



# **Making Quality Information Visible**

Cathy Blosser

# Question 1

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Does your organization have a dedicated Information Management department?

1. Yes
2. No
3. I don't know

# Making Quality Information Visible

- Information Management Program
- Knowledge Management
  - Information Mapping
  - Metadata Schemas
  - Information Flow
- Quality Management System



# Information as an Asset

Information = Knowledge communicated or received concerning a particular fact or circumstance\*

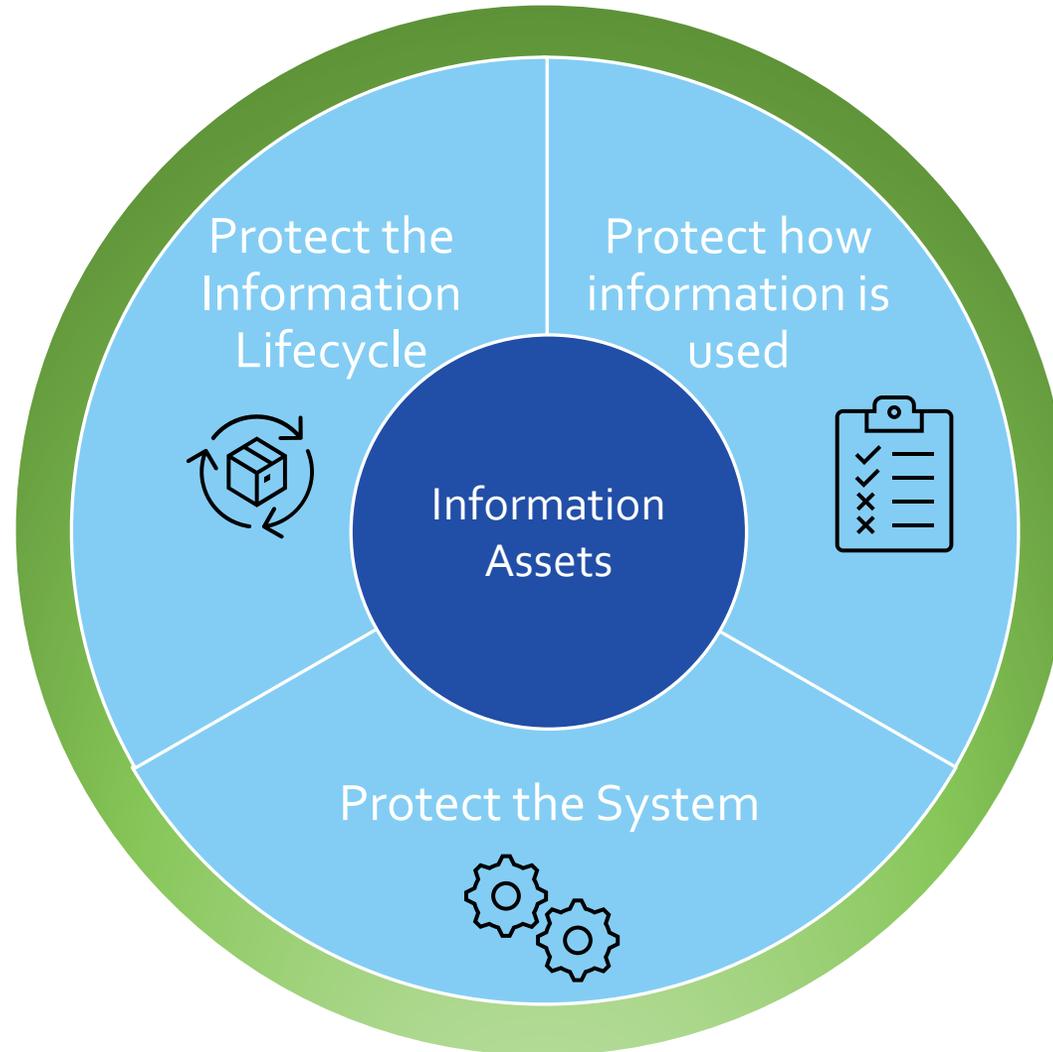
Asset = Item of ownership having an exchange value\*



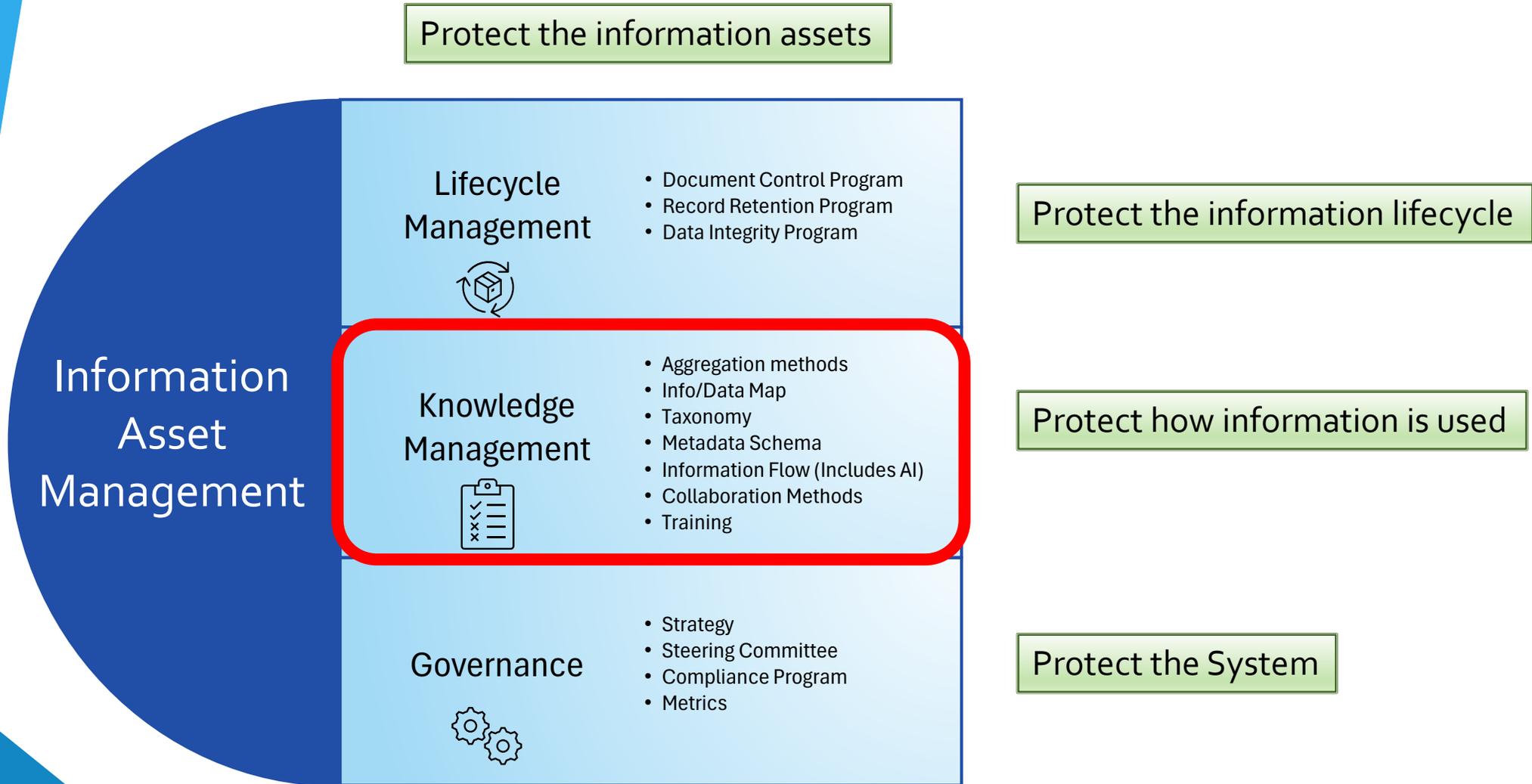
Information  
Asset

Information owned by the organization and generated as a part of business activities has exchange value and must be protected.

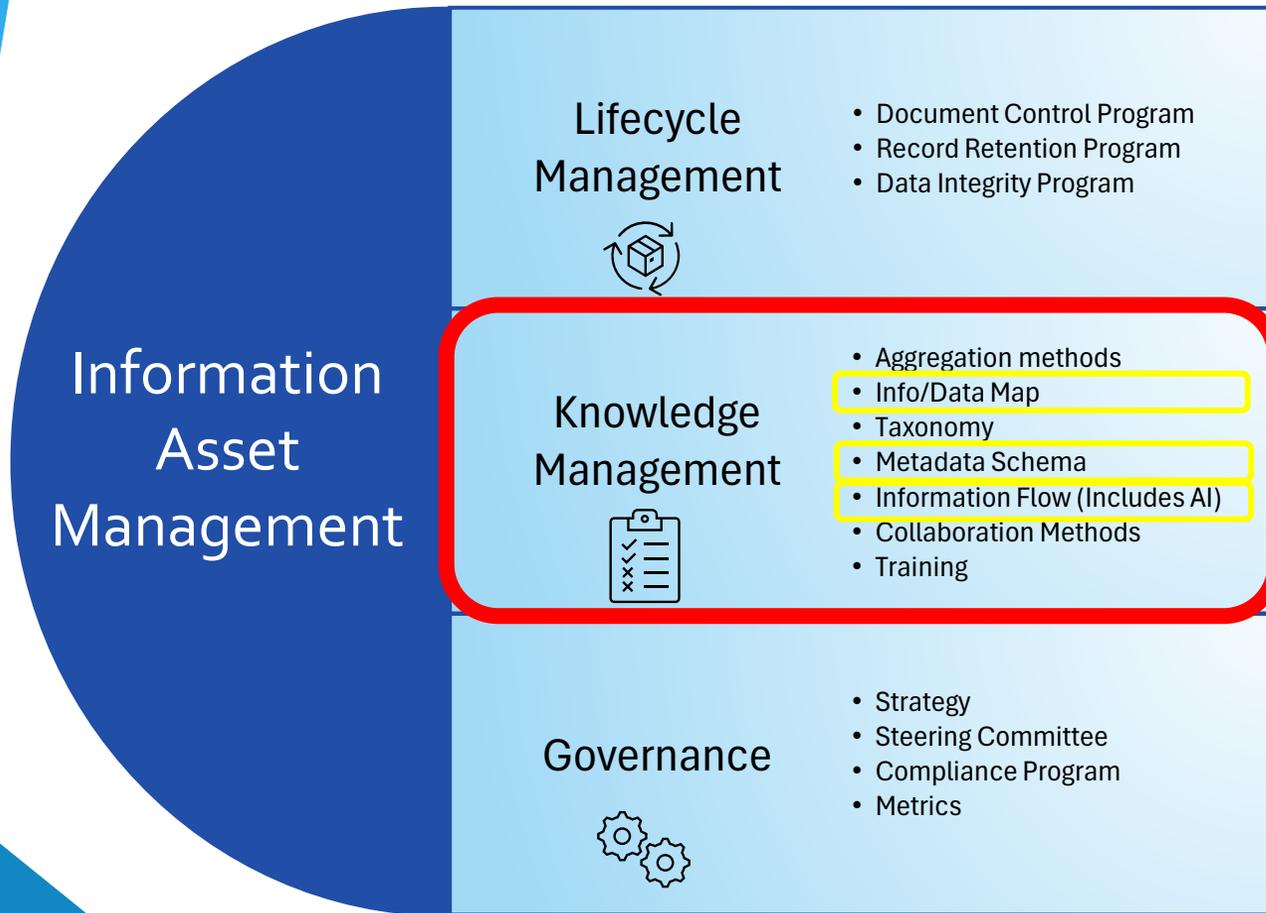
# Information Asset Management



# Information Management Framework



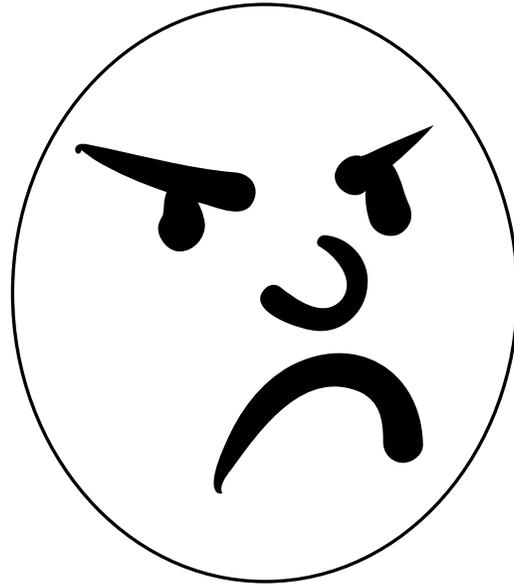
# Information Management Framework



The element required to implement modern digital tools.

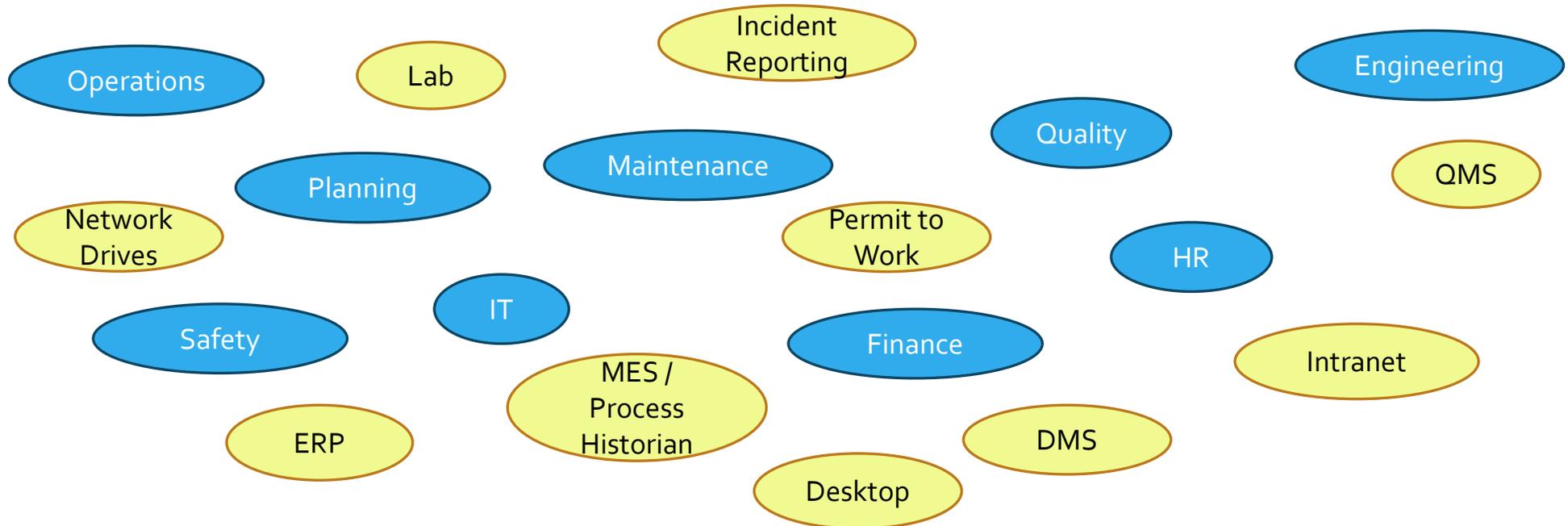
# Information / Data Maps

Where is last month's report?



Why do I need to access **3** different software platforms to get the full picture?

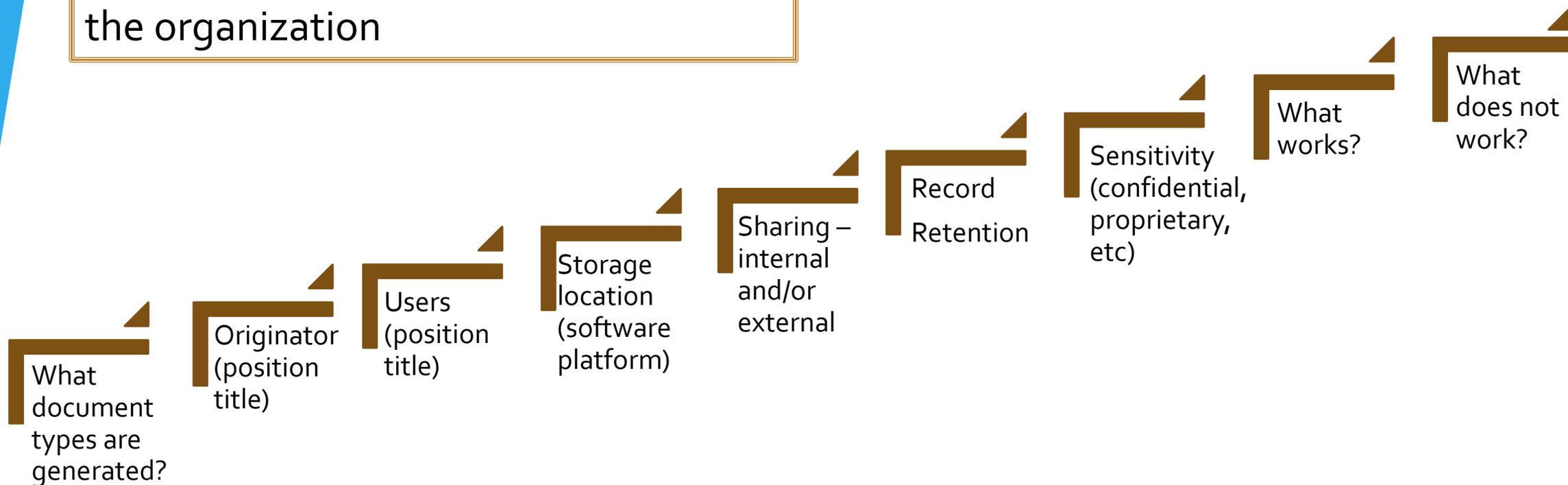
# Information / Data Maps



**What information is where?**

# Information Map Creation

Inputs: Information about how content is received, created, and used within the organization



# Information Map Creation

## Outputs:

- Excel file containing an inventory of information asset types and associated descriptors
- Customized pictorial representations of the information landscape

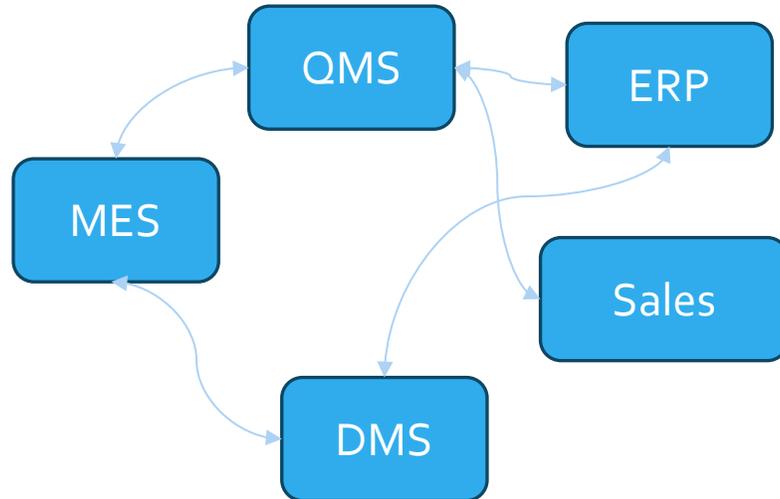
Department		Content Information			Content Use Information		Security		Personal Preferences	
Department	Representative	Locations where files are saved (physical and electronic)	Description of type of Content	Examples of content at each location	Who creates the content	Who uses the content	Security (General Knowledge (company public), Department Internal only, Confidential)	Who is this shared with internally	What is working for you?	What would you like to change?

# Information Map Creation

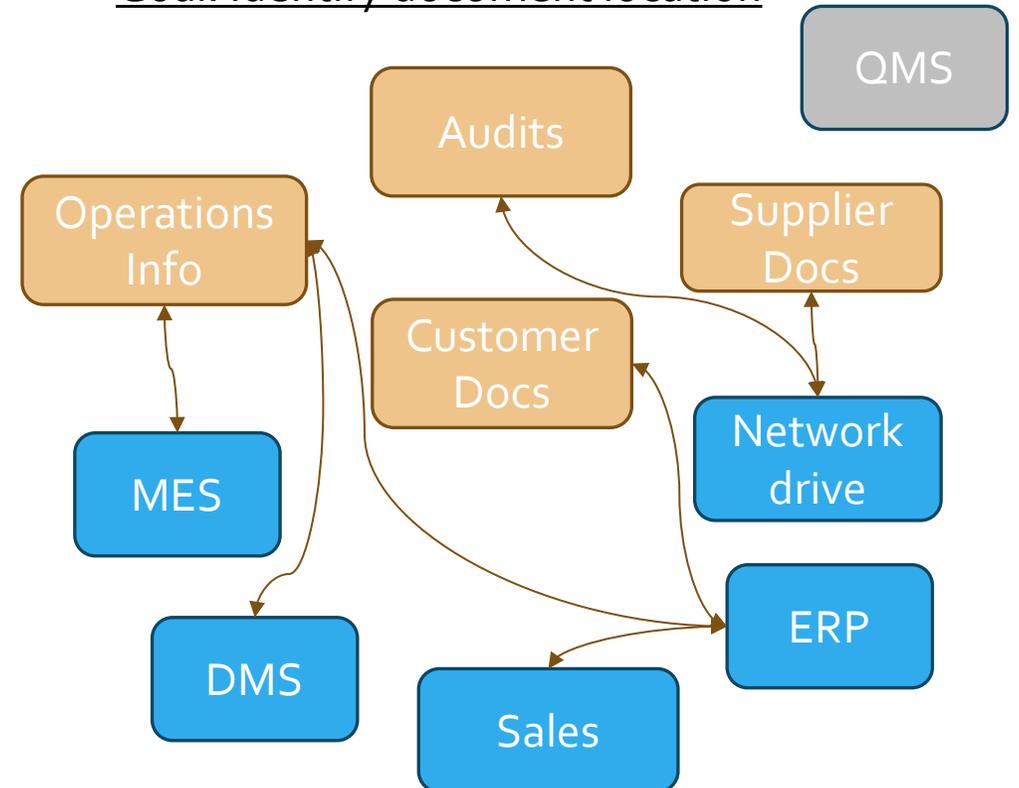
## Outputs:

- Excel inventory
- Pictorial representations

Goal: Identify platform connectivity



Goal: Identify document location



# Information / Data Maps Uses and Benefits

- Implement:
  - Aggregation tools
  - Information hubs
- Identify:
  - The number of storage locations
  - Duplicate storage locations
  - Accessibility of sensitive information
- Review:
  - Software licensing terms
  - Software usage



Some of these actions require a metadata schema.....

# Question 2

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Does your organization have an Information or Data map?

1. Yes
2. No
3. I don't know

# Metadata Schemas

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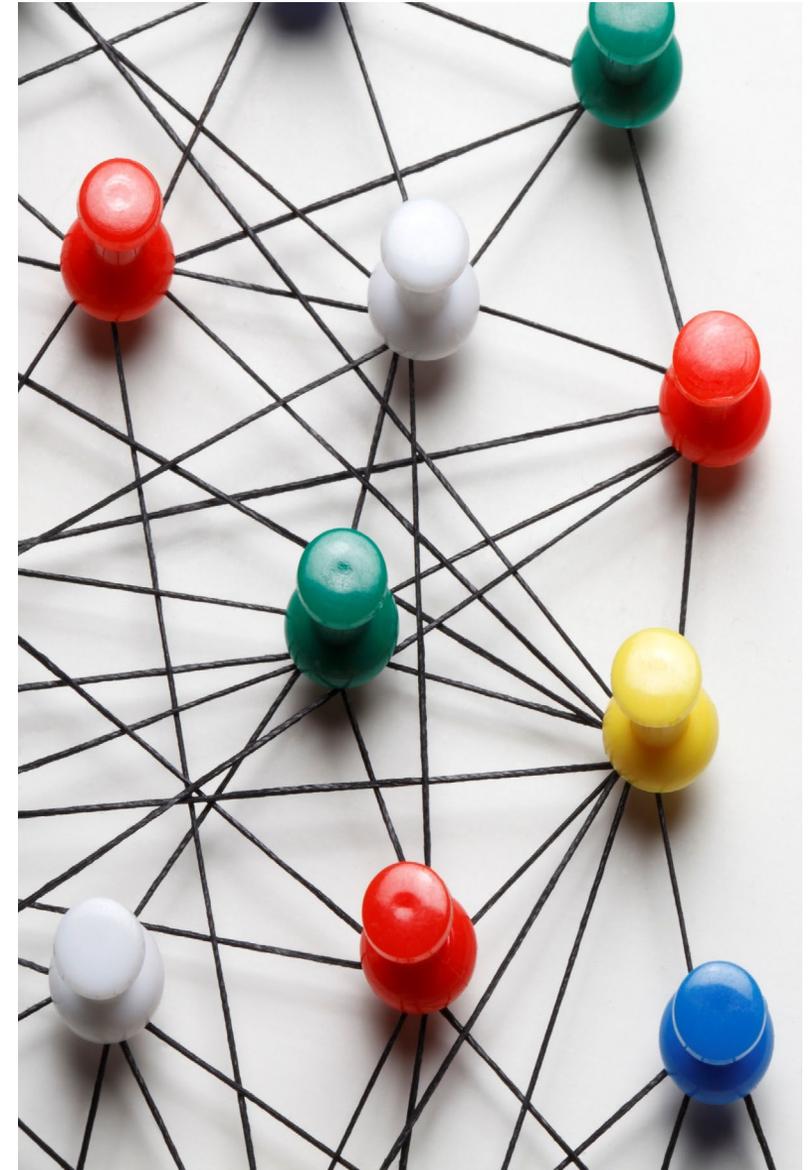


# Metadata - defined

Metadata = a tag

Purpose:

- Facilitate record retrieval
- Support information security
- Provide linkage
- Key to aggregation tools



# Metadata - application



Category	Detail	Software Platform
Part Number	C123	ERP, MES
SN	99	MES
Description	Wood Chair	ERP, MES, ECM
Wood Supplier	Oak Specialties	QMS, ERP
Date Manufactured	2/13/2025	MES
Work Cell	32A	MES
Safety Reports	Employee got a splinter during assembly	HSSE
Nonconformance Reports	Chip in leg	QMS
Ship Date	2/15/2025	ERP, MES

# Metadata Schemas

Metadata Categories

	Finance	Operations	Safety	Engineering	Quality
Software Platform	ERP	MES	HSSE	ECM	QMS
Work Center	WC	Work Center	Cell	Work Cell	Unit
Part Number	PN	Part Number	PN		Part Number
Supplier	Supplier	Supplier Name		Supplier Name	Supplier
Part Description	Chair	Wood Chair	Oak Chair	Chair, Wood	Chair, Oak

The language must be the same across all software platforms.

# Metadata Schema Prerequisites

- Critical Keys:
  - Teamwork
  - Cross functional consensus
  - Use the organizational language
- Critical Tools
  - Information map
  - Metadata implementation method
- Categories
  - Descriptors of organizational activities.

Human Language = Digital Language

# Metadata Schema Development

## Manufacturing Location

Miami  
Chicago

## Drawing Types

Electrical  
Civil  
Mechanical

## Part Numbers

ABC123  
XYZ456

## Work Center

WC100  
WC200

## Regions

North  
South

## Organization

Regions  
Manufacturing Location

## Design Engineering

Drawing Types  
Part Numbers  
Manufacturing Location  
Work Center

## Nonconforming Material Location

Customer  
End of Line Test  
Receiving Inspection

## Quality

Nonconforming Material location  
Defect Types  
Region  
Manufacturing Location  
Part Numbers  
Drawings

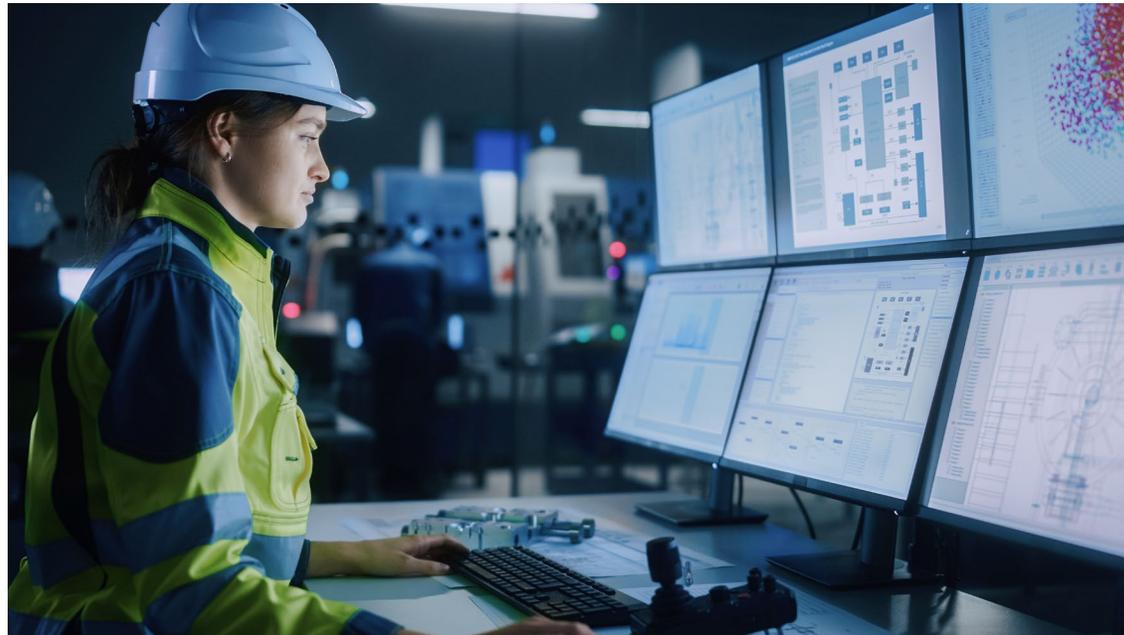
## Defect Types

Chips  
Scratches  
Color

# Metadata Schemas Benefits



- A uniform methodology to describe organizational information
- Disparate information aggregates on a single pane of glass
- Fast, accurate results from a search
- Critical for automating the flow of information within the organization



# Question 3

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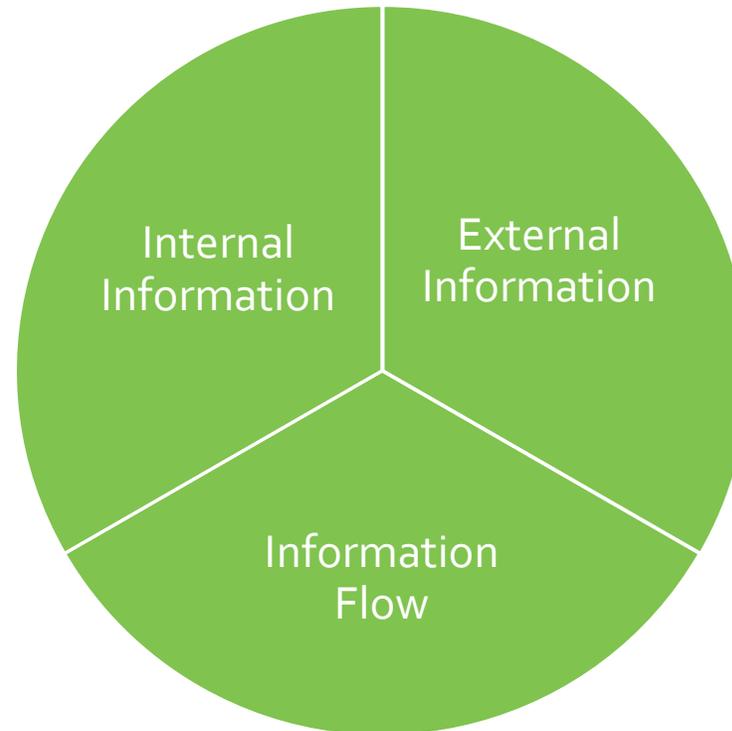


Does your organization have a metadata schema?

1. Yes
2. No
3. I don't know

# Information Flow

- Policies
- Procedures
- Records
- Technical Data
- Regulatory Reports
- Contracts
- Working Documents



- Vendors, Contractors, Customers
- Reports
- Inspection Data
- Test Results
- Technical Data
- Procedures

- Approval Workflows (Projects, Procedures)
- Action Tracking
- Incident Reporting
- Change Management
- Metadata usage & assignment
- Communications
- Collaboration

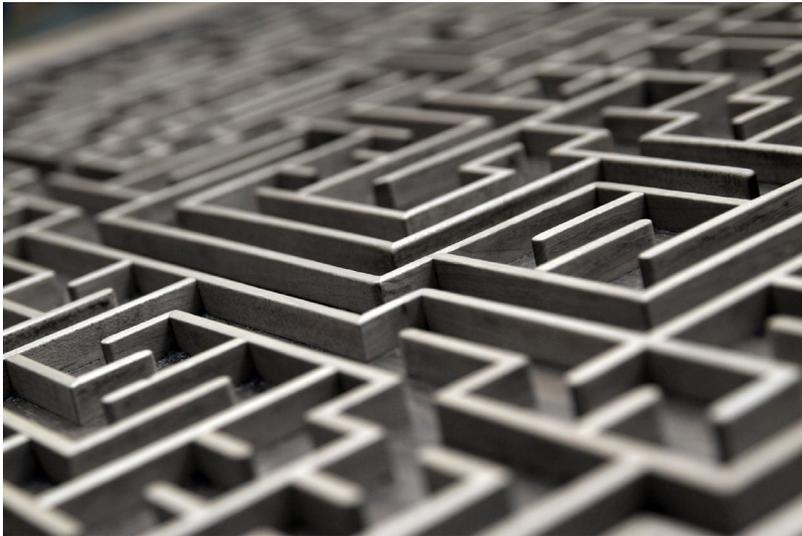
# Information Flow Types

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- Approval/signature loops
- Data analysis
- Movement of documents to the “proper” location based on the file classification scheme
- Generation of routine reports



# Information Flow Tools

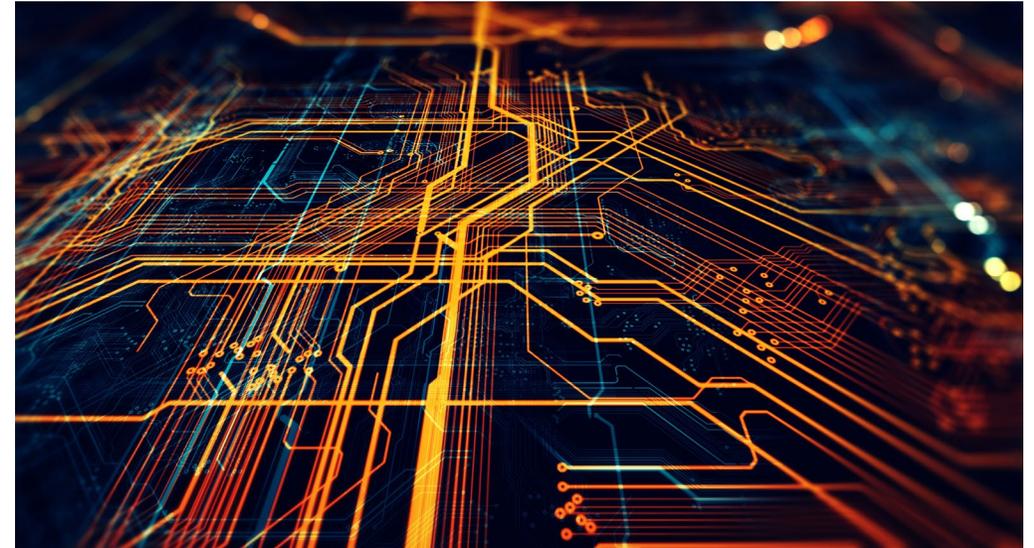


- Workflows
- Algorithms
- Large language models
- Generative document platforms
- Search tools
- Analytical tools machine learning

How do you define AI? Artificial Intelligence???

# Information Flow Action Plan

- Implement a Knowledge Management process that defines acceptable flow tools.
- Specifically define what AI means to your organization.
- Ensure that appropriate security measures are in place when implementing CoPilot, ChatGPT, or similar technology.
- Capture all Information Flows on the Information Map.



# Question 4

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Does your organization have an AI policy?

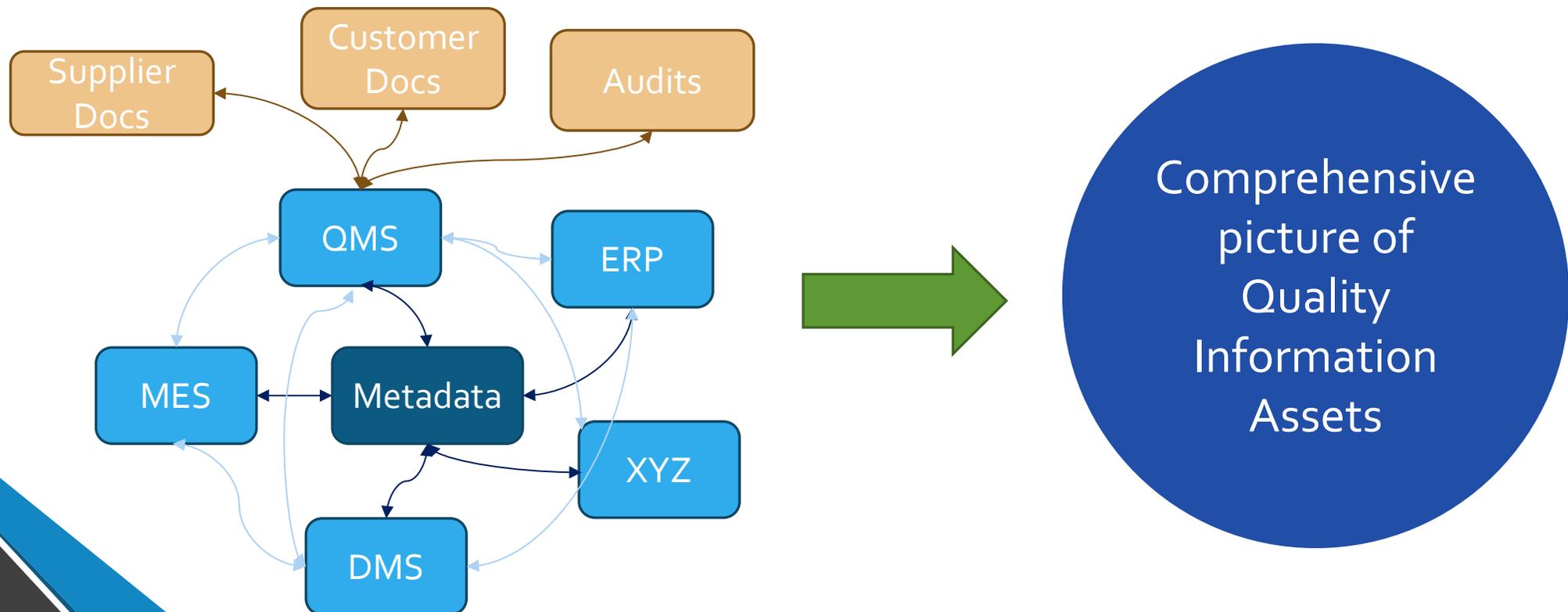
1. Yes
2. No
3. I don't know

# IM and QM ...



# Keys to Successful QMS Implementation

1. Determine what is where: Use the Information Map
2. Connect disparate systems using the metadata schema
3. Automate processes: Define how information will flow to, from, and through the system.



# Conclusion

## Information Asset Management

### Lifecycle Management



- Document Control Program
- Record Retention Program
- Data Integrity Program

### Knowledge Management



- Aggregation methods
- Info/Data Map
- Taxonomy
- Metadata Schema
- Information Flow (Includes AI)
- Collaboration Methods
- Training

### Governance



- Strategy
- Steering Committee
- Compliance Program
- Metrics

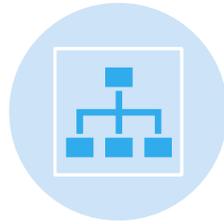
An organizational activity ensuring information is:

- ✓ Available
- ✓ Accurate
- ✓ Reliable
- ✓ Accessible

Provides the foundation for successful QMS implementations

- ✓ Information map
- ✓ Metadata schema
- ✓ Information flow philosophy

# About IM Visibility



Services:

\*IM Program Development

Comprehensive Program  
Key Element Development  
Governance

\*IM Strategic Planning

Strategy, Mission, Vision, Scope  
Maturity Assessment  
Information/Data Mapping

\*Tactical Services

Technical Document Writing  
Classification schemes



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# Discussion