

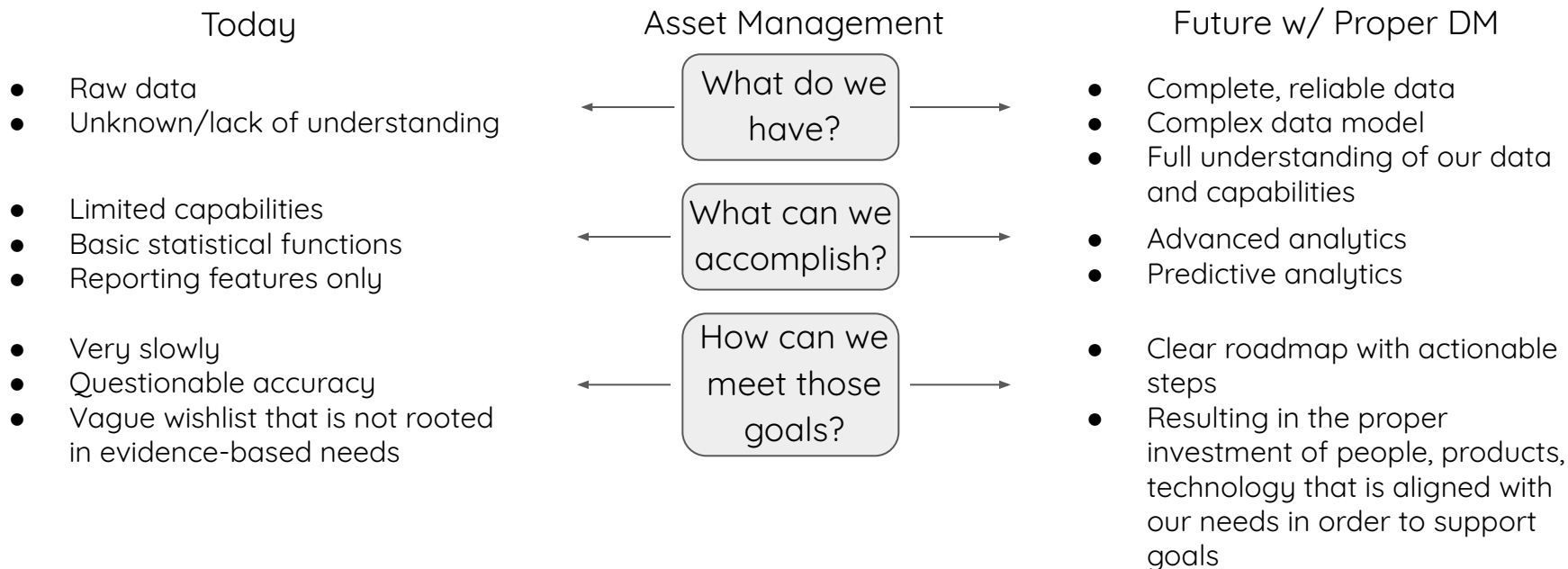
# Data Management at Proposal

An evidence-based proposal for the establishment of a  
Data Management program.

Karoline Sears, August 2023

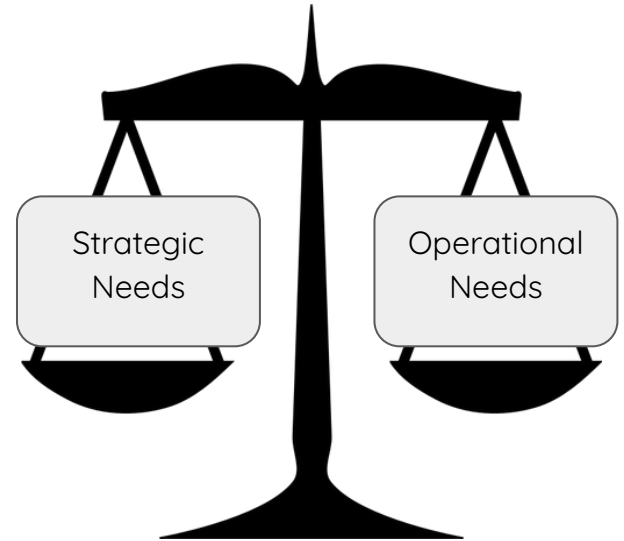
# What is Data Management?

Treating data as an asset and extracting value from that asset as any other company asset.  
To enable organizations to get value from their data assets as they do from other assets.



# What is Data Management?

Universal  
Data  
Management  
Principles



# Principles of Data Management

1. Data is valuable - mismanagement is a cost to the company
2. Effective data management requires leadership and commitment
3. Data management requirements **are** business requirements
4. Data management depends on diverse skills
5. Data management is lifecycle management
6. Managing data includes managing the risks associated with data
7. Data management must drive information technology decisions, not vice-versa

# Data Management & Company Goals

## Why invest in Data Management now?

- It is the key to achieving our company goals

### Sustainable Profitability

Automate recurring workflows to improve productivity and efficiency  
Identify at least 2 purpose/ use-based customer segments that are not currently being targeted

### Customer Centricity

Understand purpose-based eating segments of current and potential customers to enable matchmaking with our products (capture/ store/ retrieval/ use of relevant data and insights on customers to allow for matching with products/recipes)  
Establish Customer Satisfaction metric and baseline, identify opportunities to increase Customer Satisfaction  
Match the right customers with the right products (refined and expanded based on customers needs) as measured by retention and Customer Satisfaction metrics

### Long-Term Growth

Build product data management tools/ systems to enable matchmaking with current and potential customers  
Build a foundation of systems, tools, and processes that enable operational scale and flexibility

### Talent

Attracting top talent with tools and systems that allow for a smooth, efficient workflow;

# Data Management & Core Competencies

It is a major component of our company values and core competencies:

Learning

Making it Happen

Ownership

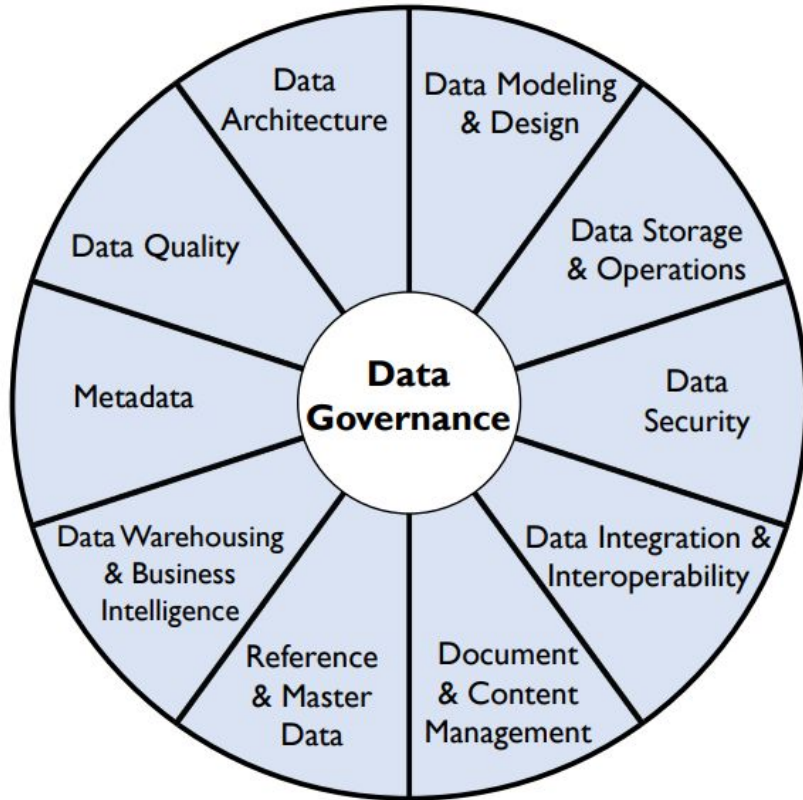
Integrity

Winning Together

Be Bold

- We can only truly learn from our customers if we have the tools and systems in place to accomplish this. With a well developed data management system, we can not only learn about our customers In nuanced ways, we have the potential to *predict* their behavior in reliable ways.
- Well constructed data management systems allow for us to make data driven decisions quickly.
- Having a clear path, understanding where our data comes from, how it is used, and involving key stakeholders in the data governance process fosters a culture of data ownership and self-service.
- We cannot have data with integrity without data governance.
- Data management is not the responsibility of a single person; is a cross-functional, team effort.
- This is the time to be bold and take those steps to establish a data management culture.

# Data Management Framework



All aspects of data management stem from a solid foundation of **data governance**.

These are global data management standards set by DAMA International

# Data Management Functions

Oversight: Data Governance

Strategy

Data  
Valuation

Principles &  
Ethics

Policy

Stewardship

Culture Change



# Lifecycle Management

## Plan & Design

Architecture

Data  
Modeling &  
Design

## Use & Enhance

Data Storage  
& Operations

Data  
Warehousing

Data  
Integration &  
Interoperability

Big Data  
Storage

Master Data  
Management

Reference  
Data  
Management

## Enable & Maintain

Business  
Intelligence

Data Science

Master Data  
Usage

Data  
Monetization

Document &  
Content  
Management

Predictive  
Analytics

# Foundational Activities

Data Risk Management: Security, Privacy, Compliance

Metadata Management

Data Quality Management

# Roadmap & Proposed Measures

## Short Term Objectives:

- Streamline our data model
- Establish a data governance model
- Conduct a data management maturity assessment (DMMA)
- Release a State of Data report
- Data/Technology reorganization for more aligned collaboration, establish a Data Management function.
- Foster an environment of data ownership

## Measures of Success:

- Streamlined data model for faster consumption in Looker
- A complete data governance plan
- Actionable roadmap for data management improvement from the DMMA and State of Data report
- Creation of the Data Governance Council
- Ending the use of Google Sheets for any analytic work/data collection
- Consistent, well-written SOPs for all knowledge areas

## Long Term Objectives:

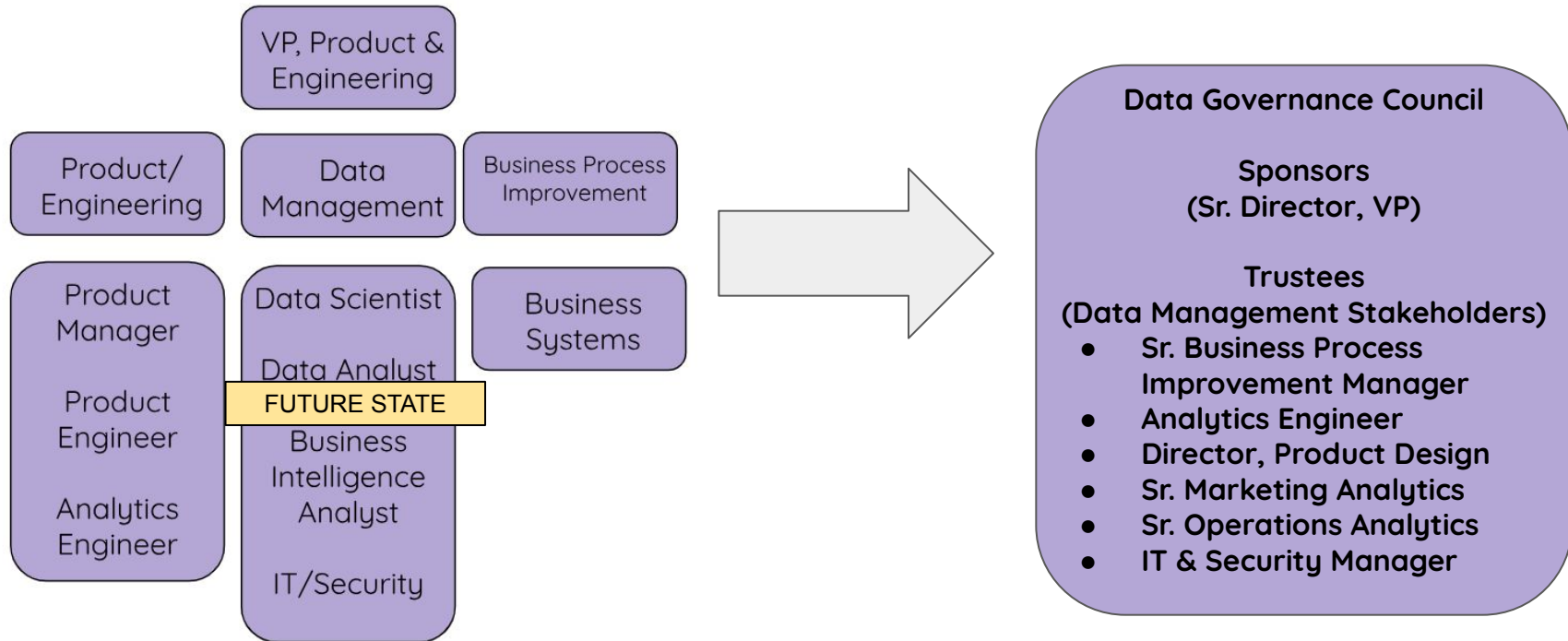
- In-depth analysis of various knowledge areas to identify areas of improvement
- Consistent hiring standards for data/engineering
- Robust data modeling and engineering
- Develop a cohesive vision that supports overall organizational strategy
- Develop a well-defined management strategy

## Measures of Success:

- Understanding of data management across the company
- Insightful/advanced data analytics and data science (predictive analytics!)
- Accurate, complete, consistent, reliable, and current data
- Ensure data privacy and security
- Cost-effective management of data infrastructure
- Data literacy across the company

# Roadmap & Proposed Measures

How can we begin the transition to proactive data management? With Data Governance. We already have many of the resources and tools, we just need to better organize them.



# Data Governance Council

## What Does the Council Do?

### Data Governance Council

#### Sponsors

- VP
- Data Management

#### Trustees

#### (Data Management Stakeholders)

- Senior Business Process Improvement Manager
- Analytics Engineer
- Director, Product Design
- Marketing Analytics
- IT & Security Manager

- A committee of designated leaders (Data Trustees) with planning and management responsibility for data within their functional areas.
- Works towards supporting and maintaining effective data management by regularly reviewing policies and standards, recommending new standards, advocating for resources, and broadly overseeing data governance efforts.
- May propose new initiatives, evaluate issues, and discuss data strategy in an effort to continuously improve data quality and integrity.
- Monitors the compliance of data policies and promote the overall culture of data excellence.
- Approves and provides oversight over all data-related standard operating procedures for all functional areas across the organization.

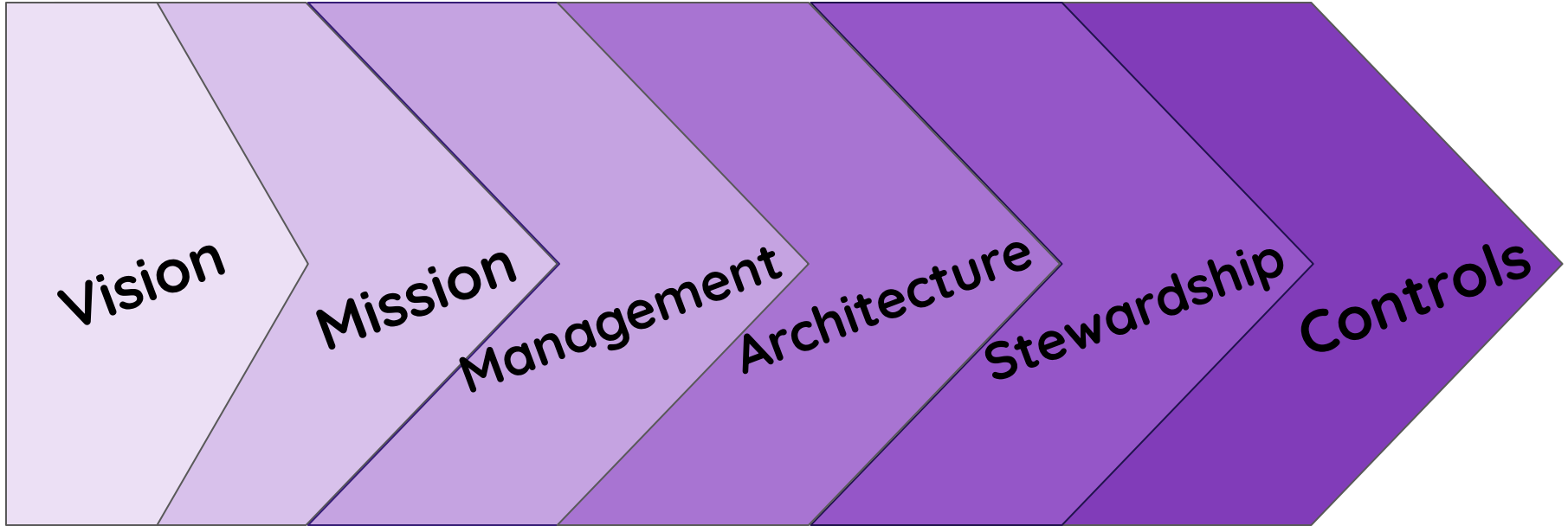
# A Critical Juncture

We cannot meet these goals without a solid data management foundation. Data management starts with data governance, establishing business logic, re-modeling our data, and setting consistent data use standards.

Our analysts must be on the same page, working together, using a well-build model, in order to help stakeholders make decisions based on commonly understood terms and concepts..

- Build customer data management tool/ system and processes to understand purpose-based eating segments of current and potential customers to enable matchmaking with our products (capture/ store/ retrieval/ use of relevant data and insights on customers to allow for matching with products/recipes)
- Establish Customer Satisfaction metric and baseline, identify opportunities to increase Customer Satisfaction
- Less Prep, Expand Plantry, Vegan Staples
- PC RTE expansion
- Mobile App
- CX/AI integration
- Food Safety internal training & customer facing information improvements
- Automate recurring workflows to improve productivity and efficiency
- Identify at least 2 purpose/ use-based customer segments that are not currently being targeted, demonstrate profitability in those segments

# Data Governance



The vision informs the mission;. Each pillar of data governance supports the next pillar, all of which are aligned to support the vision and mission.

**Vision:** Our vision is to develop a robust technological foundation in order to foster an environment of data excellence that supports both data practitioners and partners alike.

**Mission:** Our mission is to make data understandable and accessible to our partners to ensure that they can quickly and easily make evidence-based decisions.

informs

supports

## Management

### Our policies and standards

- Conventions
- Expectations
- Responsibilities

## Architecture

### How those policies and standards are defined

- Documentation
- Standardization
- Lineage
- Data Classification

## Stewardship

### How we execute those policies and standards

- SOPs
- Ownership
- Collaboration
- Accountability
- Transparency

## Controls

### How we ensure that those policies and standards are maintained

- Business Rules
- Communication
- Defined Roles
- Literacy & Training
- Defined Workflow
- Checks & Balances
- Issue Management



# Management

## Our policies and standards:

The only way to achieve data excellence is through transparent, common sense policies, industry standards, and reasonable expectations and responsibilities. Data is a *shared* resource between practitioners AND partners

First and foremost, the quality and integrity of our data shall be actively managed - what are the dimensions we should uphold of data quality?

- Accuracy
- Completeness
- Consistency
- Integrity
- Reasonability
- Timeliness
- Uniqueness/deduplication
- Validity

# Management

## **Our policies and standards:**

We must establish clear and actionable policies with rigorous standards:

- Data shall be identified, documented, and described
- Expressly communicate our conventions (e.g., language, logic, goals, methods)
- Define roles and responsibilities; not just in the immediate data management sphere, but company-wide expectations around data
- Identify data domains – each domain shall have a trustee
- Outline the data life cycle at PC

# Architecture

## How those policies and standards are defined

Solid architecture begins with well defined building blocks. The goal of this pillar is to facilitate standard, consistent data definitions, standards, and policies that align with our vision and mission.

### First Step:

- The literal first building block of the Architecture pillar is improving our data model and recognize the need for formal analytics engineering.

### Next Steps:

- Making resources accessible and understandable for all data users
- Establishing unified standards for all data knowledge areas
- Creating a culture of documentation and making our data lineage accessible in both a technical and practical way.
- Building a technical environment that attracts top talent and supports current employees in their technical development..

# Stewardship

## How we execute those policies and standards

In order to develop a long-lasting foundation of data excellence, we need to create structured accountability with defined roles, responsibilities, and expectations. We are all stewards of data and establishing clear expectations around how data should be used and handled should be part of the culture. We should also create data systems that are designed for future use - and maintaining those systems for those beyond ourselves.

We accomplish this through:

- Rigorously reviewed SOPs
- Ownership of data domains
- Collaboration across functional areas to maintain these standards
- Accountability
- Transparency

# Controls

## **How we ensure that those policies and standards are maintained**

Controls are critical for maintaining data governance. It is a system of guardrails designed to maintain integrity of the data, the workflow, and output.

Controls facilitate collaboration and education related to data-related policies and use of our tools. It improves communication among team members and educates our data partners on how the department functions.

A series of checks and balances allows data management to be consistently upheld even when people leave.

The Data Governance Council is a major component of this.

# A Realistic Roadmap

3-6 months:

- Create the program and position
- Continue current work on data governance
- Continue current work on the development of a new data model
- Re-organize people
- Start the Council
- Begin the DMMA process
- Establish reasonable KPI standards for the company to meet,
- Produce a state of data report

6-9 months:

- Develop executive briefings,
- Create a targeted program for improvement with actionable items and roadmap
- Begin to introduce collaborative change throughout the company by defining an interaction approach
- Plan communications

Reassess regularly