

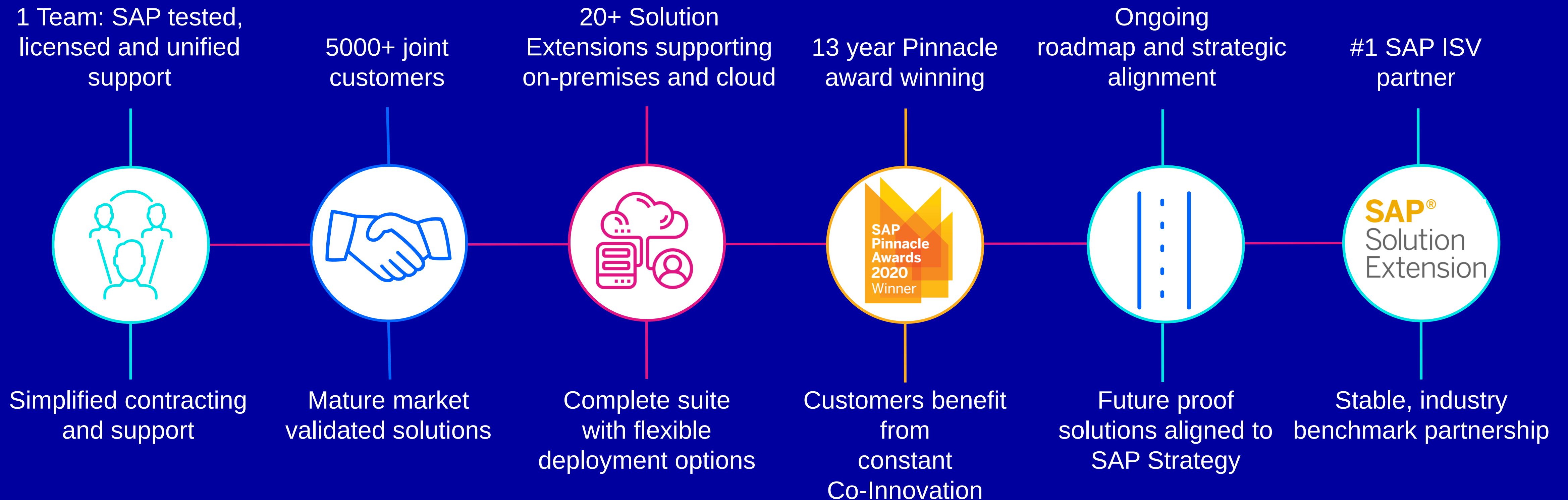
opentext™

**Information Management.
Intelligent Experiences.**

**Solutions for The Energy Industry
with OpenText Content Cloud**



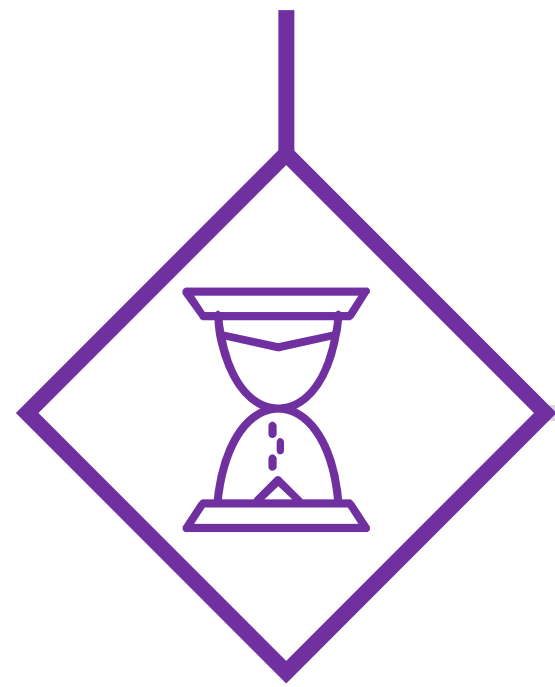
Introducing OpenText



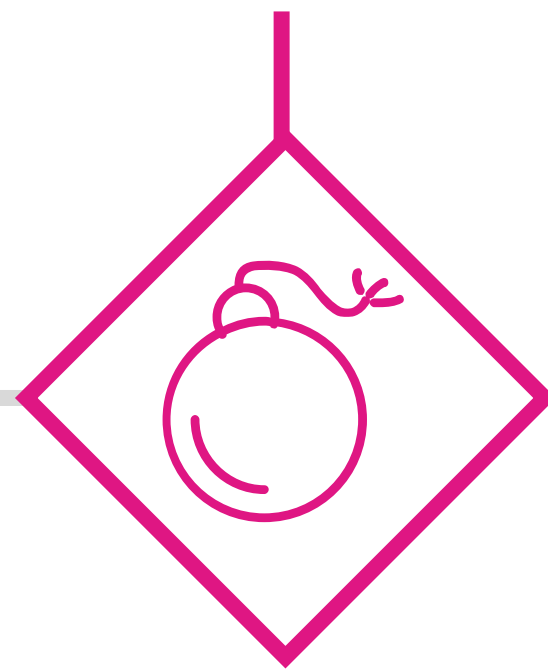
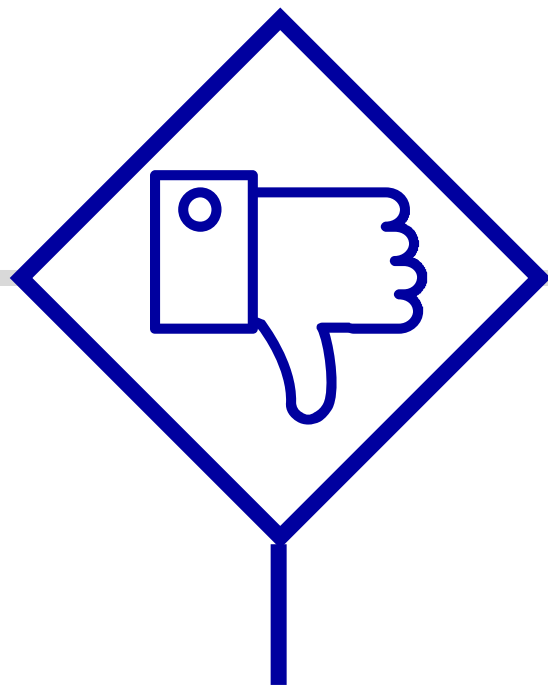
The market leading **Digital Content Platform** supporting SAP customers to gain the **Information Advantage** and become **Intelligent and Connected Enterprises**

Our Experience with Dedicated Content Management ...apart from Business Applications

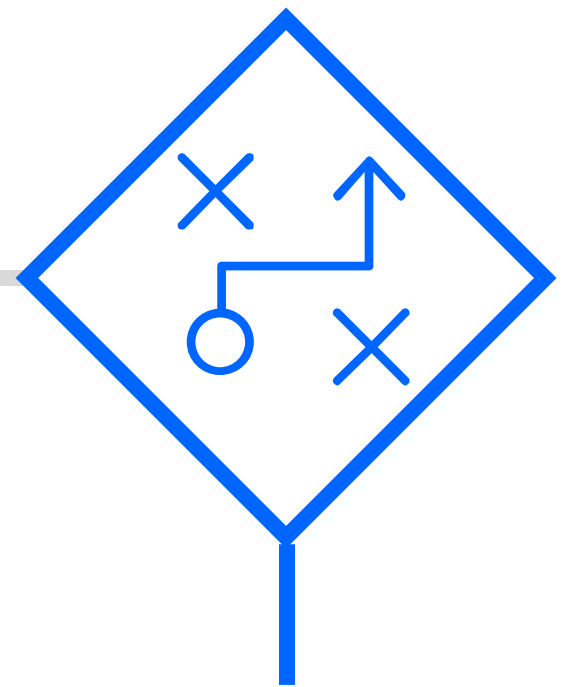
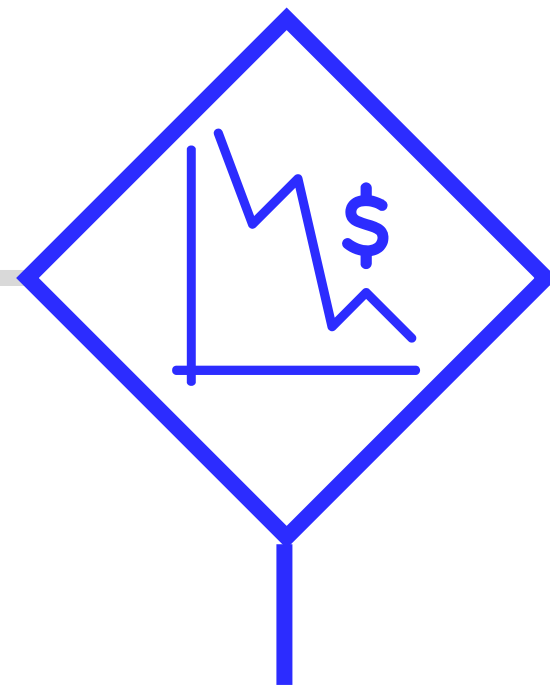
Fragmented content
prolongs cycle time



Out of control content is a
compliance risk



Inconsistent content
decrease productivity



Inaccessible content impacts
on service and product quality

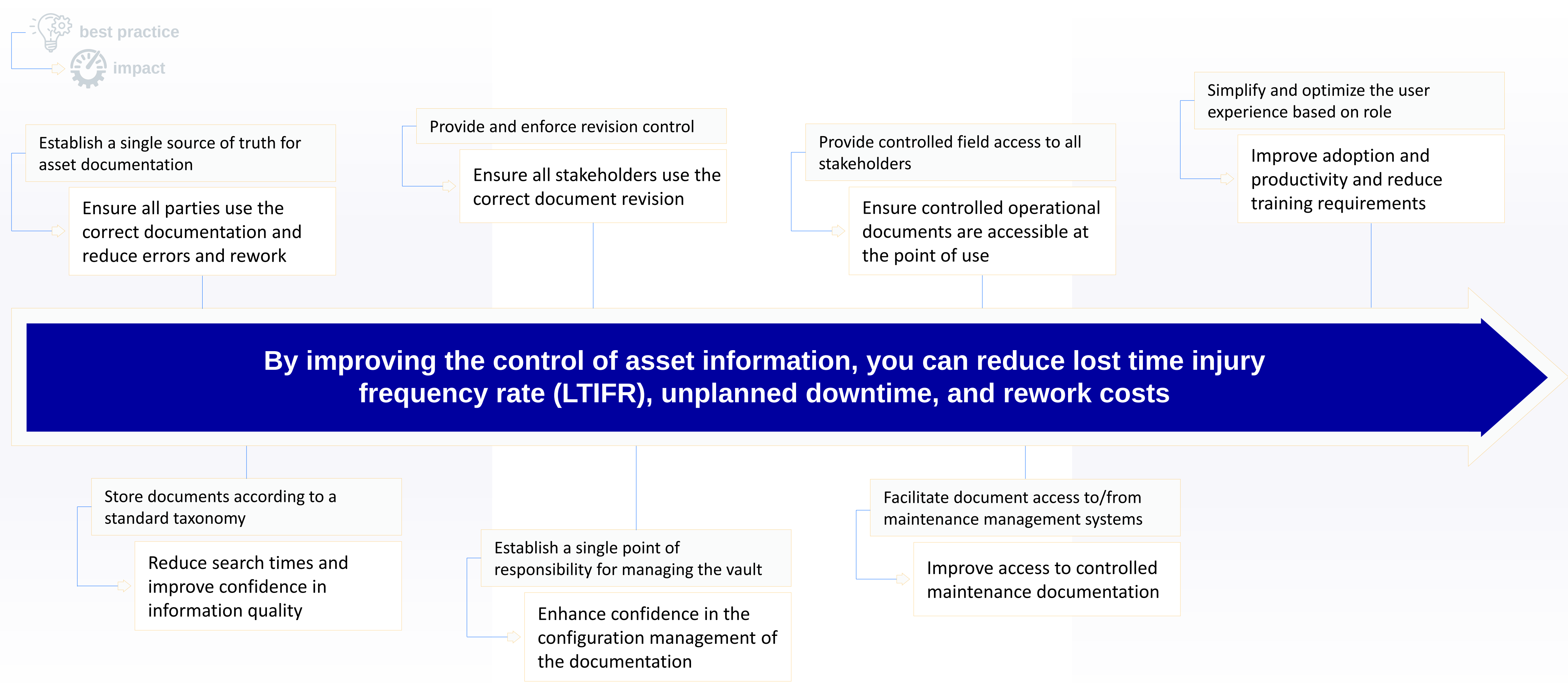
Disconnected content
delivers less value

Inefficient content flows
disrupt collaboration

Content is a main “building block” of any Business Process

Our solution

proven best practices maximize process productivity



OpenText Content Cloud

Complete solution set for energy & engineering

- End to end coverage and strong SAP integration with **Extended ECM for Engineering**
- Flexibility, low TCO and fast implementation **with Core for Capital Projects**
- Information Handover managed by **Core for Building Information Modeling (BIM)**
- Supplier Collaboration with **Core for Supplier Exchange**
- Three platform strategy with a strong focus on SaaS going forward



Manage Enterprise Content in Context of Structured Business Processes

Old Paradigm

Content managed separately from core business processes

Core Business Processes



Content

Preserve/Destroy

Store/Secure

Review/ Collaborate

Access/Distribute



New Paradigm

Content integrated with core business processes
(e.g. ECC, SRM, CRM, PPM)

Content – enriched Business Processes



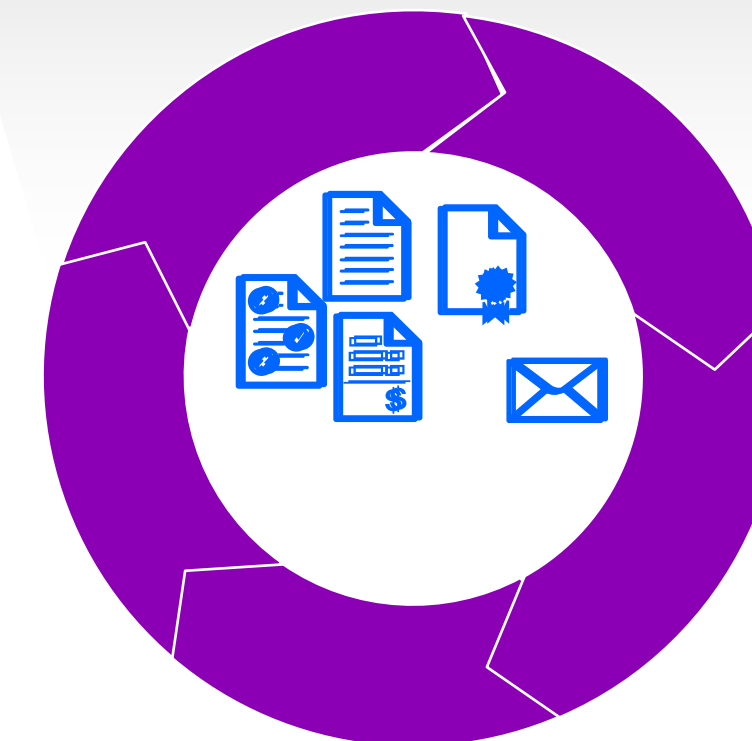
Preserve/Destroy

Create/Capture

Store/Secure

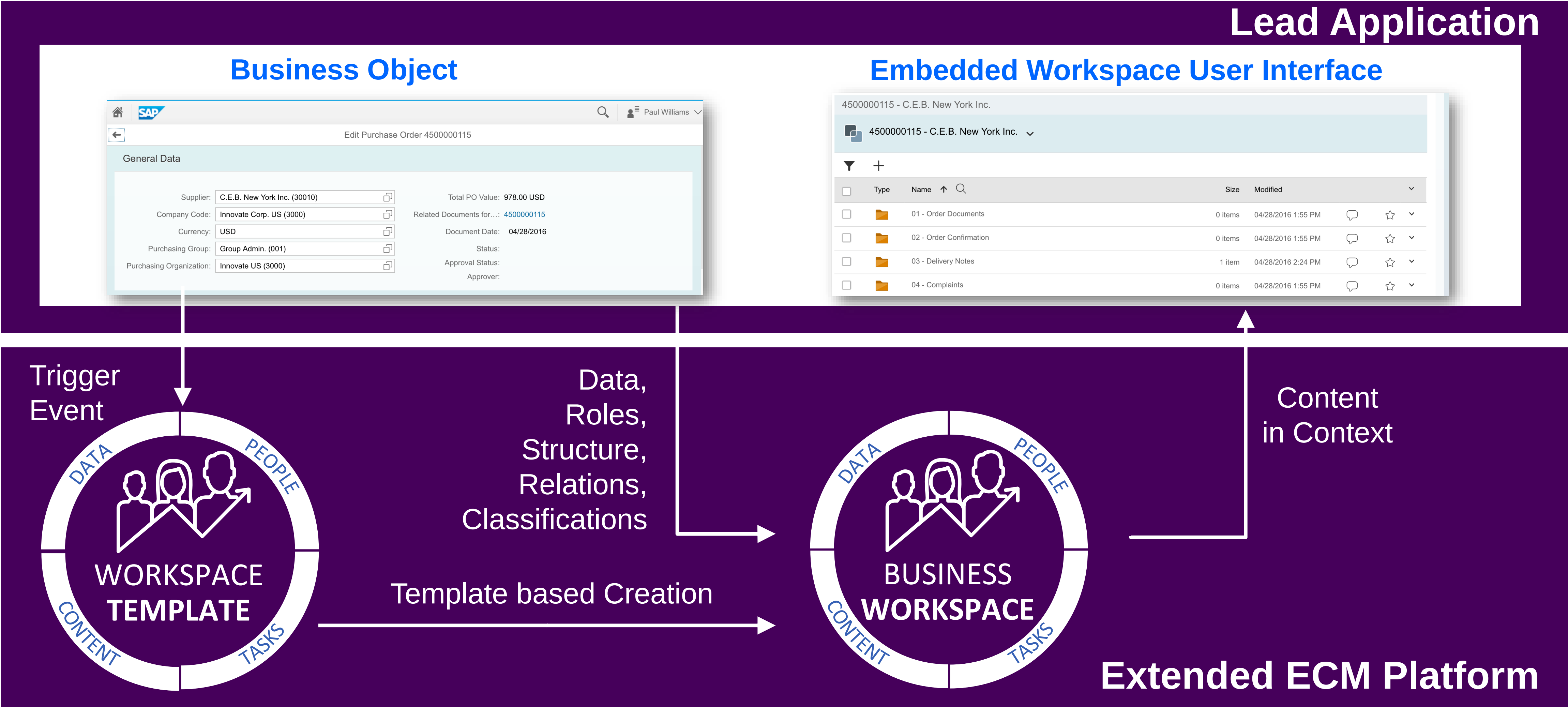
Review/ Collaborate

Access/Distribute



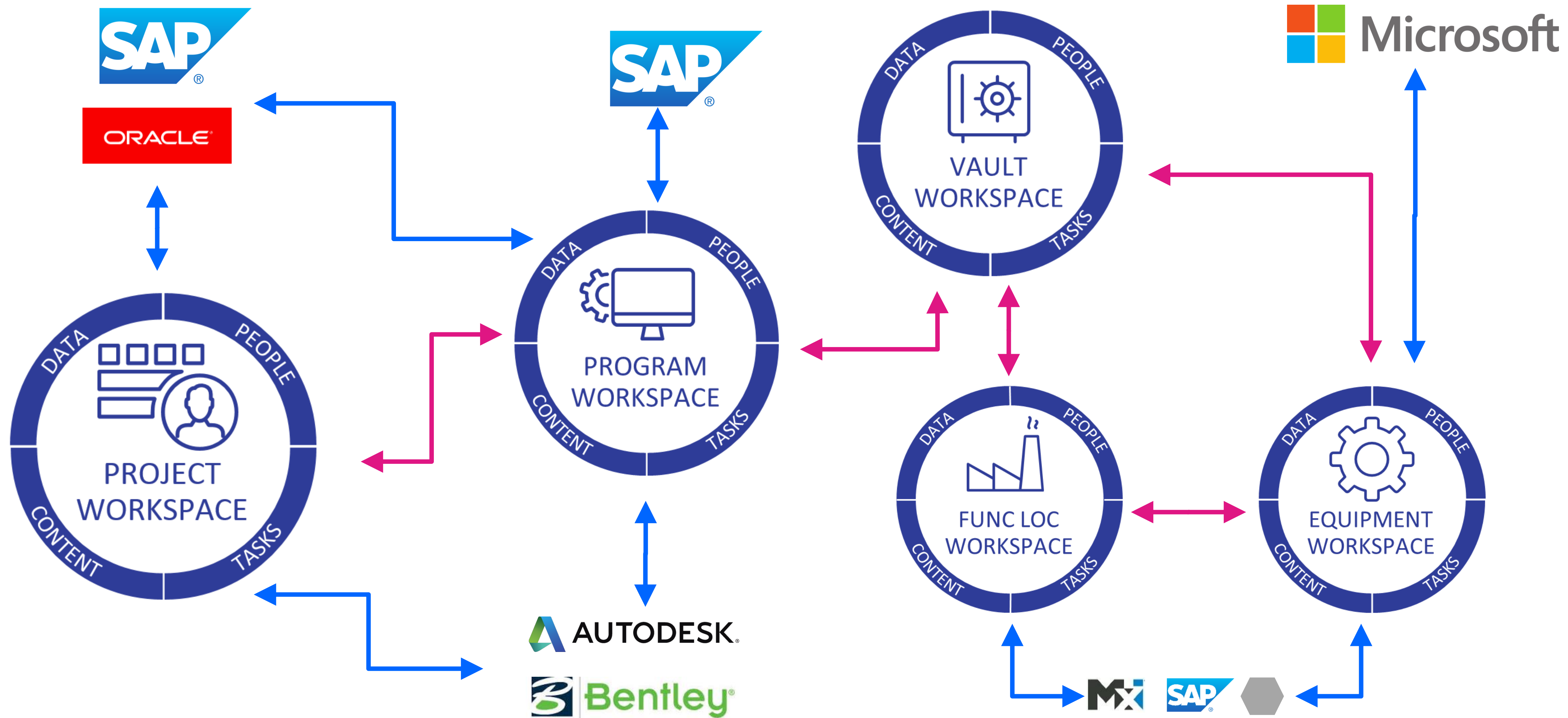
Extended ECM

Anatomy of the integration



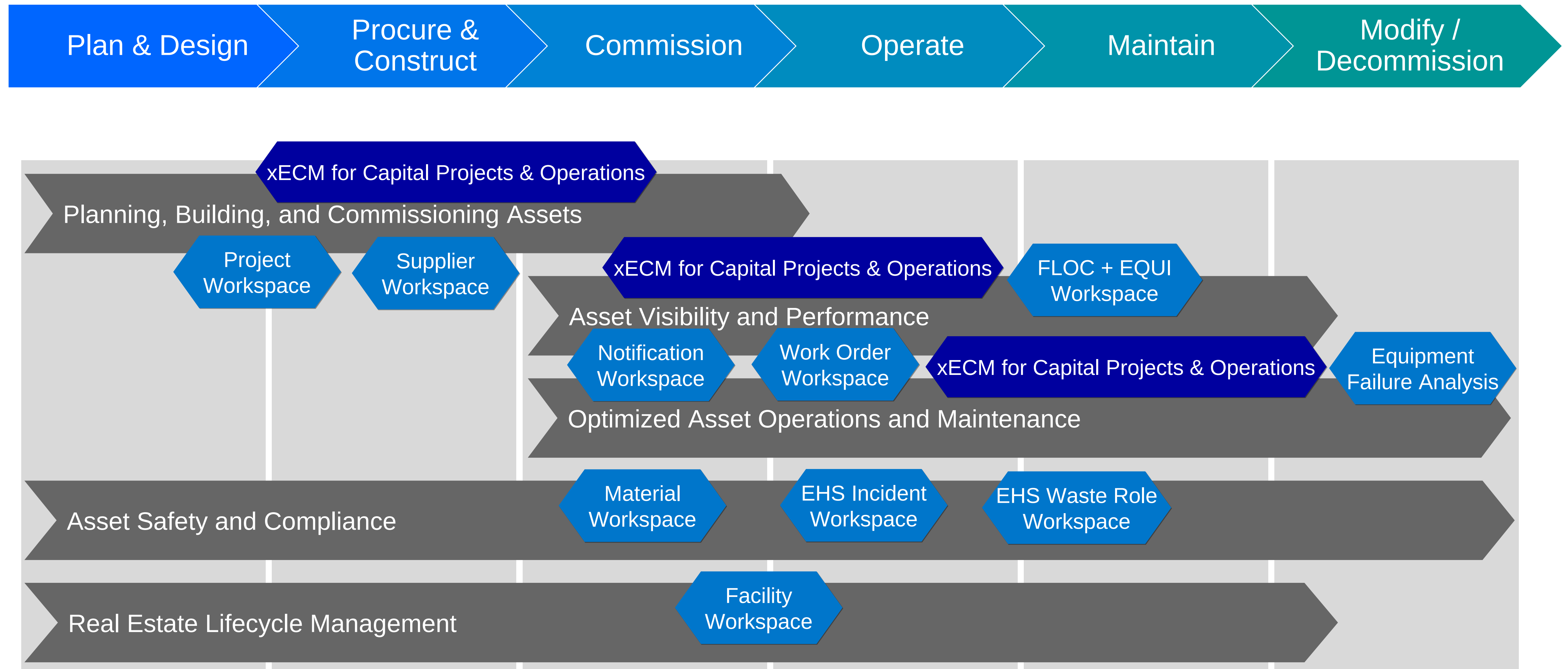
Extended ECM Platform

Network of Intelligently Connect Business Workspaces



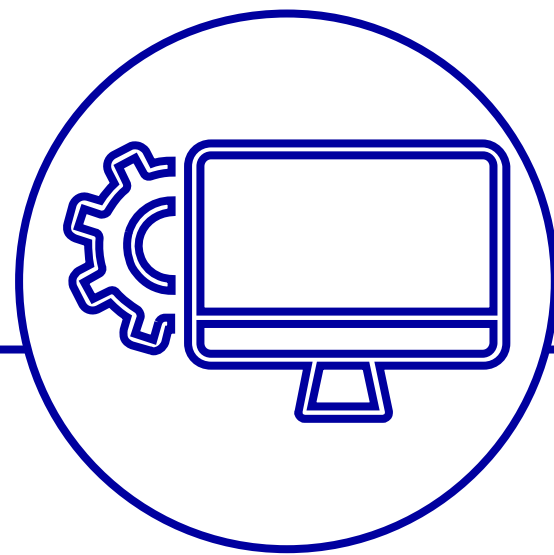
Engineering and asset information management for key process areas

Asset Lifecycle



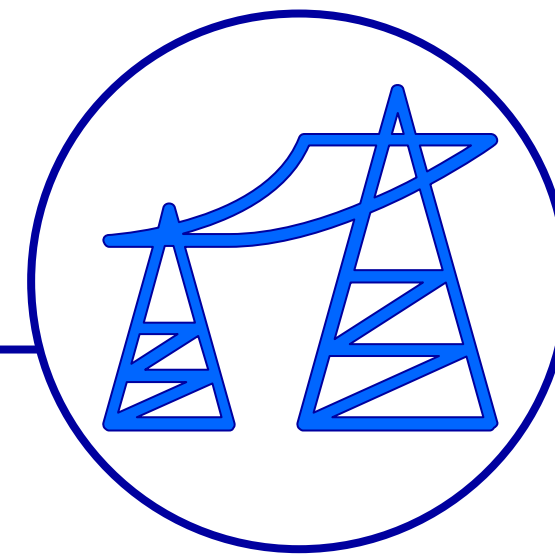
OpenText Unique Value Proposition

OpenText is the only solution provider in the marketplace with productized solutions for each of these business interests in a complete integrated enterprise platform. This is what we do different and best.



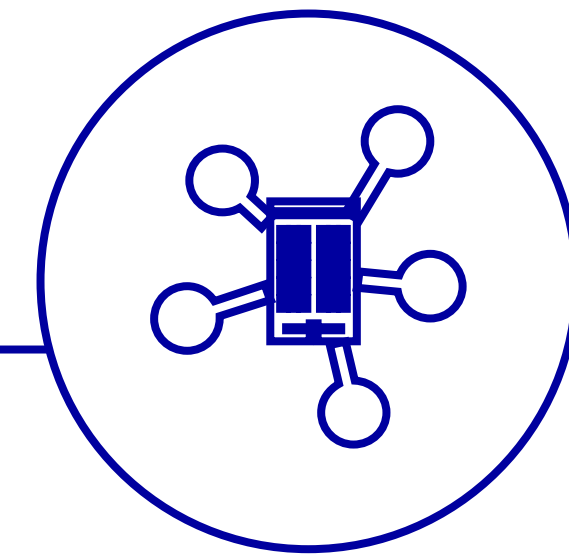
Intelligent Projects & Operations

Efficiently control change, exchange & risk to finish faster



Intelligent & Connected Operations

Integrate and operate with excellence to control risk and increase revenue



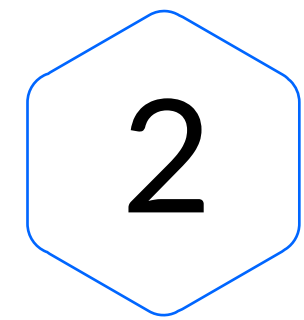
Connected Enterprise

Extended ECM Platform / OpenText EIM:
Integrate Projects and Operations into the enterprise ecosystem

Functional Scope of xECM for Engineering



Scope of xECM for SAP – Engineering Document Management solutions



Customer Samples



Functional Components



User Interface

Solutions for the whole Asset Lifecycle



Solution for Document Control in Engineering and Construction Projects

xECM for Engineering Projects & EPC

SAP PLM

Capital Projects

The image shows a large industrial construction site with multiple cranes and complex piping structures under development.

Inbound / Outbound document control in capital projects, integration to project planning and PLM

Solution for technical asset documentation and maintenance documentation for owner/operators

xECM for Plant Maintenance & Operation

SAP PM

Asset Operations

The image shows an industrial plant at night, with tall distillation columns and various structures illuminated by site lights.

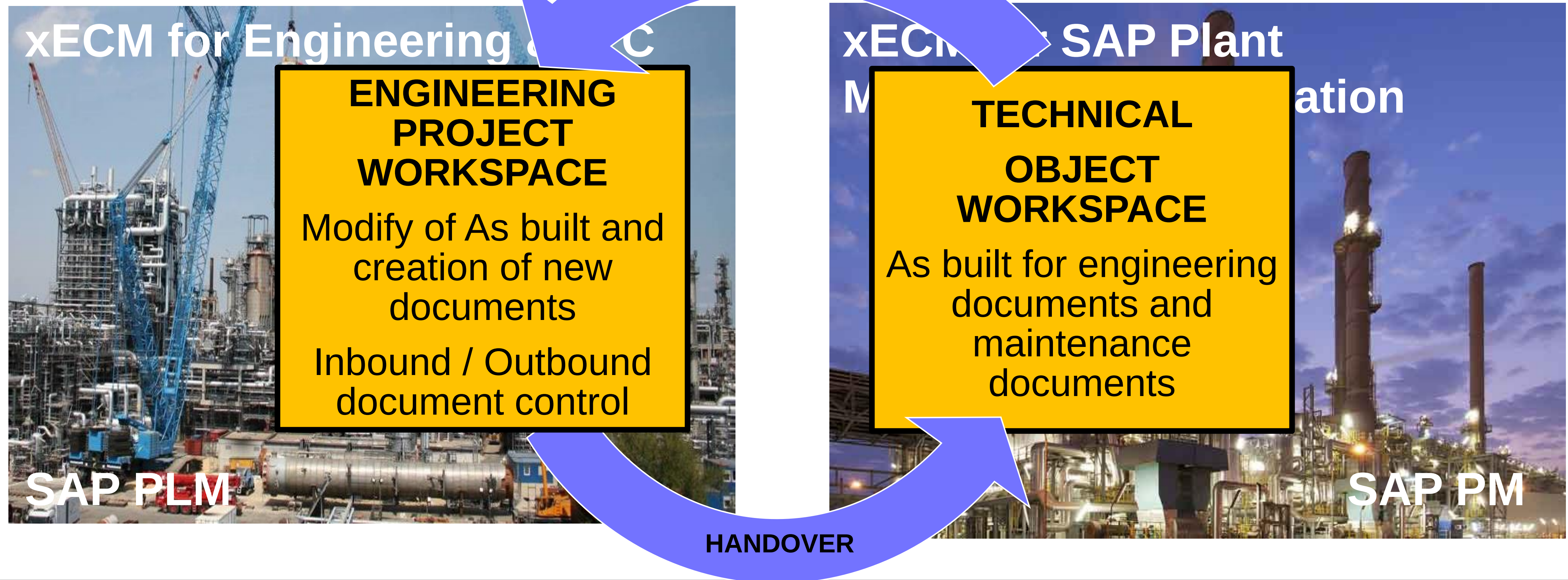
As Built documentation, Change Management, documentation of maintenance execution

Solutions for the whole Asset Lifecycle



Solution for Document Control in Engineering and Construction Projects

Solution for technical asset documentation and maintenance projects for owners and operators



xECM Workspace Concept

SAP Project Structure

Project Structure Overview	Identification	BasicStartDate	Basic finish	Actual start	A...
✓ X-IDES-GENERAL	X-IDES-GENERAL	01.03.2000	27.06.2022		
✓ X-IDES-NDP-APO-20B	X-IDES-NDP-APO-20B	01.03.2000	27.06.2022		
Bolt ver 3	DES 10000000233 000 03				
Bolt ver 3 Test DIR w	DES 10000000233 000 04				
Bolt ver 3 Test DIR w	DES 10000000233 000 05				
Bolt ver 3 Test DIR w	DES 10000000233 000 06				
Bolt ver 3 Test DIR w	DES 10000000233 000 07				
902605	902605	11.02.2021	11.02.2021		
Create Basic Engin	902605 0010				
Submit Basic Engin	902605 0020				

SAP Asset Structure

Functional Loc.	Description	Valid From
C1	Clarification plant	26.01.2011
C1-ZPW	Inlet pump plant	
C1-M	Mechanical purification	
C1-B	Biological cleaning	
C1-B01	Pump station	
C1-B01-1	Pump set 1	
P-3000-N001	Electric pump 001	
C1-B01-1A	Valve 1	
C1-B01-1B	Valve 2	
C1-B01-2	Pump set 2	
C1-B02	Filter building	
C1-BR1	1st biological cleaning	
C1-BR2	2nd biological cleaning	
C1-KWT	Clarified water test tank-fish culture	
C1-SLB	Sludge processing	
C1-CNT	Container -> Deposit site	



opentext™

Workspace for WBS Elements

Dates, Status, Attributes and DIR Documents synched

Workspace for Product, FLOC, EQUI, Tasklist and Work Order in SAP

Attributes and Relations synched

Project X-IDES-GENERAL

Roles & Assignments

WBS Workspace

Review & Approval Workflow

Handover to multiple EQUI, FLOC, Products

EQUI Workspace

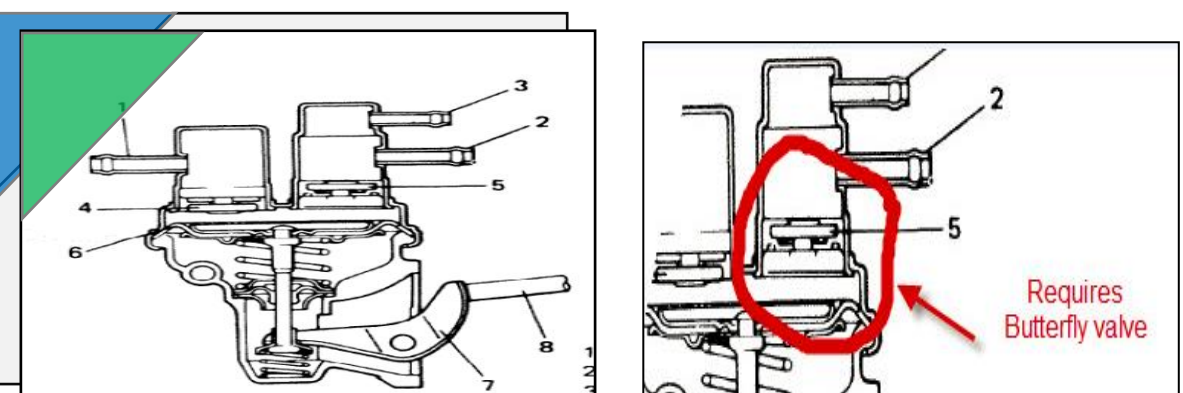
Notification Workspace

Workspace Relations

Work Order Workspace

xECM for Engineering

Supplier Exchange

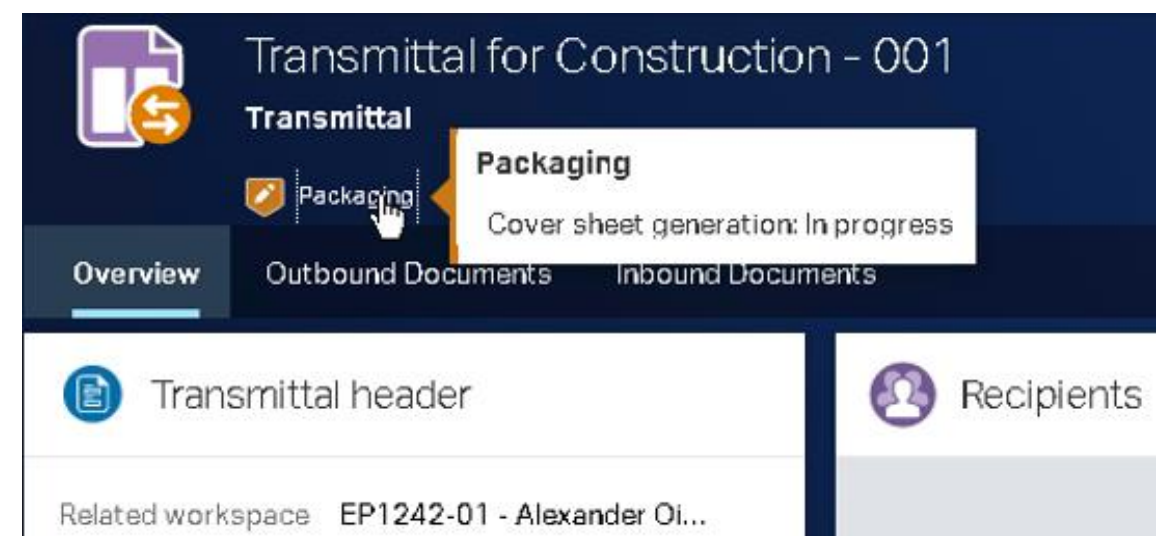


Deliverables

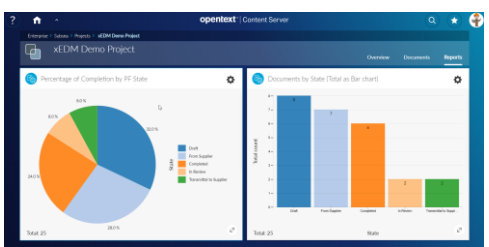
Comments

Outbound & inbound

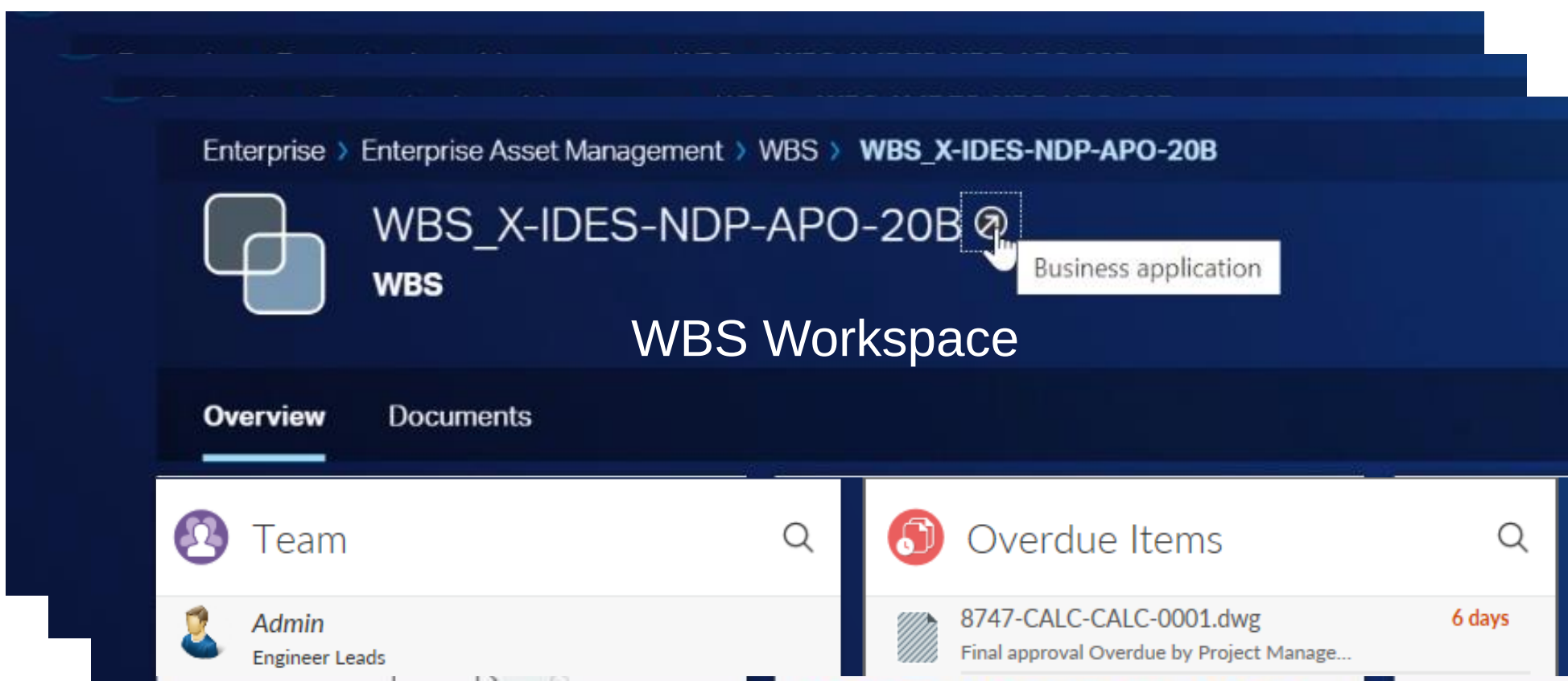
Customer Transmittal



Project X-IDES-GENERAL



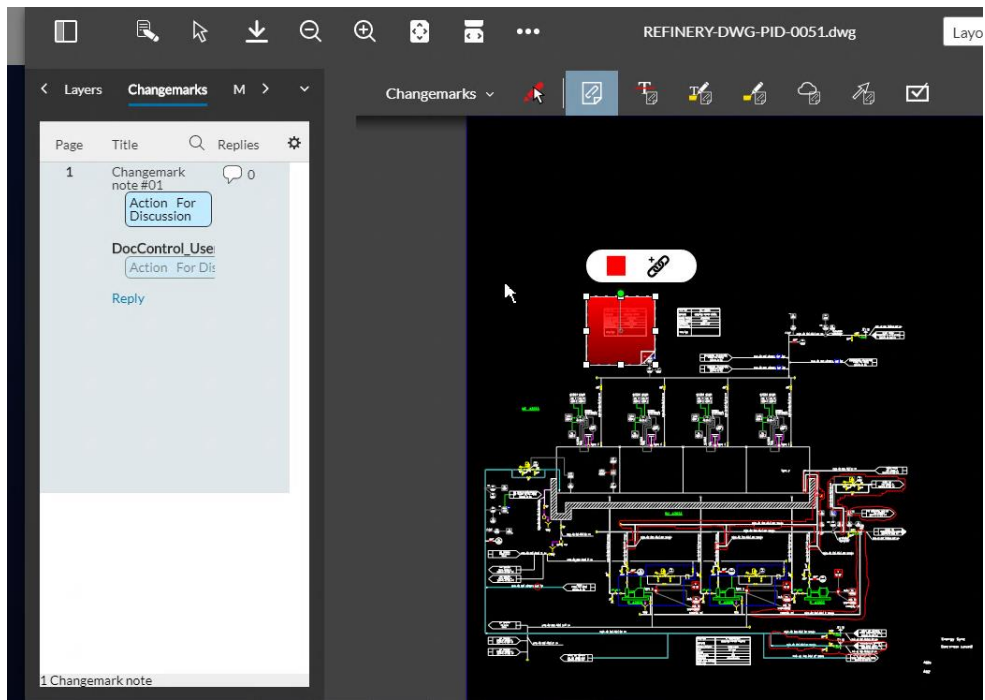
Roles & Assignments



WBS Workspace

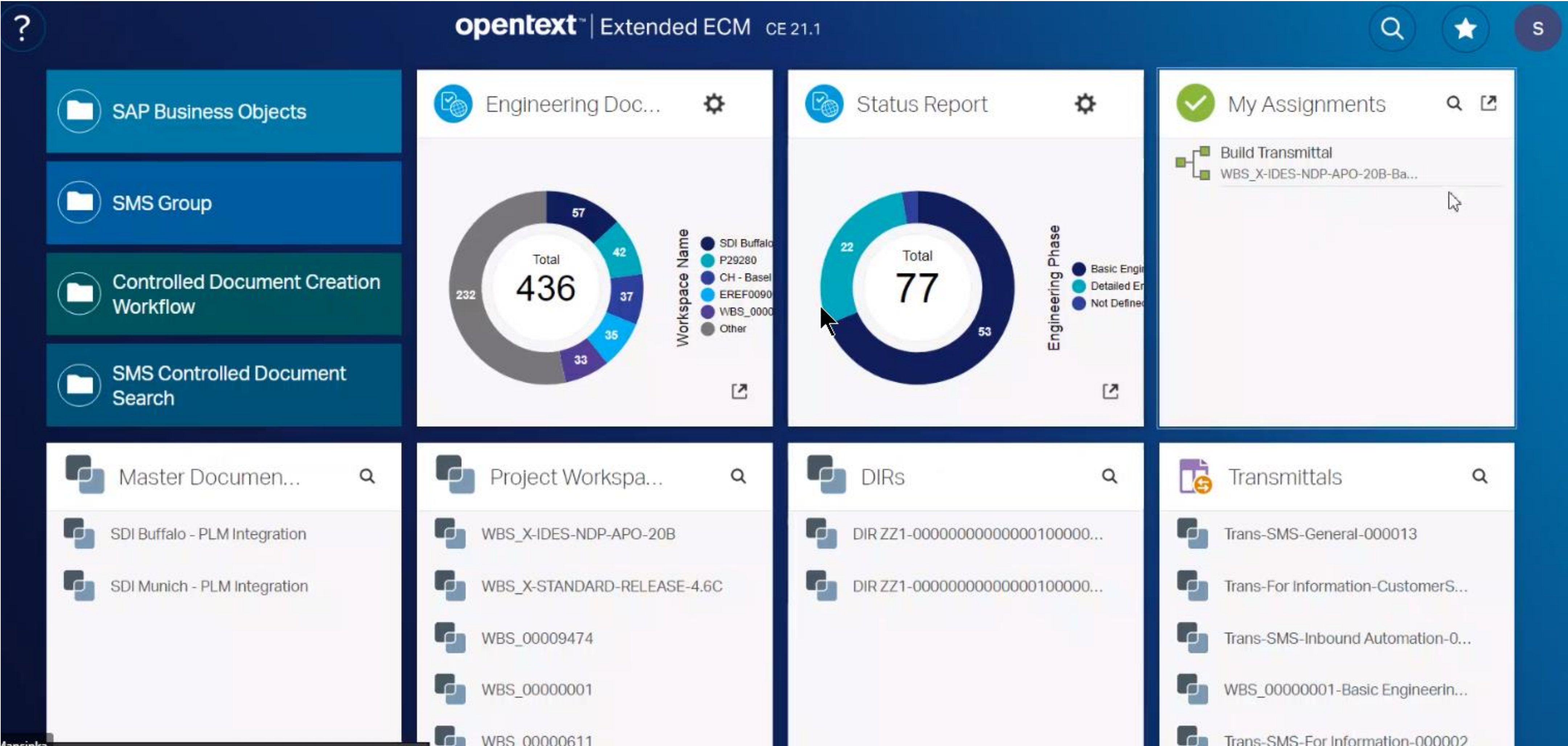


Review & Approval Workflow



Redlining,
Comment,
Annotate,
Compare,
Render to PDF

xECM for Engineering Landing Page



WBS Workspace

?

home

^

opentext™ | Extended ECM CE 21.1

Q

☆

V

Enterprise > Enterprise Asset Management > WBS > WBS_X-IDES-NDP-APO-20B

WBS_X-IDES-NDP-APO-20B

WBS

Business application

Overview

Documents

☆

...

Master Docum...

Q

No related workspaces to display.

Related DIR

Q

DIR DES-10000000233-000-03

DIR DES-10000000233-000-04

DIR DES-10000000233-000-05

DIR DES-10000000233-000-06

DIR DES-10000000233-000-07

WBS Status

Total

2

100.0 %

Delivery

Pending

Controlled Document
Creation Workflow

Team

Q

SMSDocumentControllers

Document Controller

SMSEngineers

Engineer

SMSLeadEngineers

Lead Engineer

SMSProjectAdministrators

Project Administrator

vdhandap

Project Administrator

Metadata

WBS Element

BUS2054

Description

Add text

Creation Date

Add date

Internal WBS...

X-IDES-NDP-APO-20B

WBS Basic S...

01/03/2000

WBS Basic E...

27/06/2022

Network ID

000000902605

Network Basi...

11/02/2021

Related Transmittals

Q

WBS_X-IDES-NDP-APO-20B-Basic...

Solutions for the whole Asset Lifecycle



Solution for Document Control in Engineering and Construction Projects

Solution for technical asset documentation and maintenance projects for owners and operators

xECM for Engineering & Construction

ENGINEERING PROJECT WORKSPACE

Modify of As built and creation of new documents

Inbound / Outbound document control

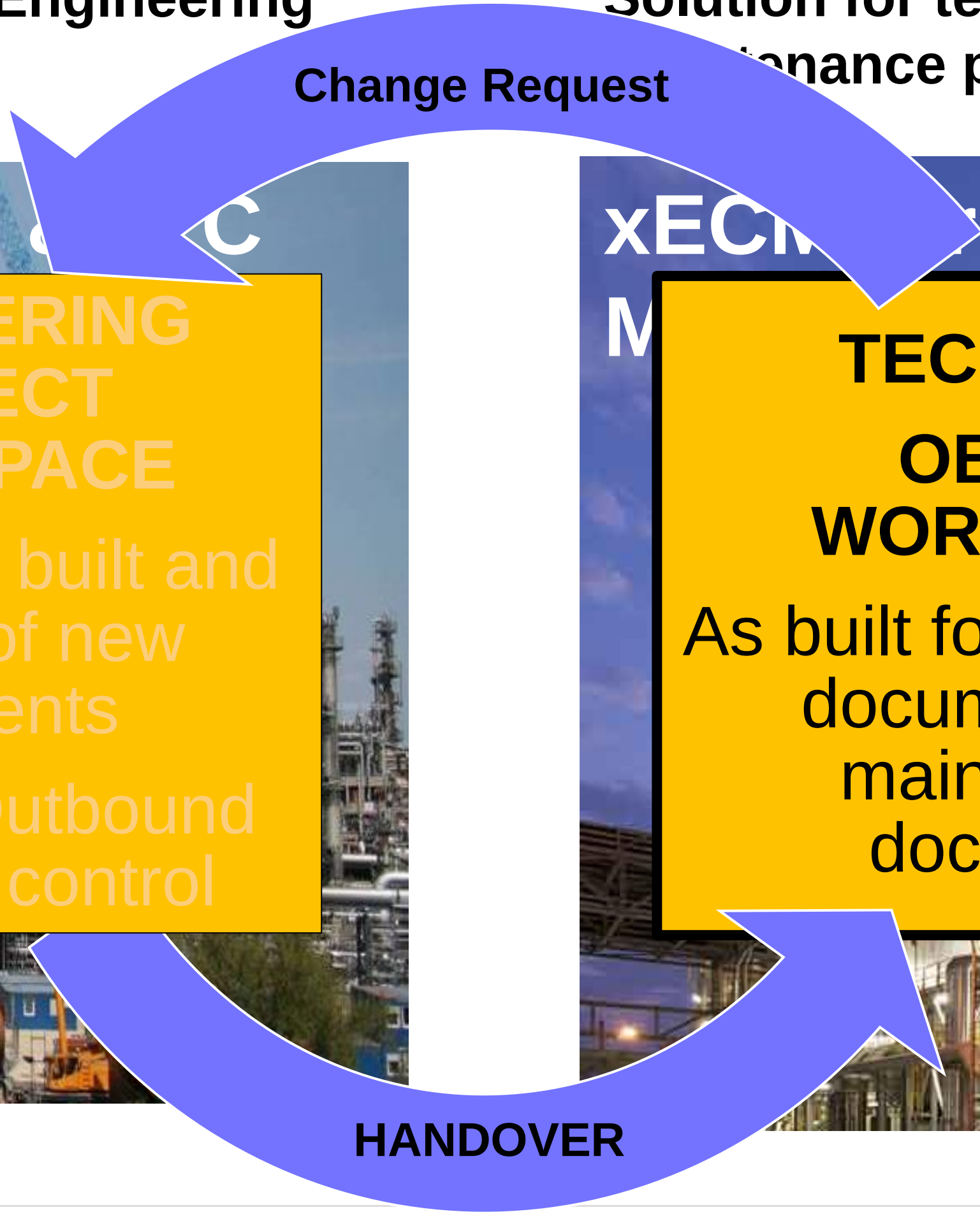
SAP PLM

xECM for SAP Plant Maintenance

TECHNICAL OBJECT WORKSPACE

As built for engineering documents and maintenance documents

SAP PM



xECM Workspace Concept

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Project Structure Overview	Identification	BasicStartDate	Basic finish	Actual start	A...
✓ X-IDES-GENERAL	X-IDES-GENERAL	01.03.2000	27.06.2022		
✓ X-IDES-NDP-APO-20B	X-IDES-NDP-APO-20B	01.03.2000	27.06.2022		
Bolt ver 3	DES 10000000233 000 03				
Bolt ver 3 Test DIR w	DES 10000000233 000 04				
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Bolt ver 3 Test DIR w	DES 10000000233 000 06				
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C1-BR2	2nd biological cleaning	
C1-KWT	Clarified water test tank-fish culture	
C1-SLB	Sludge processing	
C1-CNT	Container -> Deposit site	



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Workspace for WBS Elements and DIRs

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Workspace for Product, FLOC, EQUI, Tasklist and Work Order in SAP

Attributes and Relations synched

Project X-IDES-GENERAL

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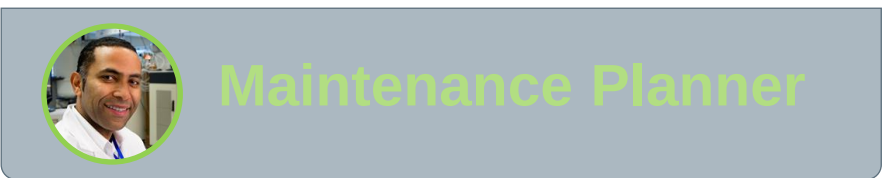
EQUI Workspace

Notification Workspace

Workspace Relations

Work Order Workspace

xECM for Plant Maintenance Landing Page



Enterprise Asset Management

Functional Locations

C1-B01 - Pump station

C1-B01-1 - Pump set 1

C1-B01-2 - Pump set 2

C1-B01-1B - Valve 2

C1-B01-1A - Valve 1

C1-B01-2A - Valve 1

C1-B01-2B - Valve 2

C1-B02 - Filter building

Equipment

P-3000-N001 - Electric Pump 001

B3-L7B-A8753 - Agilum S87 V53 Ampere Block...

M-3000-N051 - Motor for electric pump,250kw

E-10004174 - Electric Pump Motor

P-3000-N002 - Electric Pump 002

B3-L7C-A8753 - Agilum S87 V53 Ampere Block...

B3-L8A-A8753 - Agilum S87 V53 Ampere Block...

B3-L7E-A8753 - Agilum S87 V53 Ampere Block...

Maintenance Notifications

Pump Failure (000010000031)

pump will become hot after 1 hour (0000100000...

Failure Analysis for failed Pump (000010000032)

Temperature exceeds specification (0000100000...

Pump needs some cleaning (000010000100)

Maintenance of P-3000-N002 (07/2018) (00001...

Maintenance of P-3000-N002 (05/2018) (00001...

Maintenance Orders

Pump Leakage (000004000181)

Pump makes strange noise (000004000082)

Pump needs some cleaning (000004000180)

Failure Analysis for failed Pump (000004000061)

Pump will become hot after 3 hours (000004000...

Maintenance of P-3000-N002 (07/2018) (00000...

Maintenance of P-3000-N002 (06/2018) (00000...

Water Leak (000001000120)

Materials

P-3000 - Pump,electrical,150-200 GPM

100-100 - Casings

100-600 - Support base

DG-1000 - Rubber Seal

100-400 - Electronic

AGILUM-8753X - Agilum mounting robot S87 V5...

AGILUM-8721X - Agilum mounting robot S87 V2...

Favorites

P-3000-N001 - Electric Pump 001

C1-B01-1 - Pump set 1

Failure Analysis for failed Pump (000004000061)

Failure Analysis for failed Pump (000010000032)

DG-1000 - Rubber Seal

My Assignments

No results found.

Equipment workspace



opentext™ | Extended ECM



Maintenance Planner

Innovate › Enterprise Asset Management › Equipment › P-3000-N001 - Electric Pump 001



P-3000-N001 - Electric Pump 001

Equipment

 **Ramos, Peter** Added 9 hours ago
 Equipment Manual (pdf), archived 2017-03-22

 **Ramos, Peter** Added version 3 days ago
 Pump 3000 Cleaning Procedures version 2

 **Ramos, Peter** Added 3 days ago
 Pump 3000 Cleaning Procedures

 **Ramos, Peter** Added a year ago

Overview

Documents

Map

Office 365

Related

 Plant Team

 **Blake, Tony**
Quality Management

 **Franklin, Matthew**
Equipment Specialist+1

 **Ramos, Peter**
Plant Operator



 Equipment Data

Equipment Number	P-3000-N001
Category	M
Description	Electric Pump 001
Status	INST
Creation Date	08/10/2016
Valid From	09/28/2016
Valid To	09/28/2016

 Sub Equipment

E-10004174 - Electric Pump Motor

Manufacturer	Strobel Gerätebau GmbH	Serial Number
--------------	------------------------	---------------

M-3000-N051 - Motor for electric pump,...

Manufacturer	Marlin Electric Inc.	Serial Number
		2009-10-001-MT-400



Handover to operations: Choosing target objects

?

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opentext™ | Extended ECM for Engineering

🔍

★

Enterprise > xECM for Engineering > Programs > Program Troll

Program Troll

OverviewDocumentsProjectsVault

Search Business Objects

Search Equipment

Business Object Type
Equipment

Asset
Add text

Equipment descript.
pumpe

Equipment
Add text

Company Code
Add text

Subnumber
Add text

SearchCancel

	Asset	SNo.	CoCd	Equipment	Equipment description
☐	2109	0	1000	P-1000-N002	ELEKTR. PUMPE 002
☒	2110	0	1000	P-1000-N003	ELEKTR. PUMPE 003
☒	2111	0	1000	P-1000-N004	ELEKTR. PUMPE 004
☒	2112	0	1000	P-1000-N005	ELEKTR. PUMPE 005
☐	2113	0	1000	P-1000-N006	ELEKTR. PUMPE 006
☐	2114	0	1000	P-1000-N007	ELEKTR. PUMPE 007
☐	2115	0	1000	P-1000-N008	ELEKTR. PUMPE 008
☐	2116	0	1000	P-1000-N009	ELEKTR. PUMPE 009

Attach

Handover to operations: Background process

?

Home

^

Handover to Operations initiated

X

Search

Star

Profile

Enterprise > xECM for Engineering > Programs > Program Troll

Program Troll

OverviewDocumentsProjectsVault

Filter

+

Vault

Star

[-]

[i]

Revision request

Handover to Operations

▼

☒		8747-ELEC-EQUIP-C0001.dwg	2	Current	92 KB	11/23/2017 10:59:22 AM		▼
☒		8747-ELEC-EQUIP-C0002.dwg	1	Current	92 KB	11/23/2017 10:59:39 AM		▼
☒		8747-ELEC-EQUIP-C0003.dwg	1	Current	92 KB	11/23/2017 3:06:11 PM		▼
☒		8747-ELEC-EQUIP-C0004.dwg	1	Current	92 KB	11/23/2017 3:06:11 PM		▼
☒		8747-ELEC-EQUIP-C0005.dwg	1	Current	92 KB	11/23/2017 3:06:11 PM		▼
☐		8747-ELEC-EQUIP-C0006.dwg	1	Current	92 KB	11/23/2017 3:06:11 PM		▼
☐		8747-ELEC-EQUIP-C0007.dwg	1	Current	92 KB	11/23/2017 3:07:11 PM		▼
☐		8747-ELEC-EQUIP-C0008.dwg	1	Current	92 KB	11/23/2017 3:07:11 PM		▼
☐		8747-ELEC-EQUIP-C0009.dwg	1	Current	92 KB	11/23/2017 3:07:11 PM		▼

About 60 items

30 per page

1

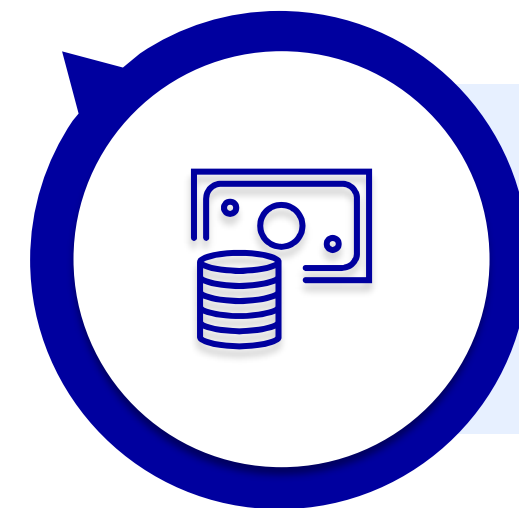
2

Forrester Study - 3 Year Total Economic Impact (xECM) Asset Intensive Industries Network Operations + Engineering Capabilities)



Improved operations and
maintenance
efficiency

+10%



Capital project team
collaboration & handover
efficiency

+25%

Forrester TEI Study Calculator

<https://tools.totaleconomicimpact.com/go/sap/eam-extensions/index.html?extension=openext>

Success Story: Oil and natural gas company



This customer improves control of engineering & asset information, work processes, and risk with OpenText

Challenge

- Poorly controlled engineering information and work processes
- project delays
- increased operations costs
- compliance risks
- decreased/delayed production revenue.

Solution

- create a new document and tag numbering system
- Improve engineering information control and processes
- both in major capital projects and operations

Value

- Efficient control of the management, collection, and distribution of over 2,000,000 engineering records
- ensured high project quality
- kept the project on schedule
- cut transmittal processing time by 50%
- Saved millions in capital project & operational costs
- Reduced collaboration & exchange time & costs by 67%

Global EPC Achieves Revenue Goals and Reduce Penalties with OpenText



This customer improves control of engineering information, work processes and risk with OpenText

Challenge

- underutilized/complex system
- rogue silos
- no single source of truth for 3,000+ engineering projects in 100 countries.

Solution

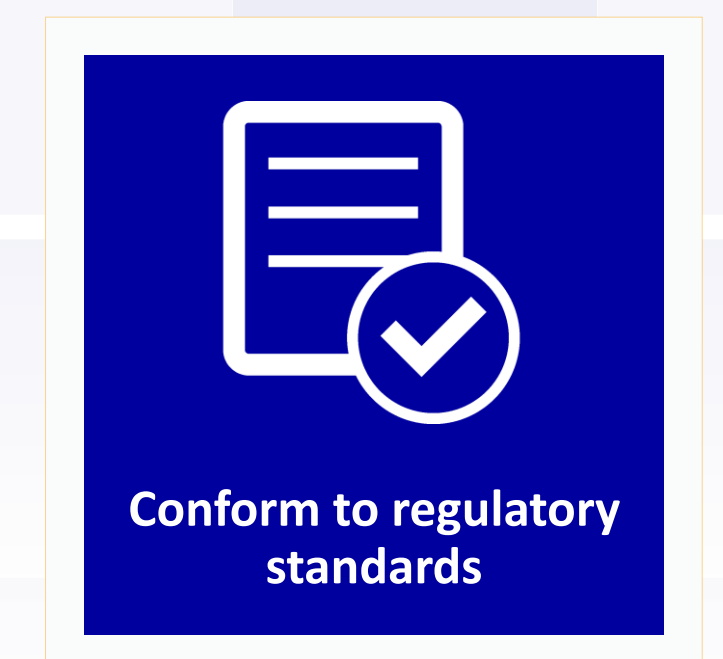
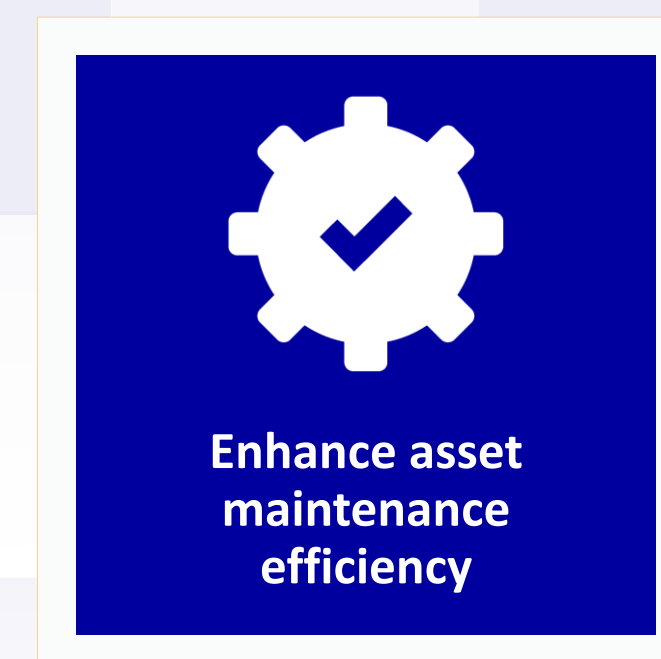
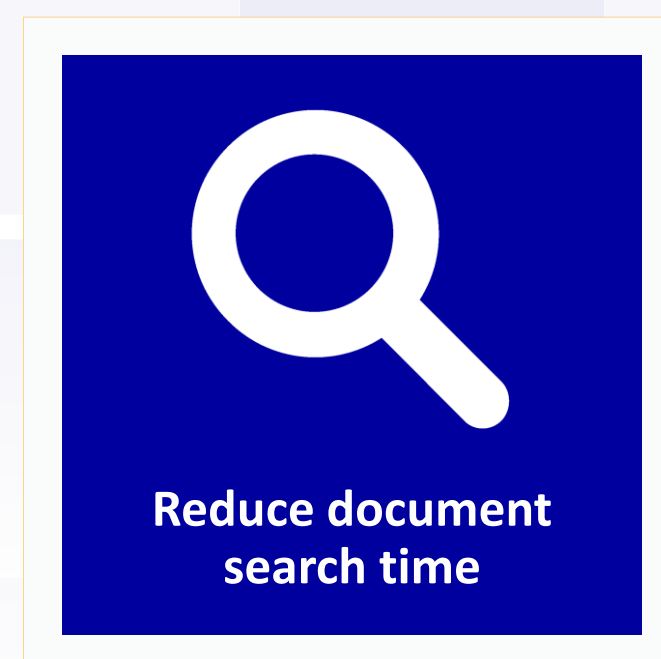
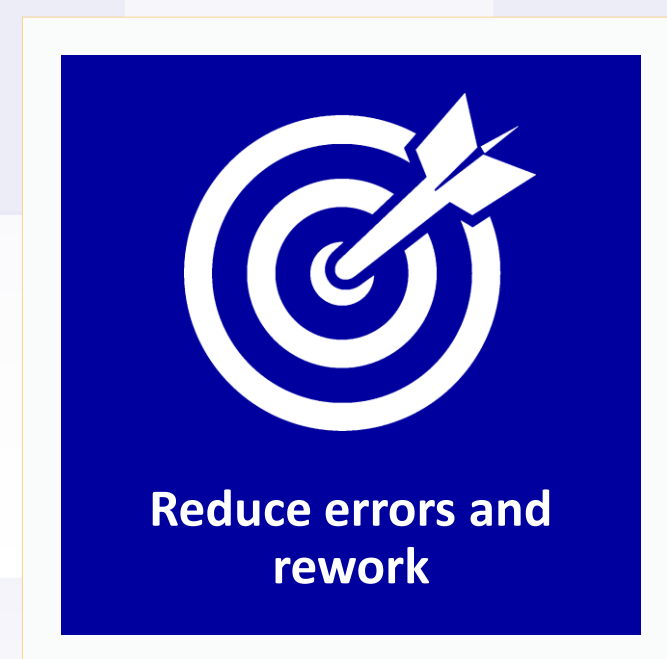
- OpenText is helping control engineering information and work processes
- risk reduction through automation and use of best practices
- Tailored user experience for each department, customer and project

Value

- Reduced project startup from 2 weeks to 2 hours
- accelerated user adoption
- easy collaboration and exchange between thousands of engineers, contractors, suppliers, and owner-operator customers leading to cost reduction in collaboration & exchange time by 67% and cut transmittal processing time by 50%
- ensuring that best practice process and information controls are implemented globally
- delivery milestones are achieved, ensuring consistent revenue streams

Your gain

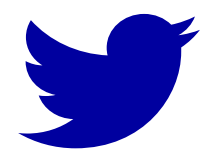
value driven by measurable business outcomes





Thank you

Please contact Folke Hansen, fhansen@opentext.com if you want to learn more!



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linkedin.com/company/opentext

opentext.com