



How Content has Transformed a Technology-Driven Construction Company: Katerra Case Study.

Samrat Sengupta, Sr. Director IT Enterprise Apps, Katerra
Session ID #ASUG83191

About the Speakers

Samrat Sengupta

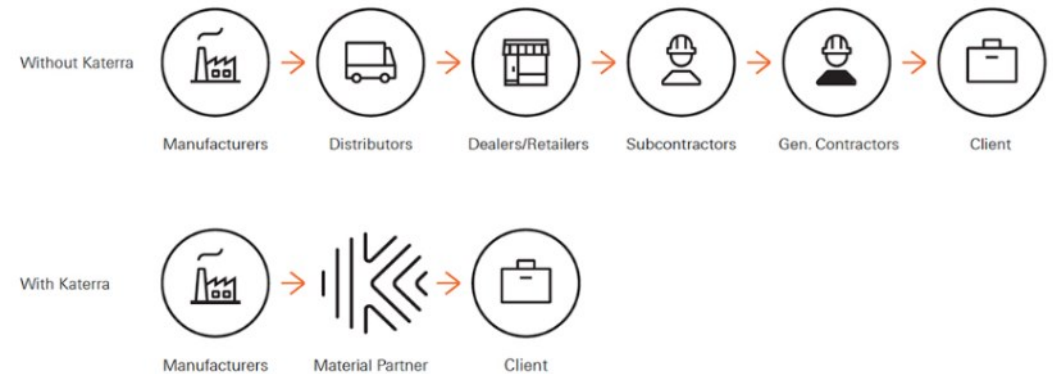
- Sr. Director IT Enterprise Apps
- Kattera
- Senior IT leader with a strong focus on execution, establishing strategic road maps and business partnerships across all enterprise applications. He joined Kattera in 2016 and replaced NetSuite with SAP S/4HANA within 5 months. Prior to Kattera, he was with SanDisk for 9 years and responsible for all large enterprise applications such as SAP, i2, MS CRM, and Agile for supply chain, operations, logistics, and sales.
- On his free time likes to ride his motorcycle

Jaime Gutierrez

- Founding Partner and Chief Architect Officer
- Optima ECM Consulting
- 15+ years architecting (20+ consulting), deploying and optimizing SAP ECM and OpenText solutions for Global clients. Certified SAP Consultant in different technologies, 3 consecutive times recognized as one of the best SAP trainers by SAP Latin America. Frequent speaker at SAP and Microsoft conferences on the topics of Content Management, ILM/Data Archiving, Document Management and Information Governance
- Has been with SAP and OpenText for more than half of his life.

About Katterra

- Founded in 2015
- 5000 Employees
- A technology company at heart, we're applying tested systems approaches from other industries to design and construction.
 - Vertically Integrated
 - Balancing Design Efficiency + Choice
 - Global Supply Chain
 - Factory & Jobsite Integration



What we do

Katerra is an end-to-end building services provider.

Architecture
Interior Design
Engineering
Manufacturing
Building Material
Supply
General Contracting
Skilled Labor
Renovations
Property Management
Software
Intelligent Buildings

Progress

2015

Katerra
Was Founded

2016

Top 25
Multifamily US GC

2017

15 Projects
Broken Ground

2018

700+ Projects In Progress

GC Licensed Nationally

ARCH Licensed

In 31 states + BC, AB

3 Operational Factories

4 Factories in Dev.

Global presence

Asia & Europe

Graz

Neom

Dammam

Riyadh

Jeddah

Dubai

Mumbai

Pune

Bangalore

Lucknow

Hyderabad

Shenzhen

Hangzhou

Shanghai

Hong Kong

North America

Vancouver
Seattle

Spokane

Toronto

Denver

New Jersey

San Francisco
Menlo Park
Tracy

Scottsdale

Phoenix

Dallas

Texas Factory

Guadalajara

- Office
- Engineering Center
- Component Factory
- Future Factory
- CLT Factory

5,000+ Global Team

Katerra Services

Flexible solutions across the building life cycle.



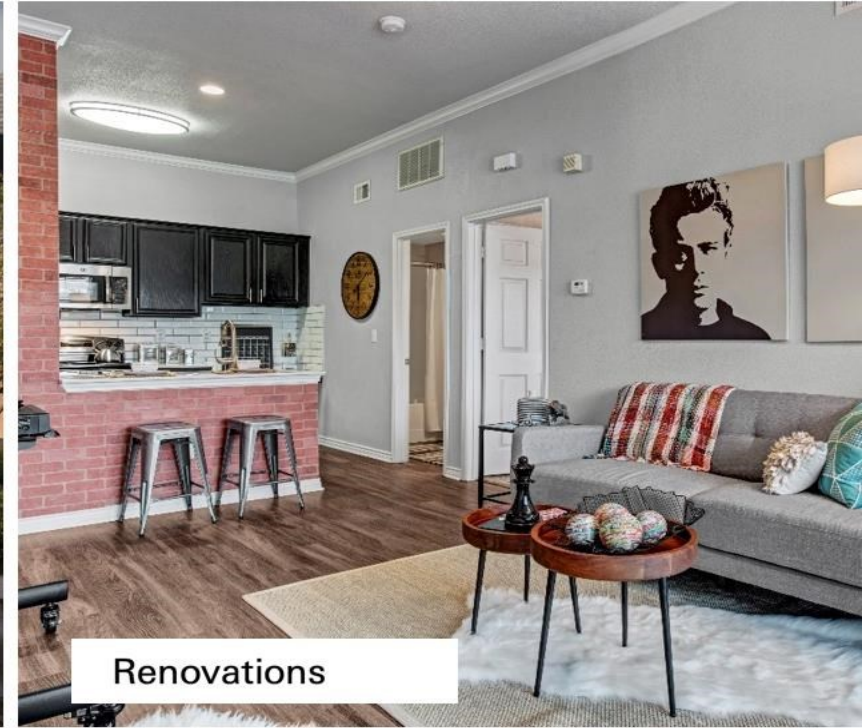
Materials

- **Direct Material Sales**
- Curated catalog of structural components, finish items, and kitchen & bath products
- Management of all logistics, including delivery and installation



New Build

- **End-to-End Services**
- Fully-integrated delivery of building projects, including design, materials procurement, manufacturing, and construction



Renovations

- **Renovation Services**
- Fully-integrated renovation services for multifamily market rate, affordable, commercial, and retail markets

Market Experience

Multifamily

Senior Living

Student Housing

Masterplan Development

Commercial

Hospitality

Education

Industrial

Retail

Hospitals

Schools

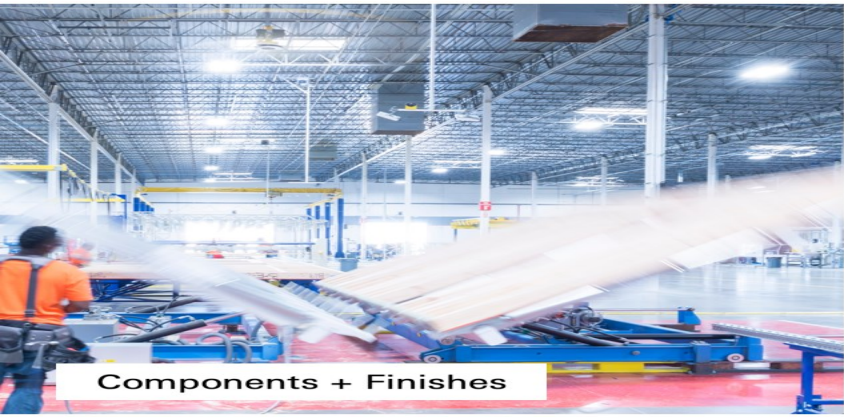
Malls



Complete material expertise



Robotic Manufacturing



Current IT portfolio

Enterprise Applications & Data	Manufacturing Applications	Design & Construction	Collaboration Stack	Infrastructure & Security	Web
Arena PLM	CAD (Various)	Revit Architecture	Zoom Voice / Video	AWS Application Hosting	Adobe .com
SAP ERP & BW	CAM (Various)	Innovaya Material Takeoff	Box Document Management	AWS Virtual Desktop	Adobe Catalog
MS-Dynamics CRM	Factory Quality App.	HCSS Estimation	O365 Suite Email, Security	CrowdStrike Anti-Virus/Malware & APT	SAP Hybris B2B for Materials
EDI-Dell Boomi	Service-Now Asset and Facility Mgmt. & Maintenance	Navvis Clash Detection	Skype Chat	Cisco Networking	External Account Management
SAP Ariba Contract/Sourcing	SAP MES / MII	P6 Scheduling (New Infra.+ Mobile App.)	Sharepoint Intranet	Firewalls Palo Alto Network	Project Portal
SAP Warehouse Management		Onsite Inventory Receiving	Service-Now Incidents & Service	SIEM Security & Infra Monitoring	
Mobility-Fiori		SAP Visual Enterprise	ADP-HR Integration	Nasuni File Management	
SAP-OpenText Content Mgmt.			OneLogin Single Sign-On		
SAP – Financial Planning					
TMS (Process Weaver)					

Industry Best-in-class Solutions & Platforms

Legend:
■ Implemented
■ Being Implemented
■ Evaluation

Current IT Applications roadmap

Master Data Governance – Customer, Product, Project & Workforce				
Construction Project Scheduling – P6/SAP Integration with Katerra Construct	Corp. Functions ERP – SAP Marketing (AEM) MS CRM – Lead and Oppt Engineering (TBD)		Materials ERP – SAP Quote Supplier Lifecycle(Ariba) WMS Factory(SAP)	
	HR Solutions (Workday) AP Invoice Imaging and Workflow(Open Text) Financial Planning (SAP)		PLM (Arena) EDI(AVC->SAP) Customer Ordering Portal(Hybris) Transaction Document management(Open Text)	
Architecture & Design Project Time(Ajeera) Project Billing - SAP	Other Business Units Lighting - ERP – SAP Construct Corp. – GL Trail Balance - SAP		Factory Factory Automation SAP –ME/MII Factory Time & Attendance (Acumen) Production Order	
	UR – GL Trial Balance - SAP Int'l Sites - India			
Mobility - Fiori				
Reporting – Dashboard/ Visualization(Tableau)				
Business Intelligence & Data Analytics				
Identity Mgr. (Microsoft Azure AD) - Authentication & Security				
Enterprise Collaboration – Intranet (SharePoint)				
Adobe Experience Manager - External Websites				
Enterprise Content Management-Open Text				

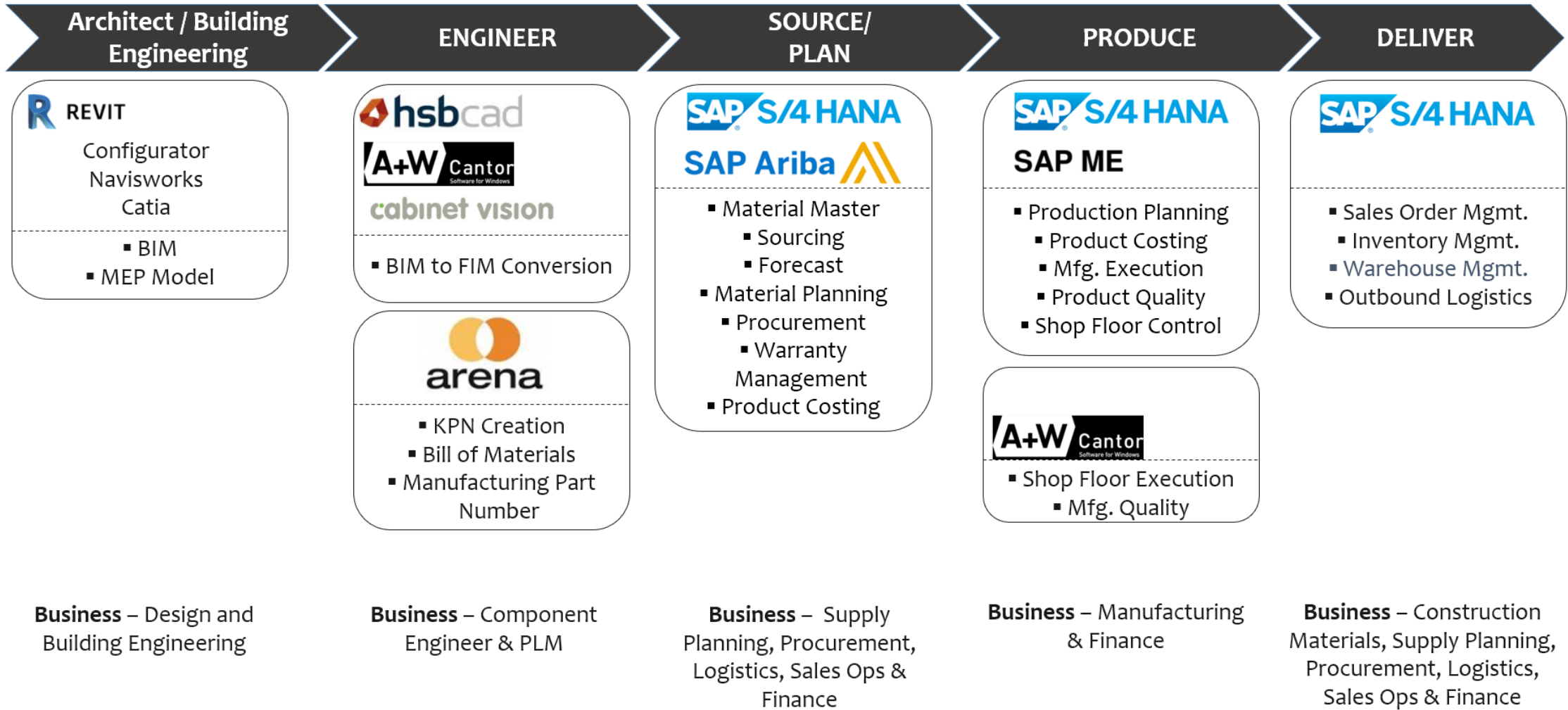
Completed

In-Flight

FY18 2H Priority

Future

Value Chain and System Architecture Overview



Our Journey on S/4HANA

2015



Katerra
Was Founded

2016



 **NETSUITE**

2017





2018



SAP Ariba 

SAP ME

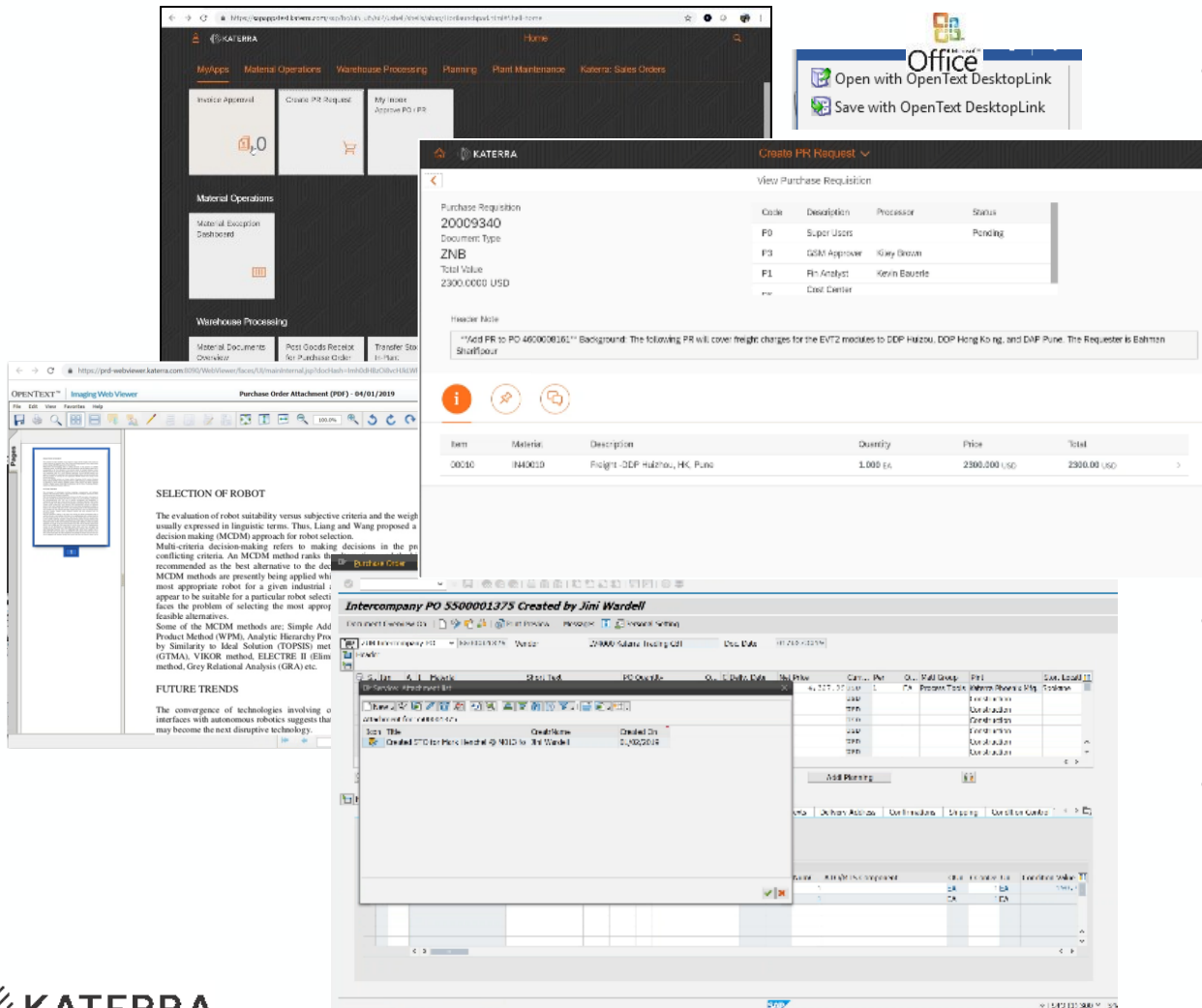


opentext™

What Drove the Need for OpenText

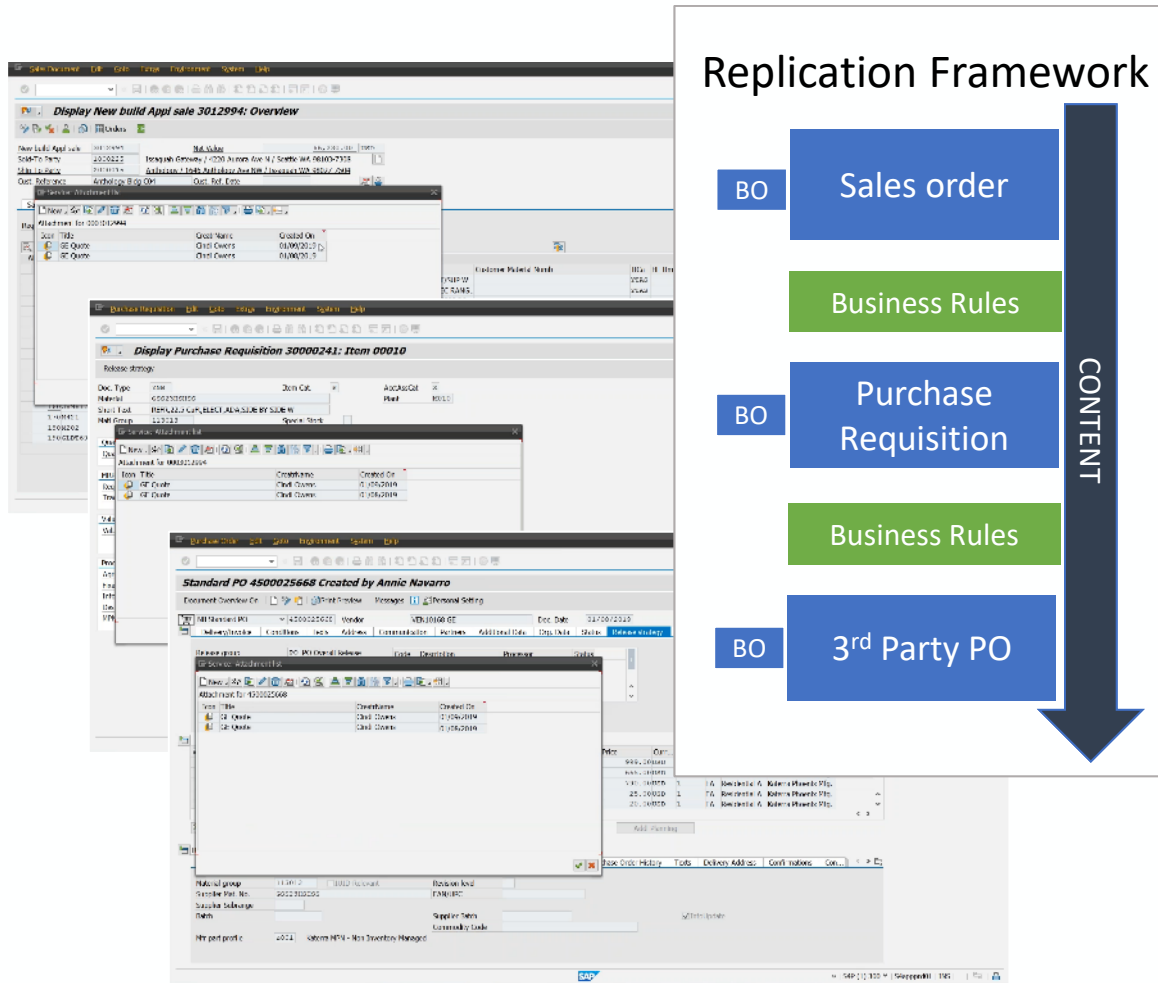
- Attaching content across almost all SAP transactions
- Ability to download all attachments from different SAP Objects at once
- High volume of expenses without POs that should get directed to our customers to get paid
- Automation of the AP process with a Workflow-Based tool that integrates content

Content integration in Business Processes



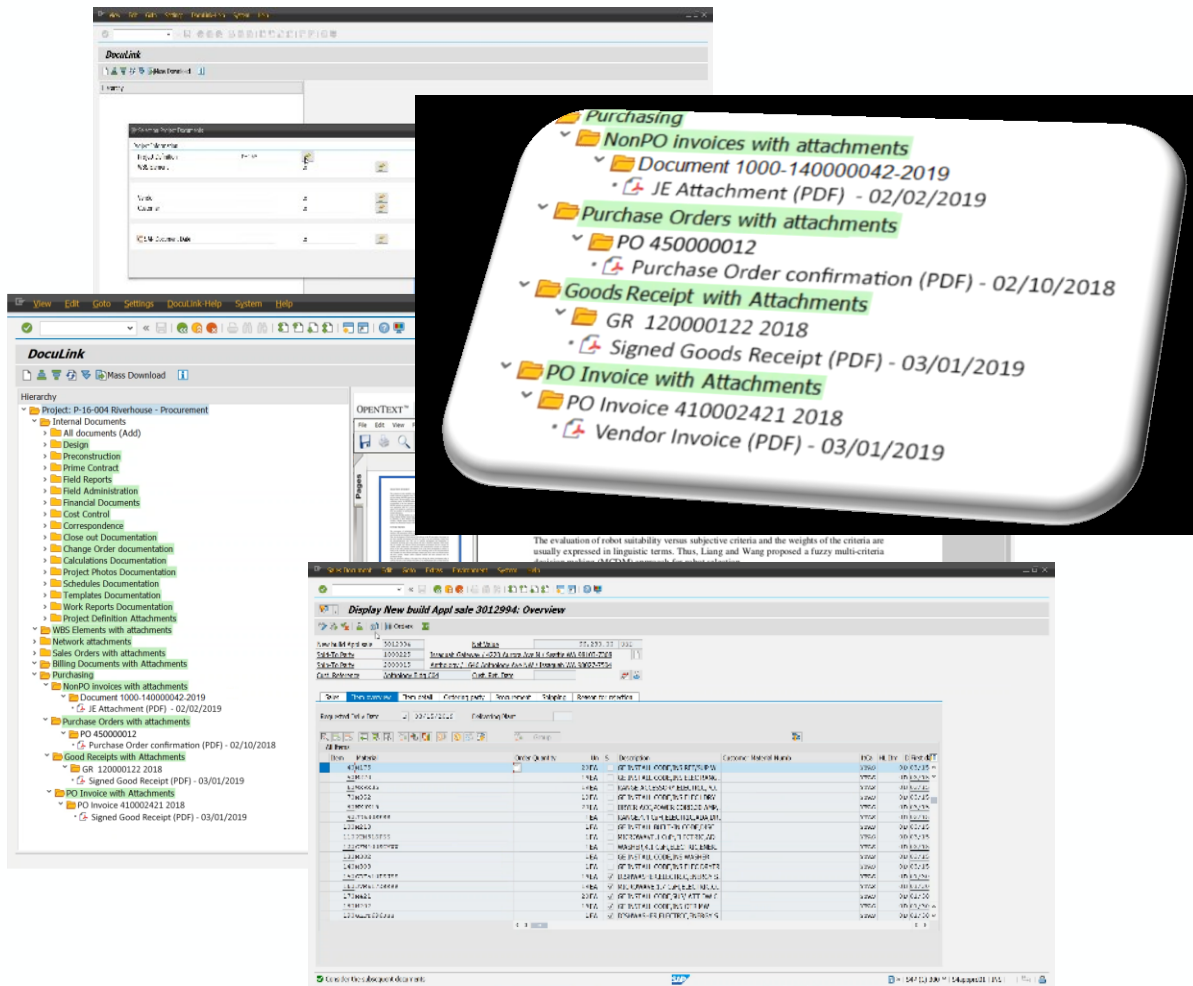
- Migration of **100k** attachments from SAP Office (SAP DB) to OpenText Archive Center
- Ability to handle attachments on more than **(15)** fifteen S/4 HANA Business Objects via SAP GUI or Launchpad / Fiori UI
- Integration of MS Office Suite for document creation
- Creation Attachments from **Fiori Apps**

Content flow through Business Processes



- Automated replication of attachment-linkage between SAP objects based on business rules
- Implemented scenario for Purchase Requisition to Purchase Order attachment replication
- Implemented scenario for Sales Order to Purchase Requisition attachment replication

360-degree View of Content in Context for Construction Projects



- Ability to search, browse and display content spread along +15 S/4 HANA business objects based on individual construction projects
- Mass-downloading of multiple documents from different Business Objects at once

AP automation with Vendor Invoice Management (VIM)

Process PO Processing VIM 7.5 - 00000000009

Process Options for PO AP Processor - Document Processing

Change Doc Type	Change Document Type
Post Goods Receipt	Post Goods Receipt
Post Invoice	Post PO Invoice
Post Invoice	Post PO Invoice
Apply Rules	Apply Business Rules
Start Approval	Start Approval Process
Restart Process	Delete Existing Document and Restart Process

Vendor Data

Vendor Number	VEN10075
Vendor Name	ACH Vendor 01
Name 2	
BWH	
SWIFT code	
Street / House No	01110 St
Post Code / City	94109-8219 San Fran

Recipient Data

Company Code	3000	BestRun USA
Street / House No	1230	Lincoln
Post Code / City	10019	NEW YORK

Invoice Approval

Inbox (1)

Search in Due Date

10010364243	632.54 USD
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10010364243 632.54 USD

Due Date: 05/09/2019

Name: HD Supply Construction Supply, LTD

Invoice Data History Documents

Credit Memo Indicator: Invoice

Net Amount: 578.72 USD

Document Date: 04/09/2019

Vendor: VEN10075

Company Code: 1040

DP Doc ID: 44535






Cost Assignment (1)

Invoice Item	Text	Item	Purchasing Document	Quantity	Amount

Approve Reject Inquire

- Streamlined the AP process for invoice processing
- Automated email processing for Vendor Invoice ingestion
- OCR integration for invoice recognition

Project Highlights

- Applications**  S/4HANA
SAP Document Access by OpenText
SAP Vendor Invoice Management by OpenText
- Scope**  Phase #1: Migration SAP Office to OpenText Archive Center – Automatic replication of content links – Mass download of attachments - Bringing content from mobile applications
Phase #2: Implementation of Vendor Invoice Management with OCR capability
- Grow Digital**  New business architecture
Big step forward in the right direction, and more improvements are still to come
- Partnership**  High consultative value and trusted advisor throughout the transformation journey
Strong engagement, extensive knowledge and expertise helped the Katerra team to deliver a successful Go-Live
- Change Management**  Lead change with process, not technology
Build change coalition and communicate

Lessons Learned

1. Having the business paying attention to the approval workflow and have the approvers involved early on to have them approve invoices in the test system
2. On the hardware, there are some setups needed on the laptop/desktop is a prerequisite and so it's a good idea to not assume all user laptops would have those setups.



About Optima ECM Consulting

90%+



On Time and on Budget Projects

90%+



Client Satisfaction

350+



Completed Implementations

3



Global Offices
US, Mexico, Spain

250,000



Hours of Quality Services Delivered

35%



Progressive YOY Growth Rate

Optima is an EIM thought leader focused on helping our clients achieve their goal of becoming an **Intelligent Enterprise**.

Our focus on Process Optimization with best of class solutions has resulted in our clients' achieving process excellence.

We are an SAP:

- ✓ Services Partner
- ✓ Sell Partner
- ✓ Consulting Services Partner



Key Outcomes & Benefits

1. Invoice approval processing time reduced by 70%
2. Content was moved to OpenText Archive Center in S/4 HANA
3. No need for local clients to view documents (OpenText Web Viewer)
4. Mass download of attachments



Looking Ahead

Implement SAP Extended ECM by OpenText to:

- Single repository for all content and collaboration
- Scalable solution seamlessly integrated with SAP
- Apply Records Management

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Presentation Materials

Access the slides from 2019 ASUG Annual Conference here:

<http://info.asug.com/2019-ac-slides>

Q&A

For questions after this session, contact us at [email] and [email].

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