

## Data Governance, Data Literacy, and the **Management of Data**

### How does Literacy Overlap with Governance?



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## We need our perhigh hat? University of the second second

**e** 

## Jata-driven decisions





In modern society, we all USE **DEPEND ON** COMPARE **DECIDE TO BELIEVE REACT TO** DEBATE **CELEBRATE RESULTS OF** every day.



## We rely on consistent standards and units



## We make confident comparisons



## We make data-driven decisions



## And.....sometimes we make data-driven decisions



A celebrity took lvermectin...,

A politician says vaccines ca

That product has a five-star

4 in 5 dentists recommend t

That person has 1M followers...

Because we sometimes misplace trust and don't know how to assess validity



# We need our people to have high data literacy

## So, they can make reliable: data-driven decisions



## A person who has low nutritional literacy

## Still consumes food.

## He just may choose differently.



## A person who has low data literacy

## Still consumes information.



He just may choose and use it differently.

## If we think about consumption (food or data)

### There are parallel responsibilities

- 1. Governing bodies who insure:
  - Safety
  - Consistency
    - Definitions, metrics, processes
  - Transparency
- 2. Consumers who understand
  - Their role in using information
  - The meaning of information





## Governance. Information and Rules about:



Collect/ Source



Cumulative information needed to insure safety and accuracy



Transport /Transfer



#### Transform





## Consumer Roles Vary. Governance oversees



## Moving up the chain



## Literacy: Moving up the chain



## A person who has low data literacy

## Still consumes information.



He just may choose and use it differently.

In what ways is there a disconnect between governance efforts and literacy efforts?

Are there specific misconceptions that non-data people have about data governance, if so, how could literacy efforts fix those?

What can data literacy efforts learn from data governance experiences?

Any lessons learned.....

## Today's Panel

### Josh Reid

Data Strategy, Data Literacy, Data Governance and Delivery Leader Succeed Data

#### **Bill Wood**

Data Governance Officer HealthTrio



# Data Governance, Data Literacy and the Management of Data

June 1, 2023



## The data literacy dilemma

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### HOW DATA LITERACY INTEGRATES WITH YOUR DATA GOVERNANCE PROGRAM

**POLICY** A vehicle to train and test the knowledge of all employees on data policies

**ORGANIZATION** Data Literacy standing topics in Data Governance Council and requires ongoing funding

**STANDARDS** establish standard subject areas and delivery tools



**PEOPLE** Data Literacy a community of practice working group lead by a Data Governance & Literacy specialist

> **PROCESS** embedded in employee development plans and all change programs

**TECHNOLOGY** Internal Learning Management Systems and external learning tools



## How do we make this work?



## Key Take Aways

#### Toolkit

- It's more than people, process and Technology
- It's both an organizational and individual skillset

#### **Employee Experience**

- This is as hard to execute well as it is to be a participant
- Participants will feel the pressure of learning a new language and being expected to deliver

#### **True Data Literacy**

- It's not a project it is a culture shift
- What is the best way to approach data literacy for you?

## Data Governance and Data Literacy

Connecting the Dots



#### Two Became One

#### **Online Insight**

- Small company (~15 employees)
- Single owner
- Operating very lean
- Providing membership and billing services to health insurance companies
- ~8 clients
- HIPAA compliance
- Me Director of Data Quality and Analytics with a vision of Data Governance

<u>HealthTrio</u>

- Medium sized company (~120 employees)
- Board of Directors and financial backing
- Much more structured and formal
- Providing health care portals to payors and providers and their members
- ~ 60 clients
- Recent HITRUST certification

#### HealthTrio purchased Online Insight in November 2021



#### The State of Data Governance

#### HealthTrio had

- A Data Governance Charter
- A Data Governance Committee with two co-chairs
- A CEO who stated that Data Governance is important
- A declared goal for 2022 to improve Data Governance
- We established a DG team of myself, my boss, and an interested data engineer.

## HITRUST®

Data Governance efforts were driven by HITRUST requirements for data security and privacy.



#### My Responsibility – A Roadmap

- My title was changed to Data Governance Officer
- I was added to the Data Governance Committee as a co-chair
- I was moved to the Data Technologies department at HealthTrio, within IT
- My first responsibility was to create a 2022 roadmap for data governance
- I was sent to attend the DGIQ conference in June 2022





#### The 2022 Roadmap





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#### 2022 - A Year of Transition

| Area               | Starts                          | Stops   |
|--------------------|---------------------------------|---|
| Communication Plan | New Employee Orientations       |   |
| Business Glossary  | Started in Confluence           |   |
| Data Discovery     | Manual inventory                |   |
| Data Dictionary    | Started in Confluence           |   |
| Data Quality       | Metrics Explored                | Discrepancy Process shelved   |
| Data Security      | A Separate Data Security office |   |
| Tool Selection     |                                 | Process shelved due to lack of funding<br>(We had gone far enough to narrow our<br>choices down to three options and were<br>ready to start presenting those options to<br>the DG Committee.) |



#### The 2023 Roadmap

- Increase institutional understanding of data governance
- Increase institutional data literacy
  - Select a data literacy assessment
  - Conduct baseline assessment
  - Based on results, conduct targeted training
  - Conduct year-end assessment
- Implement priority Initiatives
  - Open Source tool OpenMetadata
  - Documentation (business glossary, data catalog, policies)
- Use dashboards to make DQ and DG metrics visible
- Partner with a team to implement DG as lighthouse project

Data Literacy took a much more prominent place

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#### How Hard Can It Be?

- There was not consensus that data literacy was of primary importance.
- We evaluated five data literacy assessments. We couldn't agree on one.
- I created my own. Despite how great I thought it was, that appreciation was not universal.
- After focusing on other priorities, a team member suggested a maturity assessment.
- We selected the assessment from OvalEdge LLC, one of the three tool vendors we had expressed interest in.
- We selected ONE of the tabs to focus on.



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#### The Assessment

#### STALEDGE

DATA GOVERNANCE MATURITY MODEL QUESTIONNAIRE

| Data Literacy Program Questionnaire  |    |
|--|----|
| Can more than just IT and developers interact with and understand the data?                                      | No |
| Can business users understand the data?  | No |
| Are you making it easy for business users to interact with data?   | No |
| Is there training available to teach users how to interact with data?  | No |
| Are users who contribute knowledge and report data quality issues rewarded?                                      | No |
| Are terms across teams standardized so there are not multiple meanings of the same word across many departments? | No |
| Does your organization have a business glossary?   | No |
| Is the business glossary kept up to date?  | No |
| Is there a defined system to introduce new terms into the business glossary?                                     | No |
| Do people in your organization reach out to Business Data Stewards to gain additional insight on data elements?  | No |
| Do you have owners for categories of data on the business side?  | No |
| Is data classified and tagged for easy searchability?  | No |
| Is cross-team collaboration across your organization encouraged?   | No |
| Overall Data Literacy Program Level  |    |
|  |    |
|  |    |
|  |    |

#### ANSWER LEVELS

Level 1: No Issues are dealt with as they appear.

#### Level 2: Beginning

The importance is becoming apparent and commonly accepted. Efforts are beginning as the organization determines what is needed.

Level 3: In Progress Policies and documentation are being created to implement a solution. Actions are being taken such as appointing people to positions or installing a tool.

#### Level 4: Yes

The organization is now enforcing policies and procedures for data governance. There is an implemented solution being monitored for success.

#### Level 5: Absolutely

The implemented solution is working and only needs small improvements for optimization. Workflows are redesigned to reduce redundancy.



#### Next Steps



#### Lessons Learned

- Having Data Governance deep within IT has its drawbacks.
- Carefully consider what "executive sponsorship" means.
- It seems generally accepted that Data Governance is important. Data Literacy is less so.
- The approach to improving Data Literacy is even less well defined.
- Know what you want to accomplish, then communicate, communicate, communicate.
- Start Data Literacy efforts early and in parallel with Data Governance efforts. It will take time.

