

Procurement Excellence Network

Channeling the Power of Data to Achieve Your Procurement Goals

Procurement Excellence Network

Peer Roundtable

March 26, 2024

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In the chat, please share **your name** and government!

Learning Agenda & Objectives



Discuss best practices for collecting, analyzing, and activating data to achieve procurement goals.



Share procurement data transformation successes key insights, and lessons learned from peer governments.



Community Roundtable: Discussing procurement data challenges and promising solutions.

PEN Pulse Poll

Which of the following most closely aligns with how your department is using data to improve procurement practices?

What data does your government collect that can provide insights into the current state of procurement operations?

How can you engage in this session?

Please use the "Raise Hand" function on Zoom!

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Look out for discussions and resources in the Zoom chat!

Join the post-event Q&A Conversation + Data Visualization Workshop!

What can your government gain from using data and metrics to inform your procurement operations?

Data can be the key to more effective procurement

Using data in your procurement operation is the first step to:

- Diagnosing bottlenecks in the procurement process
- Facilitating proactive decision-making and prioritization
- Understanding where contract outcomes can be improved
- Maximizing the impact and value of contracts
- Advancing economic development goals
- Advocating for more staffing capacity

Data is valuable – but what is challenging about it?

"Data is fragmented and siloed across my government – **if only I had insight into what type of data is available!**" "There is a **lack of data literacy**. How can we invest in our staff and upskill them to analyze and leverage data for our procurement operations more effectively?

"Slow adaptation of emerging data technologies is common we are using outdated technology on outdated infrastructure!

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What challenges have you encountered regarding using data to improve procurement and contracting in your government?

Data, Metrics & KPIs...oh, my!

<u>Data</u>

Information and facts about your department operations

<u>Metrics</u>

Diverse data points that measure different business processes

Key Performance Indicators (KPIs)

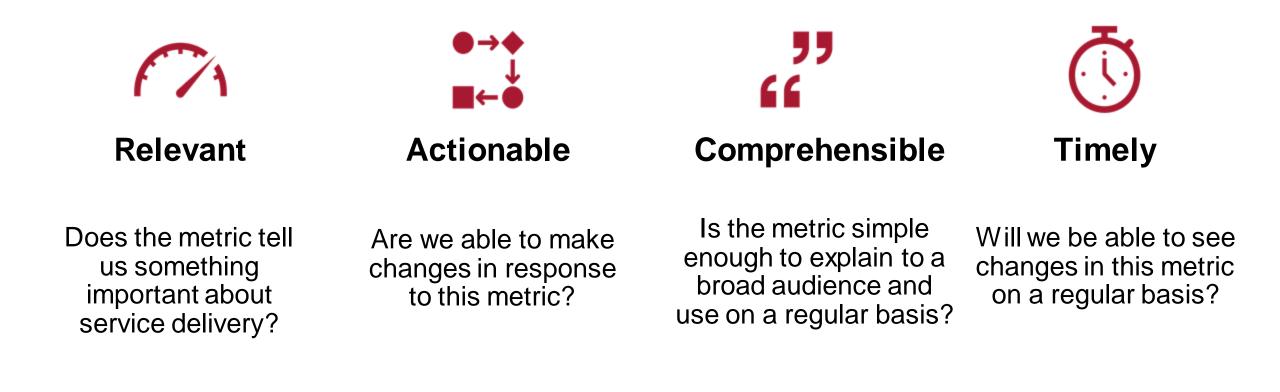
> Prioritized set of metrics

Data can come from many sources – think creatively about how to capture useful information in your organization.

Create a robust menu of metrics that can be used assess the health of the procurement process!

KPIs are your department's VITAL signs to measure efficiency and productivity outcomes – choose wisely!

Characteristics of Quality Metrics and KPIs



Remember: If you can't track it, collect data on it, or explain it, it's not a quality metric or KPI!

Examples of Commonly Used Procurement Metrics

	Use Case	Sample Metrics			
2-0	Efficient Make procurement processes faster	 Average cycle time # of cancellations # of Rebids Total response rate Contract \$ saved Staff satisfaction rate Vendor/bidder perception rating # of Contract outcomes met 			
	Equitable Increase vendor diversity	# of new vendors • Vendor satisfaction rate			
	Results-Driven Promote high-quality contract responses and performance	 % increase of diverse vendor participation # of contracts that achieve equitable service outcomes Total diverse contract spend # of RFP/contracts with equity-related goals and metrics 			
	Strategic Improve staff knowledge & skills	 # of Staff trained # of staff requiring retraining # or % of forecasted/planned procurements 			

...and more! This list is not exhaustive; there could be many ways to measure improving procurement.

Regular data reporting can reveal critical problem areas to focus strategic attention

Step 1.	Step 2.	Step 3.
Understand your goal.	Pick the right indicators.	Collect and analyze data.
 <i>Why</i> are you using data? Is there a change to make or a question to answer? 	 Are these indicators feasible to track? Will they make progress toward department goals? 	 What are the available data sources? How often will you analyze it?

Take steps to build an actionable, problem-driven data

plan

Goal - What you are trying to accomplish

Ex. Get more responses to solicitations

Key Performance Indicator (KPI) *Ex. Goal: Get more or better responses to solicitations*

- ✓ **Response rates:** average number of responses (proposals or bids received) per solicitation
- ✓ Rate of competitive solicitations: percentage of solicitations with more than 3 responses
- ✓ New vendors awarded contracts: number or percentage of new vendors awarded contracts



Data Source

KPI: average number of proposals or bids received per solicitation

- ✓ E-procurement software
- ✓ Staff procurement records (excel logs, paper records, etc.)

How can governments create a data-driven culture and empower staff to use procurement data as a tool for change?

The Importance of Data Democratization

Data democratization (*making data accessible to the end user*) increases productivity and efficiency for procurement teams by:

- > Empowering, training, and **upskilling non-technical users**
- Investing in technology infrastructure improvements
- Encouraging feedback loops to discuss data challenges and innovations
- > Shifting organizational culture to incorporate data in decision-making

The process of democratizing data is ongoing – this should be a continuous practice!

How can governments effectively analyze data to identify trends and accurately diagnose procurement challenges?

Let's try it together!

New Message

Citylandia Purchasing Managers

Subject URGENT: Cycle Time Trends

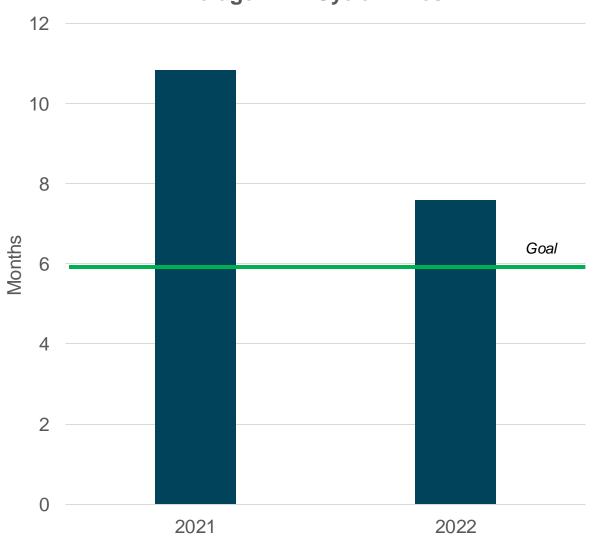
For years, cycle times for Requests for Proposals (RFPs) have been variable. Effective March 26, 2024, the Citylandia Central Procurement Department has introduced a new department goal to **reduce cycle times to less than 6 months** to improve efficiency.

In preparation for an upcoming meeting, please collectively analyze data from FY2021 & FY2022 and provide insights into the following:

- Average cycle times by month
- Cycle times by RFP stage
- Progress towards meeting goal

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Citylandia Procurement Dashboard

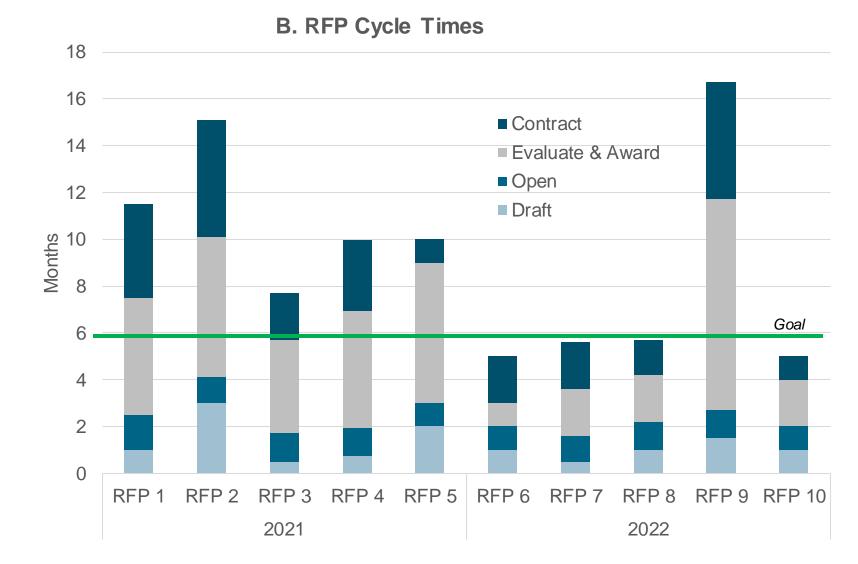


A. Average RFP Cycle Times

Goal: Reduce cycle times to less than 6 months

- What story is the data telling?
- What questions do you have about the data?
- What additional data is needed to help us diagnose the problem?

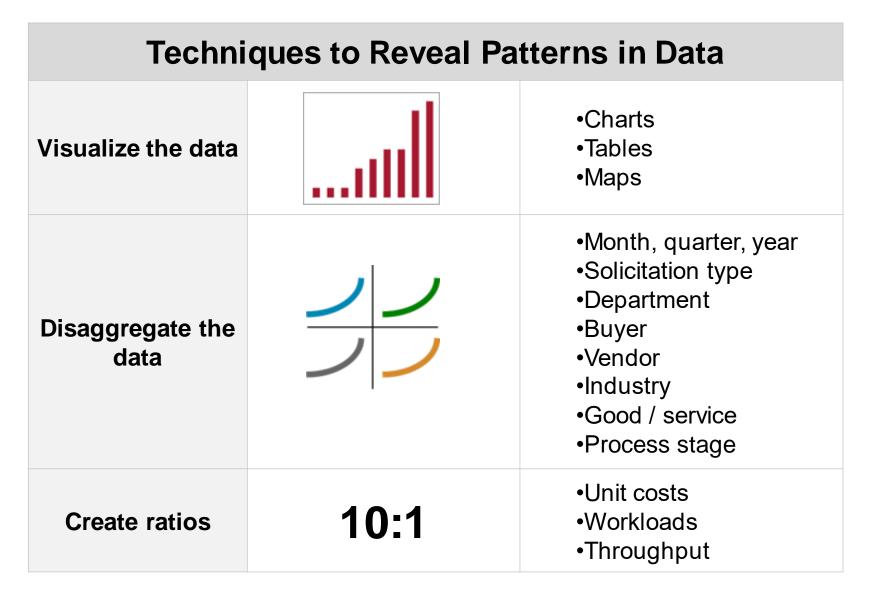
Looking at the data a bit more in depth



What story is the data telling us now?

What actions should we consider taking to get closer to our goal?

What's the real story the datasets are telling us?



How have governments utilized data to tackle complex procurement challenges?

Data-Driven Governments

How have governments used data to address complex procurement challenges?



Data-Driven Procurement Processing BATON ROUGE, LA



Government Spotlight: Baton Rouge, LA

The City-Parish procurement process is burdened by inefficiencies that result in prolonged wait times for purchase order and contract generation, ultimately delaying vendor payment and the procurement of goods and services.

Context

Who is impacted?

- Departments
- Vendors
- Residents

What are the ideal outcomes?

- Reduced processing times
- Improved project timelines
- Enhanced vendor relations
- Revisions to internal policies

Activating Data

Who was involved in the process?

MUNIS Workflow Working Group

Data sources

- Purchase orders by department
- Contracts
- Requisition
- Workflow data in the MUNIS system

Key Metrics

Days Spent in Requisition Workflow

- The average number of business days a requisition spends in each step of the procurement workflow
- Identifies bottlenecks within the procurement workflow
- Allows modification **impact** validation

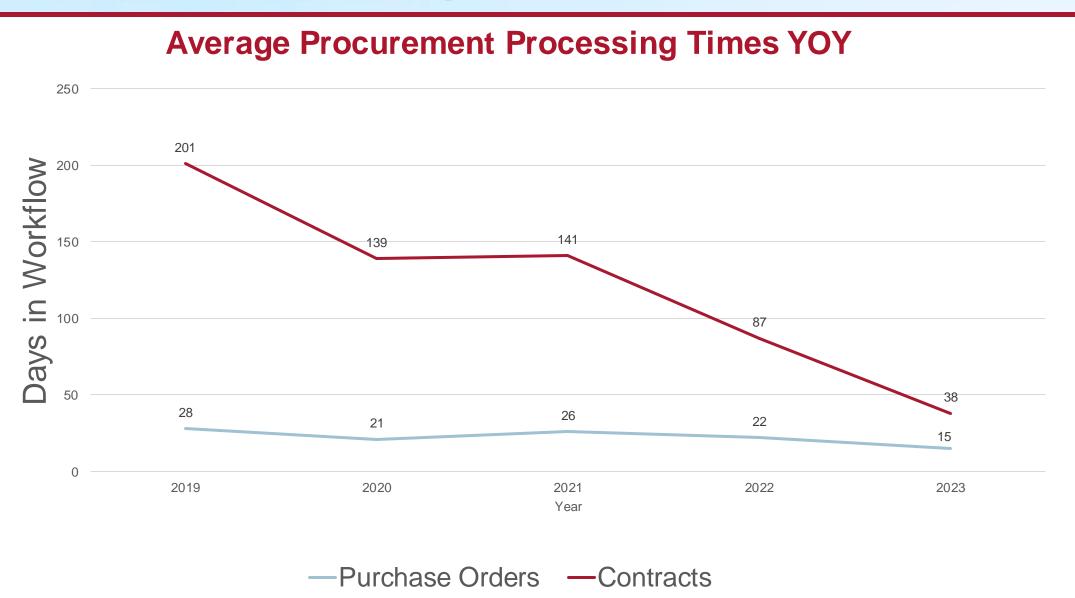
Holds and Rejects in Workflow

- The number of rejects and holds in a workflow
- Signals missing information or errors in processing
- Helps identify what departments need additional training on procurement policies

Days to Create Purchase Order/Contract

- The average length of time to process a purchase order or contract
- Allows insight into which types of purchase orders or contracts have the longest processing time

Data Driven Workflow Improvements

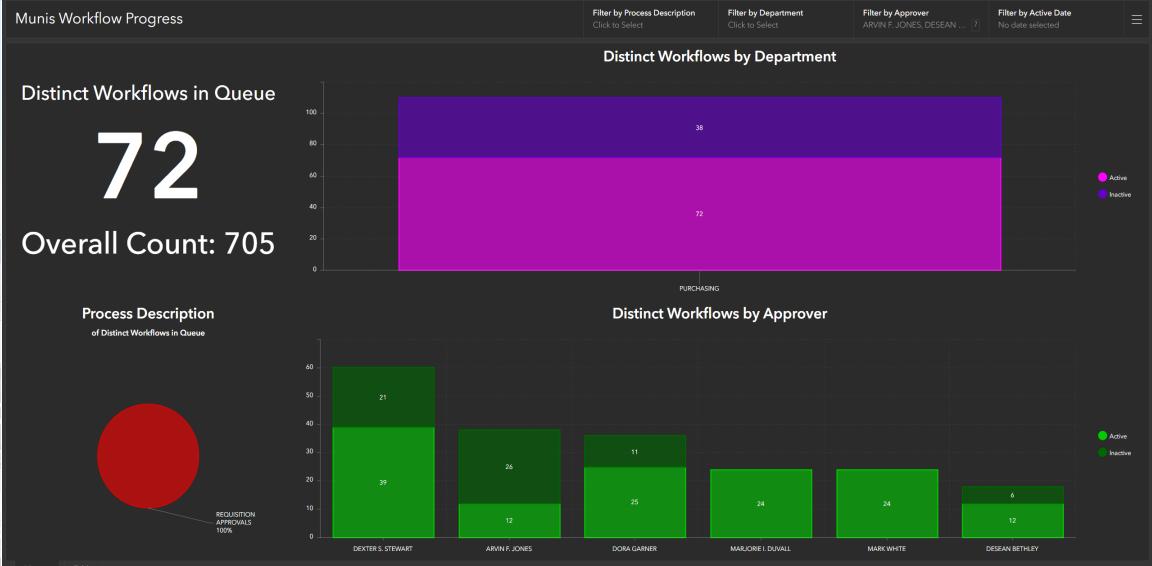


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Munis Workflow Progress Dashboard



Munis Workflow Progress Dashboard: Purchasing Department



Key Learnings & Insights



Peel the data onion!

Take the time to peel back the data – go layer by layer to see how each step of the workflow can influence procurement processes.



Tech can't fix it all!

Technology can help identify issues, but it can't always solve them; equip the people powering the data with the right tools they need to succeed.



Teamwork makes the dream work!

Maximizing efficiency for all departments requires identifying gaps in resources and workflow adjustments, without singling out any individual or department.

Seattle, WA

Using automated data visualization to increase efficiency



Government Spotlight: Seattle, WA

Key Challenge:

Purchasing Manager did not have an easy way to manage her team's workload and allocate new requests to buyers.

Context

- Seattle's Purchasing Manager receives hundreds of requests that she processes and allocates to her team
- Tracking each buyer's current queue of requests was a manual process run through pivot tables in Excel
- An easily accessible, quickly digestible visual snapshot of all requests

Activating Data

- Identified request allocation as a recurring activity that took up bandwidth
- Worked with the Manager to understand her needs and identify functions to be automated
- Supported by a City employee who has expertise in Microsoft PowerBI

Key Metrics

Turnaround time

- Number of business days of the full life cycle of a solicitation (from request submitted to awarded)
- Seattle sets specific targets for cycle time to communicate realistic timelines to departments

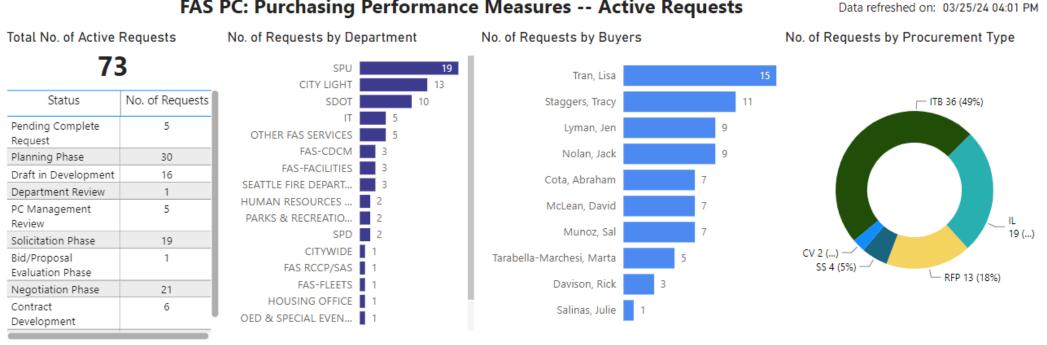
Status of request

- Current stage of each solicitation request, disaggregated
- Increases transparency
 for city departments and
 managers
- Positive accountability measure to complete outstanding tasks

Buyer workload

- Shows the volume of each team member's workload across a time series
- Used to **assess and allocate** new requests as they come in

Data Dashboards

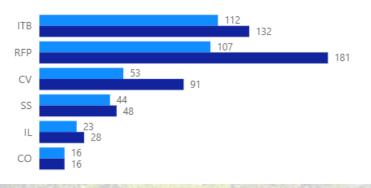


FAS PC: Purchasing Performance Measures -- Active Requests

Requisition/ Project Department-Status Date Complete Working Period Contract Type of Contract Number Description **Business Unit** Package Received (Business Days) Administrator Procurement Background PC 01/13/22 RFP 6045 CL0 573 Tran, Lisa Check Management Review 6039 Debris Removal SU0 Solicitation 08/03/22 429 Munoz, Sal ITB and Hauling Phase 6022 FAS - Janitorial - FA1 Draft in 08/09/22 ITB 425 Tran, Lisa Customer Developmen Service Centers t. 6046 Outfall SU0 Solicitation 08/16/22 420 Nolan, Jack ITB Phase CCTV/Cleaning 6061 CLO Solicitation 09/09/22 402 McLean, ITB Fault Limiters David Phase

Procurement Types by Cycle Time and Working Period

● Avg Completed Cycle Time (BD) ● Avg Working Period (BD)



Data Dashboards

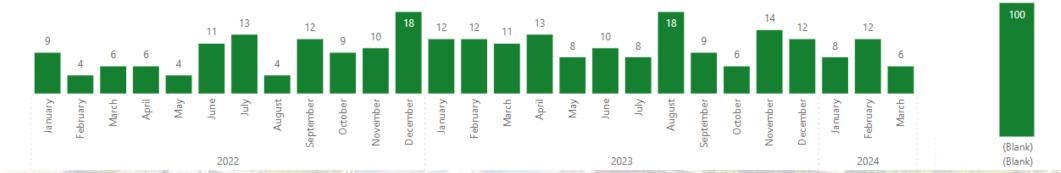
FAS PC: Purchasing	Status	No. of Requistion/Contracts	Type of	Average of Completed Cycle	Type Award	No. of Requistion/Contracts
Performance Measures	Bid/Proposal Evaluation	1	Procurement	Time (Business Days)		18
	Phase		со	16	Blanket	153
Data refreshed on: 03/25/24 04:01 PM	Canceled	47	CV	53	Blanket Pool	23
	Completed	244	IL	23	No Award	22
Department Name	Contract Development	3	ITB	112	Purchase Order	148
	Department Review	1	RFP	107	Total	363
All	Total	363	SS	44		
			Total	51		
No. of Requests by Year and Month						
No. of Requests by Year and Month		20		21	20 19	9 19
No. of Requests by Year and Month	13	20 13 15 12	15 13	21 12 15 14 13	20 19	9 19 12 11 15 12 11 12
No. of Requests by Year and Month	10 9	12 15	15	15 14	20 19 4 7	9 19 12 11 12
No. of Requests by Year and Month	13 10 9 2 2 1 1	12 15	15	15 14	20 19 4	9 19 12 11 12

No. of Completed by Year and Month

2021

2022

2020



2023

No. of Active Requests

2024

Key Learnings & Insights



Collect data digitally!

Begin with the end in mind and attempt to build automated processes, where applicable, to make data collection less intensive and sustainable.



Harness the power of subject matter experts!

Assess the skillset across city departments and tap into the knowledge and expertise of tech-savvy staff before sourcing external resources.



Don't let perfect be the enemy of the good! Do not wait to use data – activate it as soon as possible to improve procurement

operations. Your team can always pivot, refine and adjust over time.

PEN Community Roundtable

Community Roundtable: Let's talk about data!

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Share data challenges

your government experienced and any promising practices or solutions. Share any interesting metrics or KPIs your government is tracking and why? What **tools** does your government use to generate **dashboards**, **visualizations**, or **reports**?

Please use the "**Raise Hand**" function on Zoom or type feedback in the chat!

Feedback Poll

Join us for our next PEN event!



Navigating the Challenges of Using Technology to Transform Procurement



May 1, 2024 | 12:00-1:30 pm ET

Buying and implementing a **new technology** can bring a wide variety of challenges.

Join us for a peer roundtable discussion on how to set your government up for success when soliciting and implementing procurement-related technology.

PEN Member Survey: Closing Soon!

Calling all PEN members! At the beginning of the month, we released a brief member survey that asks for your feedback and input. The survey is anonymous and should only take around **7-10 minutes** of your time.



Your insights are extremely valuable to us and will play a crucial role in shaping the future of PEN.

Submit Materials to PEN Community Resource Library!

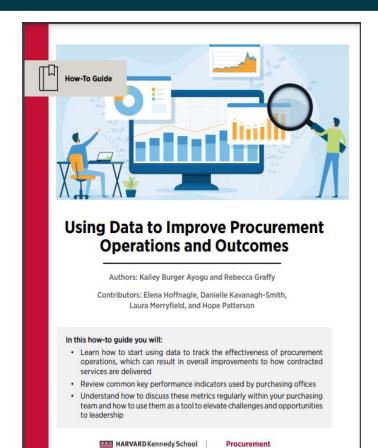
Do you have a brag-worthy example of one of the items below?



...then be on the lookout for the chance to submit it to our new Community Resource Library!

Check out these PEN publications!

How To Guide: Using Data to Improve Procurement Operations and Outcomes



Government Performance Lab

Excellence Network

Template: Essential Procurement Performance Metrics to Track Regularly



Data Visualization Simulation (Excel)

Procurement Excellence Network Post-Event Session

March 26, 2024

How can you engage in this session?

Why are you joining this additional discussion? What is your current skill level in Microsoft Excel?

Have you ever created an Excel data dashboard?

Data Visualization Steps

Step 1: Clarify Dashboard Purpose

- Understand the dashboard goals
- Map out the "data story"
- Determine target audience
- Dashboard update frequency
- Identify 2-4 KPIs to start!

Step 2: Data Planning & Manipulation

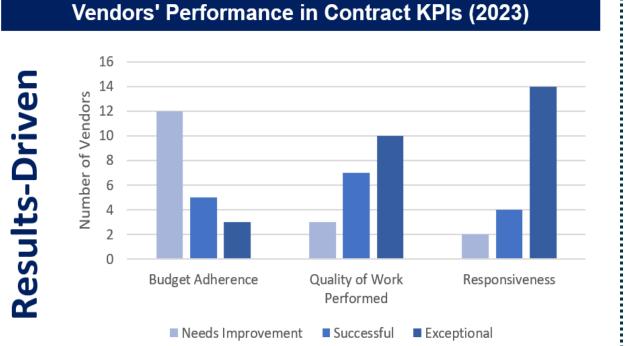
- Access, verify, and validate data
- Interpret the data
- Ask additional questions
- **Disaggregate** the data

Step 3: Data Visualization & Analysis

- Create a graph/chart!
- Extract data insights
- Customize!
- Beta Test the dashboard!
- Activate/share the data

Pro-Tip: Use "Recommended Charts" Wizard in Excel for Data Visualization help!

Activity: Create Citylandia Procurement Dashboard



Diverse vendor participation for priority procurements

U				
	Vendor Classification	2022	2023	% Change YoY
ita	Local Respondents	24	36	50%
ni	MBE Respondents	12	24	100%
Бq	WBE Respondents	8	6	-25%

Demo

Appendix

Data "menu" for managing procurement transformation



- Cycle time
- Cancellations
- Rebids
- Staff time saved or reallocated
- Contract \$ saved or reallocated
- Staff experience
- Bidder experience
- Vendor perception



Results-Driven

- % RFPs with resultsdriven goals, metrics
- Response rate
- New vendors
- Contract outcomes
 met
- Vendor performance



- Diverse vendor participation
- Diverse contract spend
- RFP/contracts with equity-related goals and metrics
- Contracts that achieve outcomes for equitable service delivery



Strategic

- Staff trained
- Trainers trained
- Staff reporting knowledge and readiness on resultsdriven contract
- New strategic purchasing roles
- Planned procurements
- Visibility & status of procurement as strategic function

...and more! This list is not exhaustive; there could be many ways to measure improving procurement

Limited datasets? No problem!

Imagine you talked to your IT department and they can't pull the procurement data you want. What might you try to do instead?

- Start with what you have. Choose two or three performance metrics that you can start tracking immediately!
- Augment with qualitative data. Talking to people is data! Qualitative data can often be a helpful starting point and complements insights from quantitative data.
- Analyze a sample of data to draw insights. Start by collecting or analyzing a smaller sampling of data to draw insights and build from there.
- Align your vision with your available tools. It might be your vision to create a data warehouse, but you can create magic in Excel!

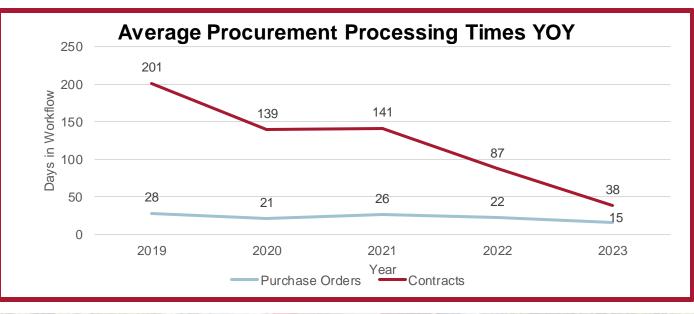
Data-Driven Procurement Processing BATON ROUGE, LA



Requisition Request Data

Requisitions	<5K	>=5K	<=25K	<=35K	<=50K	<=75K	<=100K	>100K
10,397 Total	9,482	915	606	683	758	816	840	75
Requisitions in Purchasing Manager Queue		915	309	232	157	99	75	0

Req. > 5k	Req. to PO	Step 60	<=25K	<=35K	<=50K	<=75K	<=100K
Average Days	15	7	10	9	9	9	8
Days Gained			5	6	6	8 16	7
% Improvement			33%	40%	40%	40%	47%



Memphis, TN

Data-Driven Case Study



Memphis faced common procurement problems



Treated as a back-office, administrative function

Focused more on process compliance than outcomes Unable to anticipate upcoming work or distinguish between high and low priority contracts

Memphis analyzed procurement data to improve operations and outcomes

Approach

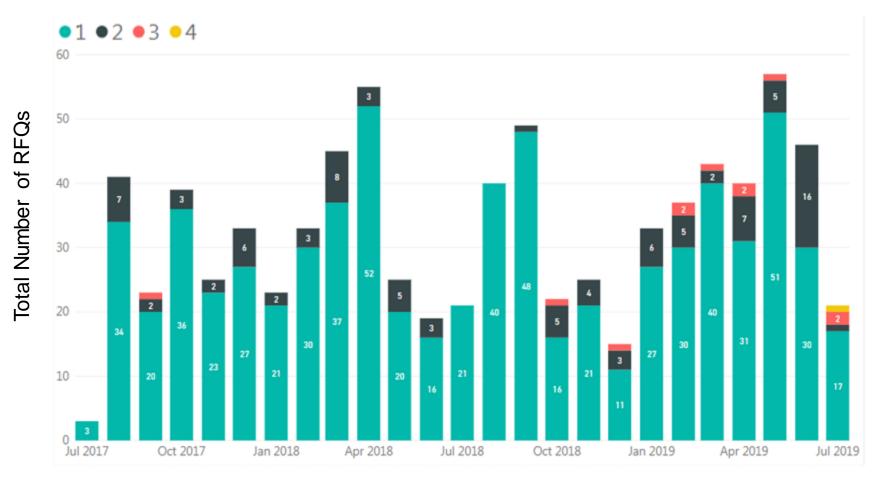
- Developed a dashboard to streamline procurement processes and prioritize contract performance
- Reviewed procurement data and priority procurements monthly with City leadership
- Met with leaders from City divisions with highest contracting volume to identify and plan for upcoming high priority procurements

Memphis leveraged data momentum to improve and elevate procurement

Opportunities

- New Chief Procurement Officer
 - Invested in addressing process challenges and turning procurement into a strategic function
- Data-driven management practices among senior leadership
 - Mayor's monthly Performance Review Meeting provided forum for cross-departmental collaboration and data-informed decision-making
 - Office of Performance Management supported analysis of procurement data

Procurement data revealed low procurement competition in Memphis

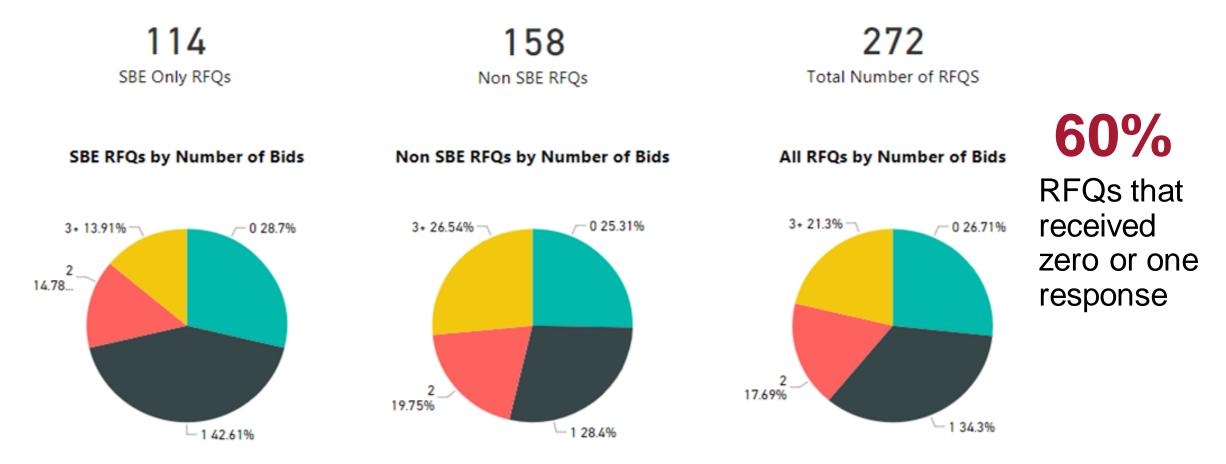


20%

RFQs that were re-releases of earlier RFQs that received no responses

*As of August 2019

Low competition persisted across supplier target markets



^{*}As of August 2019

Long Beach, CA

2020 Extreme Procurement Makeover

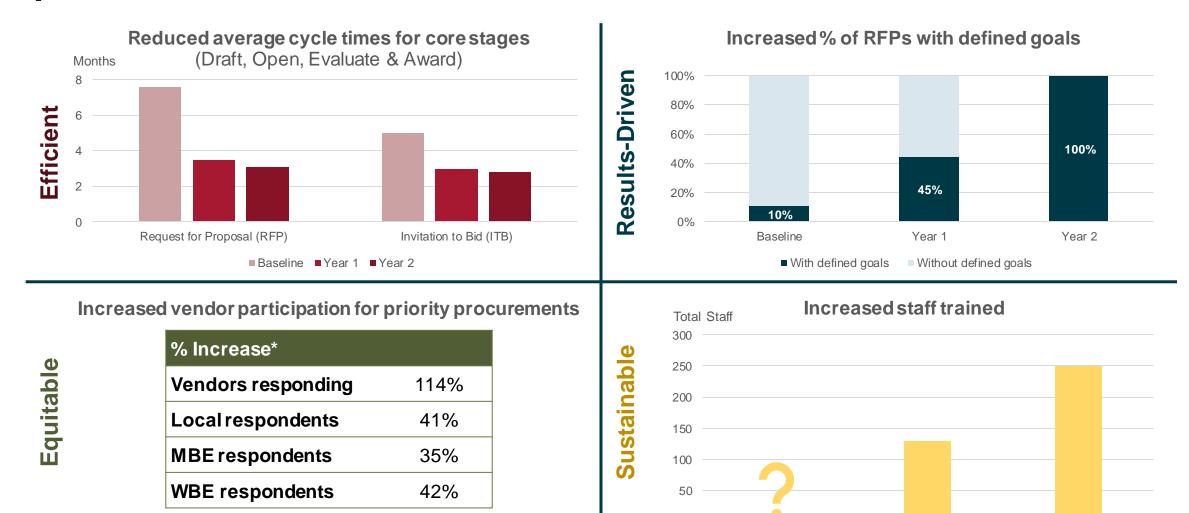


The City formalized its goals to be accountable for making measurable progress

Model Procurement Plan | City of Long Beach



Long Beach has achieved impact across all four pillars of procurement excellence



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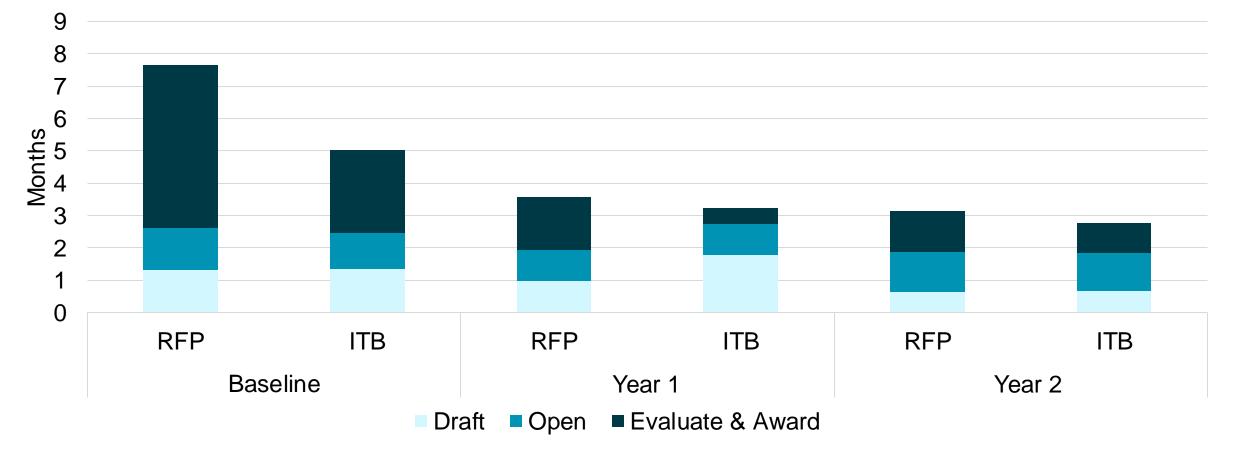
Baseline

Year 1

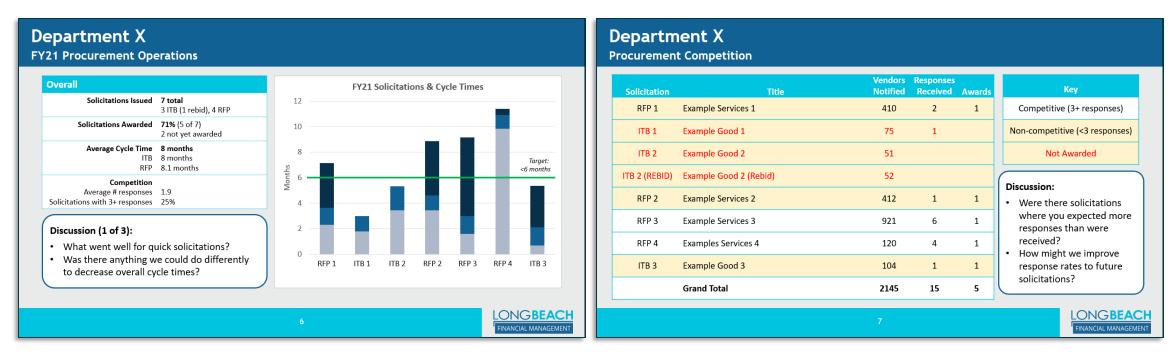
Year 2

The City has tracked a 60% reduction in core cycle times for RFPs

Average cycle times for core procurement stages*



Procurement data is reviewed annually with Department staff



Purchasing meets with each Department annually to review the past year's procurement data (# solicitations issued, % solicitations awarded, cycle times, vendor participation), identify areas for improvement, and plan for the year ahead.