

In a world with data everywhere,
the hero is data literate.

Be The Hero



Data Literacy: A Journey

Learn the Language
of Data to Leverage
the Power of Data



Transforming How
Texas Government
Serves Texans

Texas Department of Information Resources

Data Literacy: A Journey

- ★ 25 years of data and analytics experience
- ★ Focused on health and human services
- ★ Texas Department of Information Resources -- December 2021
- ★ Task: Develop a data literacy program
- ★ New focus: State agencies and institutions of higher education
- ★ New skills: Graphic Designer, Video Producer, Voice-over Actress



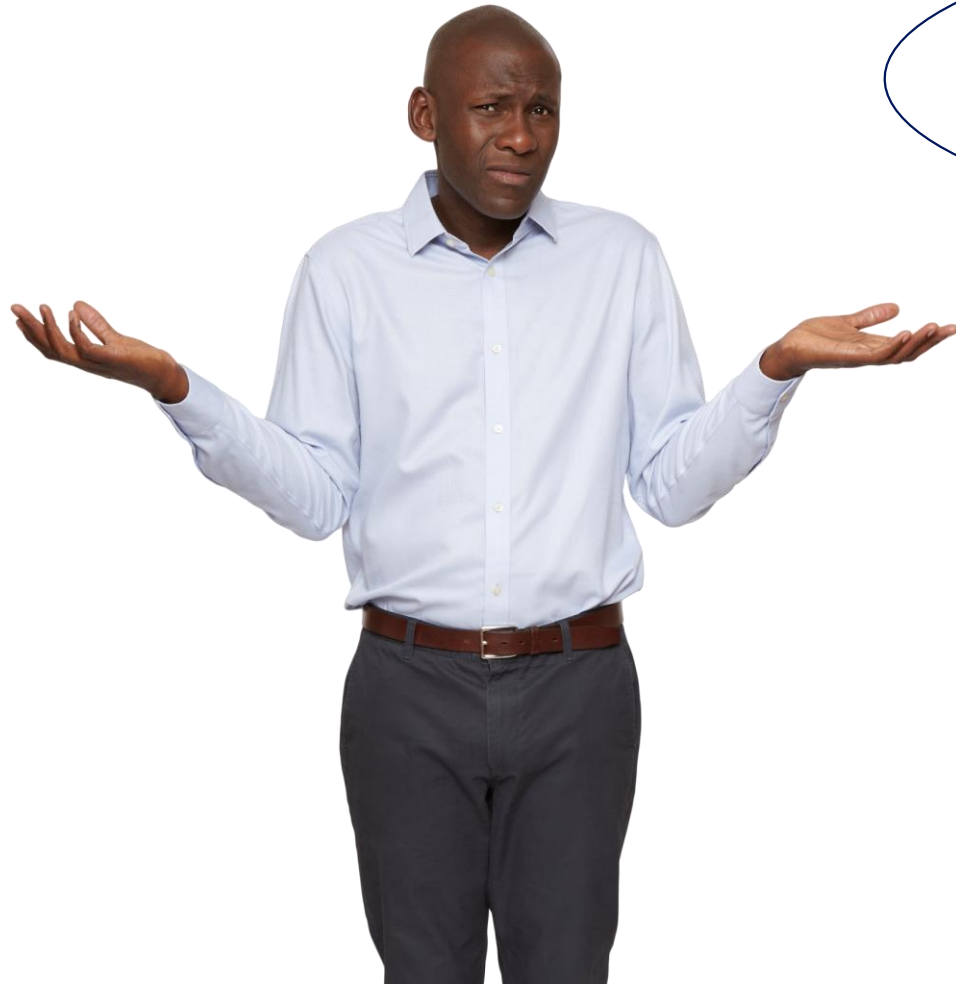
Data Literacy: A Journey



**We need to increase our
data literacy!**



Data Literacy: A Journey



**What is data literacy,
anyway?**



Interagency Data Literacy Workgroup

Employees Retirement System of Texas

Texas Alcoholic Beverage Commission

Texas Commission on Environmental Quality

Texas Department of Agriculture

Texas Department of Criminal Justice

Texas Department of Family and Protective Services

Texas Department of Insurance

Texas Department of Licensing and Regulation

Texas Department of Transportation

Texas Disaster Information System

Texas Health and Human Services Commission

Texas Higher Education Coordinating Board

Texas Juvenile Justice Department

Texas Office of Court Administration

Texas Parks and Wildlife Department

Texas State Library and Archives Commission

Texas Workforce Commission

Dallas College

Texas State University System

University of Houston – Clear Lake

University of Texas Health Science Center

University of Texas System



Other Contributors

- ★ Texas Comptroller of Public Accounts
- ★ Colleagues in Texas and other states
- ★ DIR Legal, Privacy, Information Security
- ★ DIR Focus Group



Interagency Workgroup Accomplishments

- ✔ Organizational Data Literacy Assessment
- ✔ Individual Data Literacy Assessment
- ✔ Scope
- ✔ Content Development

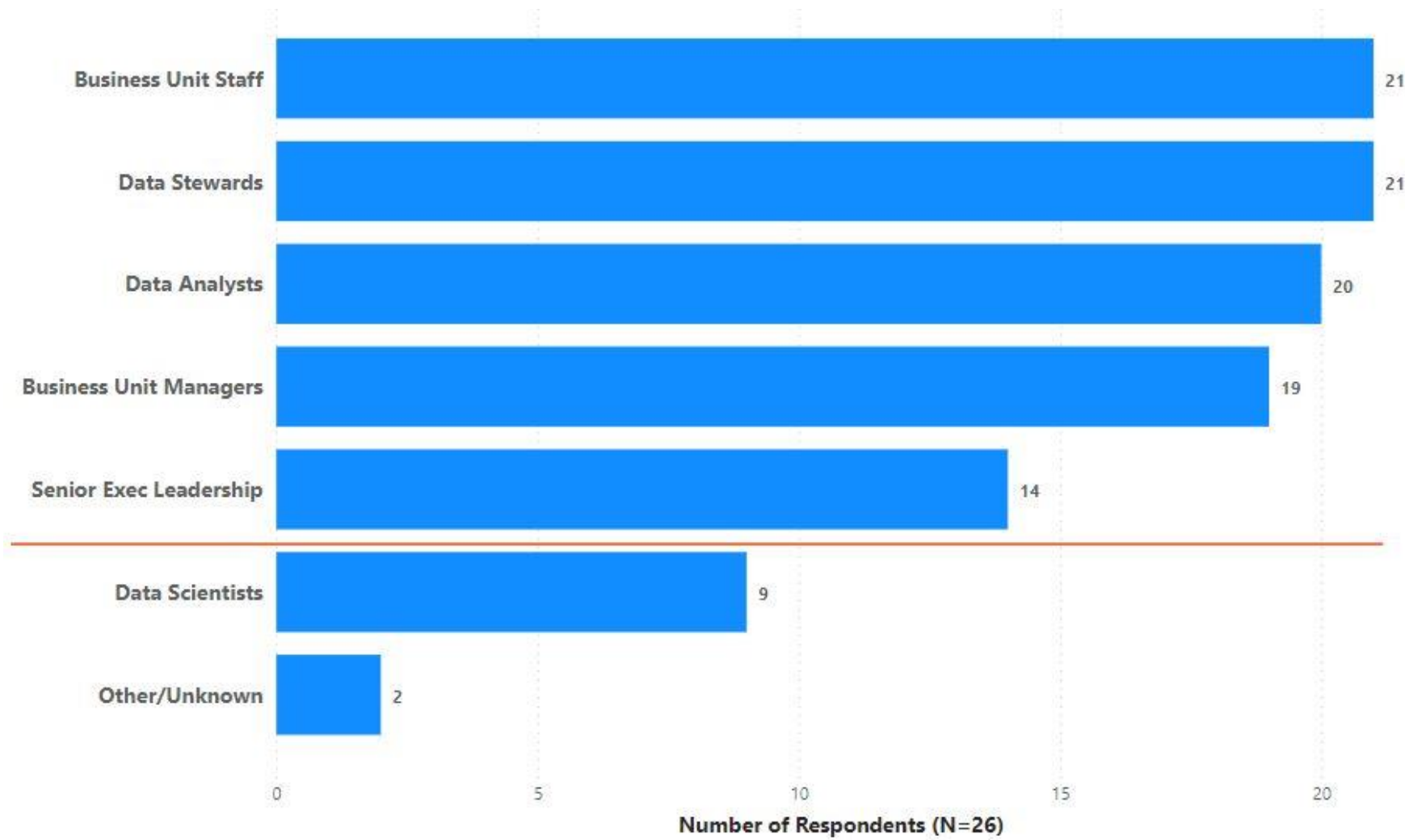


Organizational Data Literacy Assessment

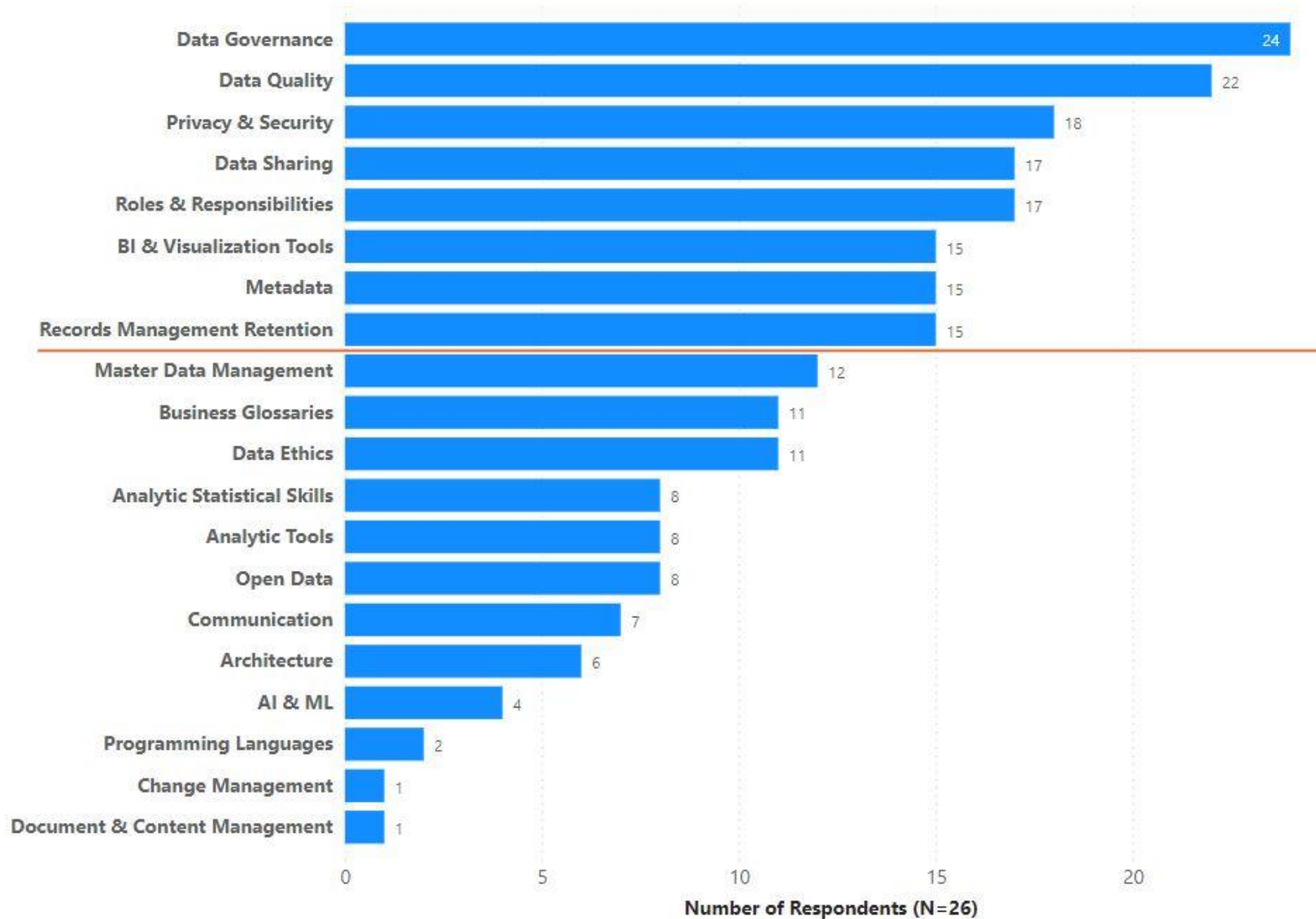
- ★ Data Management Advisory Committee (DMAC)
- ★ 26 Data Management Officers (DMOs) responded
- ★ ~50% response rate



Who Should Participate In a Data Literacy Program?



What Are Your Priority Topics?



Individual Data Literacy Assessment

Six Core Competencies of Data Literacy

1

Understand

What is data and its impact?

2

Find/Obtain

Where can I find the data I need?

3

Read

How do I interpret it and what to know about it?

4

Manage

What are the principles of data management?

5

Using

How is data prepared and how do I analyze it?

6

Communicate

How do I talk about data with others?



Program Scope and Content Development



Initial Efforts

- Foundational courses appropriate for all
- Centered on priority topics identified by DMOs



Future Efforts

- Create courses increasing in complexity
- Reassess priority topics



Texas Data Literacy Program

- ✔ Educational program with a series of courses designed to provide a continuous learning journey toward critical thinking and best practices around data.
- ✔ Promotes consistency in learning and using the language of data within and between organizations.
- ✔ Supplement to other organizations' education and data training programs.
- ✔ Ever-evolving and growing program designed to address changing needs and priorities.
- ✔ For all staff who use data – both information producers and information consumers.
- ✘ Not a one-size-fits-all program



Learning Series Vision

Level 1: Foundations

Introduction to Data Literacy

History of Data Management
& the Office of the Chief Data
Officer in Texas

Data Governance

Data Quality

Privacy & Ethics

Data Security

Data Sharing

Roles & Responsibilities

Telling the Story with Data

Data Records Management

Level 2: Intermediate

Data Management Overview

Texas Data Portals Overview

Analytics Overview

Communication

Level 3: Advanced

Data Management

- Metadata
- Master Data
- Catalogues & Business Glossaries

Texas Data Portals

- Open Data Portal
- Closed Data Portal

Analytics

- Foundational Statistics
- Analytic Tools
- Emergent Analytic Technologies

Texas Data
Literacy
Program



Questions?



Monica Smoot

Texas Data Literacy Program Administrator
monica.smoot@dir.texas.gov

Request access:
dir.texas.gov/tdlp

