

Transforming the Sponsored Programs Office: Steps Towards a Holistic Assessment Framework



Introduction

In this study, we carried out a diagnostic evaluation of overall service quality and organizational culture at the UPRM R&D Center (Pre and Post-Award Divisions).

- Perceived Service Quality is determined by the discrepancy between investigators' expectations and actual service performance.
- Organizational Culture is defined as a function of trust, measured by employee perceptions about information flow within the organization.

The aims of the case study are to support data-driven decision-making at UPRM, and to contribute to the development of the fields of research development and administration by enabling other institutions to carry out similar assessments.

Context of the Study

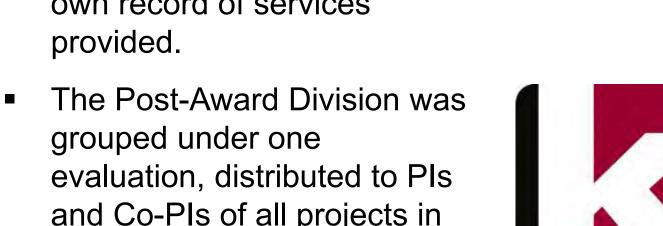
- The UPRM R&D Center provides Pre and Post-Award support to investigators under a unified academic leadership/supervision model. Maintaining research stakeholder support for the Center in Puerto Rico's challenging fiscal environment requires evidence of data-driven initiatives and continuous improvement efforts, and measurable results.
- While the R&D Center tracks and publishes its research metrics, this is the first time it has engaged in a formal assessment of service quality and culture. These variables will be measured over time, along with service time metrics, to guide improvement initiatives and document unit strengths.

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Methodology

- A modified ServQual instrument was prepared in Qualtrics and provided to investigators.
- Pre-Award evaluations were divided by office (Proposal **Development and Proposal** Submission), as each component unit maintains its own record of services provided.



- grouped under one evaluation, distributed to Pls and Co-PIs of all projects in **UPRM's Kuali Coeus** database. To increase response rates,
- staff who have developed positive relationships with researchers sent follow-up emails, and faculty were visited in their offices.



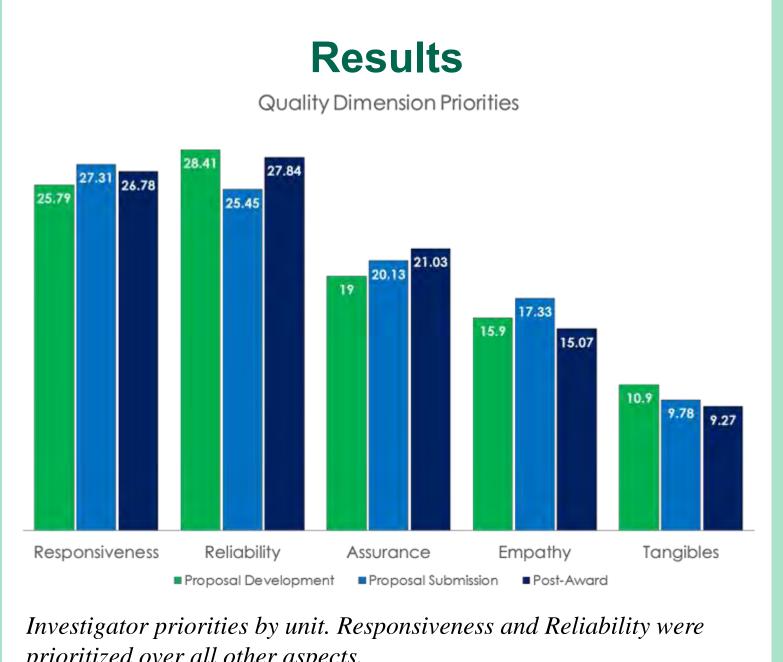
- Forsgren's organizational culture questionnaire was translated to Spanish and, after IRB approval and discussion with a union representative, was provided to R&D Center staff.
- After the response windows closed, statistical analysis and text mining were carried out on the data to determine unit gap scores and visualize comment content.

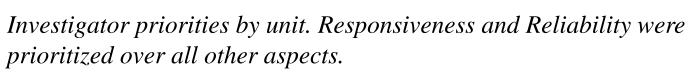


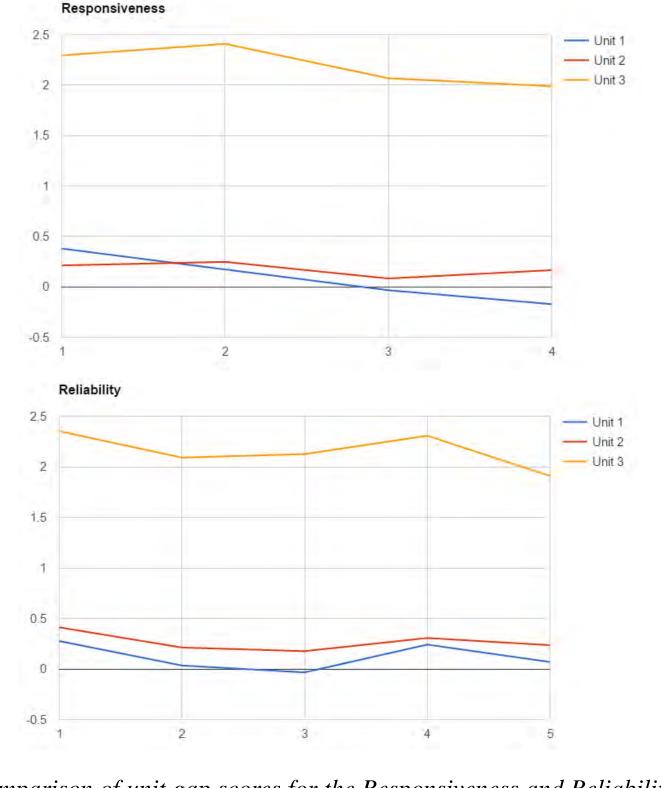
Voyant Tools is an opensource program that facilitates basic text mining

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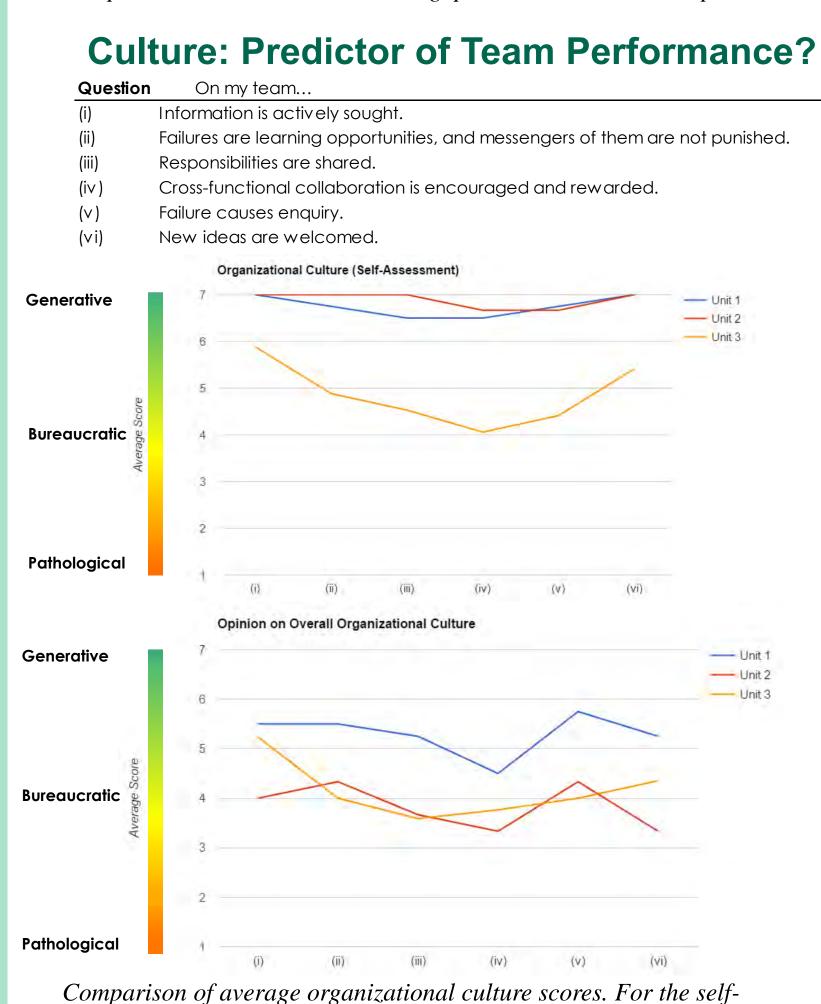


Comparison of unit gap scores for the Responsiveness and Reliability dimensions. A positive gap score indicates investigator expectations are not being met. Larger gap scores indicate areas with more room for improvement. A negative gap score indicates expectations are being exceeded.

Data-driven Decision-making



Prioritization matrix with unit strengths and anticipated impact of improvement initiatives, based on gap scores and researcher priorities.

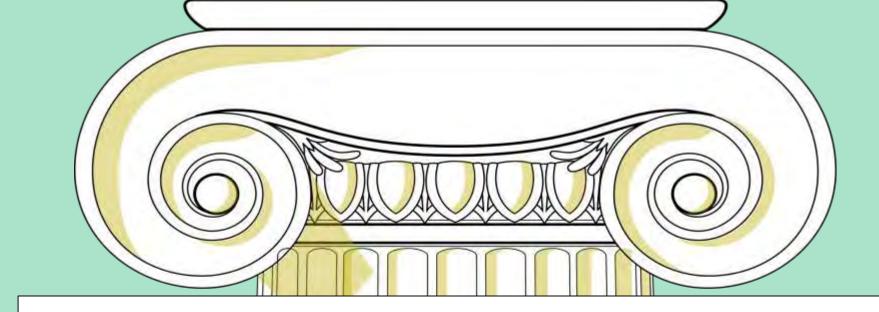


assessment, units evaluated their own office. For the overall score, participants were asked their opinion about all the units of the R&D Center.



Research Metrics

• Obtained from Kuali Coeus (eRA) and university financial systems. These will be expanded to include broader research activity and research impact indicators.



Service Quality (Clients)

These external metrics provide insight about value delivery and customer satisfaction.

Five Dimensions to Service Quality

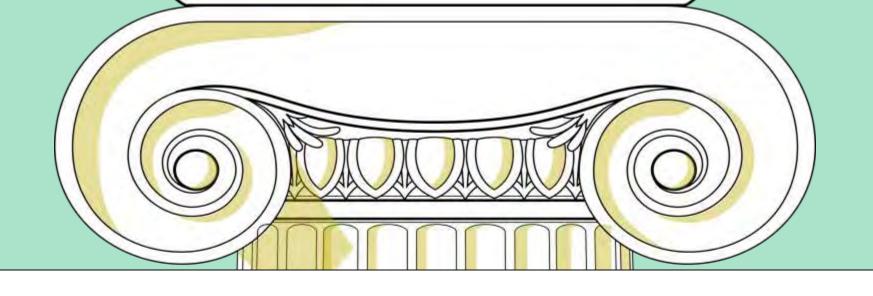
- Responsiveness encompasses promptness, scheduling, and attitudinal aspects.
- Reliability timeliness and professional knowledge.
- Assurance knowledge, courtesy, and ability to convey trust and confidence.
- Empathy caring, individual attention.
- Tangibles physical facilities, equipment, personnel, and communication materials.

Parasuraman, A., Zeithml, V. A., & Berry, L. (1991). "Refinement and Reassessment of the SERVQUAL Scale."

Unit scores for each dimension are measured through the use of a modified ServQual instrument.

A gap analysis is performed to quantify the difference between investigator expectations and perception of services received. This information is used to drive improvement efforts (annual process).

To view a sample ServQual instrument, visit: http://www.developresearch.net/servqual/



Organizational Culture (Staff)

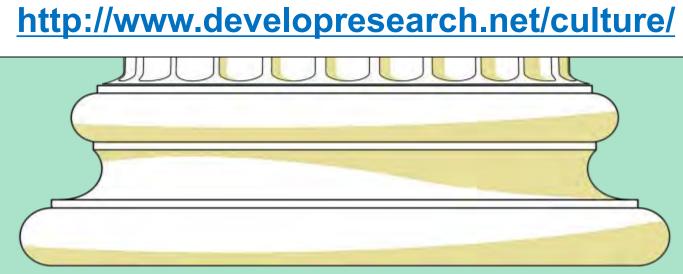
Organizational culture is a factor that correlates with performance and predicts job satisfaction (Kelk, 2016). It can impact the outcome and sustainability of improvement efforts.

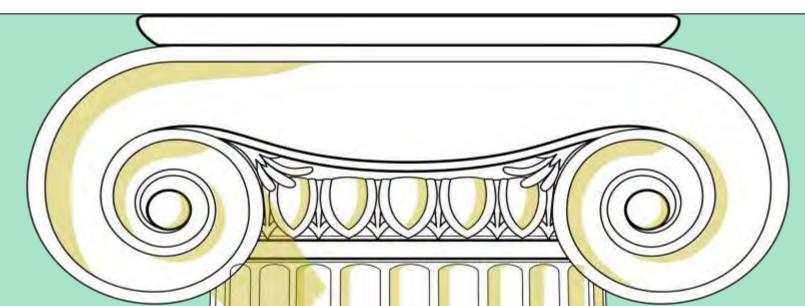
Westrum's (2004) typology identifies three types of organizations:

- Pathological "characterized by large amounts of fear and threat. People often hoard information or withhold it for political reasons, or distort it to make themselves look better."
- Bureaucratic "protect departments. Those in the department want to maintain their 'turf,' insist on their own rules, and generally do things by the book — their book."
- Generative "focus on the mission. How do we accomplish our goal? Everything is subordinated to good performance, to doing what we are supposed to do."

Westrum, R. (2014) "The study of information flow: A personal journey."

Forsgren (2014) developed an instrument to assess culture at your organization. View this instrument at:





Service Time Metrics (Processes)

These internal metrics can be used to identify process bottlenecks, inefficiencies, and areas that require additional resources:

- Lead time "elapsed time from receiving a customer request to delivering on that request."
- Process time "begins when the work has been pulled into a doing state and ends when the work is delivered to the next downstream customer."
- Wait time "The time that work sits idle not being worked."
- Work-in-progress "the amount of work in a system that has been started but not finished [at a given point in time]."

IT Revolution (2015) "Metrics for DevOps Initiatives."

Obtaining this information in a standardized, reliable way will require implementation of a Request





Is your office/institution using a request tracker? I'd love to hear your thoughts!

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