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# Using SharePoint 2013 for Managing Regulated Content in the Life Sciences

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# Overview

- **Informative Webinar** that aims to provide an overview of how SharePoint can be validated for different regulated applications within **the Life Sciences**
- Slides can be distributed upon request. Details on how to request slides will be distributed to attendees following the webinar
- Feel free to ask questions in the **questions panel**
- You can also **Tweet** me at **@paulkfenton**
- Thank you for your interest!





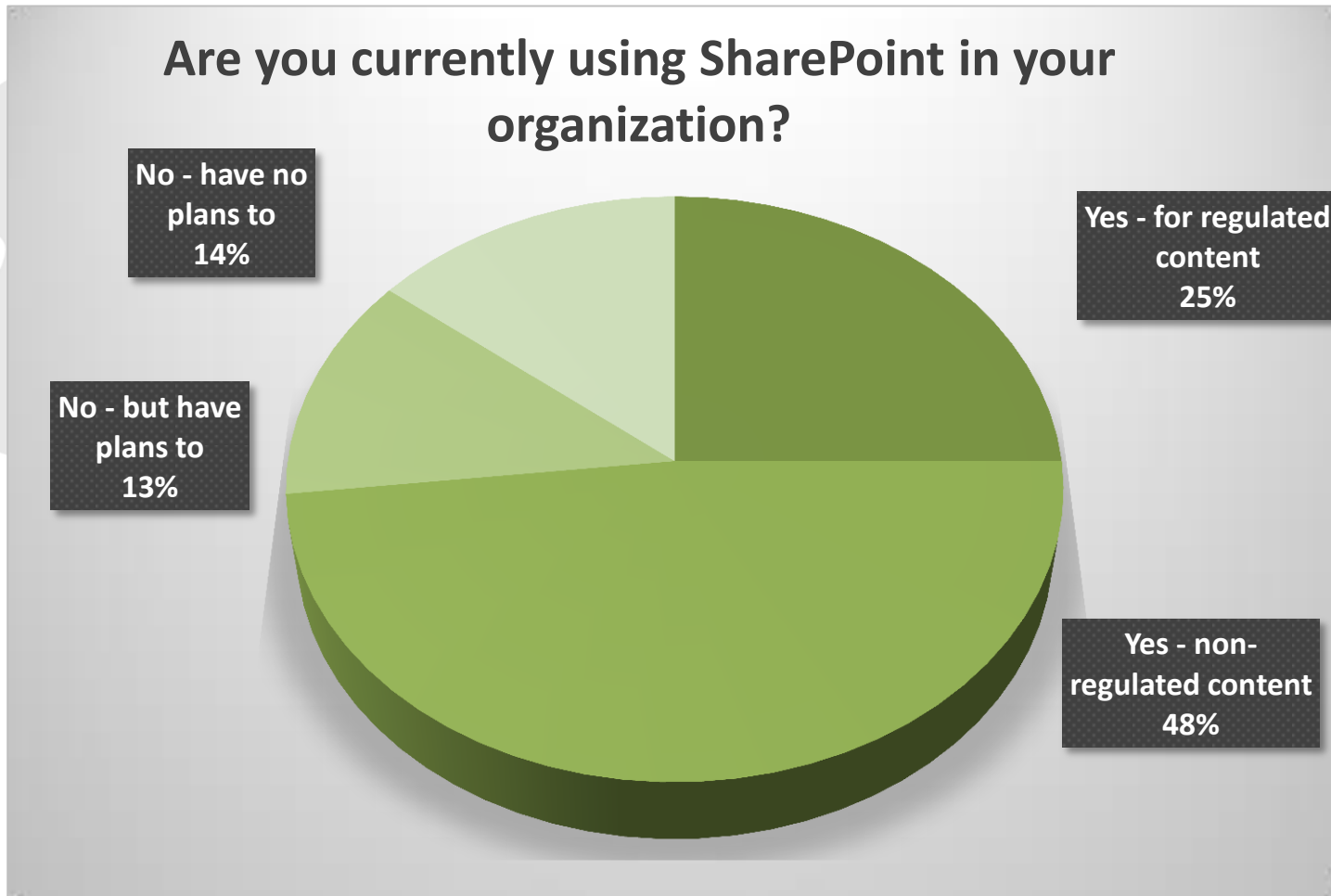
# Agenda

- Introduction
- What is regulated content?
- Regulatory Requirements
- How SharePoint can be configured to meet requirements
- SharePoint governance and qualification
- Deployment Options
- Advantages of SharePoint for regulated content
- Montrium's approach to providing solutions for regulated content
- Conclusion and recommendations





# Are you using SharePoint?



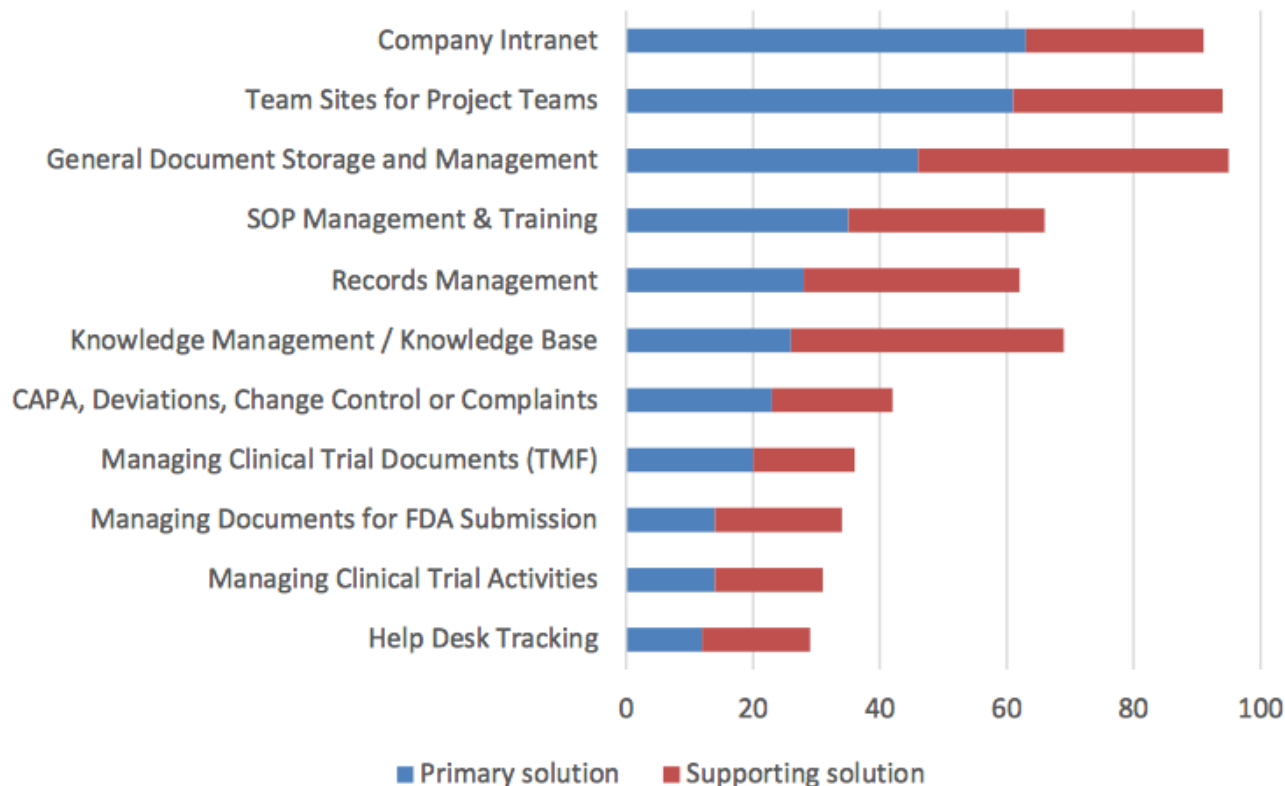
Source: Webinar Registrants





# SharePoint Use in the Life Sciences

To what degree are you currently using SharePoint for the following business functions? (%)



Source: State of SharePoint in Life Sciences in 2013





# Preliminary thoughts

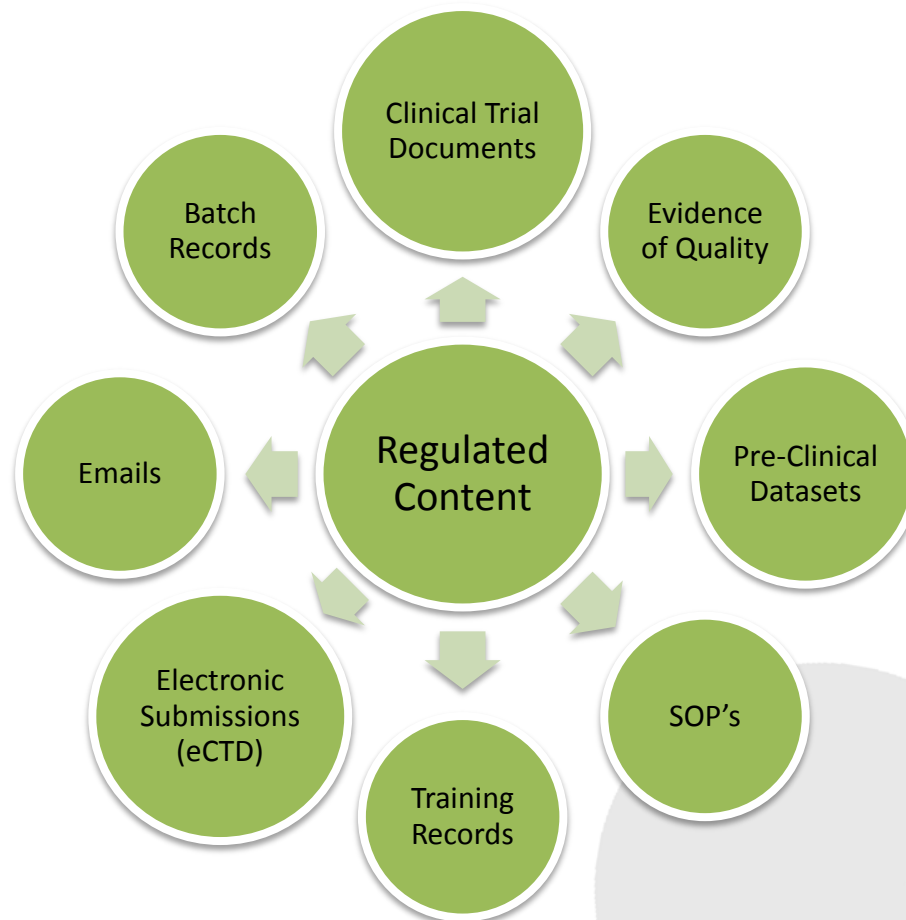
- SharePoint is being used more and more in our industry for many **different applications**
- **Content management** is one of these
- There is sometimes a perception that SharePoint **cannot be used** for regulated content
- As with any system we need to determine if it has **regulatory relevance** and **validate / control** accordingly





# What is regulated content?

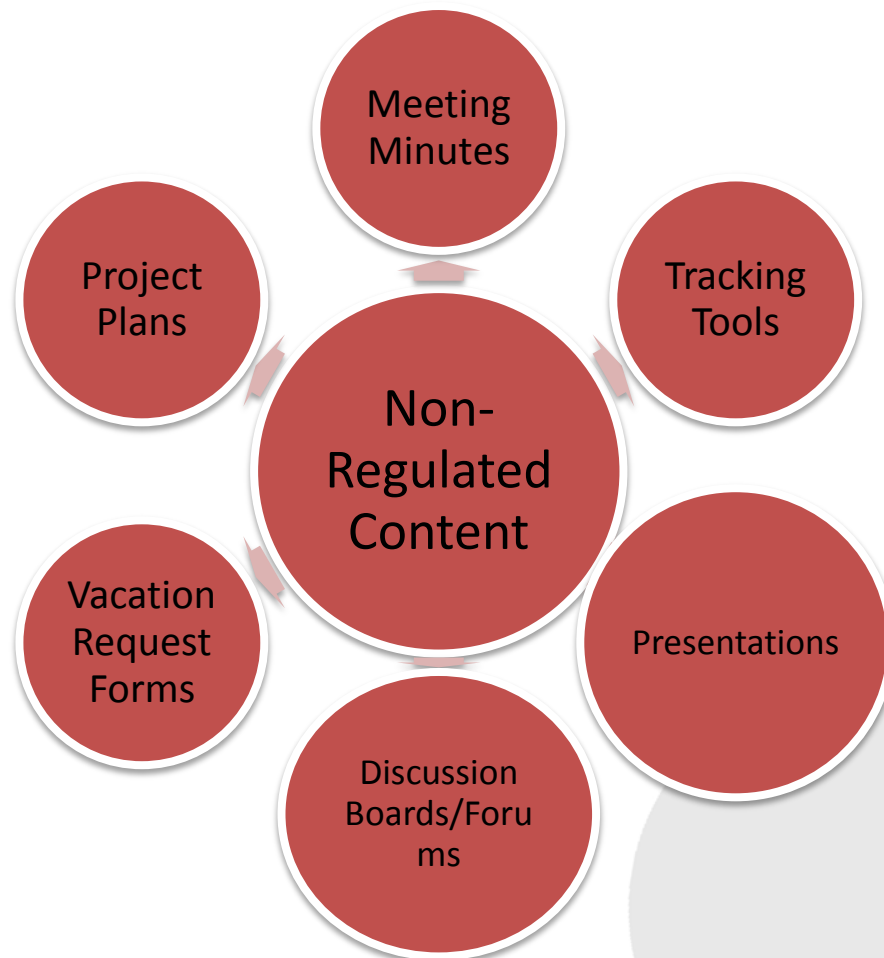
- Any document, record, evidence or data that is required to be maintained by predicate rule.





# What isn't regulated content

- Any document or data which is not required by predicate rule.
- Even if documents are **not required** by predicate rule, **but do** support **regulated decisions**, they may need to be maintained as records.







# Poll

- In your organization, how is regulated content currently managed?





# How to identify electronic records

- **21 CFR Part 11** defines electronic records as:
  - Records that are required to be **maintained under predicate rule** requirements and that are maintained in electronic format ***in place of paper format***
  - **Records** that are required to be maintained under predicate rules, that are maintained in electronic format ***in addition to paper format, and that are relied on to perform regulated activities***





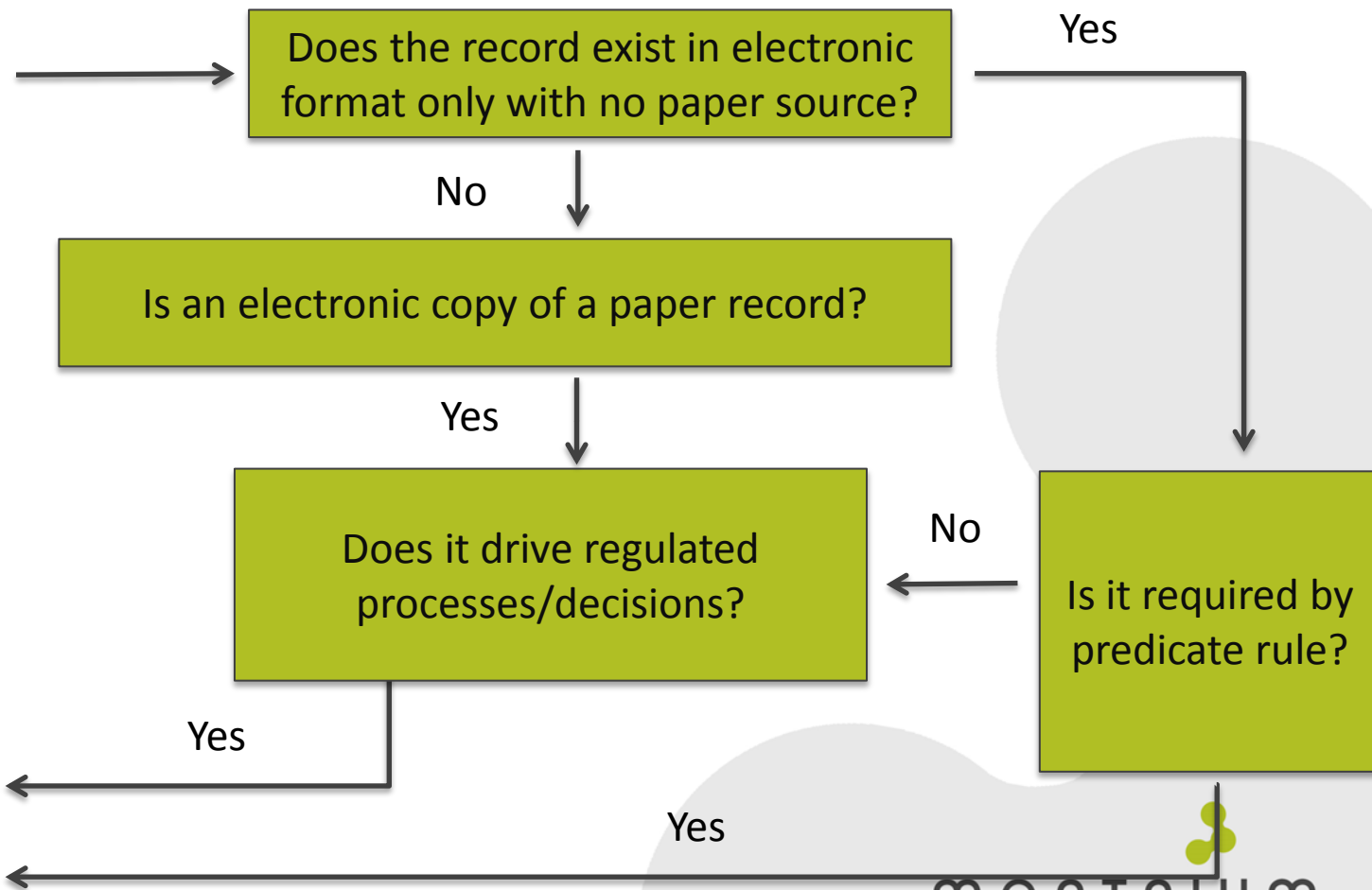
# How to identify electronic records

- **21 CFR Part 11** defines electronic records as:
  - **Records submitted to FDA**, under predicate rules (even if such records are not specifically identified in Agency regulations) in **electronic format**
  - **Electronic signatures** that are intended to be the equivalent of handwritten signatures, initials, and other general signings **required by predicate rules**





# How to identify electronic records





# Electronic Records within SharePoint

Records within the context of SharePoint could be:

- **Documents** (excluding descriptive metadata) required to be maintained by predicate rule.
- **Metadata** (Columns) used to perform regulated activities (or make regulated decisions).
- **InfoPath** forms used to document regulated activities





# Electronic Records within SharePoint

- **Electronic / Digital Signatures** used to sign records required by predicate rules
- **Audit Trails** generated for electronic records being generated and/or managed in SharePoint
- **Custom Applications** deployed within SharePoint and used for regulated activities





# Compliance approach

- **Goal:**

- Ensure SharePoint can meet the **requirements** for 21 CFR Part 11 **Electronic Records**

- **How:**

- Identify all **procedural** and **technical** controls
- Document and verify **configuration**
- **Maintain** under change and configuration control
- **Deploy** regulated applications






# Compliance approach

- **Out of Scope:**

- SharePoint **does not** natively provide an **electronic signature** function
- If implementing a **3rd party** electronic signature solution, perform a **separate** validation exercise







# Regulatory Requirements – 21 CFR Part 11

- **Requirement: 11:10(b):** Ability to generate accurate and complete copies of records in both human readable and electronic form
- **Control:** SharePoint maintains just one copy of a record in addition to version history



# Version History

SharePoint

BROWSE COSIGN FILES LIBRARY

qm

Quality Management Workspace

Effective Controlle

My Portal

My Workspace

Documentation Management

Training Management

Incident Management

Lists

Site Contents

EDIT LINKS

Business Unit : Demo Unit (7)

Department Name : Human Resources (3)

Department Name : Information Technol

Department Name : Quality Assurance (2)

MTM-SOP-0001

Physical Security SOP

MTM-SOP-0003

Benefits and Compensation Procedure

MTM-SOP-0010

Hiring Procedure

MTM-SOP-0002

Back Up Procedure

MTM-SOP-0015

System Maintenance Procedure

MTM-SOP-0004

CAPA Procedure

01

Demo QMW User

Demo Unit

Quality Assurance

Effective


2/20/2014

2/20/2016

Version History

Delete All Versions | Delete Minor Versions

No. ↓	Modified	Modified By	Size	Comments
0.4	2/20/2014 3:54 PM	<input type="checkbox"/> System Account	6.2 KB	
DAL ID DAL-000020				
Document Approvers <input type="checkbox"/> Paul Fenton				
Effective Date 2/20/2014				
Periodic Review Date 2/20/2016				
Revision 01				
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Title CAPA Procedure				
Author Demo QMW User				
DAL ID DAL-000004				
Business Unit Demo Unit				
Department Name Quality Assurance				
Document Number MTM-SOP-0004				
Document Code SOP				
Document Approvers <input type="checkbox"/> Demo QMW QA				
CDM Document Status Effective				
Effective Date 2/18/2014				
Periodic Review Date 2/18/2016				
Revision 00				



# Regulatory Requirements – 21 CFR Part 11

- **Requirement: 11.10(c):** Protection of records to enable their accurate and ready retrieval throughout the records retention period
- **Control:** SharePoint has a built-in record center which allows the retention and retrieval of records



# Records Center

SharePoint

Newsfeed

BROWSE PAGE



Home TPAPharma's Work Area

## TPA Pharma Records Center

Libraries

Recent

Audit Reports

Record Library

Drop Off Library

Revision Records

Akten

Erbitux

Site Contents



### Welcome to the Records Center

Use this site to submit and find important documents that should be stored in archival. Submitted records are automatically placed in the correct library upon the properties you fill out.

#### Compliance Details - Protocol Signature Page for Site US02 -- We...

Use this dialog to determine what retention stage an item is in. You can also take action to keep this item in compliance with organizational policy.

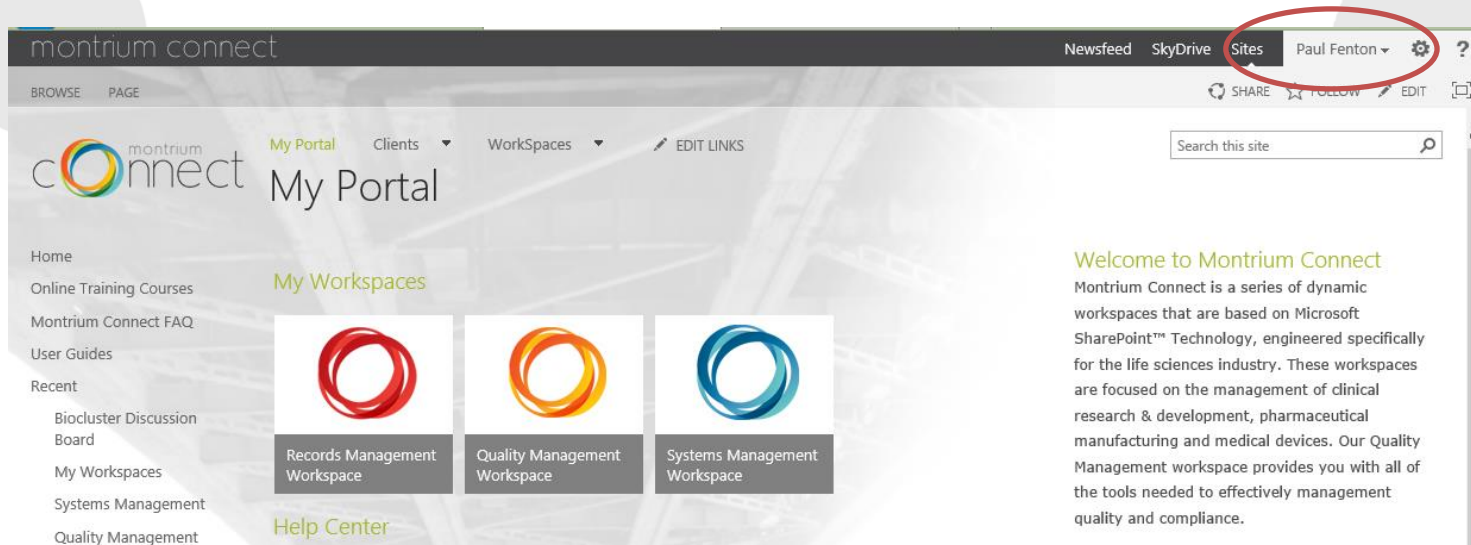
Retention Stages (acquired from content type)			
Event	Action	Recurrence	Scheduled occurrence date
Declared Record + 25 years	Move to Recycle Bin	No	2/24/2039

Name	Protocol Signature Page for Site US02.pdf
Content Type	MTM Validation Content Type
Folder Path	Validation Library
Exemption Status	Not Exempt Exempt from policy
Hold Status	Not on hold Add/Remove from hold
Record Status	Declared record on 2/24/2014 You cannot declare/undeclare item as a record.
Audit Log	Generate audit log report

Close

# Regulatory Requirements – 21 CFR Part 11

- **Requirement: 11.10(d):** Limiting system access to authorized individuals
- **Control:** Windows authentication and granular security model





# Regulatory Requirements – 21 CFR Part 11

- **Requirement: 11:10(e):** Use of secure, computer generated, time stamped audit trails to independently record the date and time of operator entries.
- **Control:** SharePoint auditing
  - Full auditing feature which can be enabled on all content
  - Audit trails remain linked to respective records
  - Audit trail reports can be generated in Excel




# Example of Standard Audit Report

FILE OPEN IN EXCEL DATA FIND										
A	B	C	D	E	F	G	I	J	K	
1	Site Url	http://demo2013/sites/gmw-RC								
2										
3	Site Id	Item Id	Item Type	User Id	Document Location	Occurred (GMT)	Event	Event Source	Source Name	Event Data
4	{6dbff6e6-00d9-4d72-90f1-e043a895-e709-4a}	Document	System Account <SHAREPOINTsystem>		sites/gmw-RC/QA Documents/MTM-SOP-0004.pdf	2014-02-18T17:20:44	Update	SharePoint		<Version><Major>1</Major><Minor>0</Minor></Version>
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19	{6dbff6e6-00d9-4d72-90f1-e043a895-e709-4a}	Document	System Account <SHAREPOINTsystem>		sites/gmw-RC/QA Documents/MTM-SOP-0004.pdf	2014-02-20T20:54:00	Update	SharePoint		<Version><Major>2</Major><Minor>0</Minor></Version>
20	{6dbff6e6-00d9-4d72-90f1-e043a895-e709-4a}	Document	SP_CRAWL <i:0#wjediclinica/sp_crawl>		sites/gmw-RC/QA Documents/MTM-SOP-0004.pdf	2014-02-20T20:55:34	View	SharePoint		<Version><Major>2</Major><Minor>0</Minor></Version>
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22	{6dbff6e6-00d9-4d72-90f1-e043a895-e709-4a}	Document	SP_CRAWL <i:0#wjediclinica/sp_crawl>		sites/gmw-RC/QA Documents/MTM-SOP-0004.pdf	2014-02-22T04:56:18	View	SharePoint		<Version><Major>2</Major><Minor>0</Minor></Version>
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# Regulatory Requirements – 21 CFR Part 11

- **Requirement: 11.10(e):** Record changes should not obscure previous entries
- **Control:** Version history of content or metadata is maintained





# Version History

SharePoint

BROWSE COSIGN FILES LIBRARY

qm

Quality Management Workspace

Effective Controlle

My Portal

My Workspace

Documentation Management

Training Management

Incident Management

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2/20/2016

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DAL ID DAL-000020				
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Title CAPA Procedure				
Author Demo QMW User				
DAL ID DAL-000004				
Business Unit Demo Unit				
Department Name Quality Assurance				
Document Number MTM-SOP-0004				
Document Code SOP				
Document Approvers <input type="checkbox"/> Demo QMW QA				
CDM Document Status Effective				
Effective Date 2/18/2014				
Periodic Review Date 2/18/2016				
Revision 00				



# Regulatory Requirements – 21 CFR

## Part 11

- **Requirement: 11.10(f):** Use of operational steps to enforce permitted sequencing of steps and events
- **Control:** Would be managed in specific applications deployed to SharePoint
- **Requirement: 11.10(g):** Use of authority checks to ensure that only authorized individuals can use the system....
- **Control:** Managed through a combination of Active Directory and SharePoint security for authentication and user rights management
- **Requirement: 11.10(h):** Use of device checks
- **Control:** Would be managed by specific applications deployed to SharePoint



# Regulatory Requirements – 21 CFR Part 11

- **Requirement: 11.30:** Persons who use open systems to create, modify, maintain, or transmit electronic records shall employ procedures and controls designed to ensure the authenticity, integrity, and as appropriate, the confidentiality of electronic records from the point of their creation to the point of their receipt.
- **Control:**
  - Use of VPN, SSL or other encryption techniques to protect data as it transits over public networks
  - Use of authentication controls as in 11.10(d)



# Qualification of SharePoint

- Focus on qualifying the **baseline features** of SharePoint which allow you to meet 21 CFR Part 11 requirements
- Complete a **regulatory assessment matrix** which defines the different technical and procedural controls
- Produce a **specification document** which details how each technical control must be configured
- Execute an **Installation Qualification** (IQ) which documents that all installation steps were completed correctly





# Qualification of SharePoint

- Document all **configuration parameters** in the IQ or configuration specification
- Perform **operational qualification tests** to ensure that the configuration has been properly implemented
- Summarize the qualification in a **summary report**
- Ensure SharePoint falls under **change control** and **configuration control**
- Implement a **governance plan** and relevant **SOPs**





# Corporate SharePoint Standards

- Clear and formal corporate **taxonomies** aligned with **industry standards** (TMF Ref Model, eCTD etc)
- Document **classification** and records management / retention standards and policies
- Uniform **Site structures**, site templates, **content types** and **metadata** standards across all departmental sites and libraries (should be aligned with Taxonomy)
- Security matrix and standards
- Numbering and **Nomenclature** standards





# Poll

- Do you have formal standards, structures, and rules for regulated content?





# What is Configuration Management?

- According to GAMP 5, configuration management consists of the following activities:

Configuration  
Identification

**WHAT** to keep  
under control

Configuration  
Control

**HOW** to **perform**  
the control

Configuration  
Status Accounting

**HOW** to  
**document** the  
control

Configuration  
Evaluation

**HOW** to **verify**  
that control

## What and How?







# Configuration Identification

The configuration items for SharePoint can be divided into 4 levels:

**Application level items**  
(InfoPath forms, Workflows)

**User (site collection) level items**  
(Site, Libraries, Lists, Content types, Metadata, User management)

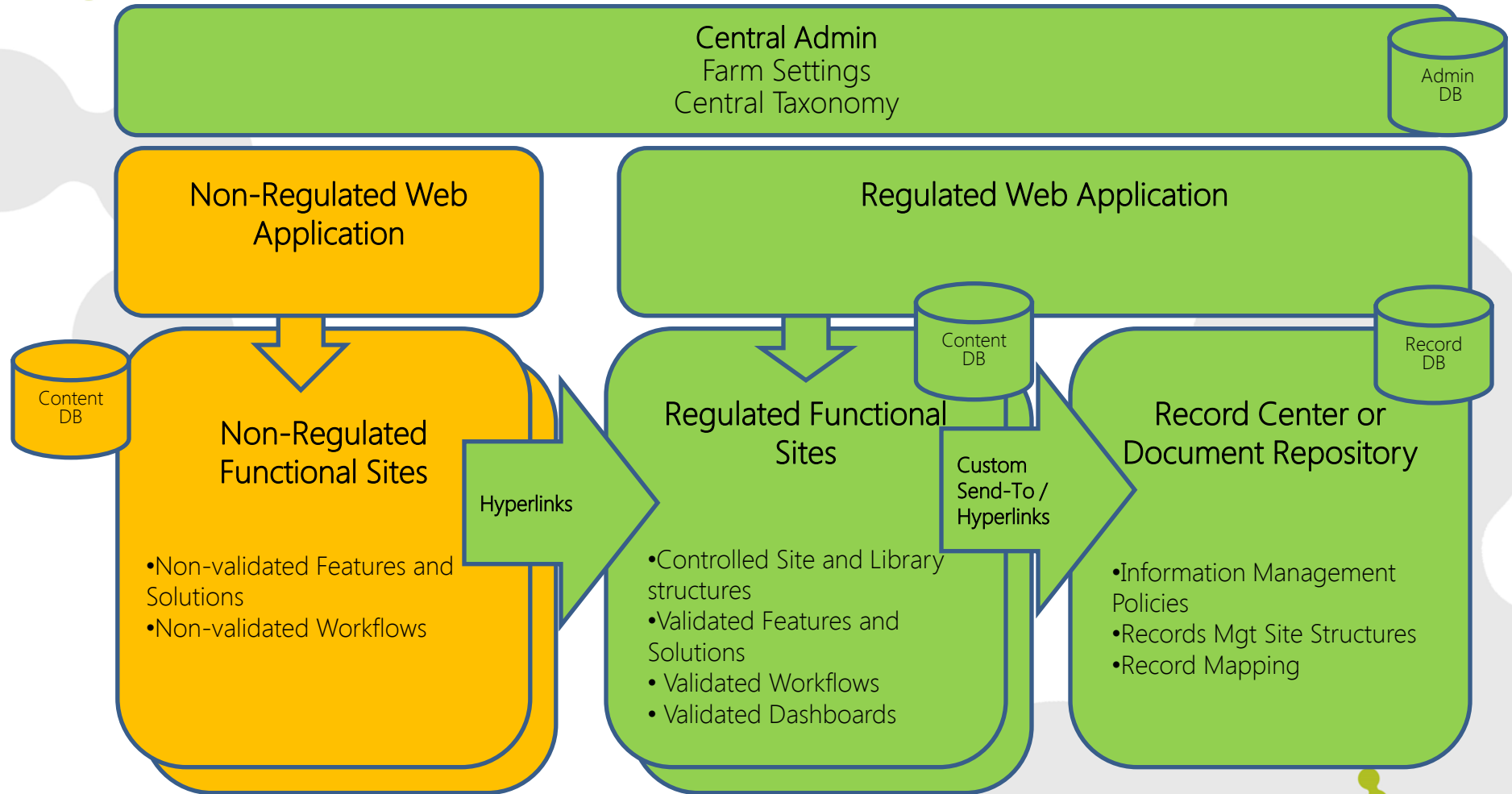
**Administrative (farm) level items**  
(Farm level settings, Web application management, Shared Services administration)

**System level items**  
(Servers, OS, Patches, AD)





# Regulated vs. Non-Regulated





# SharePoint Formal Procedures

- In order to use SharePoint for **regulated activities**, a clear process for deploying and controlling the environment is required
- This process should **aim to document** the design, configuration, QC and maintenance of **controlled** SharePoint workspaces including **3<sup>rd</sup> party applications**
- **Required** SOPs:
  - SharePoint Admin/Configuration SOP
  - Configuration Management SOP
  - Change Control SOP
  - Other IT SOPs such as Disaster Recovery, Backup, Security, Non-Conformance Management





# Importance of governance

## To ensure that:

- SharePoint **content organization** is standardized across the enterprise
- SharePoint is properly **structured** to allow flexibility while maintaining control
- Clear **roles and responsibilities** for the management of the platform are established
- There is proper integration with the **change control** and **configuration control** processes
- That SharePoint remains **manageable** and in a **validated controlled state**





# Governance Plan - TOC

	GOVERNANCE PLAN	Reference N°:
	TITLE SharePoint Governance Plan	[Document Number] Revision: 00

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# Deployment Options – To cloud or not to cloud?

- SharePoint can be deployed on **cloud based** environment
- **Windows Azure** supports cloud based SharePoint deployments
- **Office 365** also has an enterprise version of SharePoint Online which can be qualified
- Ensure the **same** adequate procedural and technical **controls** are in place
- Perform proper **due diligence** – you are still **responsible**
- You **still** need to **qualify** the Cloud and SharePoint environments unless it is fully managed by the vendor



# Advantages of SharePoint for Regulated Content Management

- **Versatile** and **flexible** system which can be used across the enterprise for regulated and non-regulated content
- Can significantly improve **collaboration** and **traceability**
- Can be **easily qualified** to meet the requirements of **21 CFR Part 11**
- Can **replace** many of the **ad-hoc tools** used within GxP environments
- Can significantly improve **information** and **knowledge** management
- Can **reduce** total **cost** of ownership of regulated systems



# SharePoint Validation and Governance Packs

## **SharePoint Validation Pack (2010, 2013)**

- Built to be adapted to any organization
- Allows you to properly install and clearly document your SharePoint farm to meet part 11 requirements
- Based on GAMP 5

## **Governance Plan Template Pack**

- Provides a governance plan template
- Uses industry best practices on governance of SharePoint
- Templates of necessary IT SOPs to meet part 11 requirements





# Montrium Connect Platform



CLINICAL eTMF

NON-CLINICAL  
DOCUMENTS

REGULATORY  
DOCUMENTS

GMP DOCUMENTS

LEGAL DOCUMENTS

DHF/DMR

SOP MANAGEMENT

TRAINING MANAGEMENT

CAPA & INCIDENT  
MANAGEMENT

VENDOR MANAGEMENT

AUDIT MANAGEMENT

CLINICAL DIRECTORY

CLINICAL eMVR

SITE INITIATION &  
AUTHORIZATION TO  
SHIP DRUG

STUDY MILESTONE  
TRACKERS

STUDY & SITE PROFILES

INTELLIGENT CLINICAL  
TEMPLATES

SYSTEMS INVENTORY

SYSTEMS CHANGE  
CONTROL

TEMPLATES &  
DOCUMENTS

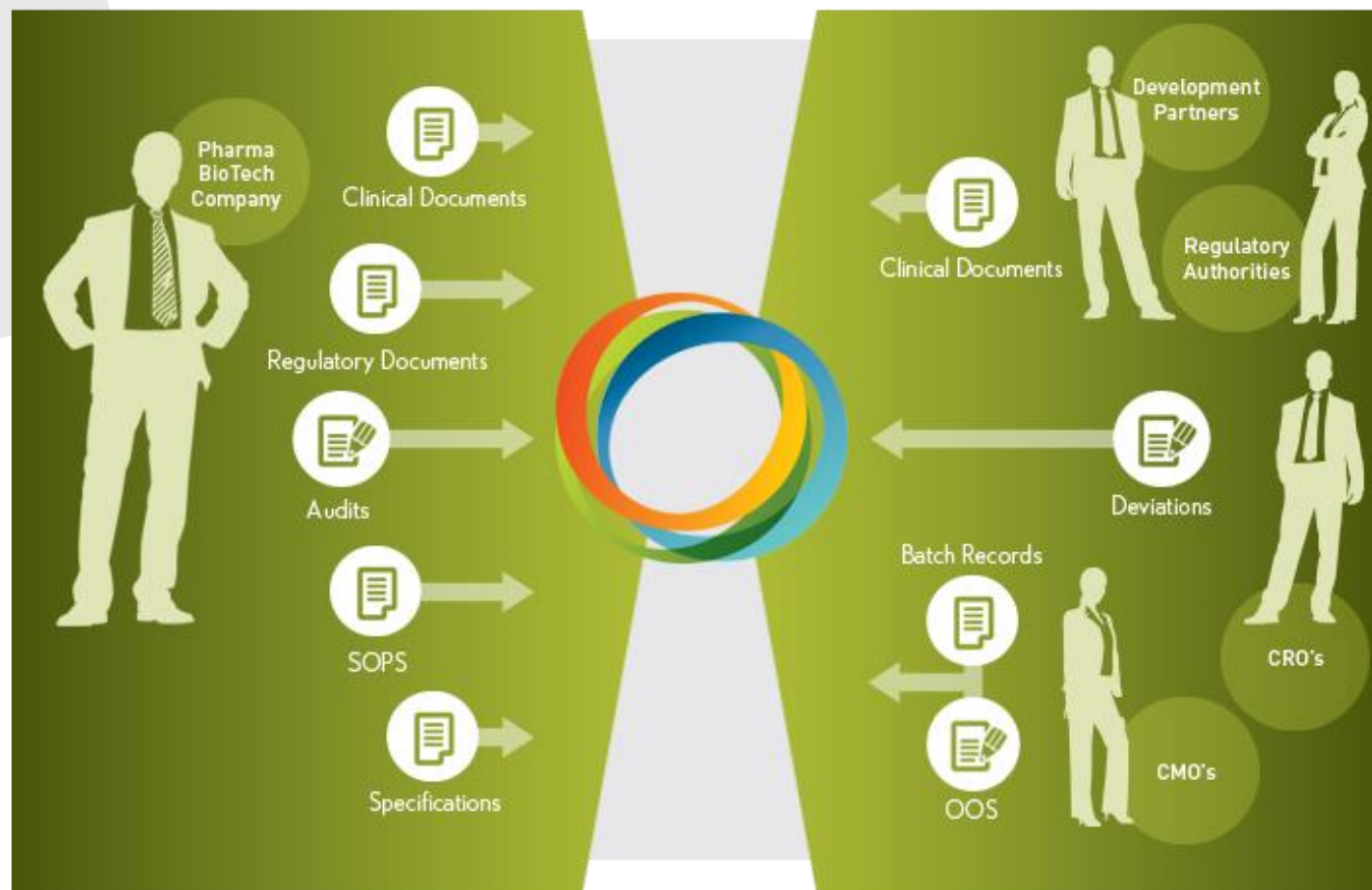
SYSTEMS/  
NON-CONFORMANCE



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# Centralized Collaboration





# Final Recommendations

- Clearly **identify** which regulated **content** could be managed within SharePoint
- Establish an **enterprise architecture** of your SharePoint environment
- Ensure that **SharePoint** is properly **qualified**
- Implement a strong **governance plan** and SOPs
- Leverage SharePoint as an **enterprise platform** to **consolidate** your existing regulated content sources
- Build out in a **step by step** manner





# Poll

Based on the content provided in this webinar...Would you now consider using SharePoint for managing regulated content?





# Q&A

- Feel free to type questions in the question window of the webinar
- We will aim to answer them for you





# Contact Details

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