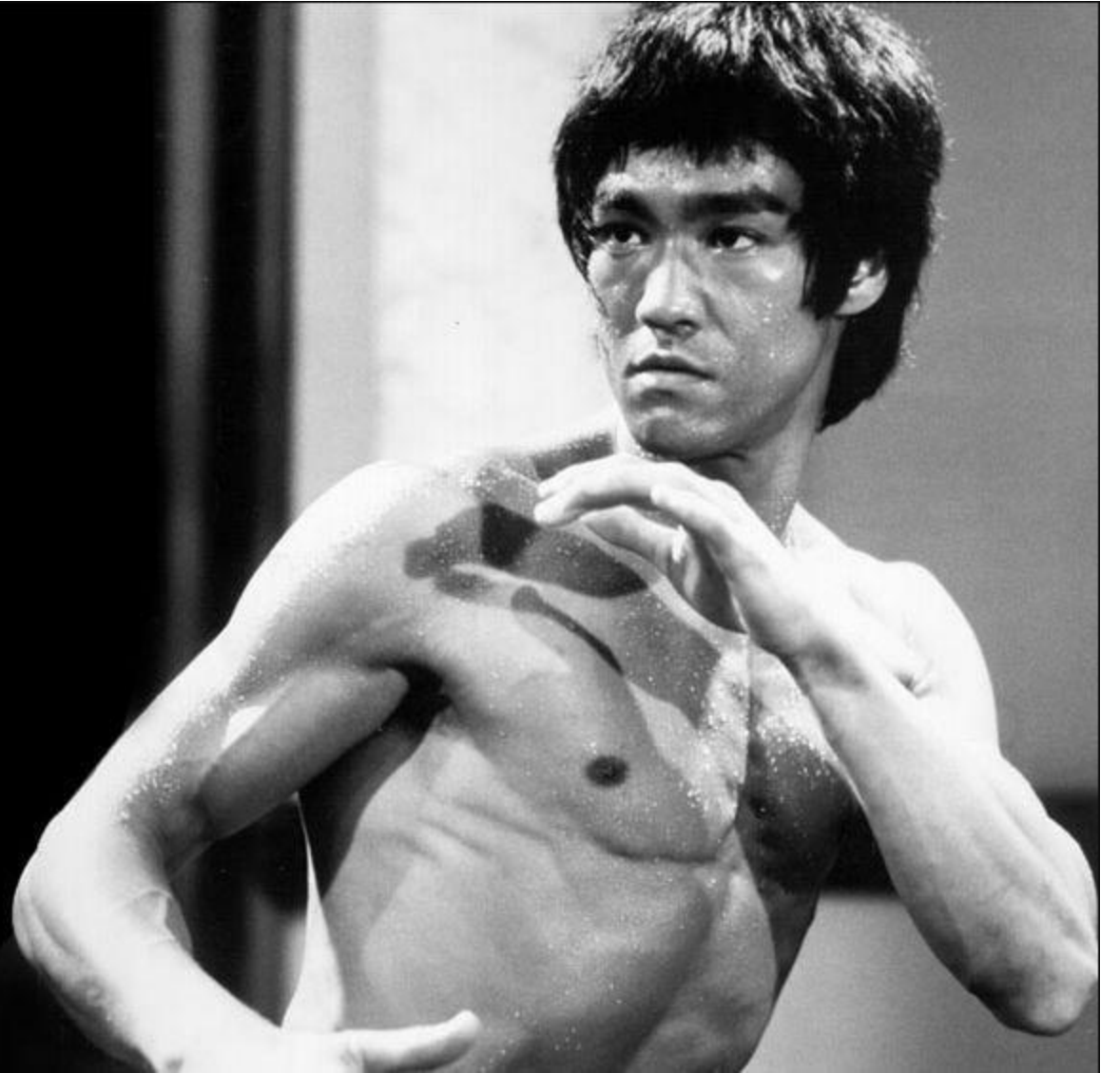


# Tackling Higher Ed's Data Literacy Challenge:

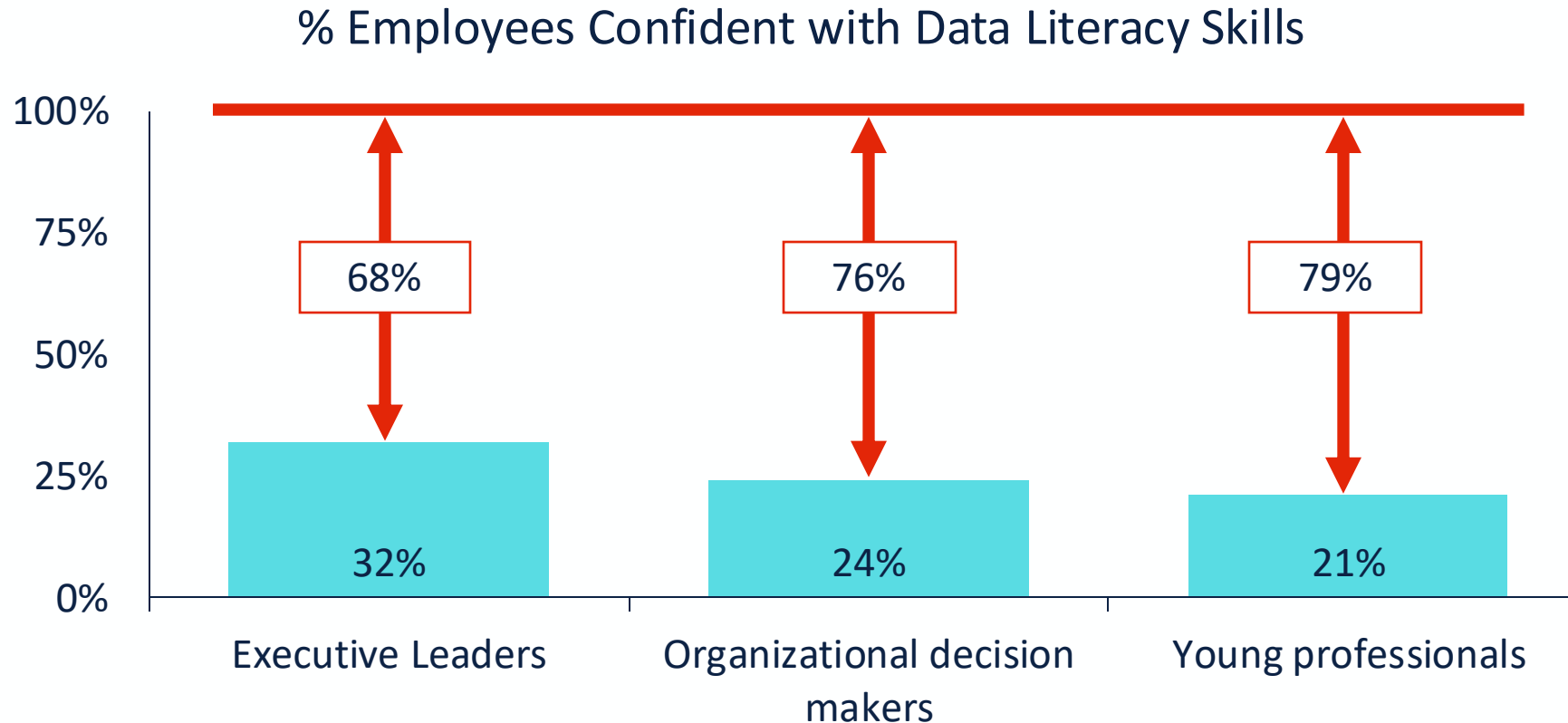
*<https://www.airweb.org/dataliteracy>*

Knowing is not enough,  
**we must apply.**  
Willing is not enough,  
**we must do.**

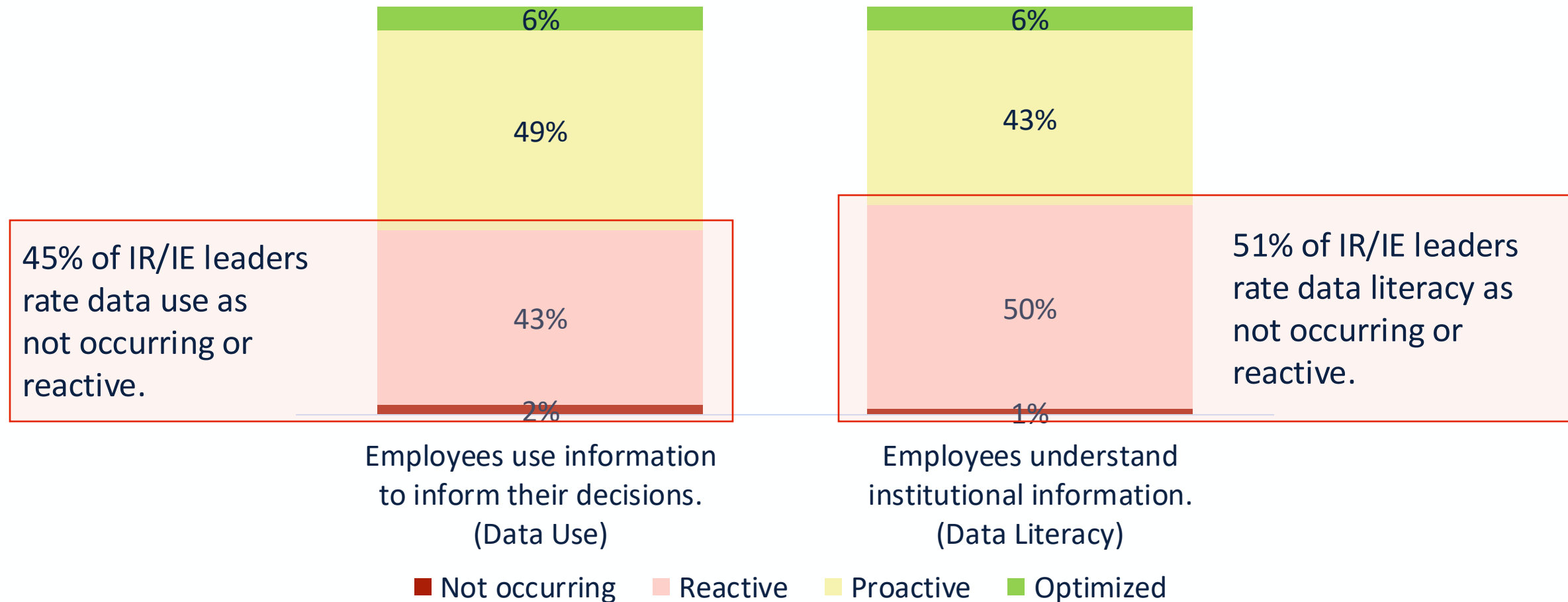
*- Bruce Lee*



# Data Skills Gap in Public Sector Organizations



# 2024 AIR National Survey: Current State of Institutional Data Use and Literacy



*Not occurring = No evidence this exists; Reactive = Acting due to immediate situation; Proactive = Sufficiently matured where institution anticipates and works towards future needs; Optimized = Achieved a situation that is as perfect and functional as possible.*

# Institutional & Organizational Barriers to Data Literacy

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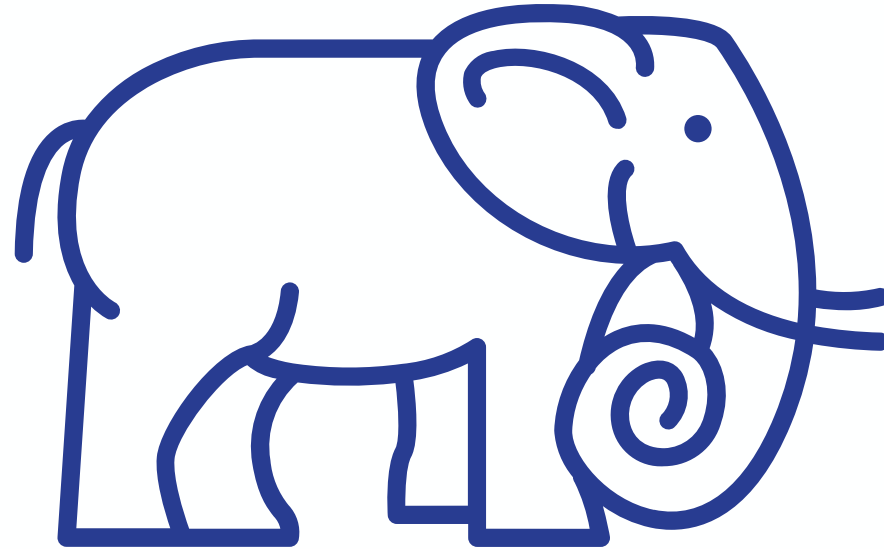
- Siloed data & lack of integrated systems
- Lack of leadership & vision
- Lack of leadership modeling
- Lack of shared language
- Initiative fatigue

# Individual Barriers to Data Literacy

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- Lack of data literacy training
- Discomfort with “data-driven” accountability
- Varying levels of data aptitude & interests
- Overemphasis on tools instead of understanding
- Data fatigue and information overload

**How do you eat an elephant?**

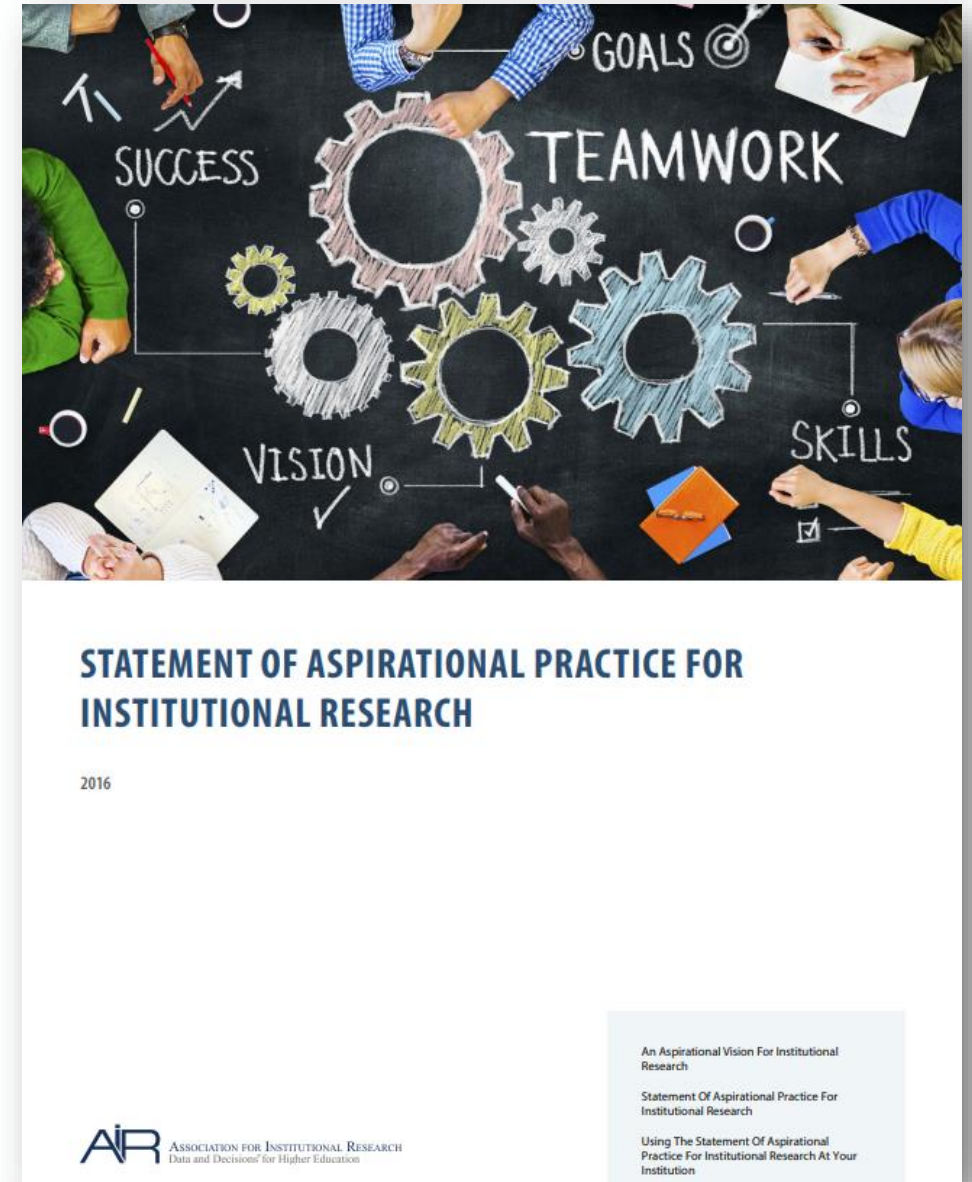


## AIR's Statement of Aspirational Practice for Institutional Research

*"...the reality is that the new role for institutional research is in coaching a wide array of data consumers..."*

*"The goal is for data literacy to be as ubiquitous as expectations for writing, speaking, and computer skills."*

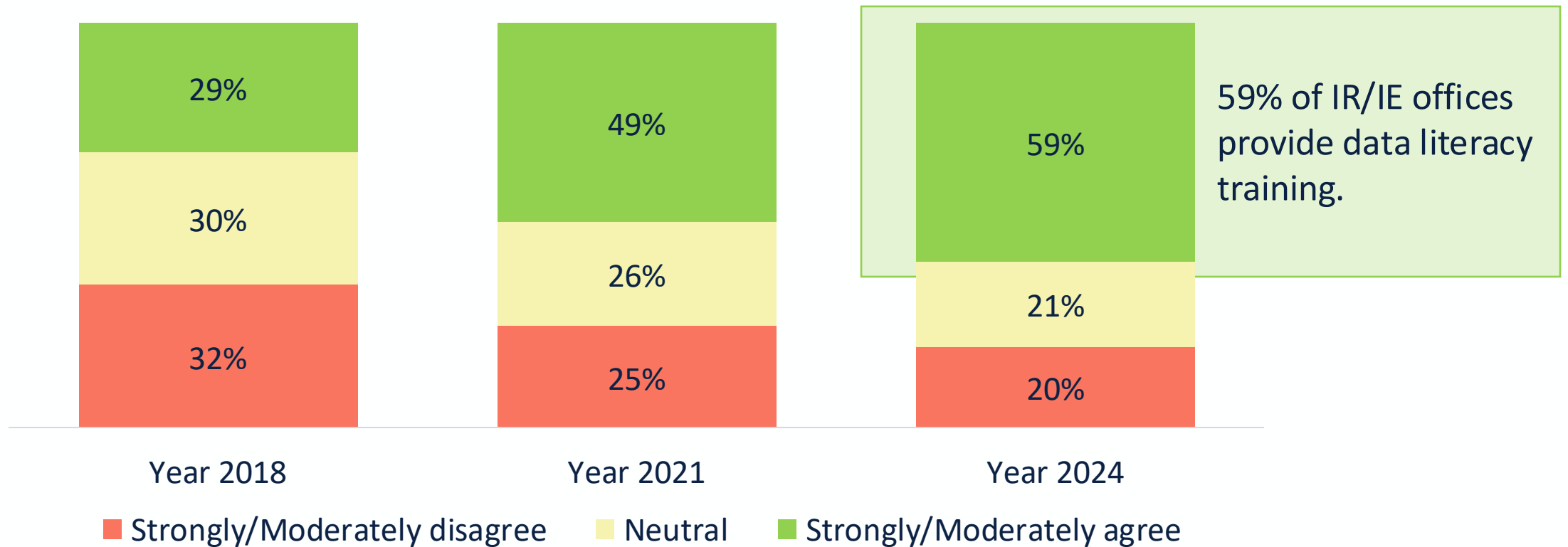
Reference: <https://www.airweb.org/ir-data-professional-overview/a-statement-of-aspirational-practice-for-institutional-research>





# AIR National Survey – Data Literacy Training

Office provides educational opportunities or coaching to enhance the data literacy of institutional stakeholders



# IR/IE Office Provides Educational Opportunities to Enhance Data Literacy of Stakeholders: Small vs. Large Offices

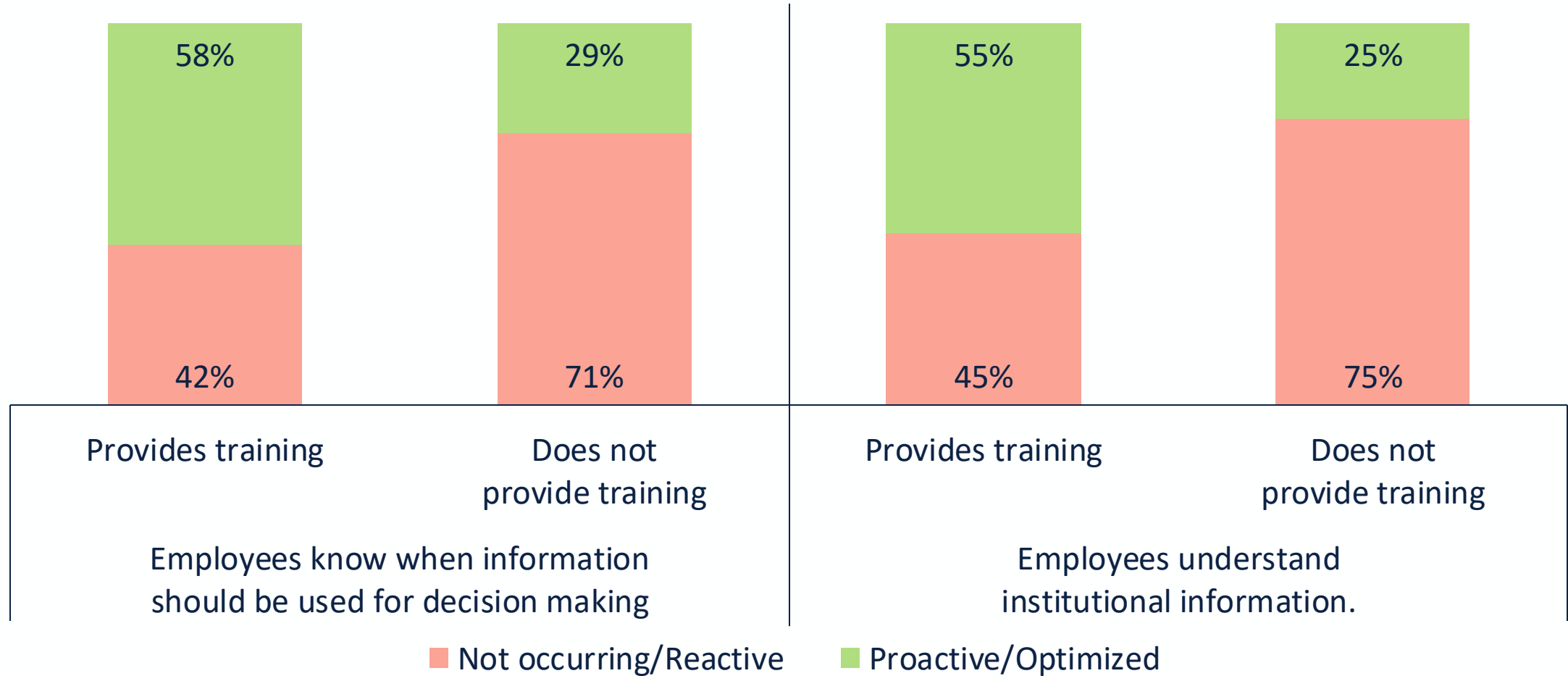
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1 or fewer staff FTE      More than 2 to 4 staff FTE      More than 6 staff FTE

■ Strongly/Moderately disagree   ■ Neutral   ■ Strongly/Moderately agree

# Data Literacy: Differences by Training\*\*\*



One-on-one coaching

Lunch and learns

Courses or programs

## Advantages

## Challenges

One-on-one coaching

Lunch and learns

Courses or programs

*If you want to **improve data literacy** at your organization or institution,  
training can't be done once.*

*Training must be **championed** and ingrained  
into your organizations or institution's culture.*

*But if that **champion** leaves,  
then the program often **collapse**.*

*AIR wants to help **enhance** your current efforts  
and offer a more **stable** solution.*

---

# What is AIR's Approach to Data Literacy?



**Knowledge**  
What we  
know

**Skills**  
What we  
can do

**Mindset**  
What we  
think

**Habits**  
What we  
do





Mitigates  
cognitive  
biases



Eliminates data  
elitism;  
Promotes data  
democratization



Humanizes data:  
Real people are  
behind those  
numbers



Promotes success  
for all Students

# AIR's Data Literacy Institute



## ***12-Week Program***

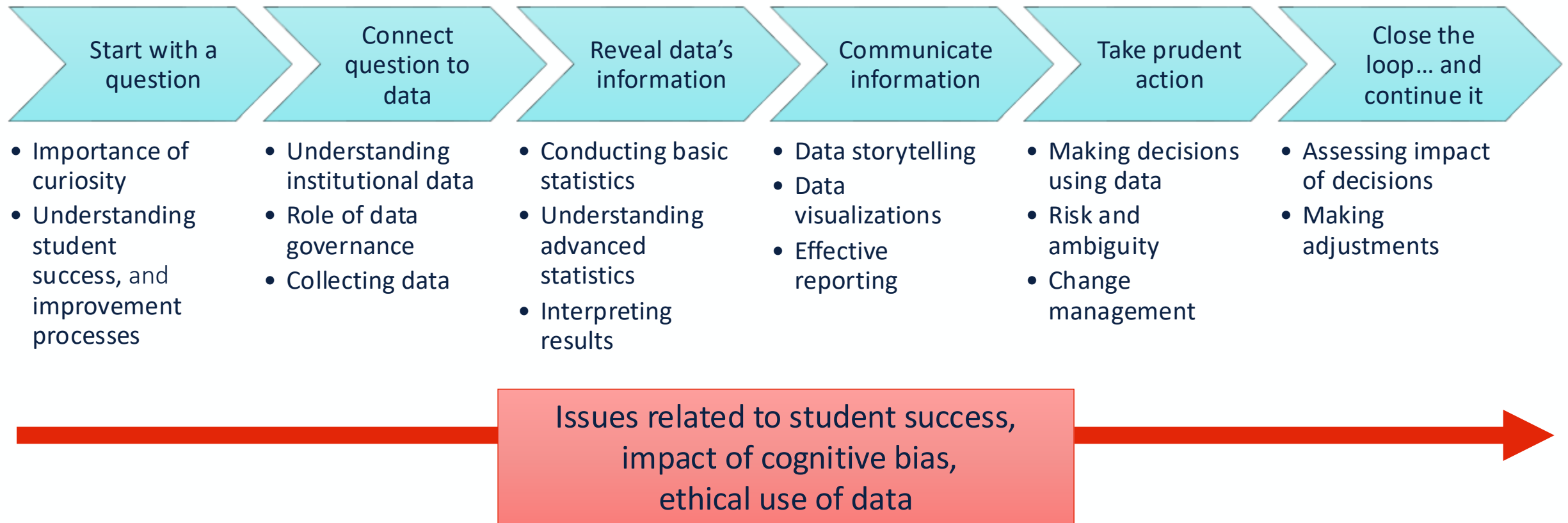
- ***3 cross functional teams, with up to...***
- ***10 participants per team, engaging in...***
- ***24 hours of live instruction, and...***
- ***36 hours of asynchronistic learning and group activities, for...***
- ***1 purpose...***

***To strengthen institutional connections and expand data literacy.***

<https://www.airweb.org/dataliteracy>

# AIR's Data Literacy Institute

## Data-Informed Decision-Making Framework



# AIR's Data Literacy Institute

## Flipped Classroom Model

# Live meeting

- Weekly 2-hour Zoom conference call with an instructor
- Content review, discussion, demonstrations, problem solving

# Pre-meeting

- Watch recorded tutorials
- Participate in discussion board

## Post-meeting

- Weekly assignments focused on completing the Capstone project
- Includes weekly office hours supported by DLI instructor

# AIR's Data Literacy Institute

## Capstone Projects

Participants are assigned a team for the duration

Collaborate to explore an important student success issue

Write an Executive Summary;  
Present findings

Not original work

Identify an area of needed improvement

Learn the process to use in future projects.

# AIR's Data Literacy Institute

## Capstone Projects

Financial Burden  
Impacts on Student  
Success

Influence of Faculty  
Feedback on  
Student Behaviors  
and Achievements

Pell-Eligible  
Graduation Rates

Retention of  
Students Entering  
College with  
No Credits

Retention Rates for  
Commuter  
Students

Success 101: Is it  
Successful?

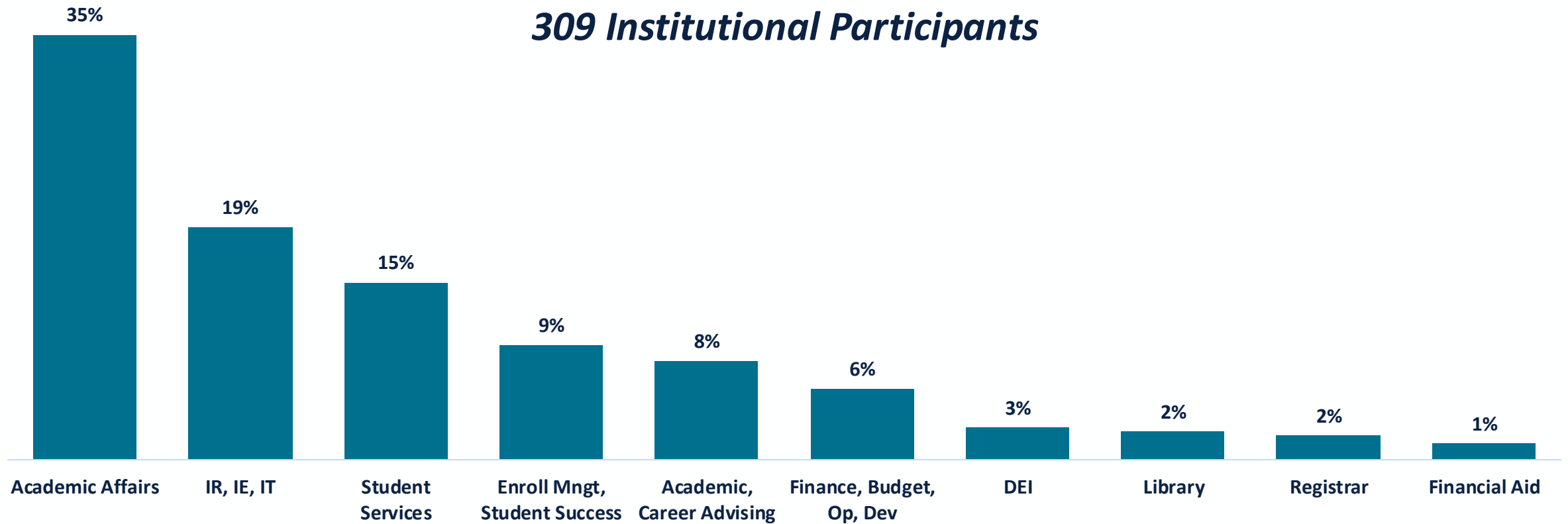
What are the  
experiences of the  
participants?



# AIR's Data Literacy Institute

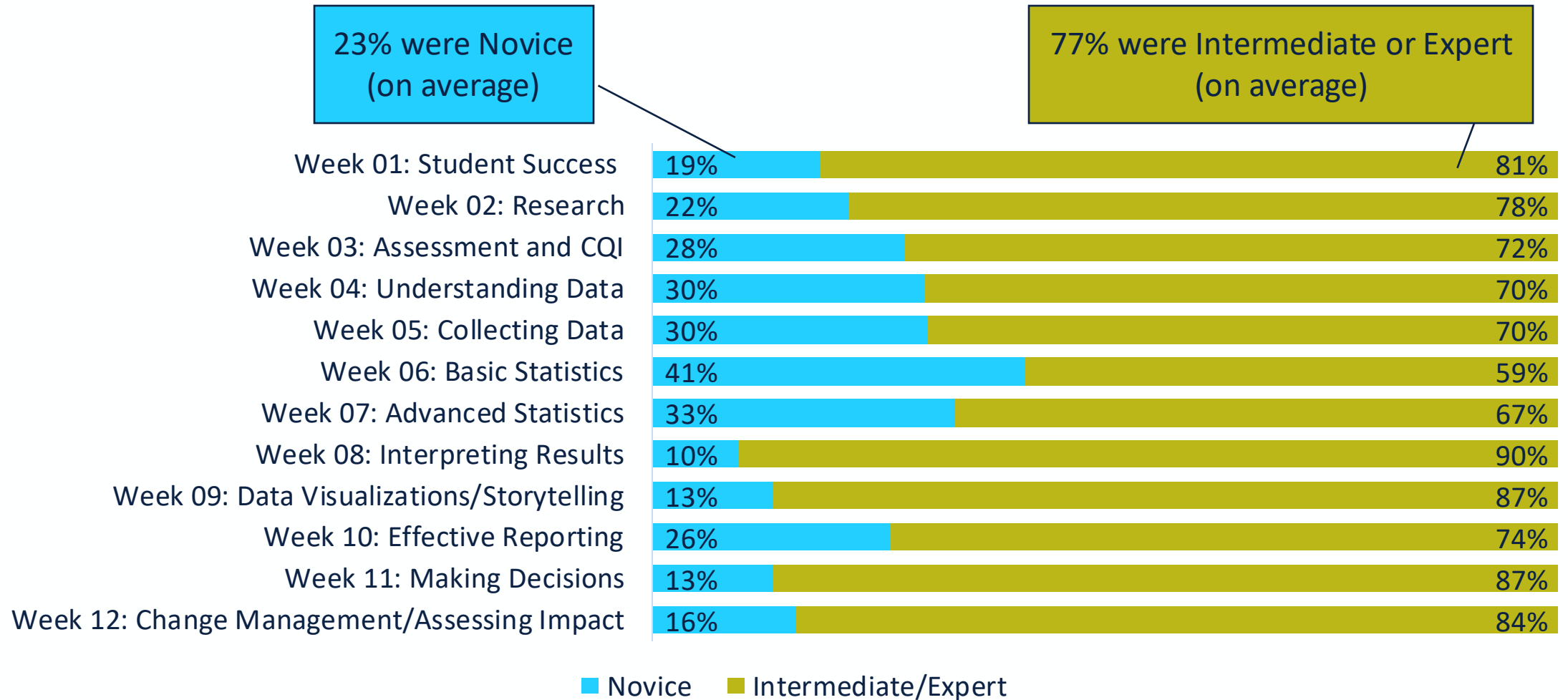
## Participant Roles

*309 Institutional Participants*



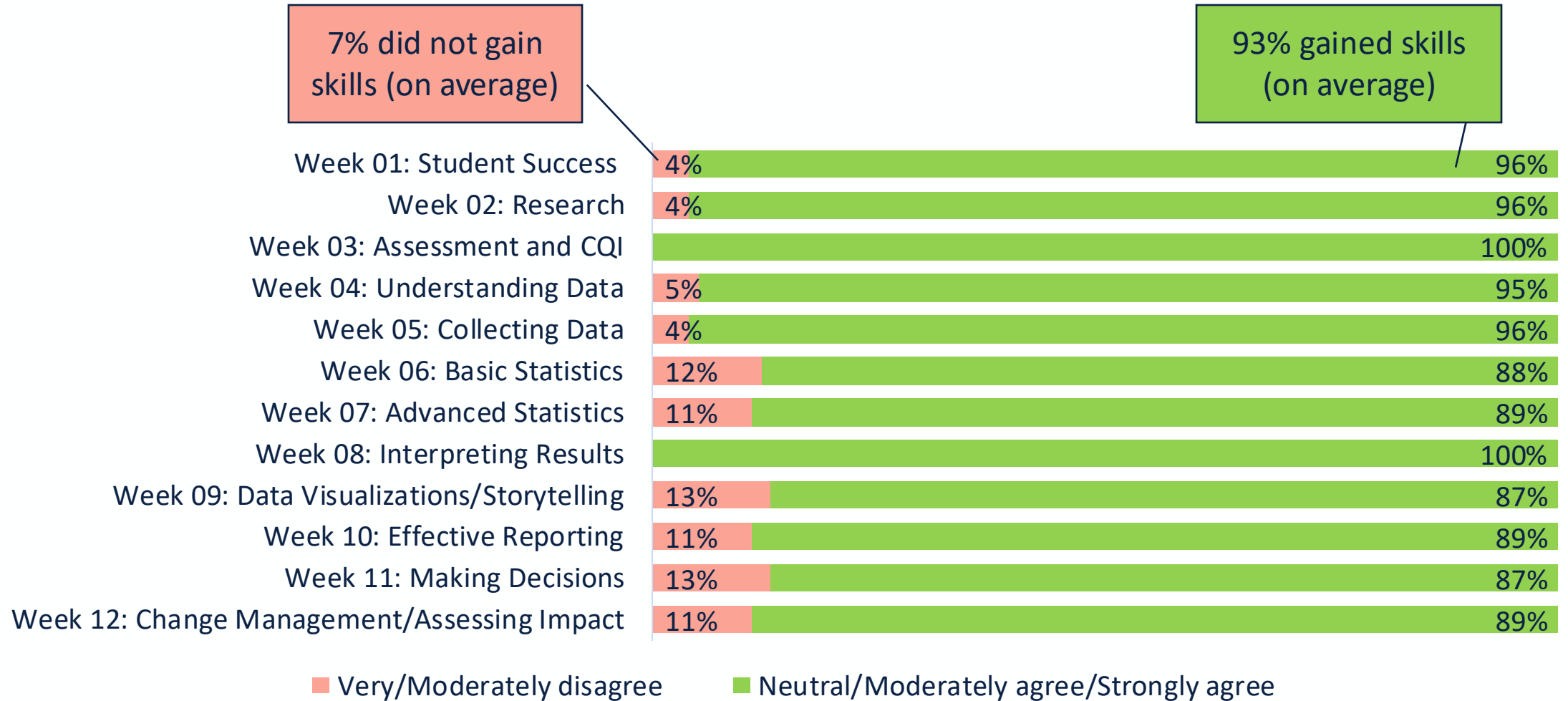


# Self-Reported Expertise Prior to Zoom Session (Fall 2024 Cohort)



Data Source: Zoom poll taken immediately following each weekly lecture. Fall 2024 Cohort.

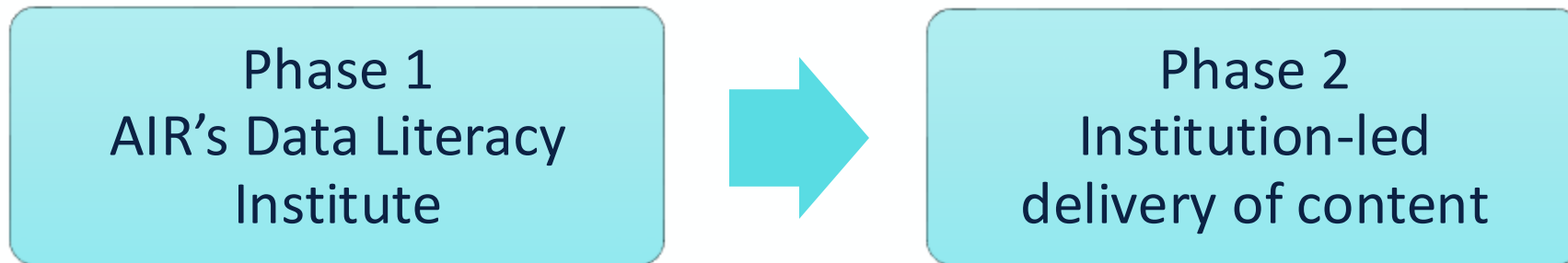
# Based on this week's experience, my data literacy skills have improved. (Fall 2024 cohort)



Data Source: Zoom poll taken immediately following each weekly lecture. Fall 2024 Cohort.

# AIR's Long-Term Goal

**We want to build a partnership with you.**



**AIR helps build a culture of data literacy professional development at your institution.  
Once it is ingrained in the culture, you can make it your own.**



**Questions...**