



# **BUSINESS INTELLIGENCE ADVISORY COMMITTEE**

**DECEMBER 11, 2019**



**Business Intelligence Competency Center**  
INFORMATION TECHNOLOGY

# Agenda

- **Introduction**  
Andrea Pluckebaum
- **The Road to Better Financial Intelligence**  
Andrew Bean
- **Purdue Data Training Survey – Your Additional Thoughts**  
Andrea Pluckebaum

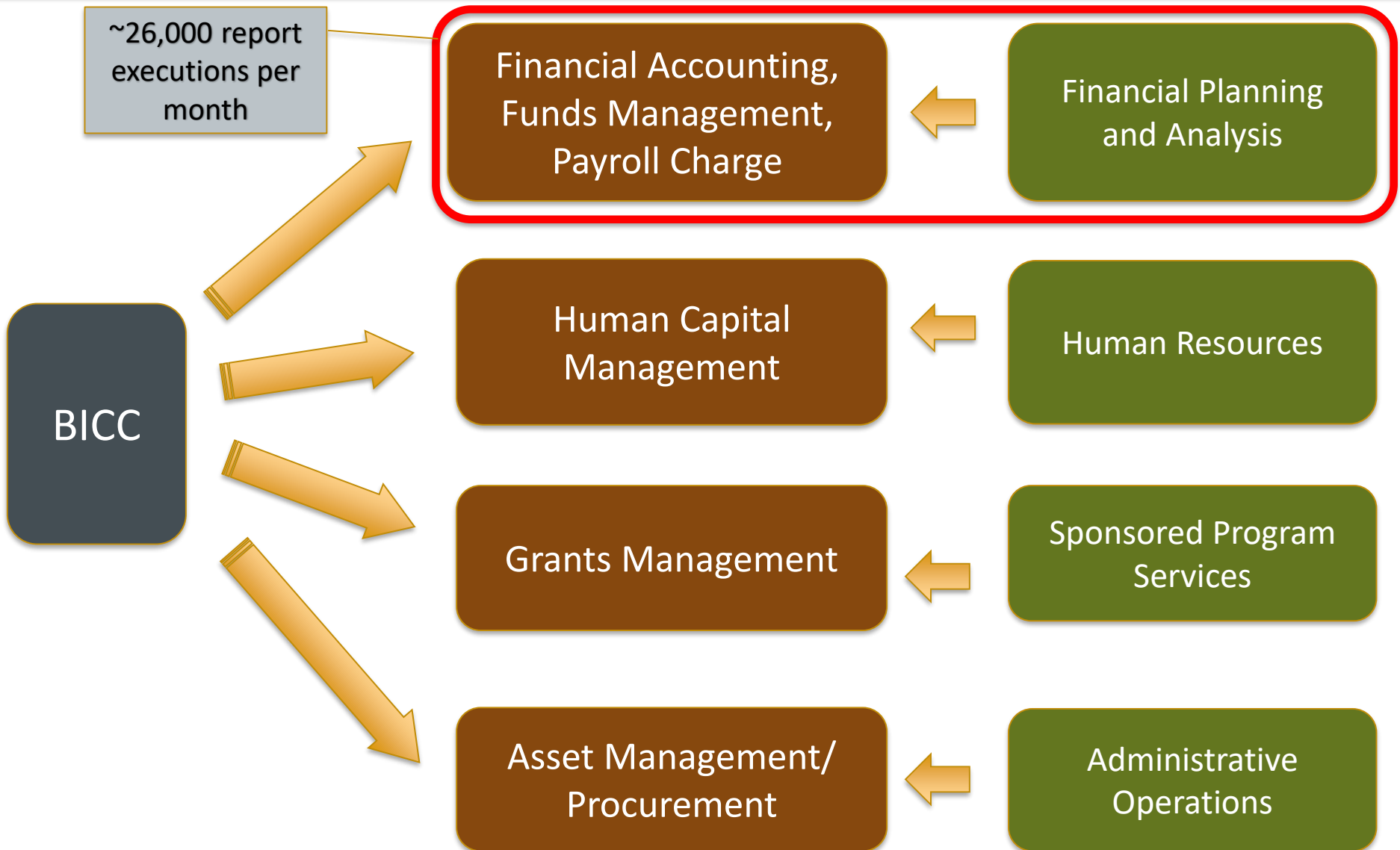




# **THE ROAD TO BETTER FINANCIAL INTELLIGENCE**

**ANDREW BEAN**

# Business Reporting Org Structure



# Some History...

2007: SAP Finance implemented

- Extremely limited reporting capabilities

2015: First BI Finance stars available

- Big step forward but adoption was slow, ad-hoc ability was limited, and underlying SAP data was problematic

2016: Finance Transformation Project begins

- A primary objective was to fix the underlying data structures that impaired transparency and ease of use

2018: Finance Transformation Project goes live

- Underlying data issues are fixed and operating reports are available, but time/resource constraints limited the scope of reporting improvements

2019: Finance reporting project undertaken

# Finance Reporting Project Goals



Simplified, easier user experience

- Including self-service option for Dept Heads

Major performance improvement

Easy ad-hoc query ability

Project moved quickly; prioritized iteration and experimentation over deliberate planning



# Steps Taken

## Audience-specific landing pages

- Direct links to specific page views within reports
- Audience-specific prompt pages

## Purpose-built reports instead of “one for all needs”

- Differentiate analysis from management

## Simplified Datasets on HANA architecture

- Majority of standard reports utilize these datasets
- Finance authors directed to a dataset for most needs

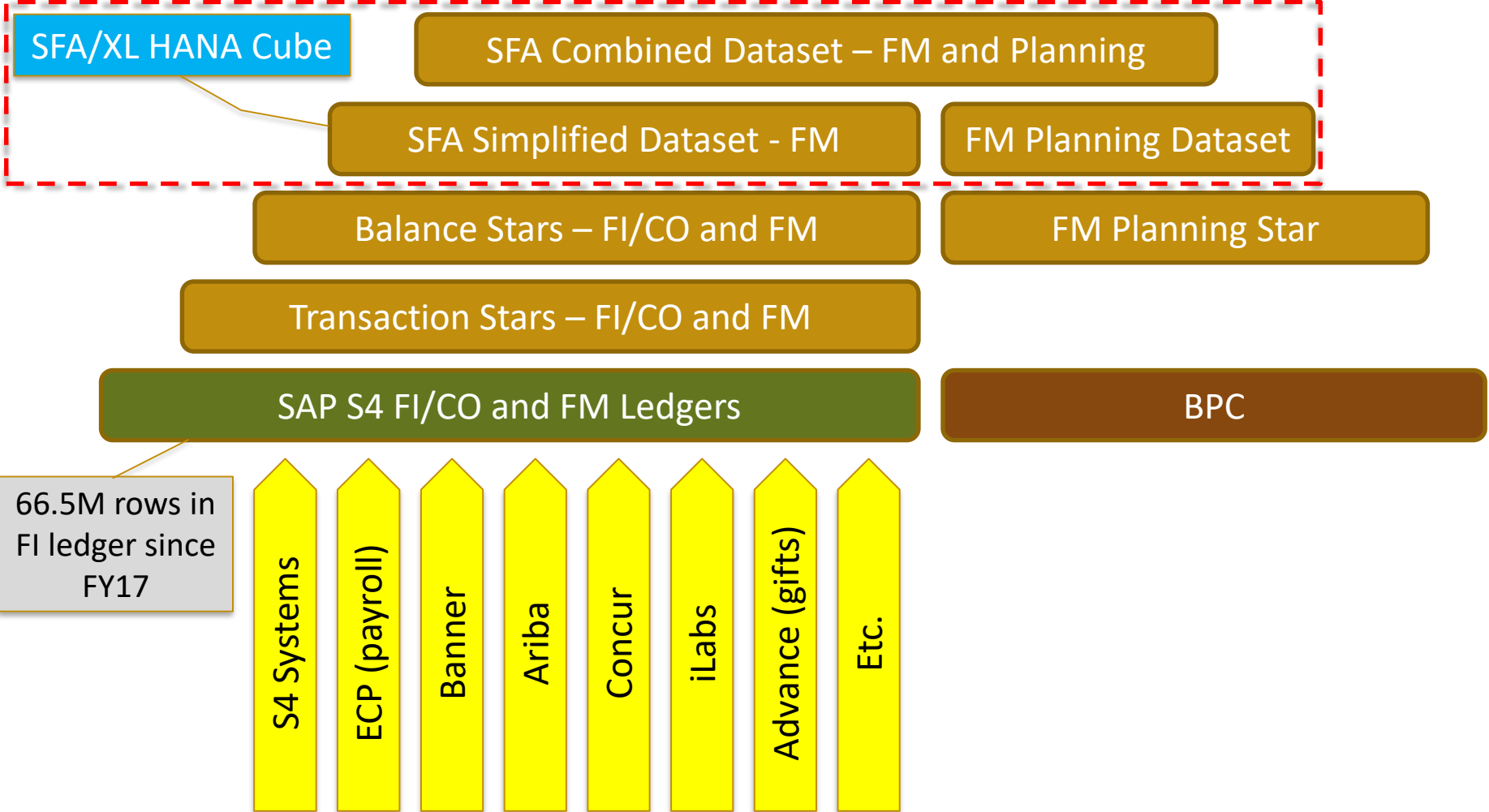
## Direct Excel access to HANA-based data cubes

- Provides a simple ad-hoc query ability

Run-times  
reduced from  
hours to  
fractions of a  
second

# Data Structure

HANA architecture





# Final Finance Reporting Strategy

Limited number of standard reports

- Not trying to answer every question, but giving the fastest answers to the most common questions

Provide “accessible” tools to enable locally-owned reports and ad-hoc querying

- SFA/XL tool (“Excel-on-HANA”)
  - Relatively small learning curve
  - Shortest “time to an answer”
  - Limited ability to format output
- SFA Simplified Dataset in Cognos
  - Requires more application-specific knowledge and expertise to be efficient
  - Provides ability to edit and format content



# Demo



Landing pages

Statement of Financial Activity (SFA) reports

Simplified dataset

SFA/XL (“Excel-on-HANA”)



# Current Barriers And Challenges



## Financial literacy

- Example: What does “operating” include?

## Difficulty defining common views

- Each department wants to define its own view, do projections its own way

## Change fatigue/Need for education & training on current tools

## Source data issues/enterprise system inconsistencies

- Example: Department structure in Banner vs SAP
- Example: Allocation of Online revenues/expenses

## Differing views about user access controls

## Trust

- Reference NACUBO survey on finance analytics barriers
- 

# Future Goals



Increased adoption of current tools

Better data integration with source systems

- Example: Banner revenue & expense details for online programs, student aid, etc.

“Missing middle” reports

- Reports that bridge between summary statements and detailed transaction listings

Expansion of “self-service” for non-finance staff

Multi-year and driver-based forecasting

Dashboards for Finance – identify potential opportunities/benefits





# **TRAINING NEEDS SURVEY RECOMMENDATIONS**

**DECEMBER 2019, BIAC COMMITTEE**

SARAH BAUER, STEPHEN LIPPS, CASEY MARKS, MARGARET  
WU, ANDREA PLUCKEBAUM, JENNIFER LITTLEFIELD, ZACH  
YATER, KARIS WAIBEL, SUE WILDER

**PURDUE**  
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# Hotseat

## login...

- <https://www.openhotseat.org>

- Select

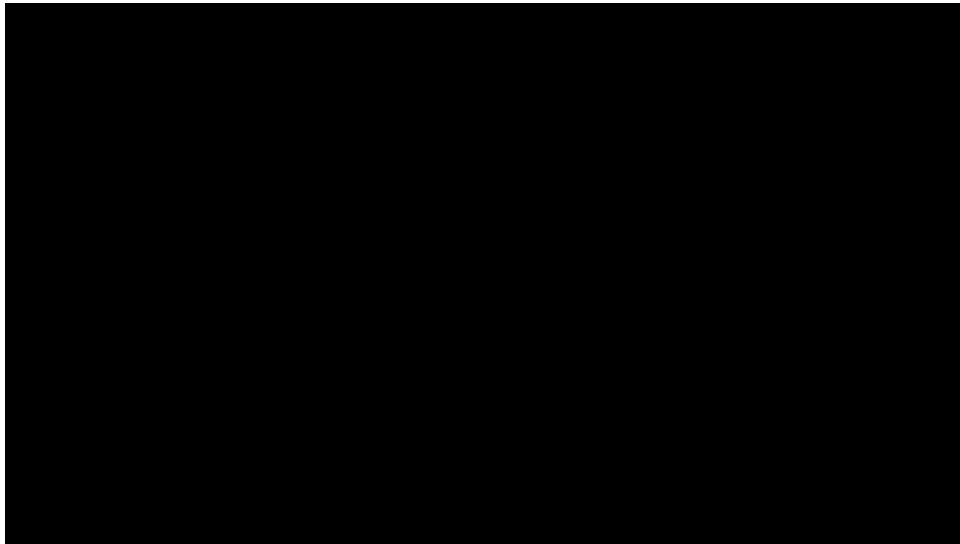
 Public Spaces

- Find

!BIAC December 2019

# Question 1

**Who would win a game of poker Batman or Purdue Pete and why?**



# Survey

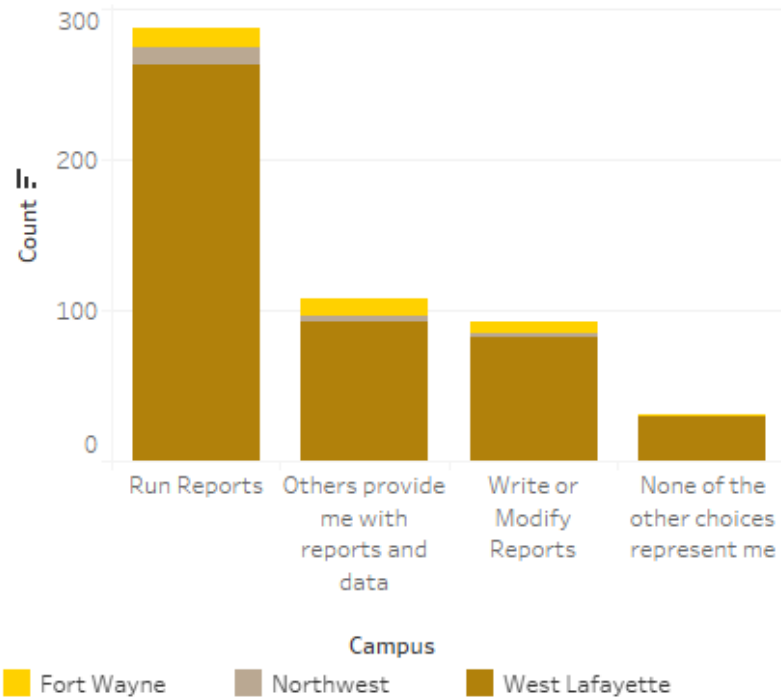
## Three Themes

- What kind of data do you want training on?
- What kind of training to you want?
- How do you want to be notified of data related changes?

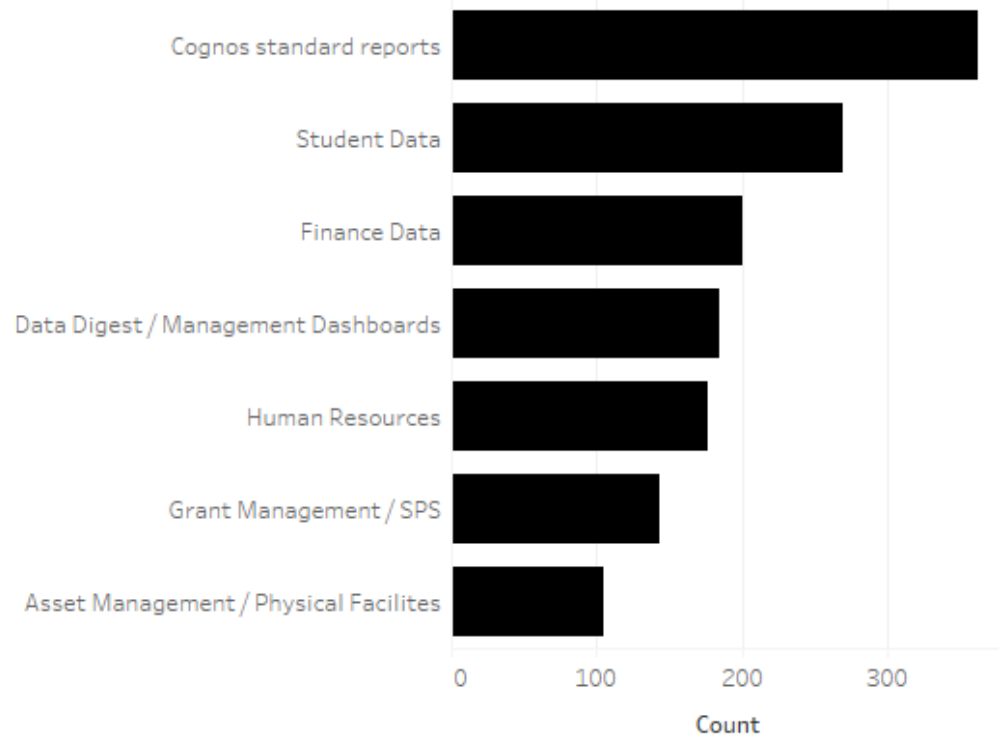


# 518 Responses

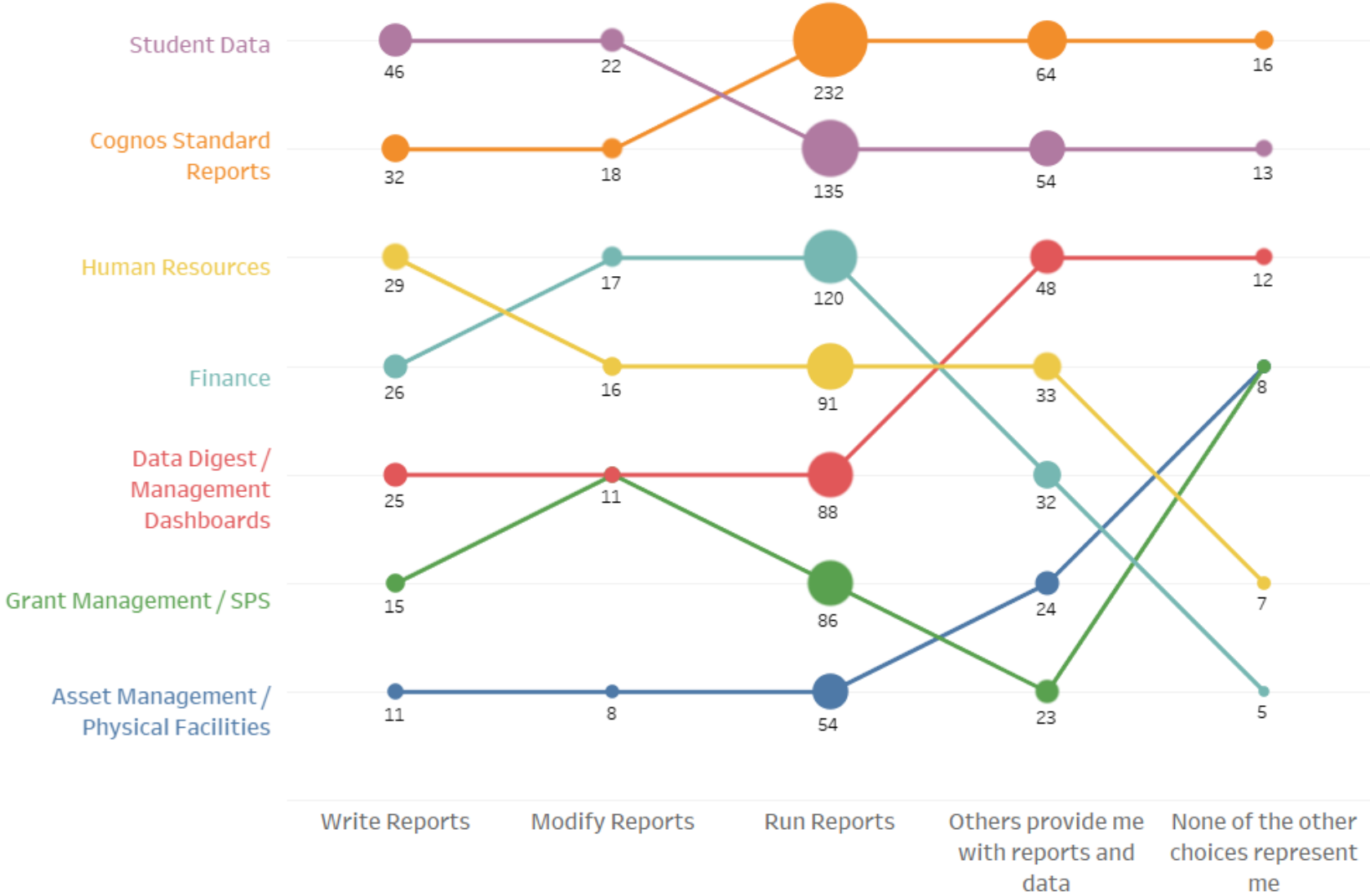
## Which of these best represents you?



## Which kind of data are you interested in receiving training for?

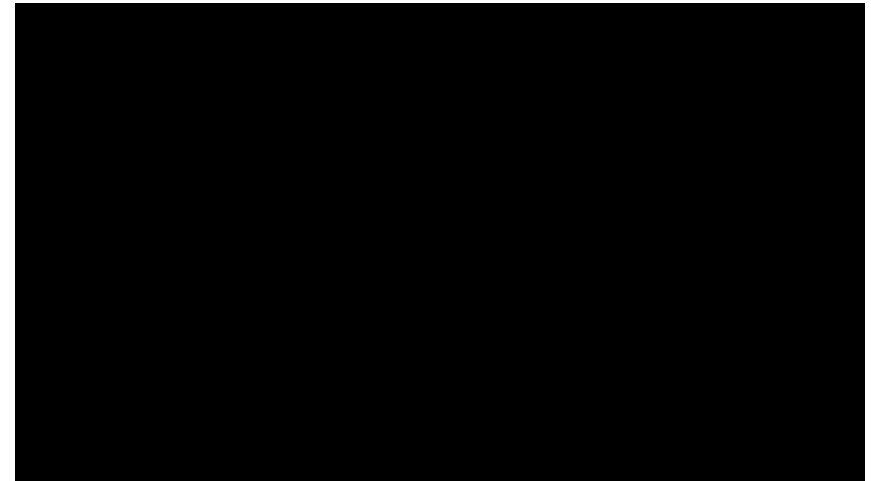
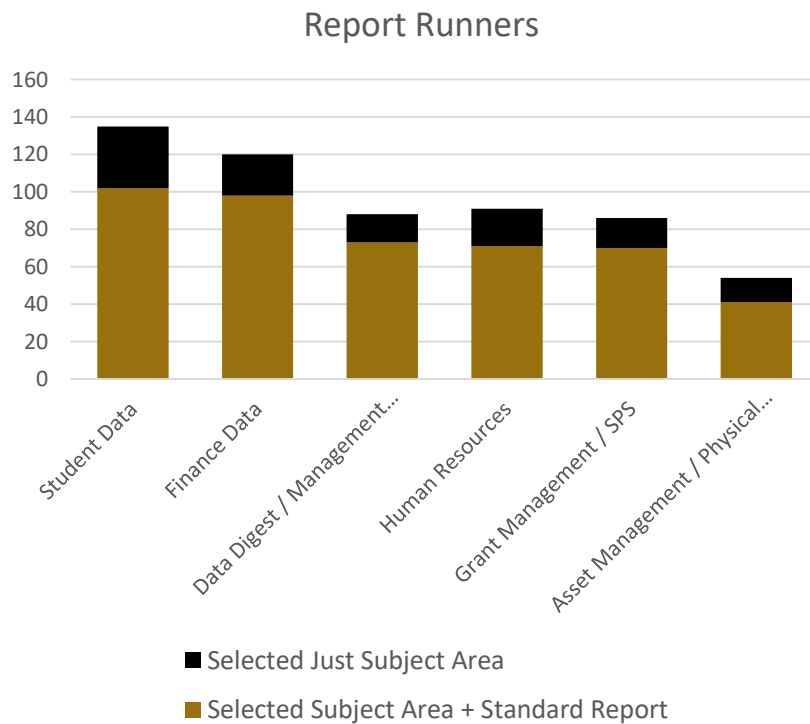


# Combined



# Recommendation

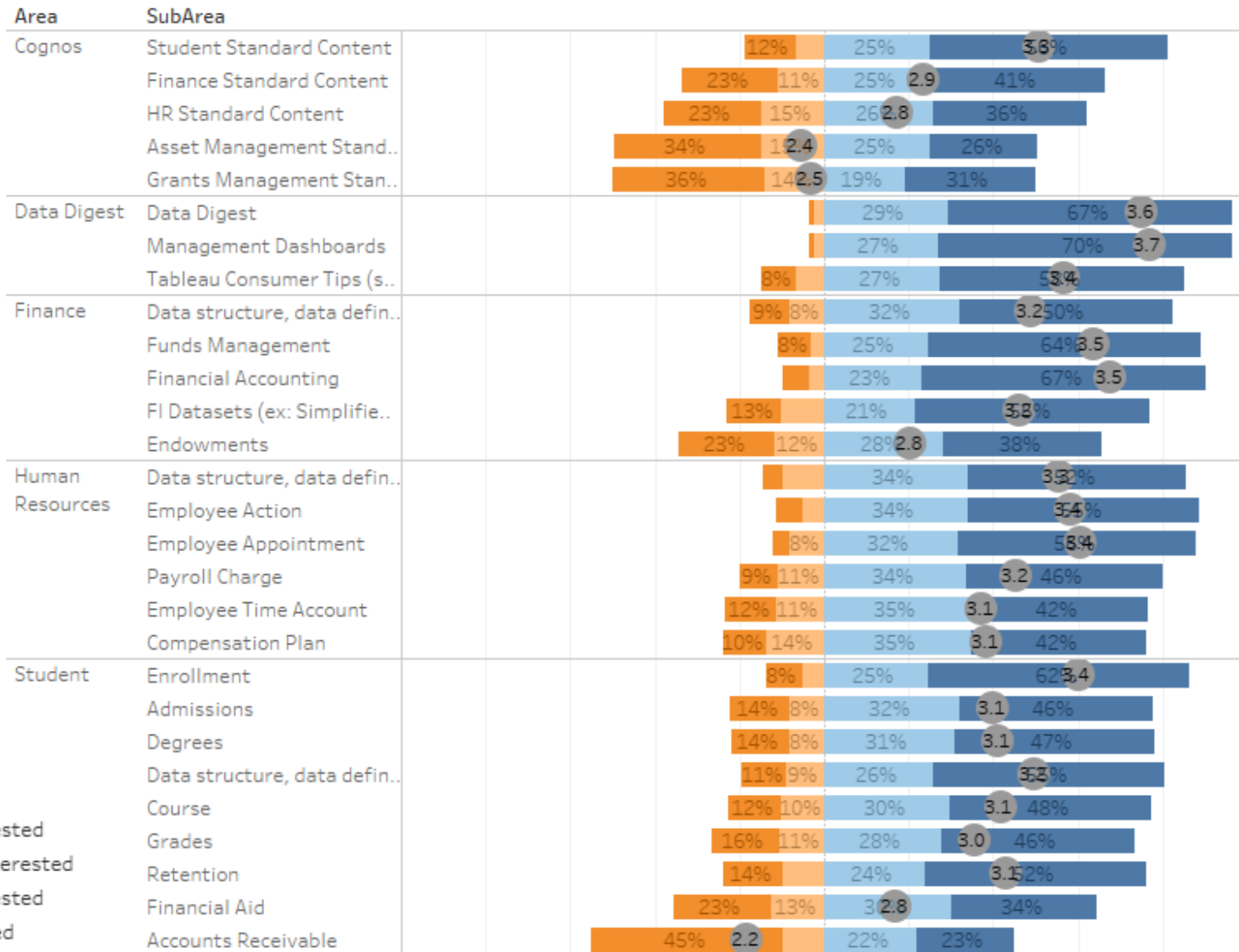
## Conduct Standard Report Training for Report Runners



### Hotseat Second Question

- Does standard report training make sense?
- What additional context can you provide?
- What additional recommendations do you have?

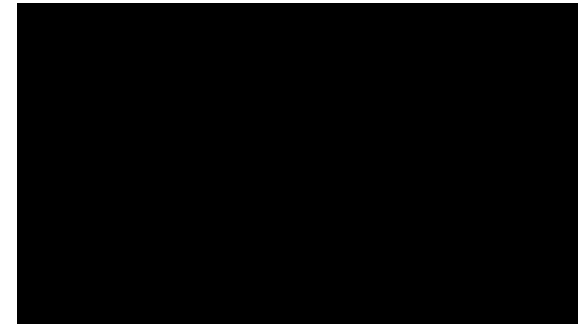
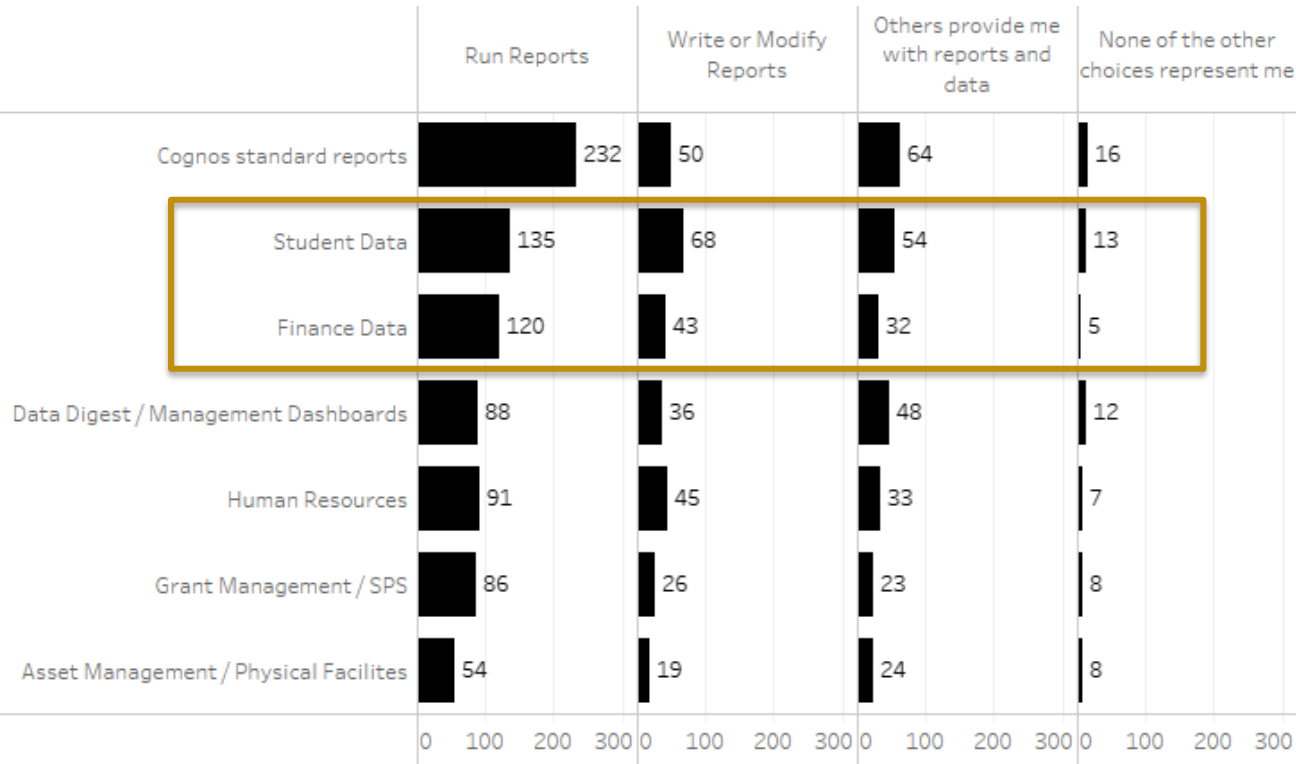
# Please indicate your interest in training about the following topics



■ Very Disinterested  
■ Slightly Disinterested  
■ Slightly Interested  
■ Very Interested

# Recommendation

## Conduct Training on Student and Financial Data



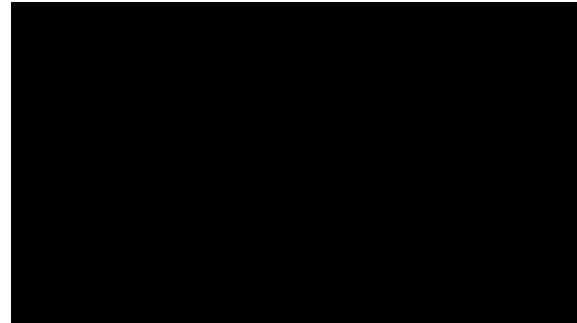
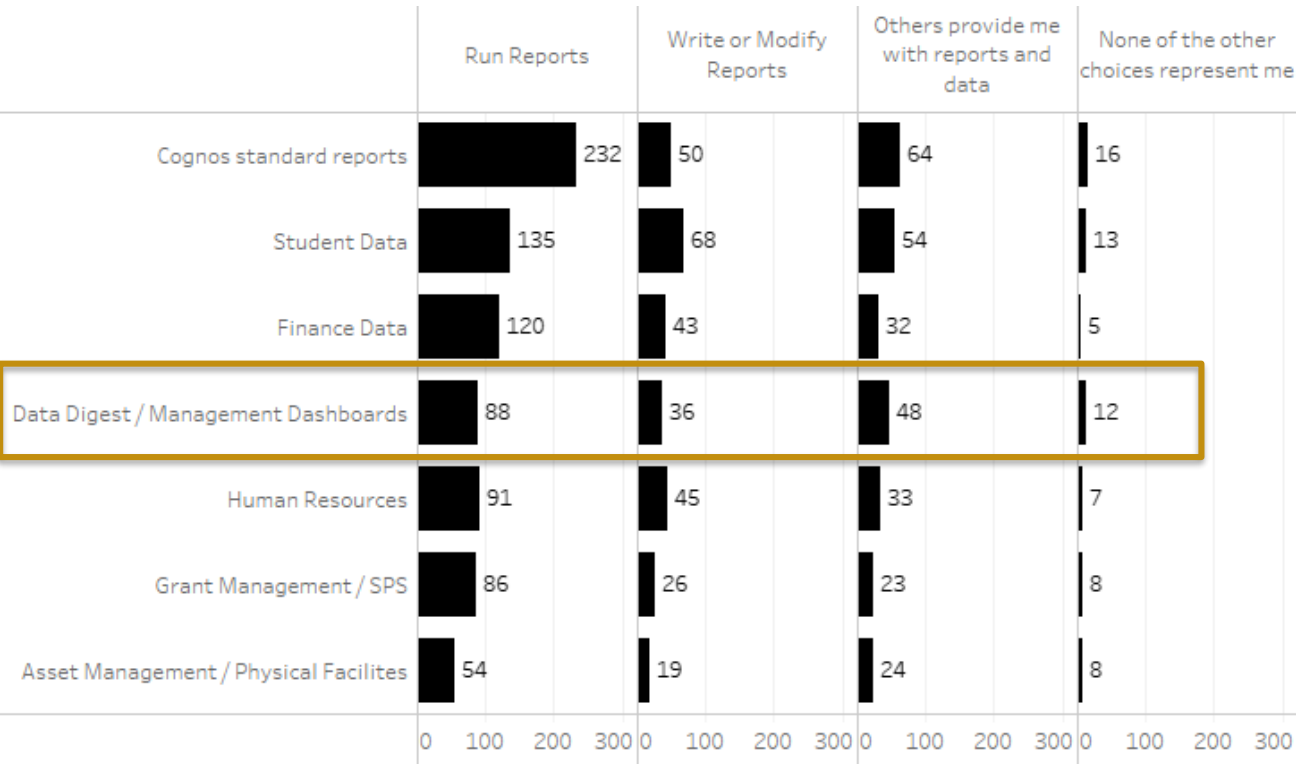
### Hotseat Third Question

- Does student and FI training make sense?
- What additional context can you provide?
- What additional recommendations do you have?



# Recommendation

## Conduct Training on Data Digest / Management Dashboards

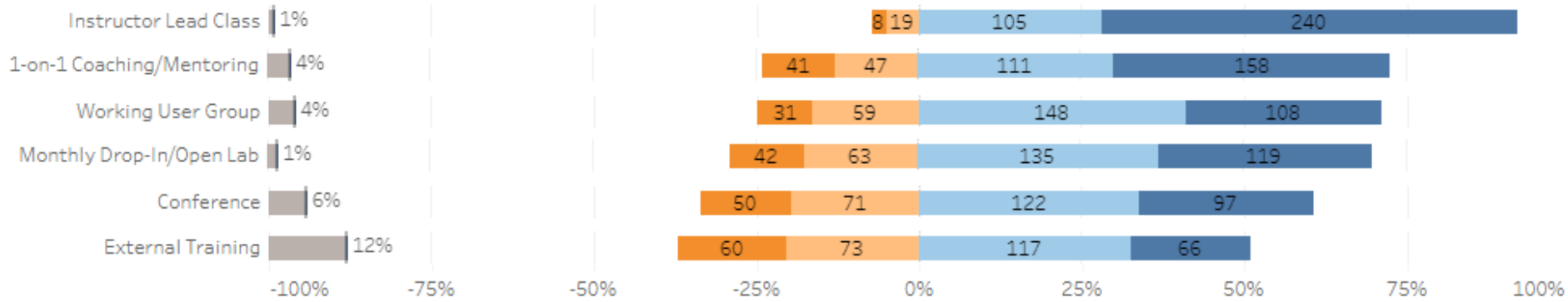


### Hotseat Fourth Question

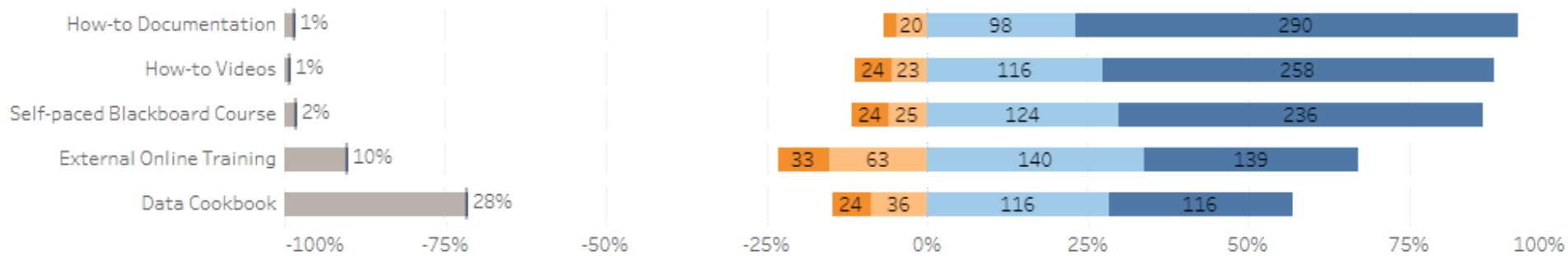
- Does DD/MD training make sense?
- What additional context can you provide?
- What additional recommendations do you have?

# How likely would you be to use each of these training options?

## In-Person Training



## Online Training



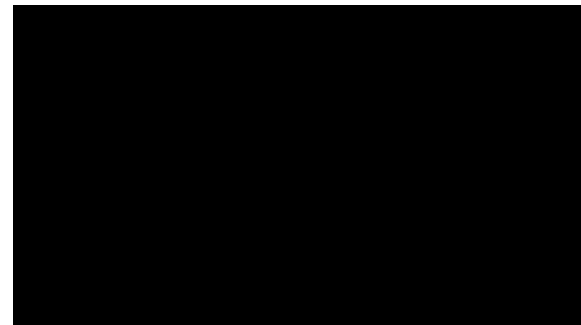
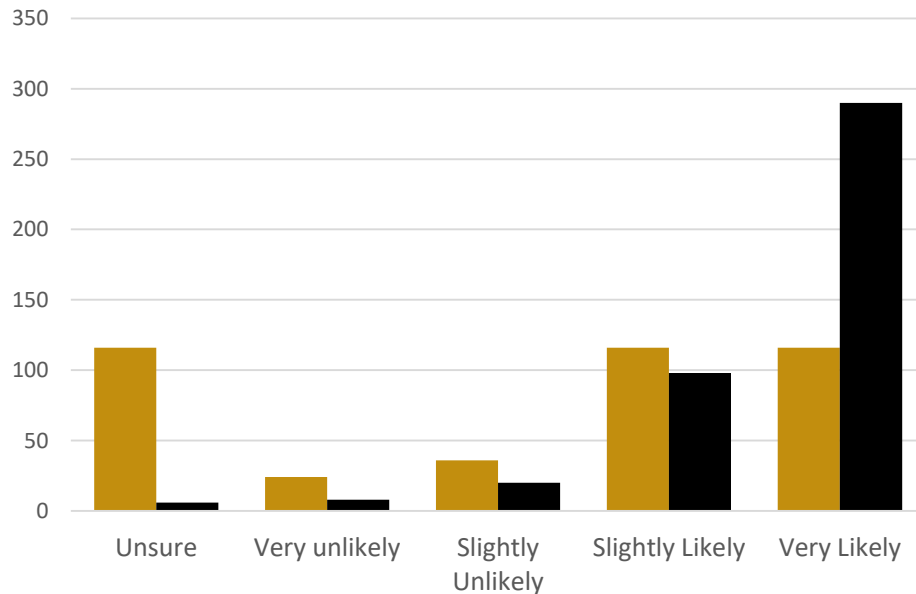
Unsure
  Very unlikely
  Slightly unlikely
  Slightly likely
  Very likely



# Recommendation

## Add How-to-Documentation, consider Cookbook

■ Data Cookbook  
■ How-to Documentation



### Hotseat Fifth Question

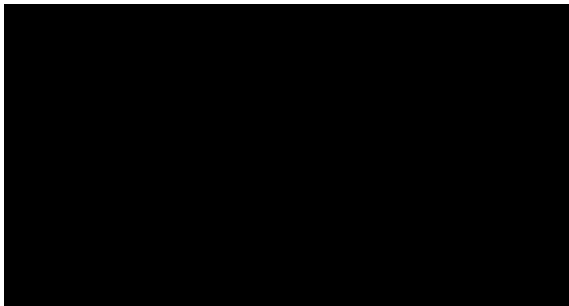
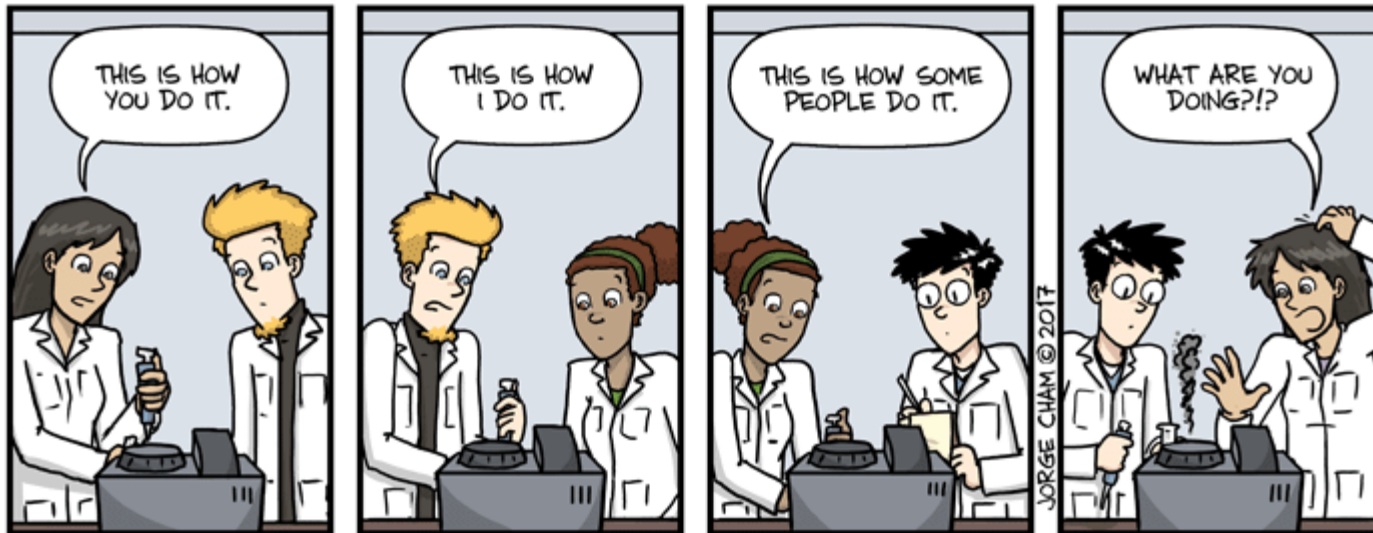
- Does how to documentation make sense?
- How might we use Cookbook to facilitate this documentation?
- What additional context can you provide?
- What additional recommendations do you have?



# Recommendation

## Create a Central Website for all Training Resources

### TRAINING TELEPHONE



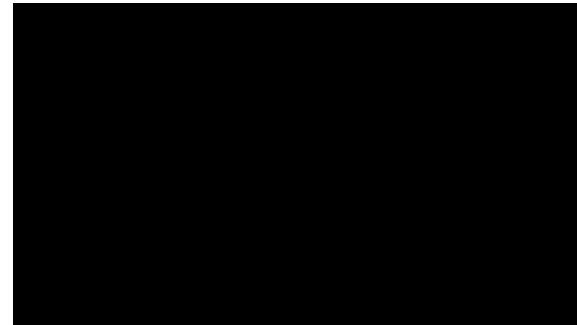
### Hotseat Sixth Question

- Does anyone dissent, if so why?
- Where would you put such a resource?

# Does it mater?

## What are the risks of not providing any additional data training?

- Hotseat Seventh Question



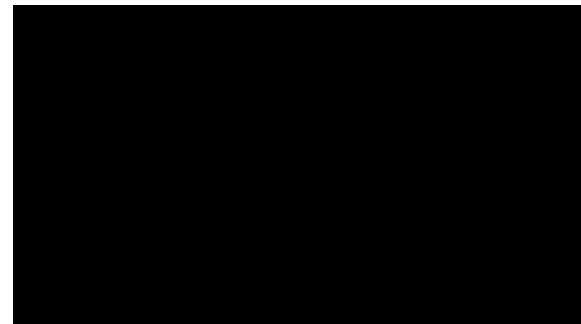
# In Summary

## Recommendations

- Conduct Standard Report Training for Report Runners
- Conduct Training on Student and Financial Data
- Conduct Training on Data Digest / Management Dashboards
- Add How-to-Documentation, consider Cookbook
- Create a Central Location for all Training Resources

### Hotseat Eighth Question

- Any additional recommendations?
- Anything we missed?
- Anything the BI-Strategic Priorities Committee needs to be aware of?





# THANK YOU

**Any Questions?**