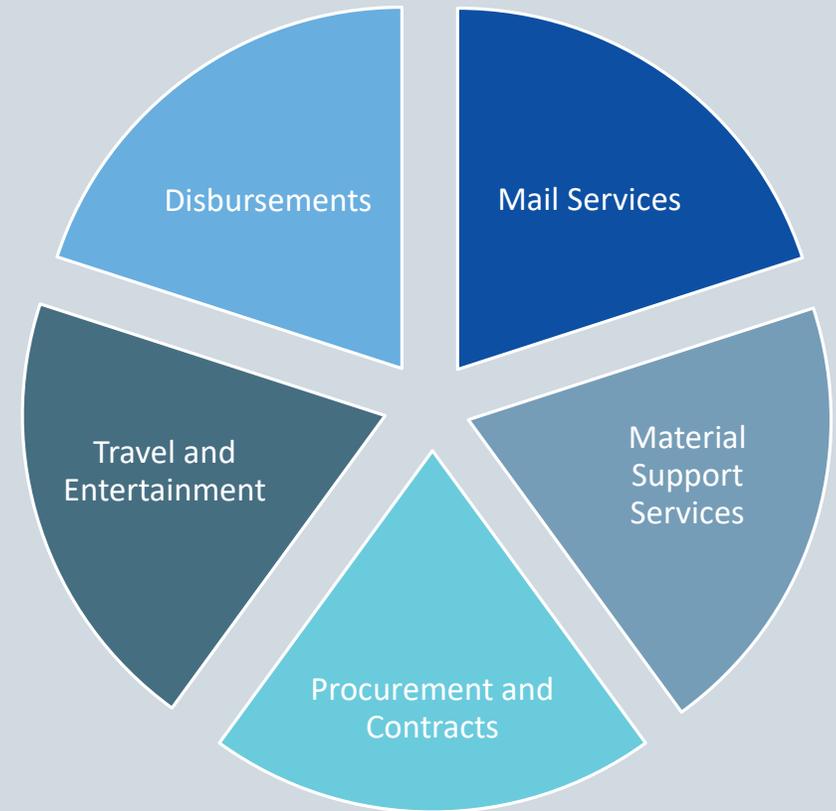
UC SAN DIEGO - IPPS ANALYTICS

IRVIN PALACIOS

Integrated Procure-to-Pay Solutions

Our mission:

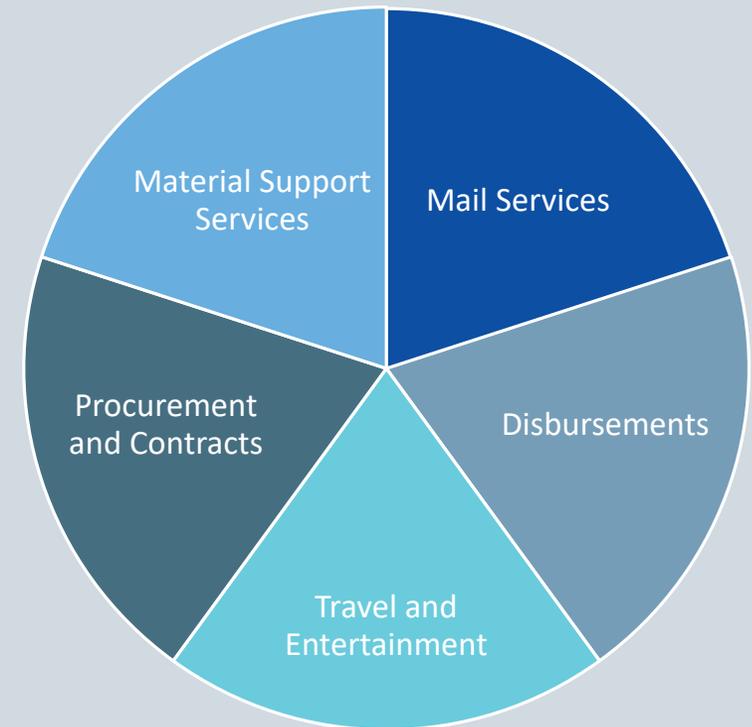
Integrated procure-to-pay solutions and customer care in support of world-class education and research



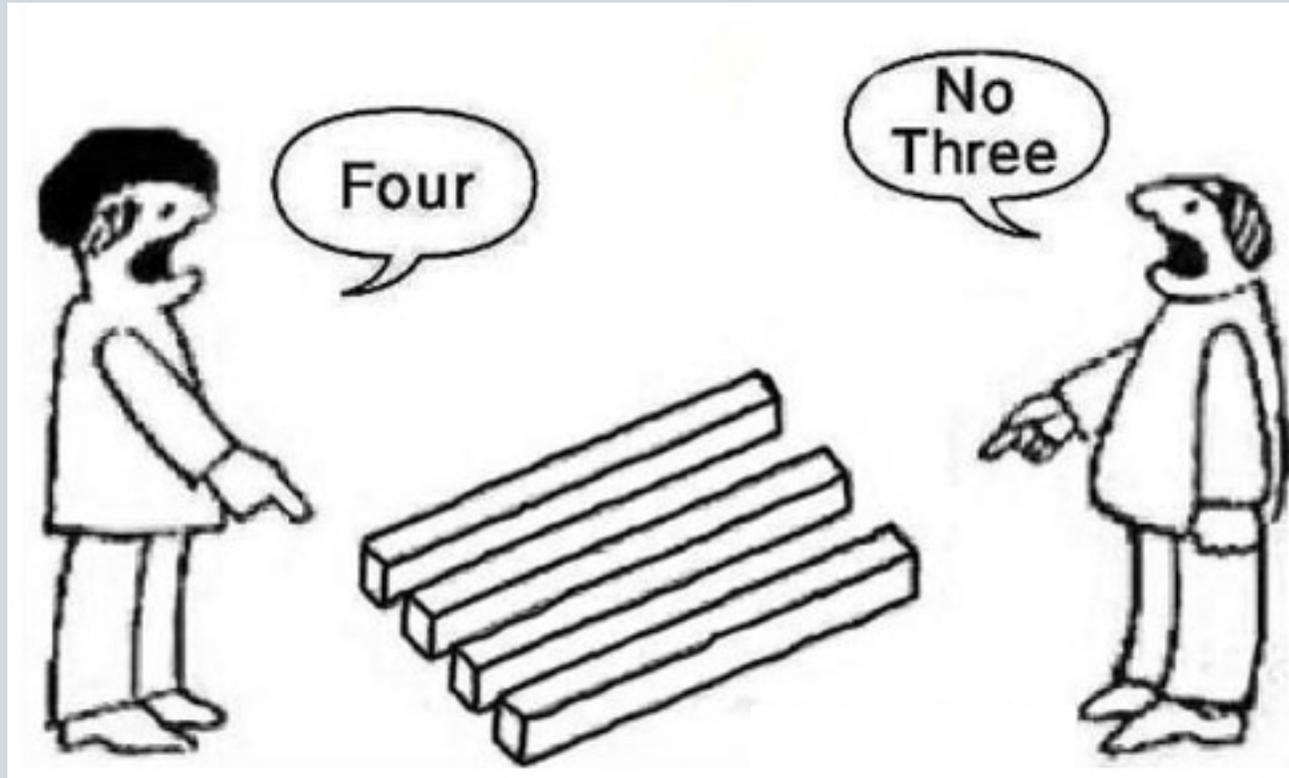
Integrated Procure-to-Pay Solutions

Our mission:

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What Is The Truth?



IPPS Executive Dashboard

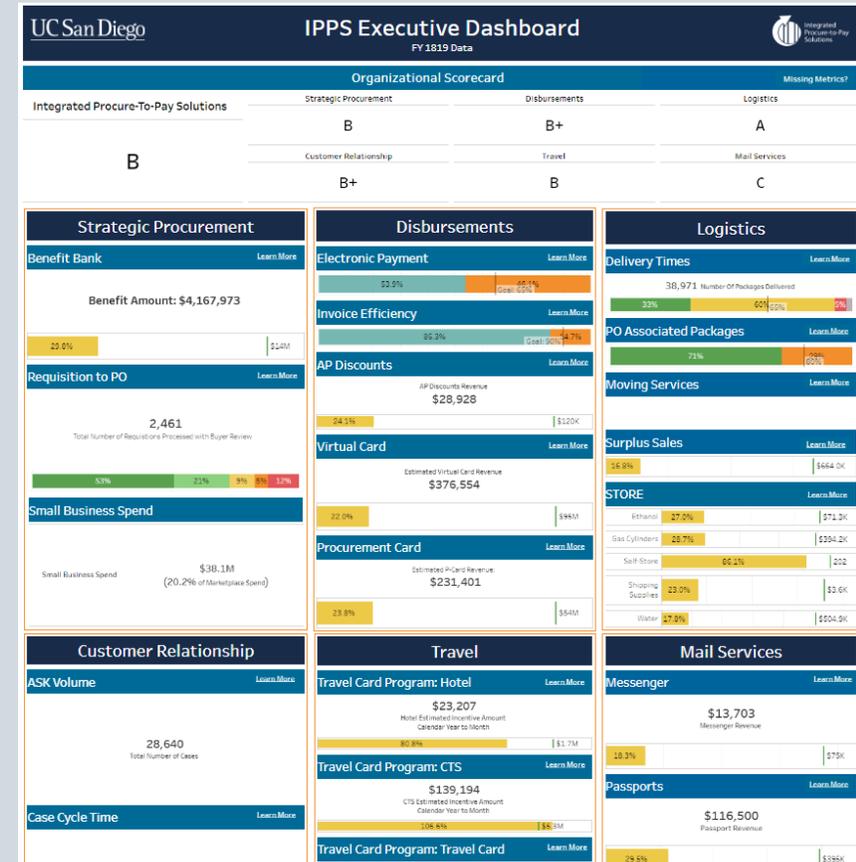
Houses strategic metrics in ONE dashboard

Owned by IPPS Core Leadership Team

Maintained by the IPPS Analytics Team

Dashboard Features:

- 30+ Metrics
- 14 Unique Data Sources
- Visual Grading System
- Underlying Supporting Dashboards



Adventure Time



1. Defining Metrics Process
2. Leveraging Business Intelligence Features
3. Tiers & Building Data Sources
4. Grading System
5. The Lessons We Learned

Metric Collection



Leadership Buy-in is Essential

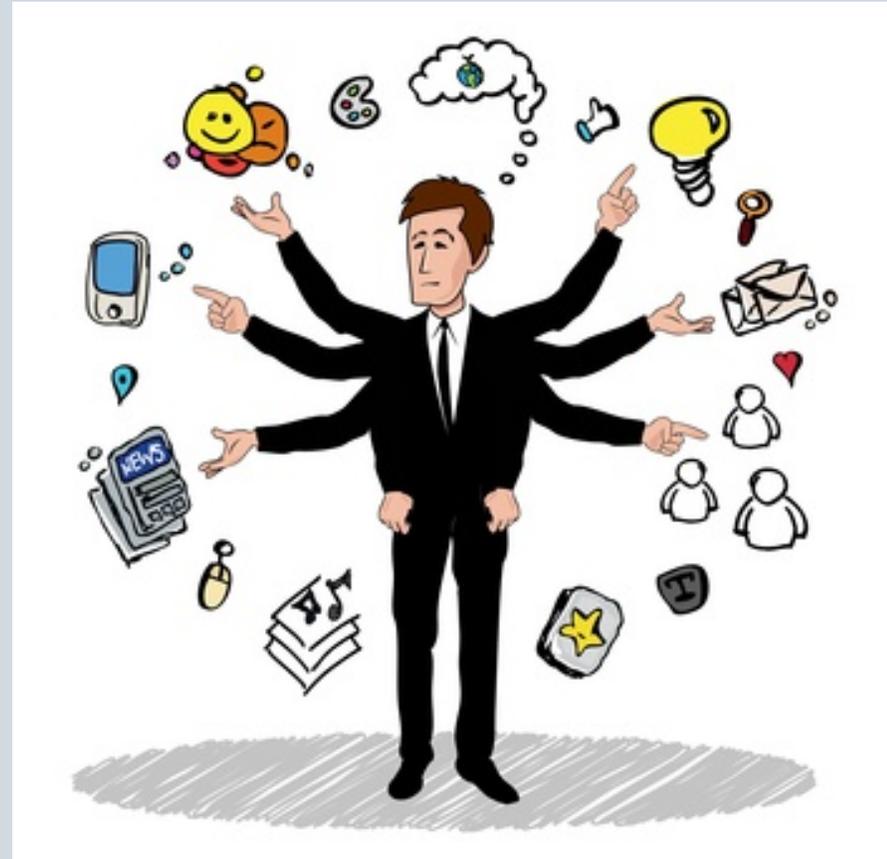
- Core knowledge and decision maker



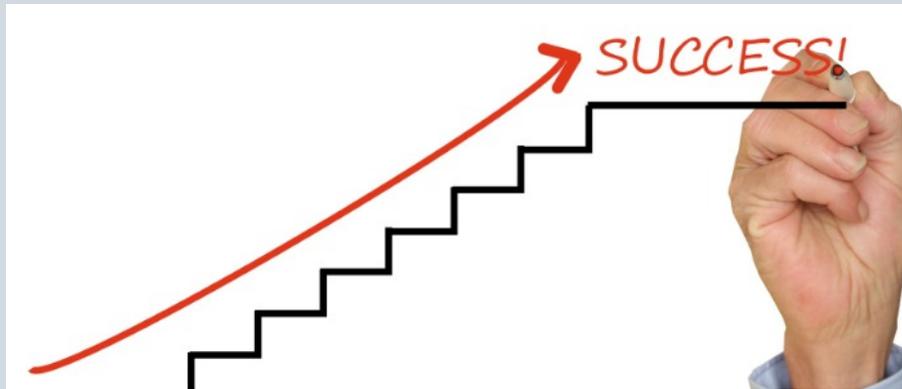
What Metrics to Develop?

- Wish list

Juggling The List

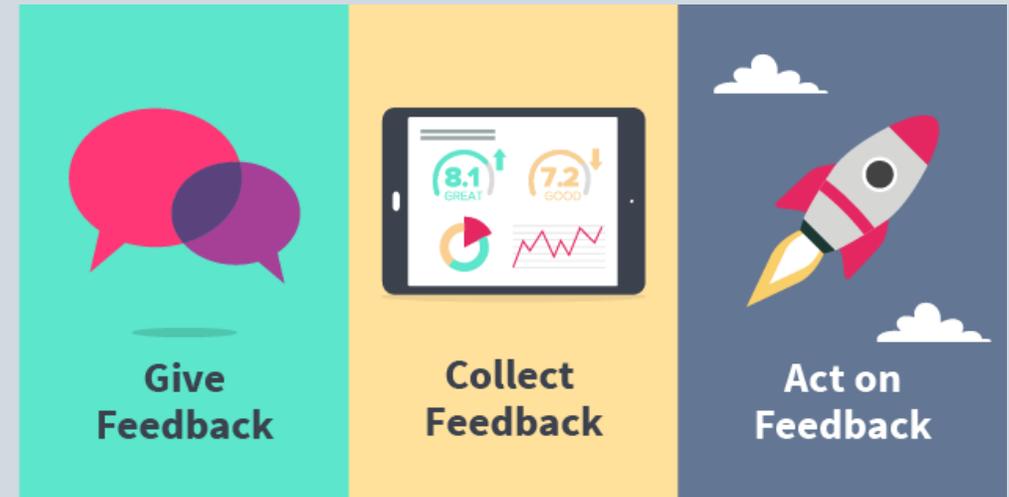


Metric Collection



How Feasible are the Metrics?

- Importance to the organization?
- Impact to Analytics Team workload?
 - Complexity & Data Access



Continuous Engagement

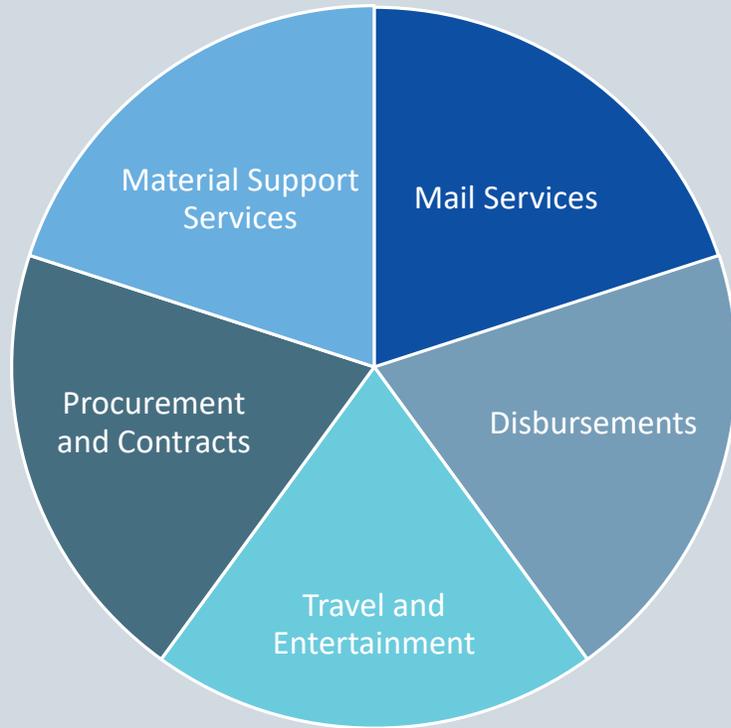
- Meet with division leaders 2-3 times a week

Avoiding The Pitfall



Pitfall: High Data Volume
High Volume of data = Slow Performance

How Much Data?!?

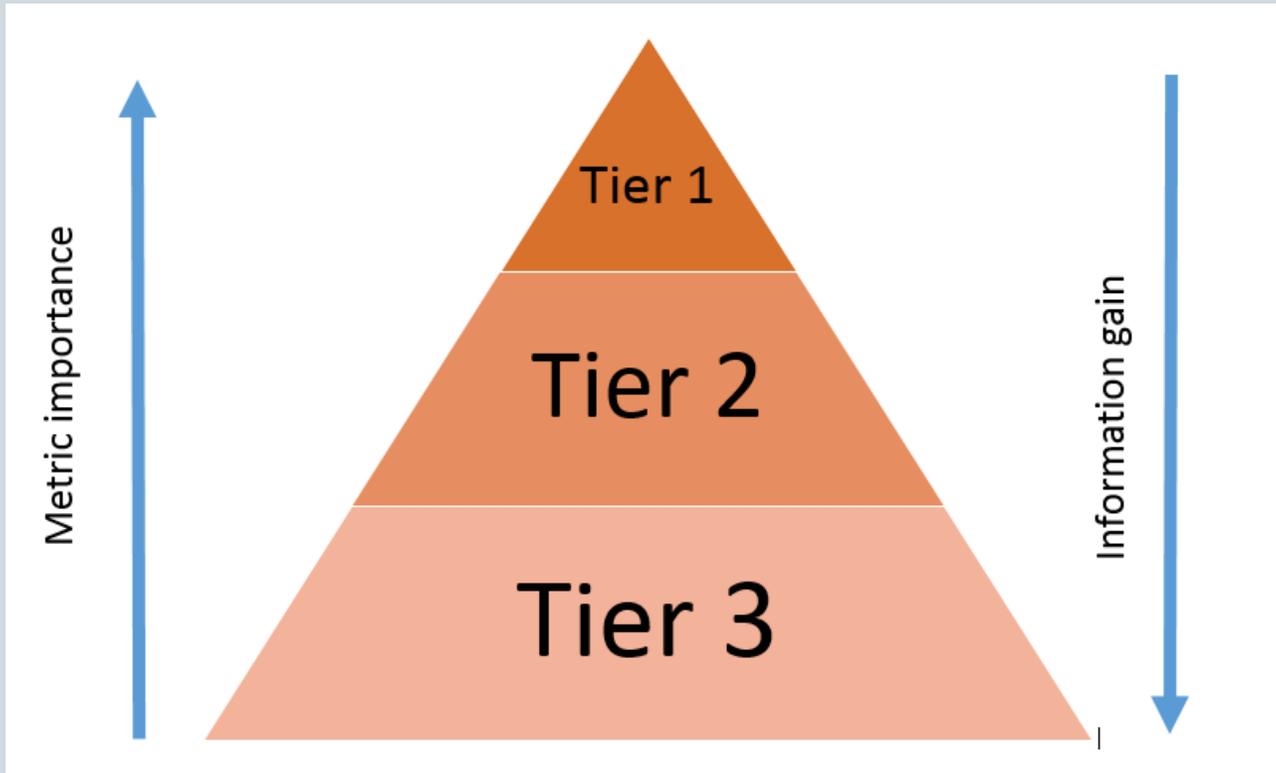


*No computers were harmed in the making of this dashboard

Avoiding The Pitfall

Solution:
Tier Dependent Data Sources

Data Tiers

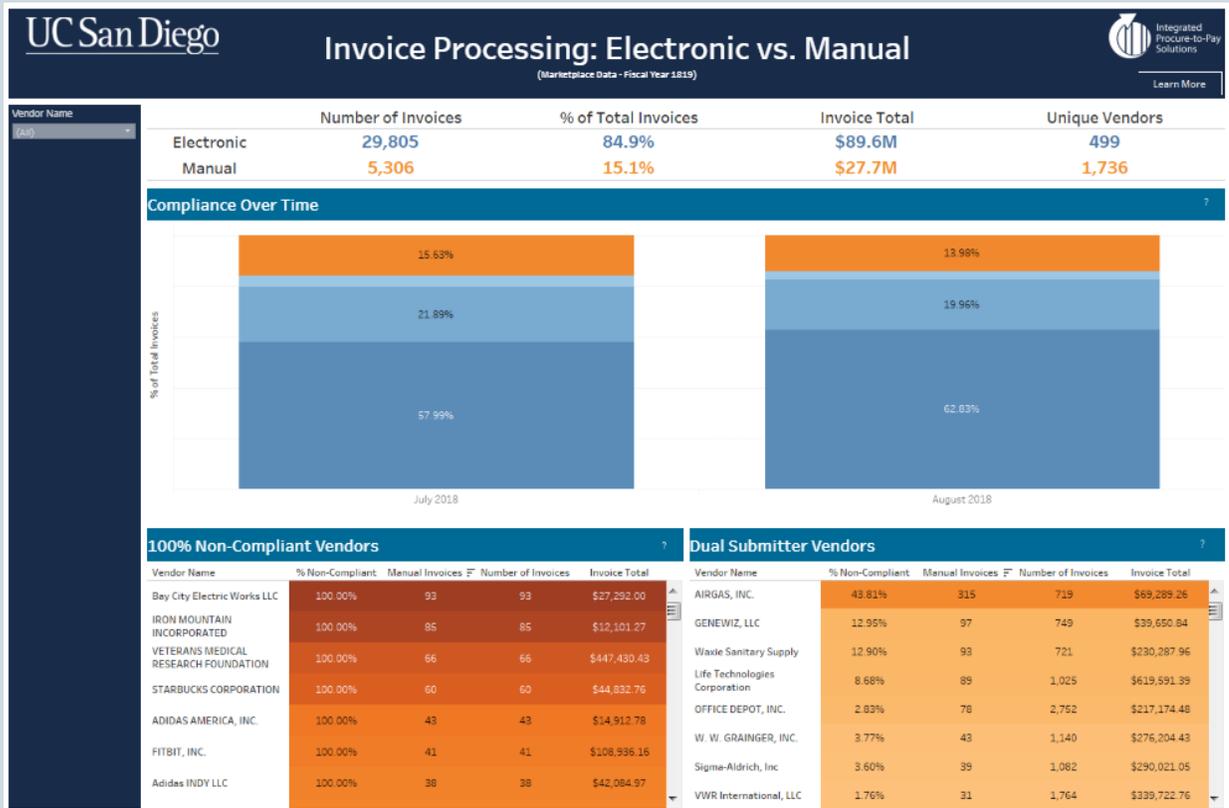


Tier 1 = Executive Dashboard (1)

Tier 2 = Director Level
Dashboard (36)

Tier 3 = Project Based
Dashboard

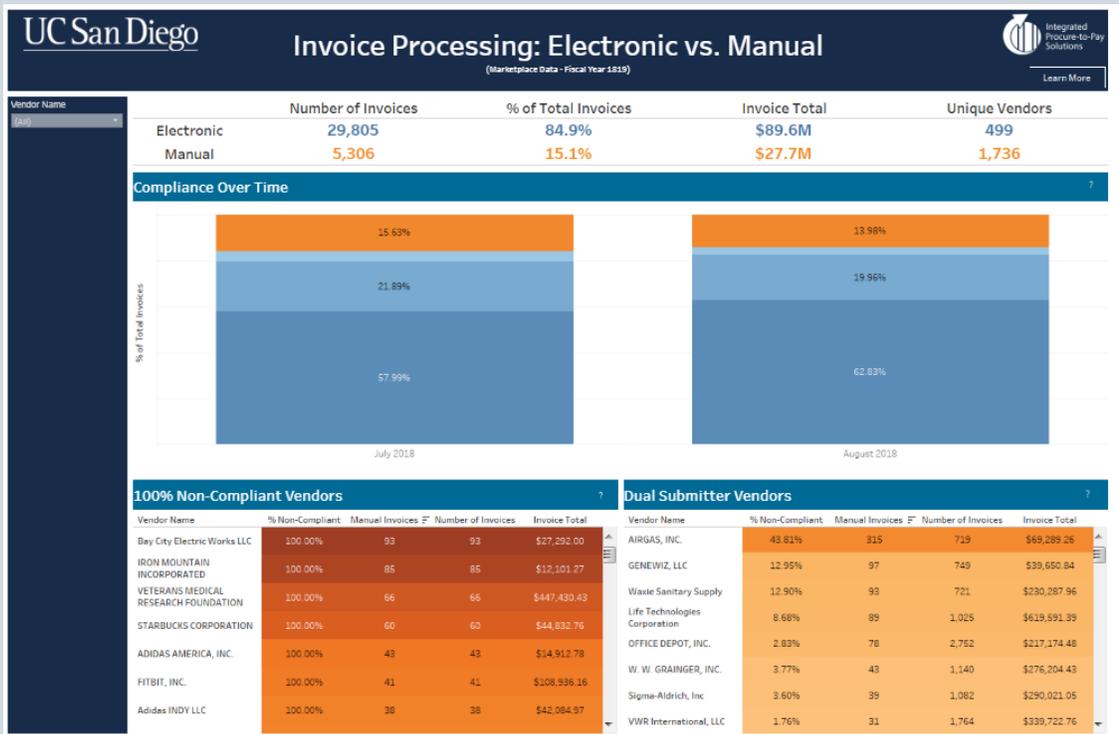
Data Structures: Tier 2



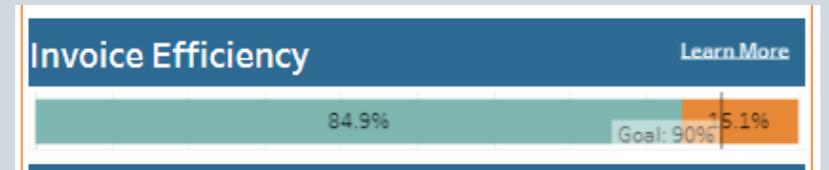
Tier 2

- Supporting details for Tier 1 metrics
- Explain WHAT is happening & WHY it is happening
- Information based on transactional level
- There is a lot of data stored in this tier

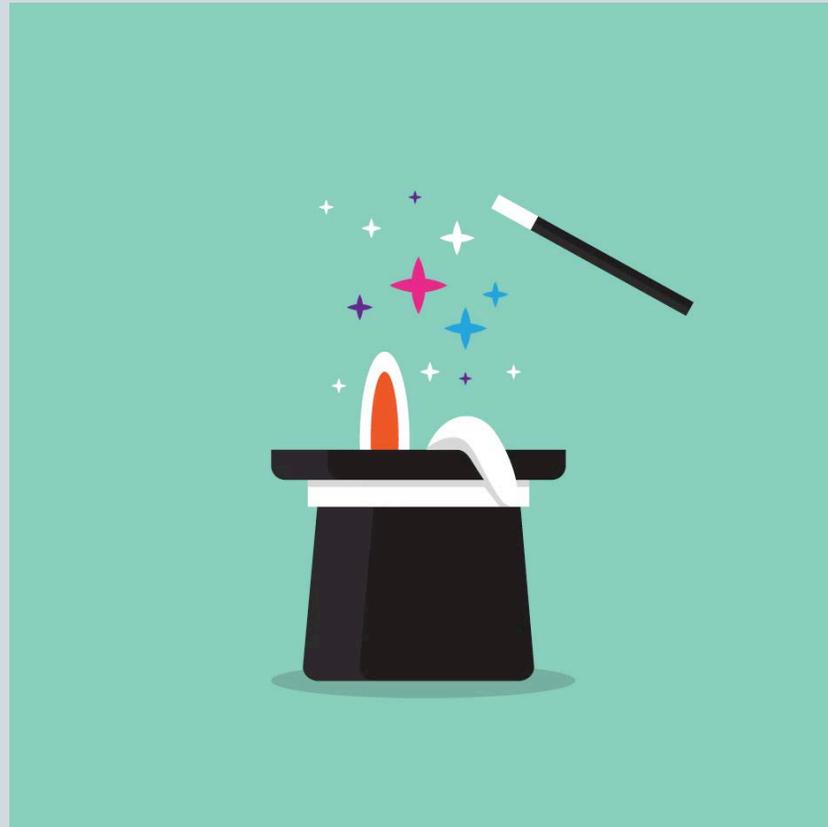
Data Structures: Tier 1



Tier 1 Metric:



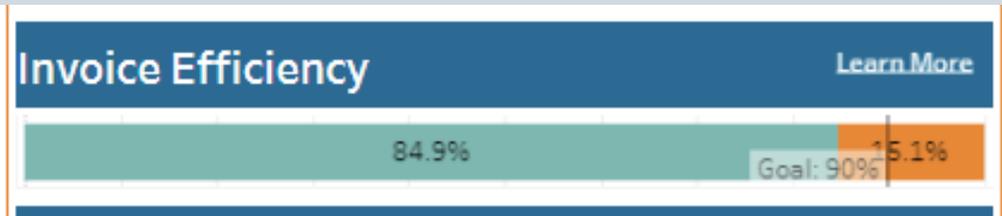
Data Structures: Tier 1



Data Structures: Tier 1

Tier 1

- High level single metric visual



Key: Summarize data to build one visual

View Data: Sheet 109

64,437 rows → Show aliases Show all fields

Electronic v Manual	Ih Invoice Create Date	Ih Invoice Source	Invoice Date	Invoice Line Id	Invoice Number
Electronic	7/1/2018 12:00:00 AM	cXML	7/1/2018 12:...	198364329	82004028
Electronic	7/1/2018 12:00:00 AM	cXML	7/1/2018 12:...	198364393	82004029
Electronic	7/1/2018 12:00:00 AM	cXML	7/1/2018 12:...	198364391	82004029
Electronic	7/1/2018 12:00:00 AM	cXML	7/1/2018 12:...	198364394	82004029
Electronic	7/1/2018 12:00:00 AM	cXML	7/1/2018 12:...	198364392	82004029
Electronic	7/1/2018 12:00:00 AM	cXML	7/1/2018 12:...	198364390	82004029

Summarize
Data

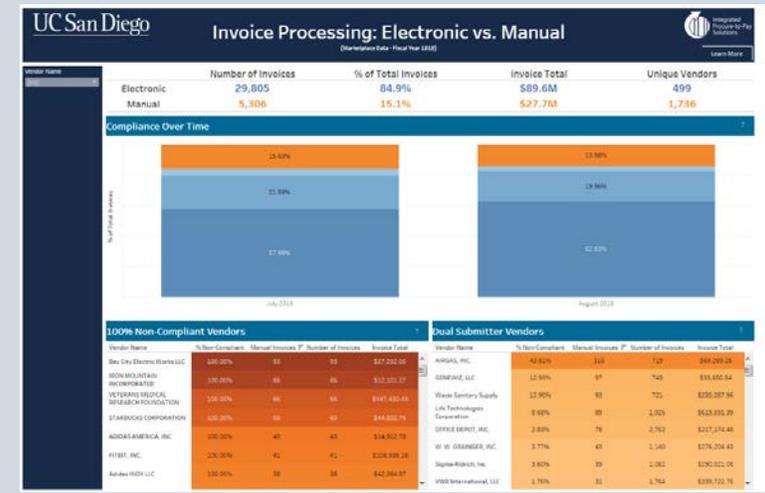
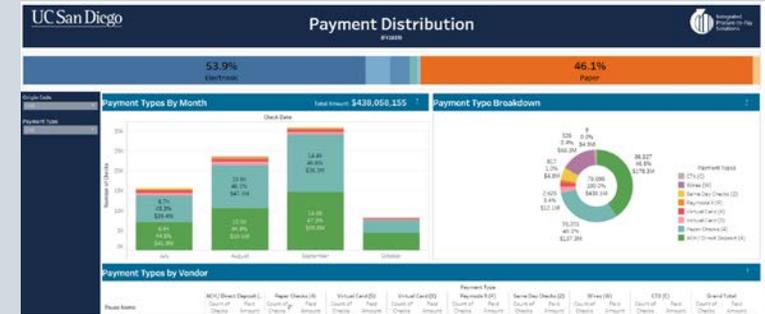
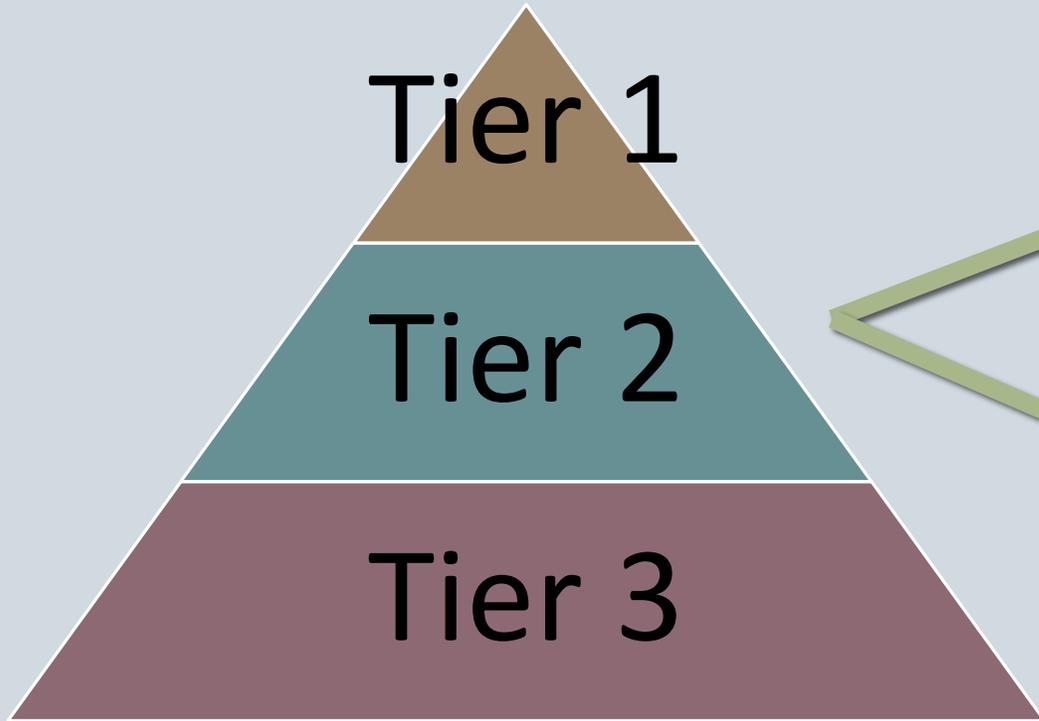


View Data: qry_Exec_InvoiceSourceTypeAmountCountPart2 (Executive_Disb_DB)

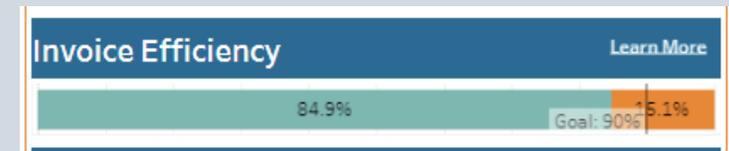
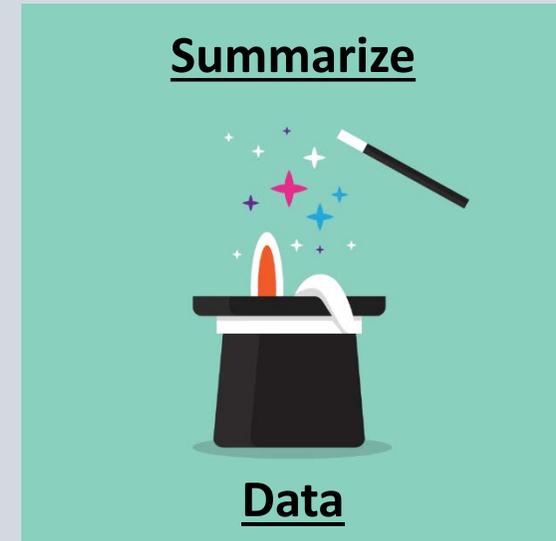
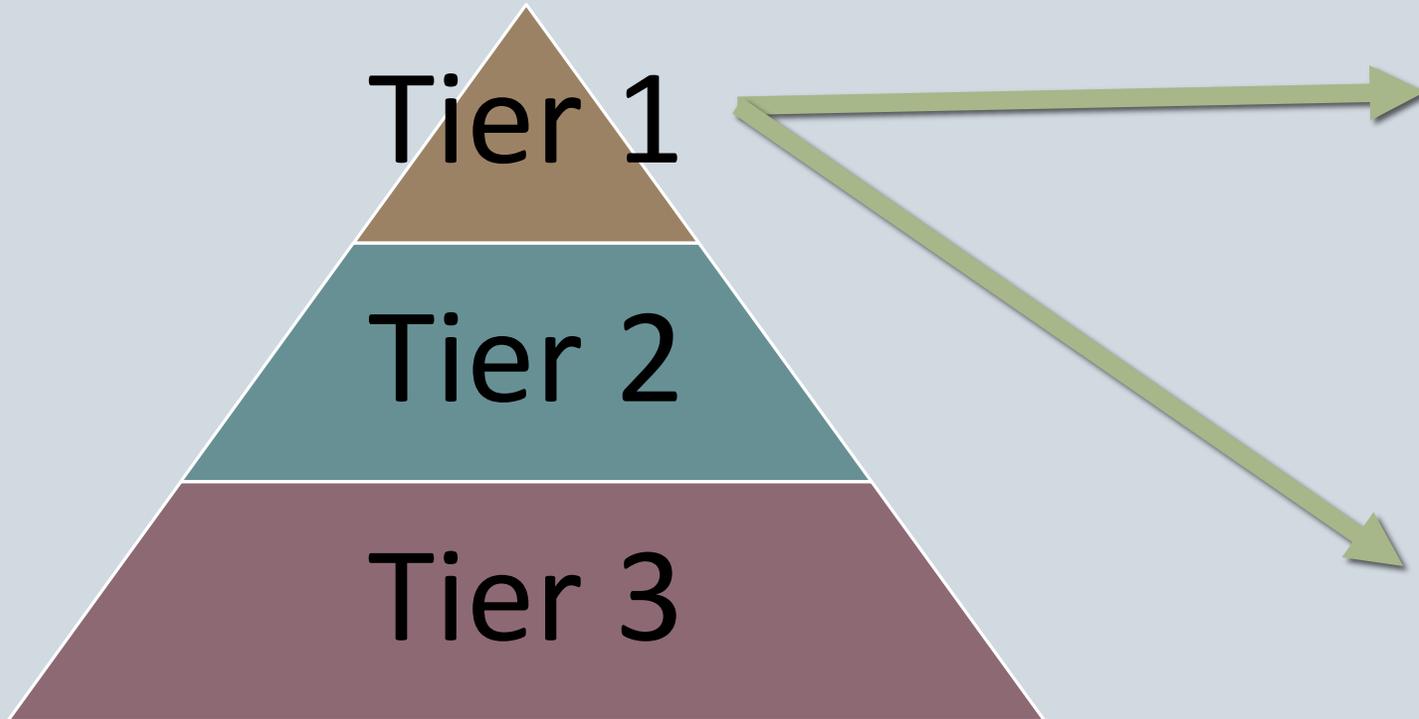
4 rows → Show aliases Copy Export All

Electronic v Manual	Ih Invoice Source	CountOfINVOICE NUMBER	Electronic Goal	Number of Records
Electronic	Electronic	20,896	0.900000	1
Electronic	Invoice Imp	7,472	0.900000	1
Manual	Manual	5,306	0.900000	1
Electronic	Supplier Po	1,437	0.900000	1

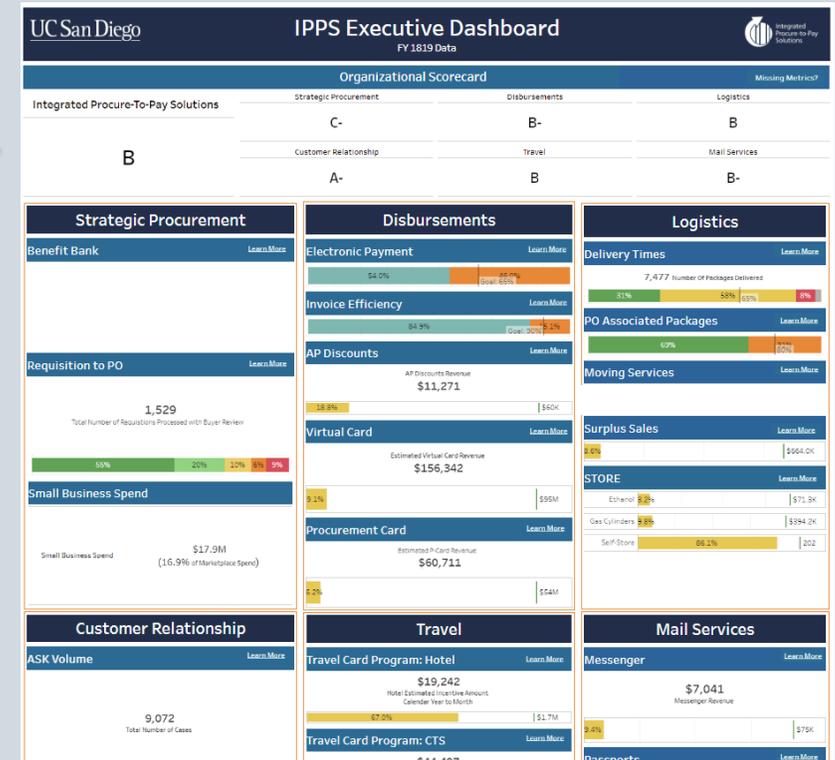
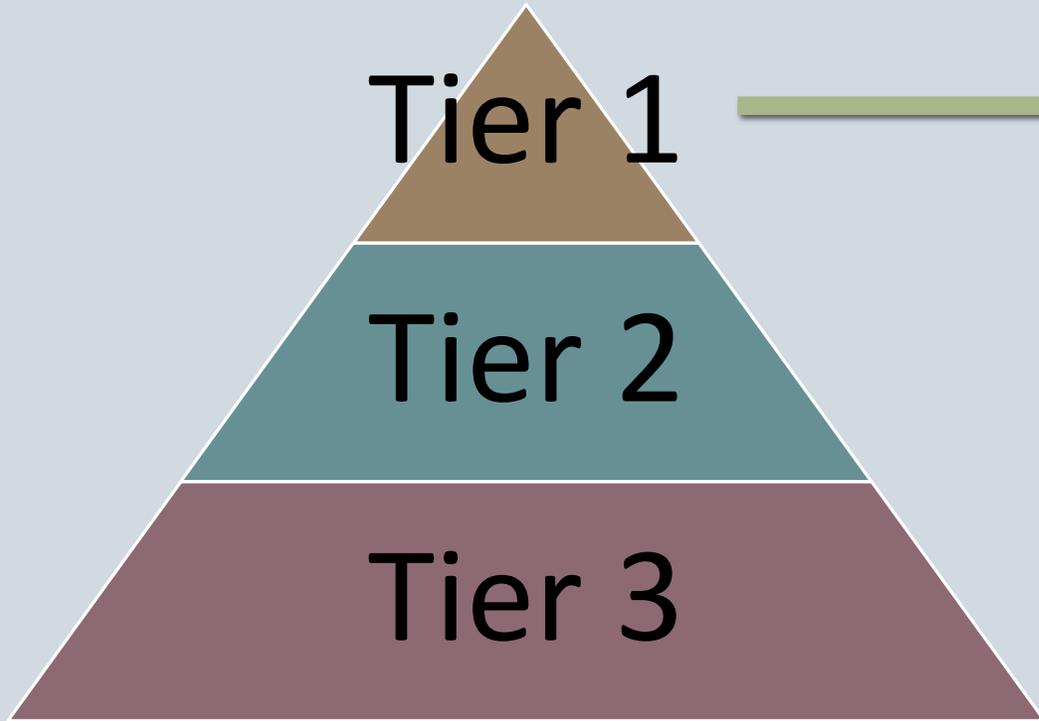
Recap Slide



Recap Slide



Recap Slide



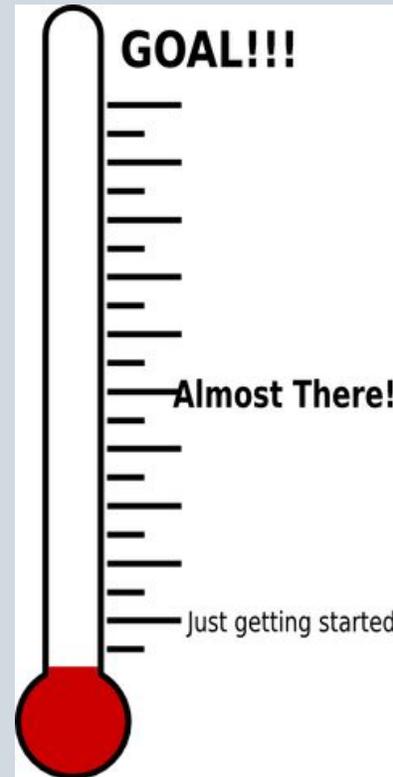
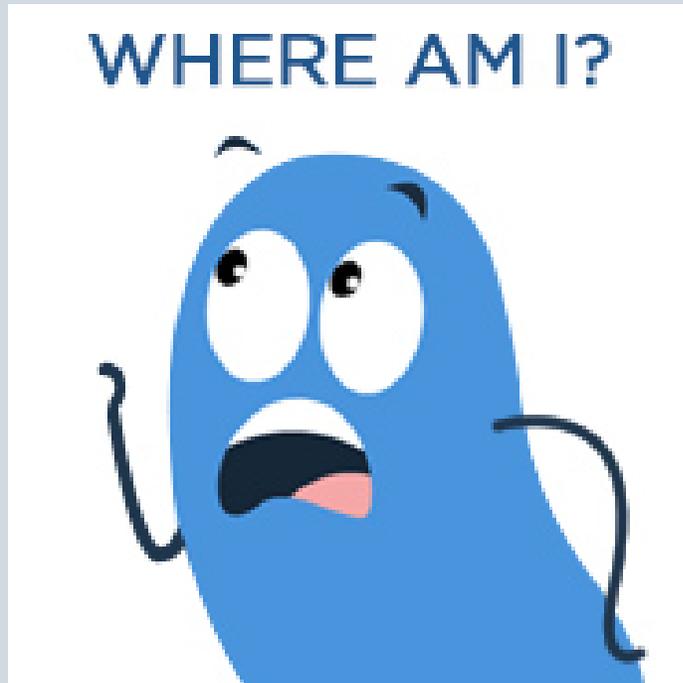
Grade Creation

UC San Diego		IPPS Executive Dashboard		 Integrated Procure-to-Pay Solutions	
		FY 1819 Data			
Organizational Scorecard				Missing Metrics?	
Integrated Procure-To-Pay Solutions		Strategic Procurement	Disbursements	Logistics	
B		B	B+	A	
		Customer Relationship	Travel	Mail Services	
		B+	B	C	

Grade Creation



Grade Creation



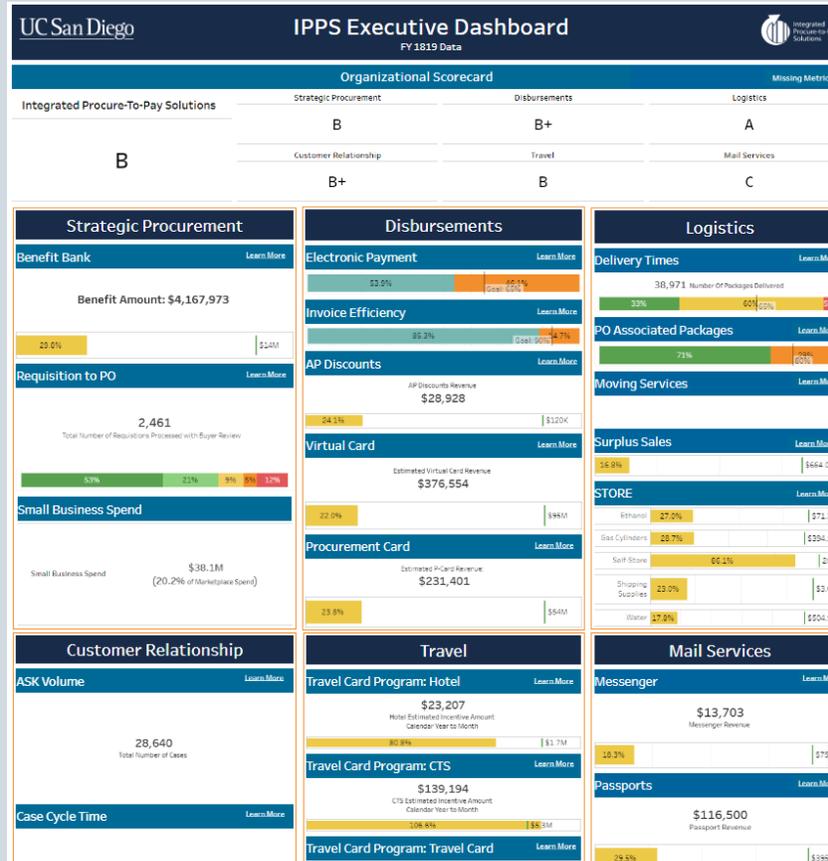
Monthly Milestone

- Financial goals
- Sales goals

Transactional Grading Buckets

- Transactional Metrics

Executive Dashboard Time!



Lessons Learned

Defining Metric Goals & Benchmarks is Critical



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Subject Matter Experts are Key



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Subject Matter Experts are Key

External Data Sources



Lessons Learned

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Subject Matter Experts are Key

External Data Sources

Can't Measure What You Don't Track



Lessons Learned

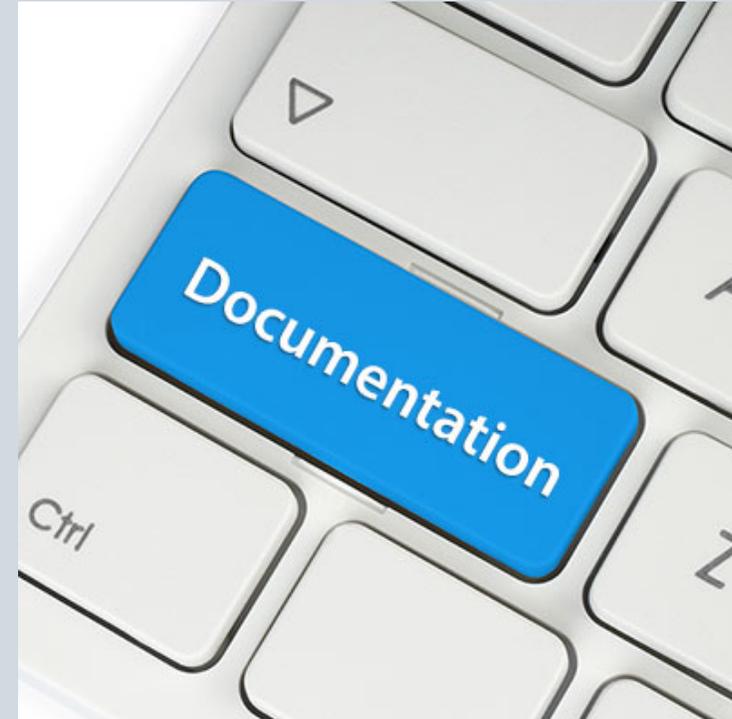
Defining Metric Goals & Benchmarks is Critical

Subject Matter Experts are Key

External Data Sources

Can't Measure What You Don't Track

Document, Document, Document



Lessons Learned

Defining Metric Goals & Benchmarks is Critical

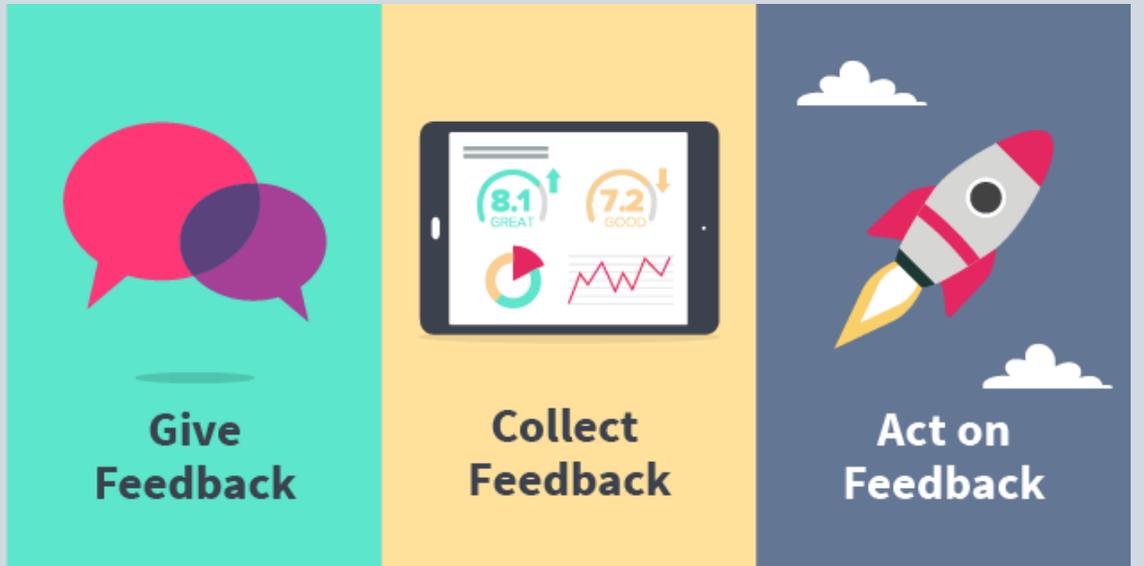
Subject Matter Experts are Key

External Data Sources

Can't Measure What You Don't Track

Document, Document, Document

Continuous Organizational Engagement



Mission Accomplished



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Irvin Palacios

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Resources

Tableau Conference 2018

- https://www.youtube.com/playlist?list=PL_qx68DwhYA_NN2iHc9hdIRSQI9FOIm1t

Tableau Training Videos

- <https://www.tableau.com/learn/training>

InterWorks Blog

- <https://www.interworks.com/blog>

Evolytics Blog

- <https://www.evolytics.com/blog>

Makeover Monday

- <http://www.makeovermonday.co.uk/data/>

All Done!



**THANK
YOU!**

