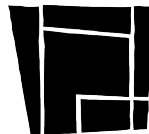

ADHS Adaptive Challenge:

Introducing R



ARIZONA DEPARTMENT
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Challenge

- Currently, we do not have a **dashboard** that is integrated with our databases and analysis softwares that is friendly for both back-end developers and front-end users

Potential Solution: R

- **R** is a language that provides:
 - Data management/analysis capabilities of SAS
 - Dashboard visualization capabilities of tableau
 - Integration with different databases
- **Barriers to implementing R:**
 - Time
 - Institutional knowledge in other software
 - Prove there is a demand to use it agency-wide

Major Players

- Epis/data **analysts**
 - Currently use a combination of SAS, Excel, and Tableau
- **Management**
 - Give staff time to learn and adapt workflows
 - Support purchasing commercial products
- **IT**
 - Unsure what challenges we will face trying to integrate a new software and commercial products

Actions Taken

- Create an **R** tutorial
 - **Goal:** build up R users in the organization to justify agency-wide implementation and an investment in RStudio commercial products
 - **Target:** epidemiologists who regularly use SAS within ADHS.
 - **Focus:** data analysis steps taken by SAS, data management, syntax and structure of the R language, and using the RStudio platform

Stakes and Interests

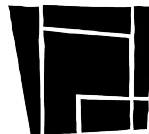
- Stakes:
 - Public facing **dashboards**
 - Public information **data requests** in a timely manner
 - Recruiting and retaining **skilled** data analysts
- Interests:
 - **Reduce silos**: better data and information sharing within our agency
 - **Reduce time** spent completing public information data requests
 - Increase data analysis **capacity** of the workforce

From the group....

- **Training package** rollout throughout an agency/bureau?
- **Software package** rollout through an agency/bureau?
- **Testing** of statistical packages and or visual BI tools for their inherent strengths and weaknesses?

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