

Watson, Kern

From: Watson, Kern
Sent: Wednesday, January 18, 2017 10:42 AM
To: Jordan, Sara
Subject: Inquiry Class Thoughts

I've thought about your offer to work with the Inquiry class... I'm thinking one class, with part of the next as a follow up? I'd like to challenge them with a real-world situation at the Local Govt level. Here are my crib notes for what I'm thinking might be "useful" to them, let me know how to fit it with what you have planned in your syllabus.

LW

1st Class

- talk about data visualization in the two aspects public administrators typically encounter
 - Use in analysis: spot patterns, outliers, etc. – complex tools for analysis
 - Show readability data and how the Frequency distribution was helpful
 - Show ESO / Longshop Analytics for Response time
 - Show EHS Analytics data – web traffic, use in justifying budget and resources
 - Show New River Junction Data – mapping web visits to daily MaxTemp from Weather Service, use as a staffing predictor
 - Use in communication of results – simple tools for consumption
 - Reports, memos etc
 - Presentations
- Introduction to Tools that are available
 - R / R Studio
 - Microsoft Excel
 - Tableau Public
 - Piktochart
 - Public GIS Systems / Google Maps / Microsoft MapPoint
- Introduce a "problem" to them
 - You're a county official. Person complains to you it took 23 minutes for an ambulance to get here "And I Want Something DONE!!!!" You know the person will show up at the next Board of Supervisors meeting and raise hell, so you have to be prepared to answer.
 - Provide data on 500(?) responses in Excel: Date, Time of Call, Response Time in Min/Sec.
 - Challenge them:
 - Answer the question: Is there a response time problem?
 - If so – define the problem in terms of day/night, weekday/weekend, etc.
 - Produce one or more graphics to support your answer.

2nd Class

- Have one or more person/s show off their work – I suspect they'll probably work off the "mean" and maybe look at Standard Deviation or similar approach.
- Show them "my" view of the data and why the "mean" isn't always a good measure. EMS system national standard is 90% of calls in 8:59 or less.

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