

GenAI for Backoffice Transformation

Source to Pay

” In many companies, Backoffice processes are still not optimized. AI and GenAI can dramatically transform Backoffice operations. ”

Source-to-Pay (S2P) is at the heart of many enterprises...
but in many organizations is still manual, prone to errors, and not efficient



Sourcing issues:

- Limited tools for reviewing contracts
- Long contract finalization
- Manual T&Cs assessment
- Lack of CLM systems
- Limited contract standardization
- Complexity of terms
- Difficulty comparing RFI and RFPs
- No workflow, email-based process
- Issues tracking contract versioning

Purchasing issues:

- No standard purchasing system
- Limited coverage /suppliers
- Significant tasks outside system
- Poor user experience
- Limited customization possible
- Lack of integration across tools
- Long process cycle times
- Significant SW annual costs

Payables issues:

- No standard AP system
- Limited electronic invoices
- Limited accuracy from OCR (<50%)
- No line-item extraction
- Limited 2/3-way matching automation
- Manual processing of non-PO Invoices
- Manual routing for exceptions
- High cost per invoice
- Low number invoices/FTE per year
- High volume of suppliers' calls/tickets
- Duplicate payments, payments delay



System Fragmentation



High Complexity



Significant Volumes

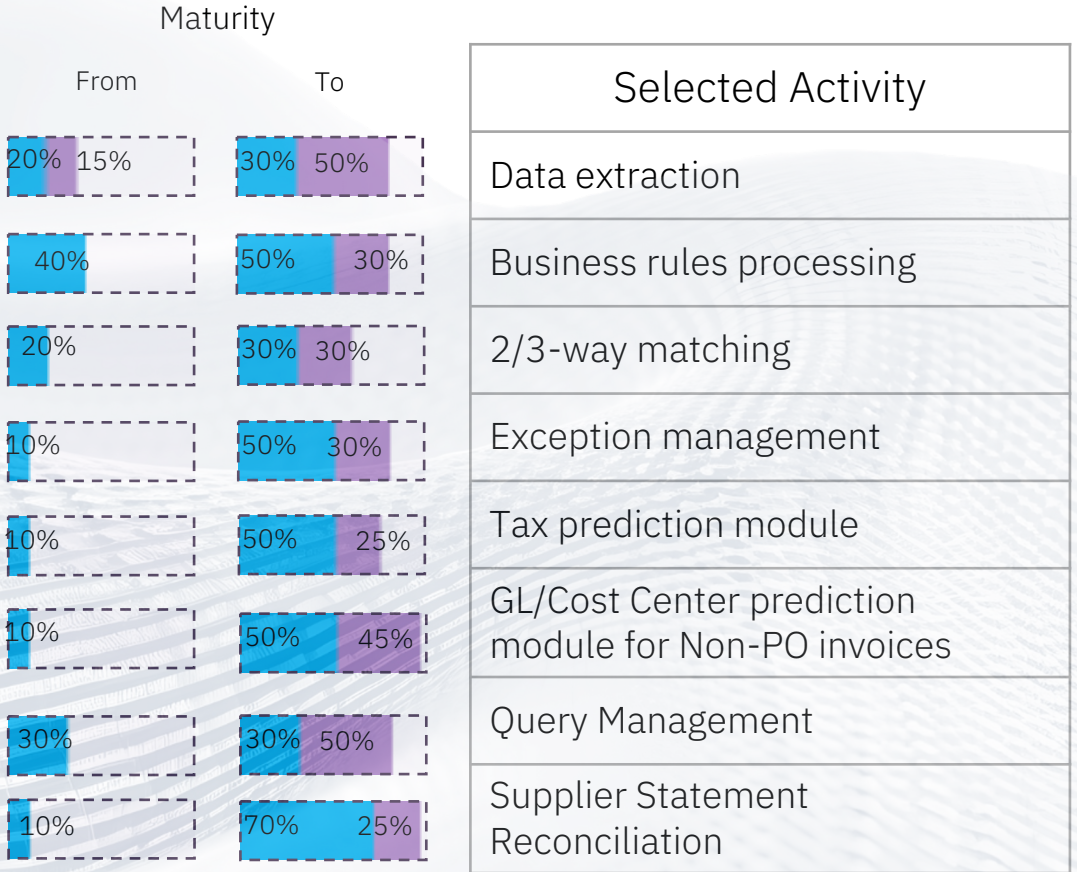
Streamlining, digitizing, and automating Source-To-Pay can drive significant benefits

Automation | AI & GenAI | Manual

Source-to-Contract and Procure-to-Receive



Invoice-to-Pay and Supplier Lifecycle



Introducing IBM Intelligent Workflows for Source to Pay

Our world-class open & configurable platform to streamline, digitize and automate invoice processing and enhance finance & procurement activities

Immediately drive productivity

Automate and streamline repetitive tasks
Allow upfront digitization and reduce errors

Increase end-to-end spend visibility

Overcome system fragmentation
Provides insights to improve decision making

Improved user experience

Orchestrate work between people-tech
Enhance collaboration with Suppliers

Allow significant cost reduction

Reduce cost per invoice and processing time
Lower total cost of ownership

Improve governance & compliance

Allow end-to-end tracking of the processes
Strengthen compliance and controls



Introducing the
IBM and Microsoft
co-created
Source to Pay
platform

Up to:

50%+

Operating
Cost Reduction

70%+

Cycle Time
Improvement

95%

Touchless
Transactions

95%+

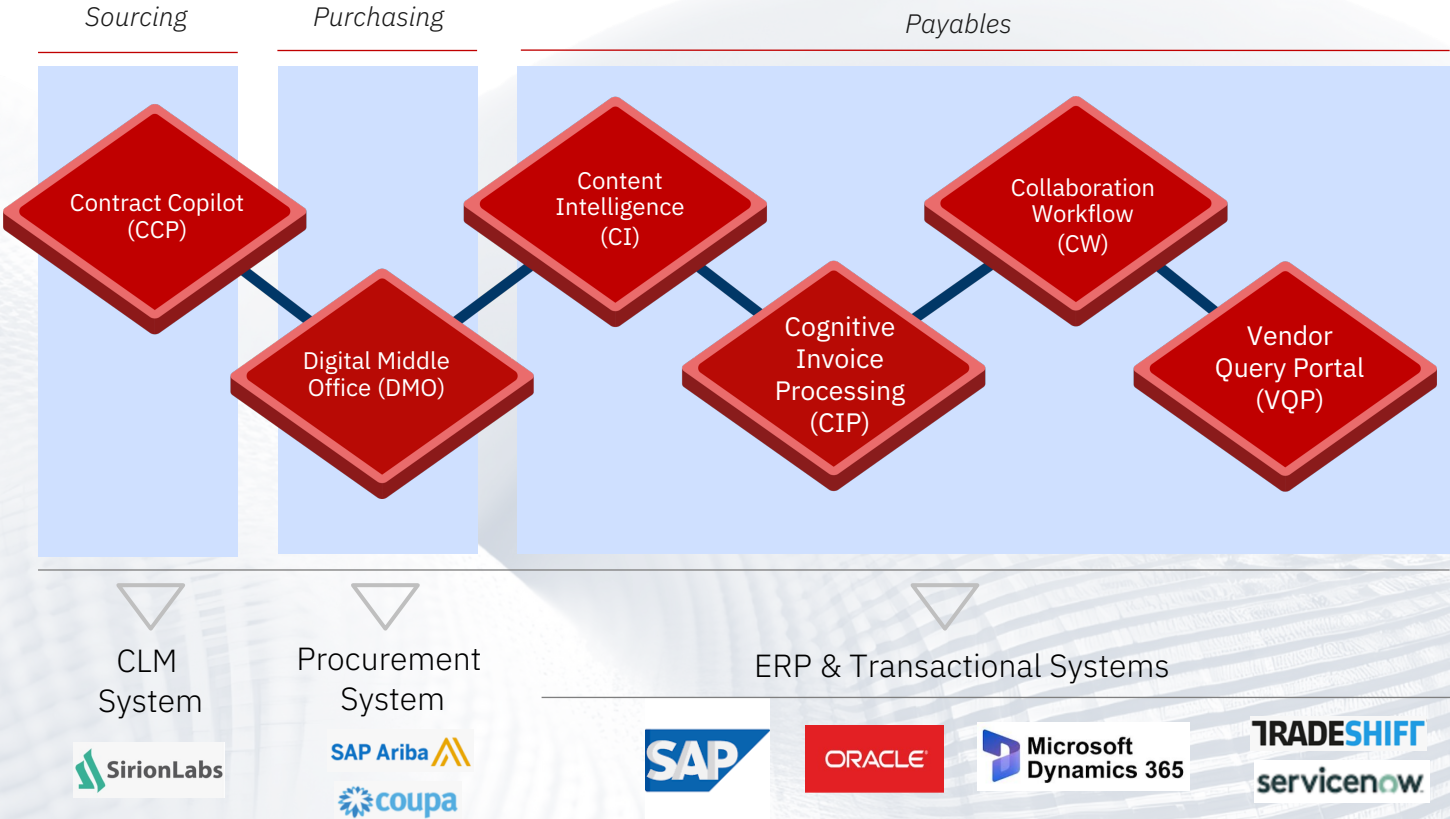
Payment on
Time

<\$2

Cost per
Invoice

IBM Intelligent Workflows for Source to Pay (S2P Platform)

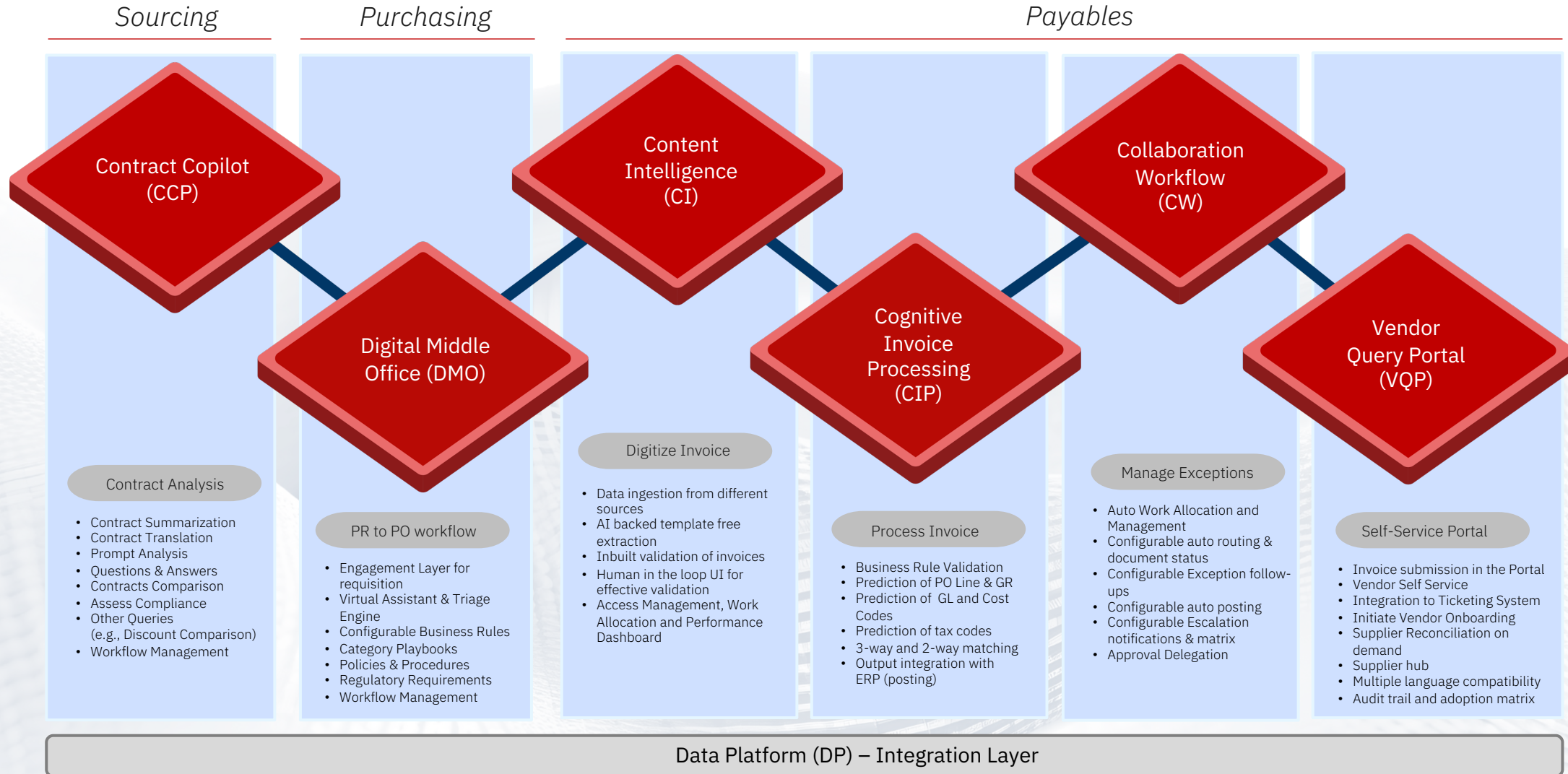
IBM world-class open & configurable platform to streamline, digitize and automate invoice processing and enhance finance & procurement activities



- Co-built with Microsoft and IBM BPO Team
- Completely modular, with 300+ state-of-the-art features
- Most advanced tech in AI, GenAI, Automation & Analytics
- Enhances, does not replace ERP and transactional system, based on ERP clean-core vision
- For BPO or transformational projects

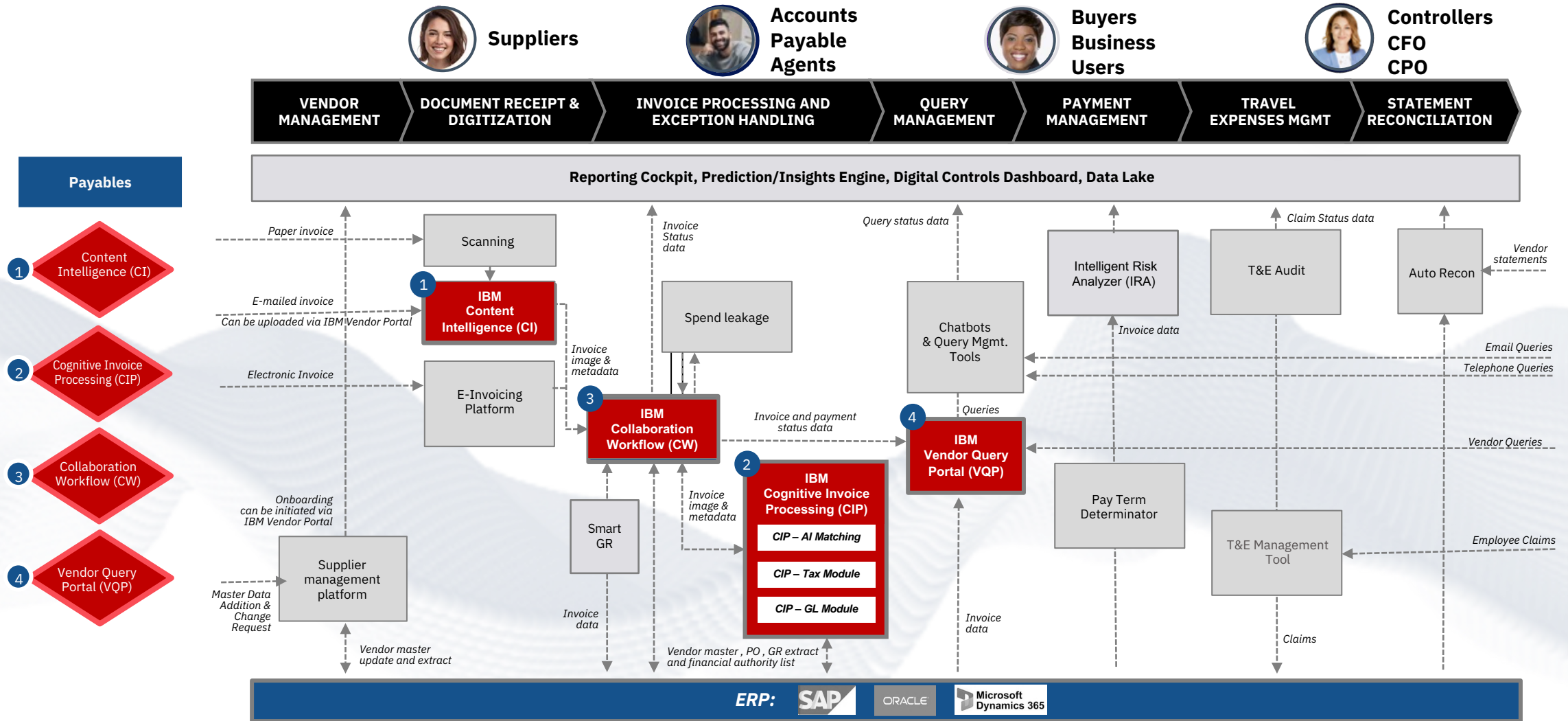
IBM S2P Platform

Six Modules, with over 300 state-of-the-art features powered by AI, GenAI and Automation



Its modular design enables deployment in any client environment

Illustrative: Invoice to Pay



Enhancing S2P: a major concern for many companies



Challenges:

- Sub-optimal process with redundant steps across processes and resources overhead
- Lack of efficacy in managing operations, with increasing running costs
- Fragmented data from multiple suppliers

Solution:

- Complete invoice process automation back by AI and OCR technology, leading to 95% touchless transactions and a 66% reduction in headcount
- Decreased cost per invoice by 50% and reduced cycle time by 80%



Challenges:

- Manual invoice processing with human intervention at each stage of the process
- Manual entry of tax inputs
- No easy way to manage and track invoices at each stage of the process
- Increased invoice receipt-to-posting timelines due to the manual nature of the process

Solution:

- Autonomous invoice processing
- AI engine to produce GL and Tax Code prediction based on history and AI algorithms
- Dashboarding and data insights to easily manage invoices throughout the entire process
- Reduces invoice receipt-to-posting timelines due to process automation



Challenges:

- Low-levels of automation throughout the entire invoice process life cycle
- Lack of capabilities in handling invoice exceptions causing high levels of human interaction
- Geographical availability of processing tools for global enterprise needs

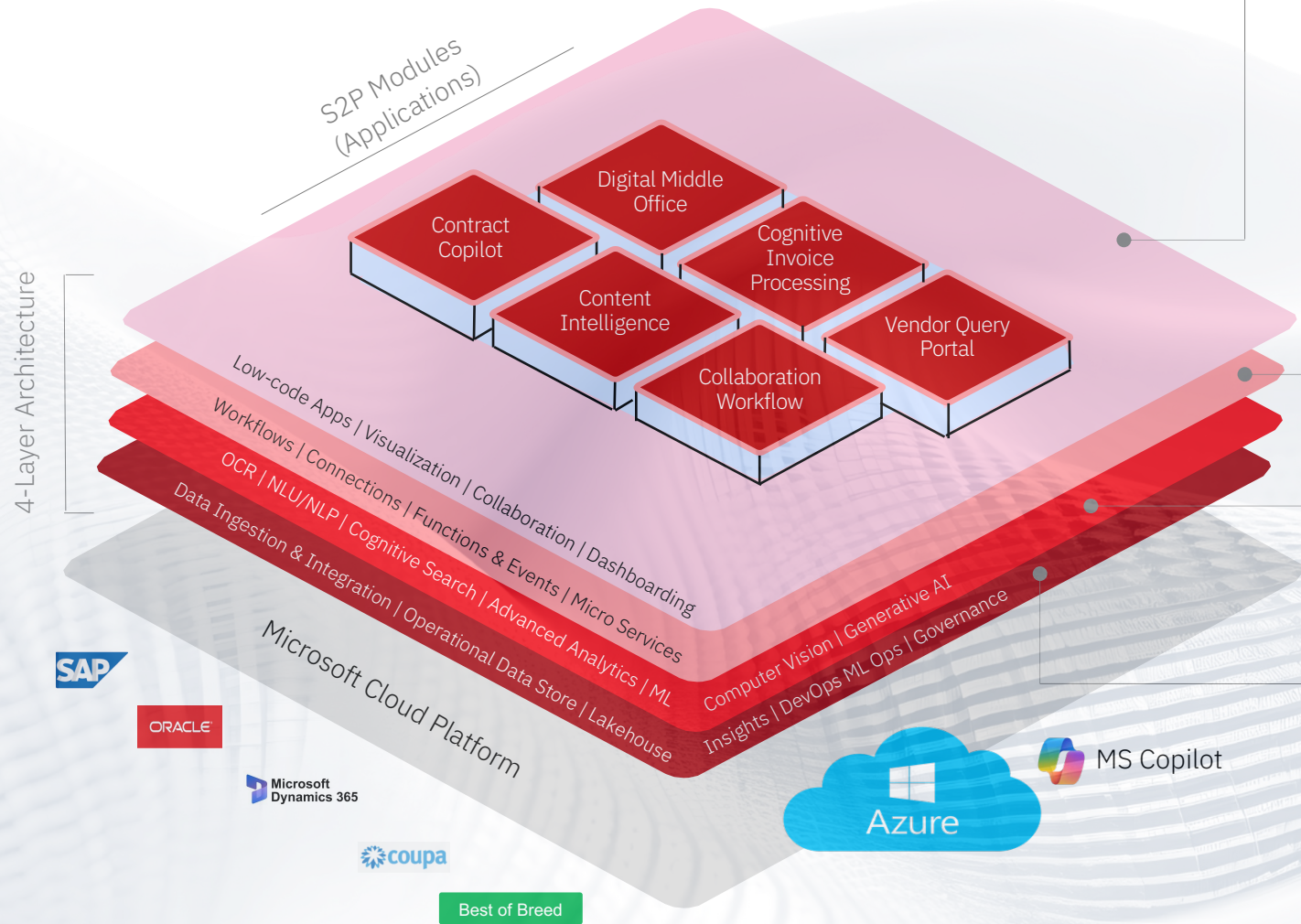
Solution:

- Extreme automation leveraging Gen-AI and OpenAI's LLMs for highly accurate invoice processing
- Reduces manual effort and invoice processing by 20% and significant Cost-Per-Invoice reduction.
- Global deployment with extensive language support to enable processes and automation across the organization



Co-built with Microsoft

IBM Consulting Applications based on MS & 3rd Party Products



User Experience Layer

- S2P Application UI, Experience, Process Functionality. A consistent Power Apps + React & Angular user experience



Intelligent Workflow Orchestration Layer

- Top Level Orchestration Flow development from ingestion to calling specific services
- A low code workflow layer based upon MS Power Platform to easily configure & orchestrate invoice processing workflows as well as enable new ones



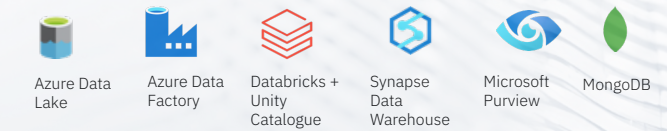
AI-ML Layer

- A collection of pre-packaged AI and Automation capabilities such as the invoice processing model to accelerate implementation and significantly reduce training time
- Integrated OpenAI capabilities to drive higher accuracy of extraction and enable future Co-Pilot use cases



Data Layer

- A modern Data Platform that integrates operational and analytical data from ERP as well as non-ERP
- API layer and Prebuilt connectors to enable batch and event-based integration with SAP



How to start: Rapid Process Discovery

Data Gathering & Design Thinking Workshop (Elapsed: 1-2 Weeks)

Information about S2P process, pain points, KPIs and volumetric data, System Landscape, Invoice Analysis

Availability of S2P stakeholders (Process Owners/ SMEs, IT application owners etc) for workshop / discussion

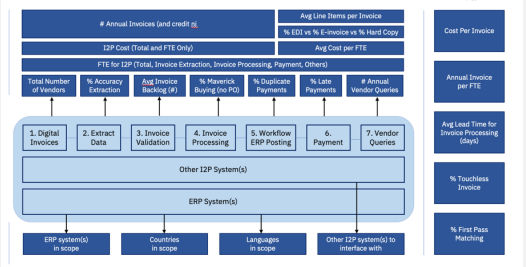
Final Report

- Final Report Preparation
- Business Case
- Final Presentation

Availability of S2P stakeholders (Process Owners/ SMEs, IT application owners etc) for workshop / discussion

Data Gathering

1. KPI And Volumetric Data

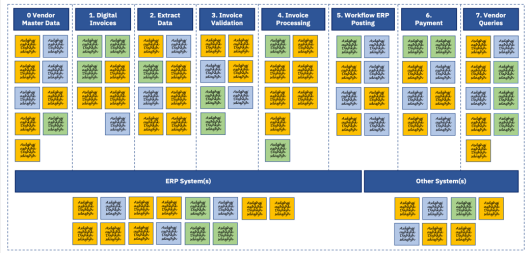


2. Documents Analysis

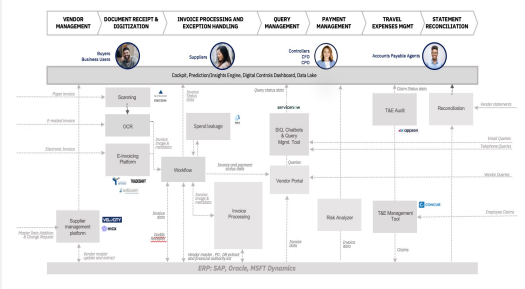
| ERP SYSTEMS | NUMBER OF INVOICES | | | |
|-------------|--------------------|-----------|-----------|-------|
| | Country a | Country B | Country C | Total |
| JDE | XXXXX | XXXXX | XXXXX | XXXXX |
| BU 1 | XXX | XXX | XXX | XXX |
| BU 2 | XXX | XXX | XXX | XXX |
| SAP ALFA | XXXXX | XXXXX | XXXXX | XXXXX |
| BU 3 | XXX | XXX | XXX | XXX |
| SAP BETA | XXXXX | XXXXX | XXXXX | XXXXX |
| BU 1 | XXX | XXX | XXX | XXX |
| BU 3 | XXX | XXX | XXX | XXX |
| Total | XXXXX | XXXXX | XXXXX | XXXXX |

Design Thinking Workshop

3. Process Pain Points

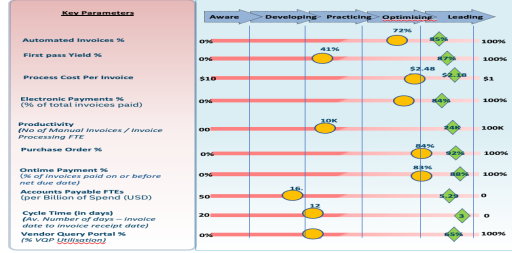


4. System Landscape

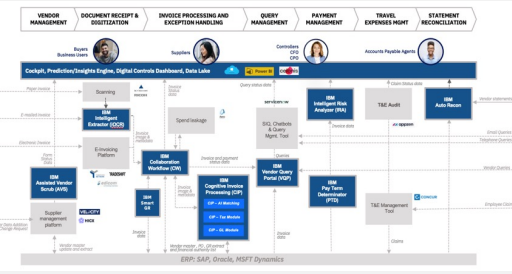


Deliverable

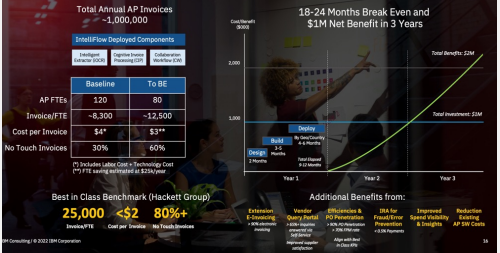
Benchmarking



Proposed System Landscape



High Level Business Case



- Debrief report on qualified S2P sub-processes with automation opportunities
- High level solution recommendations with technology interventions to automate prioritized S2P sub-processes

Three Elements of Innovation of our S2P Platform

Next-Gen S2P Digital Solutions



Leverage AI, GenAI and Automation

- Improve accuracy and touchless operations, enhance user experience, and reduces costs
- Completely modular and open, with 300+ state-of-the art features
- Include a collection of pre-packaged AI and Automation capabilities from Microsoft
- Co-developed with IBM BPO SMEs and deployed in multiple clients thanks to S2P Global CoE

Co-Developed with Microsoft



IBM IP on Microsoft Azure, Open AI & Power Apps

- Exclusively available on Microsoft, only with IBM
- Published on the Microsoft Solution Marketplace
- No additional software required, leverage existing investment with Microsoft
- Scalable for other user cases in Finance, Procurement, HR and more

Based on ERP clean-core vision



Extend and innovate ERP core with differentiated business capabilities and new insights

- Provides orchestration layer of intelligent workflows on top of existing ERP environments
- Decouple the core ERP system with a pre-built data platform to “extend and innovate”
- Provides low-code capability based on Power Platform, to rapidly expand to other use cases

Appendix (do not share with Clients)



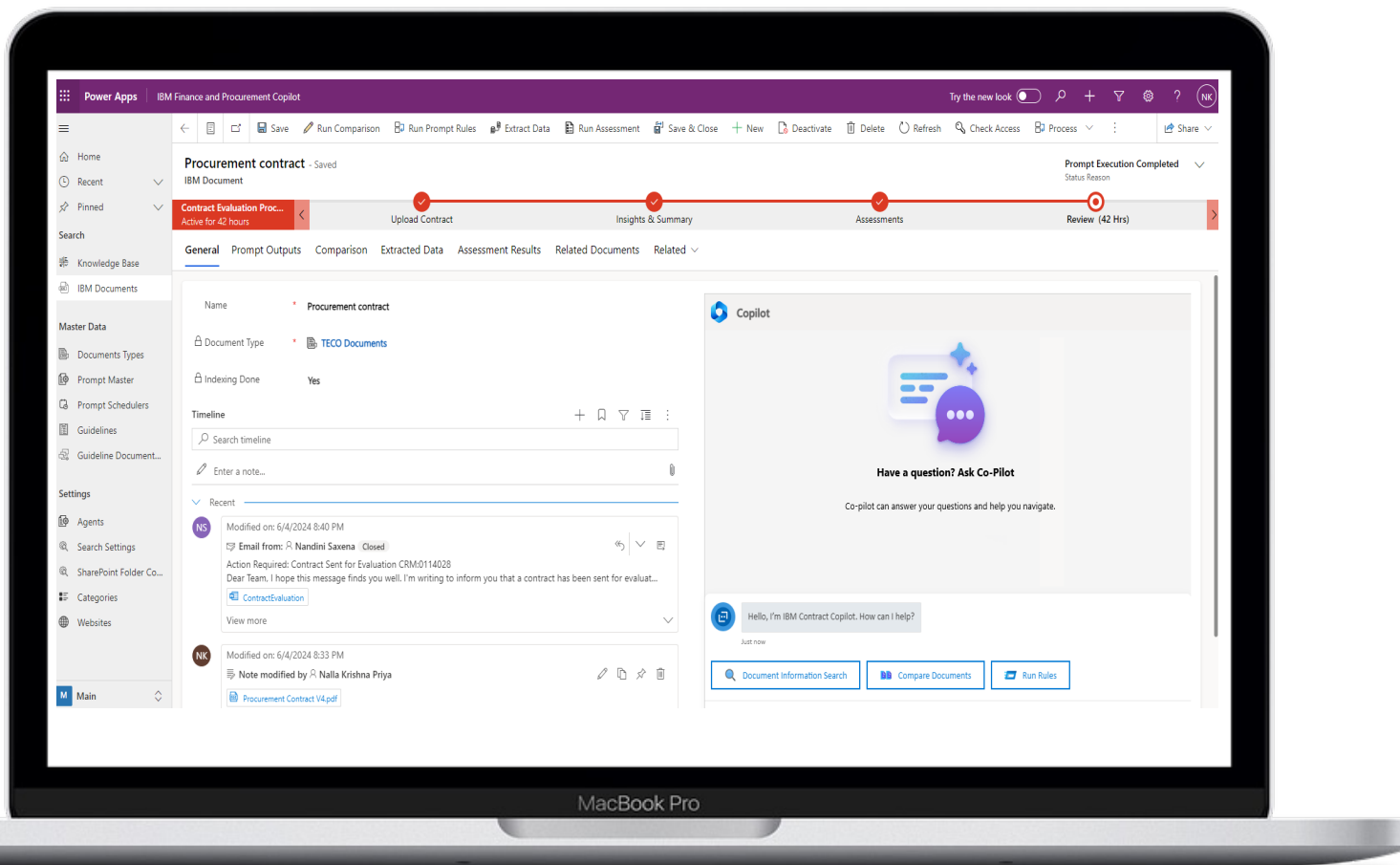
Contract Copilot (CCP)

Built with Azure Open AI and Power Platform to enable Procurement & Legal departments to extract valuable insights from contracts and streamline contract management processes

Up to **85%** Reduction in time spent reviewing contracts

40% Reduction in Human Error Related Liabilities

- **Ingest Contracts** from the user interface or automatic workflow
- **Summarize, translate, compare** contracts and different versions
- **Intelligent chatbot** to respond to queries ‘on the fly’
- **Prompt master** to execute relevant prompts based on document types (contract review checklist), with flexible scheduling options
- **Conduct thorough assessment** of contracts in alignment with established guidelines to identify deviations or discrepancies
- **Generate reports automatically**, including Summary, Insights, and Assessment Results.
- **Automatically send emails** to the appropriate users or teams based on predefined configurations.



Digital Middle Office (DMO)

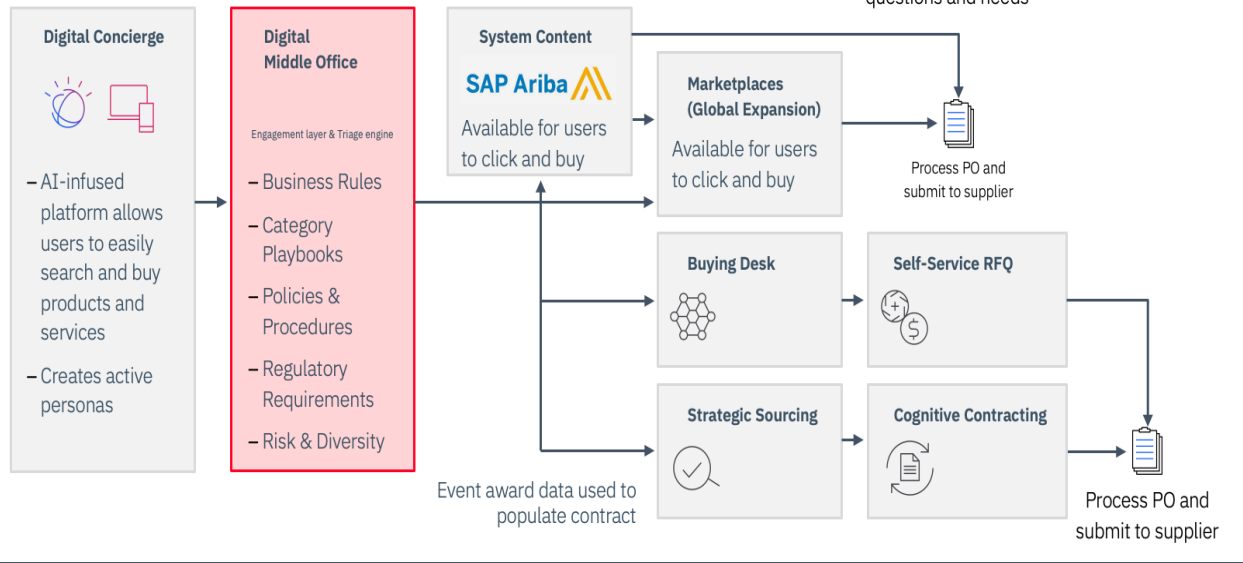
Re-engineer workflows and deploy AI across the enterprise to gain intelligent insights, reduce cycle time, and modernize the user experience

Illustrative example for Source to Pay

User-friendly, social, automated experience that today's users expect

Enable frictionless process by eliminating manual touch points and disparate processes

A unified experience, seamless engagement, and one stop for all questions and needs



- Lin**
Purchase Requestor
- Alexis**
Procurement Specialist
- Daniel**
Budget Owner/Approver
- Priya**
Business Function Leader

- AI-infused platform allows users to easily search and buy products and services
- Enable frictionless process by eliminating manual touch points and disparate processes
- Creates a unified experience, seamless engagement, and one stop for all users' questions and needs

Up to **70%** Reduction in cycle times **60%** Reduction in manual activity **+50%** Managed spend through automatic channels

Content Intelligence

Extract, validate and digitize information from invoices and documents, using OCR, GenAI and Machine Learning to radically shorten processing time, improve accuracy, reduce cost and increase data visibility.

The screenshot displays the IBM Content Intelligence user interface. The top section shows a document being processed, with a header count of 24 and a document type of CNPO. The document itself is an invoice from ABC Company, dated 15 MAR 2022, with an invoice number of INV-3637. The interface includes various filters and sorting options, such as 'Region' (High), 'Country' (High), and 'Company code' (High). Below the document view, there is a dashboard with several charts and tables. The 'Source vs Received documents' chart shows 75/100 documents. The 'Document status' chart shows 826 documents with a breakdown of Completed (200), Pending (400), Rework (200), and Not assigned (26). The 'Urgent documents status' chart shows a breakdown of Pending and Completed documents. The 'My Documents Indexed' chart shows 370 documents with a breakdown of Completed and Pending documents. The 'By aging' chart shows a breakdown of documents by aging period: Less than or equal to 1 (3), Less than 1 day or greater than equal to 2 days (2), Greater than or equal to 3 days (823), and Not available (0).

- Multichannel ingestion
- Pre-trained template-less extraction, 40+ fields, 6 doc type
- Header and Line-item extraction, using AI and GenAI models
- Confidence score and autocompletion (Touchless)
- Inbuilt validation rules, and configurable validation rules
- Human in the loop UI for effective validation and edits
- Access management, work allocation & dashboarding

Up to **99%** **40** **75%**
Extraction Accuracy **Languages Supported (*)** **Reduction Handling Time**

Cognitive Invoice Processing

AI-powered tool for extracting relevant data from invoices and validating it against predefined rules and vendor information. Enabling fast and efficient processing of invoices, reducing manual errors and increasing overall productivity.

The screenshot displays the IBM Cognitive Invoice Processing interface. It features a top navigation bar with 'Workflow' and 'Administration' tabs. Below this, there are sections for 'All Documents', 'Workbasket', 'My Worklist', and 'Task Management'. The main content area is titled '< All Documents / Document Details' and includes a status bar with 'Assigned to Unassigned', 'Status Waiting Clerk Action', 'Reason Document sent back to Clerk', and 'Additional Please process the document with PO.'.

The interface is divided into several panels:

- DOCUMENT:** Includes fields for DOCUMENT NUMBER (ntax7), SCAN ID (071227663j5), DOC DATE (12/10/2021), TYPE (INVPO), and CURRENCY (CZK - Czech kor...). Summary statistics show NET AMOUNT: 100.00, TAX AMOUNT: 21.00, and TOTAL AMOUNT: 121.00.
- ENTITY:** Includes fields for COMPANY CODE (1034), COMPANY NAME, VAT, ADDRESS (Vilémův Kůlní Hora), CITY, ZIP CODE (284 03), COUNTRY CODE (CZ), and CURRENCY (CZK).
- PAYMENT:** Includes fields for PAYMENT METHOD, PAYMENT TERMS, DESCRIPTION, DUE DATE (2021-10-12), and PAYMENT REFERENCE (string).
- VENDOR:** Includes fields for VENDOR ID (0000091045), NAME, VAT, BANK ACCOUNT, IBAN, ADDRESS, ALTERNATIVE PAYEE / FACTOR, COUNTRY CODE (CZ), REPORTING COUNTRY CODE, and EMAIL ADDRESSES.

At the bottom, there is a table for 'LINE ITEMS AMOUNTS' and 'DIFFERENCE AMOUNTS'. The table has columns for Line number, PO number, PO line number, GR number-item, Unit of measure, Quantity, Unit price, Net amount, Tax code, Tax percentage, Tax amount, and Total amount. The first row shows a line item with a net amount of 100.00, a tax code of 'FD', a tax percentage of 21%, and a tax amount of 21.00, resulting in a total amount of 121.00.

- Intelligent document scanning of invoices to accurately extract key invoice data points
- Configurable business logic for customized rules and policies
- Touchless invoice automation resulting in faster cycle times and reduced labor
- Perform real-time validation and verification of extracted data
- Dynamically route invoices to the appropriate personnel or workflows for review, approval, and payment processing

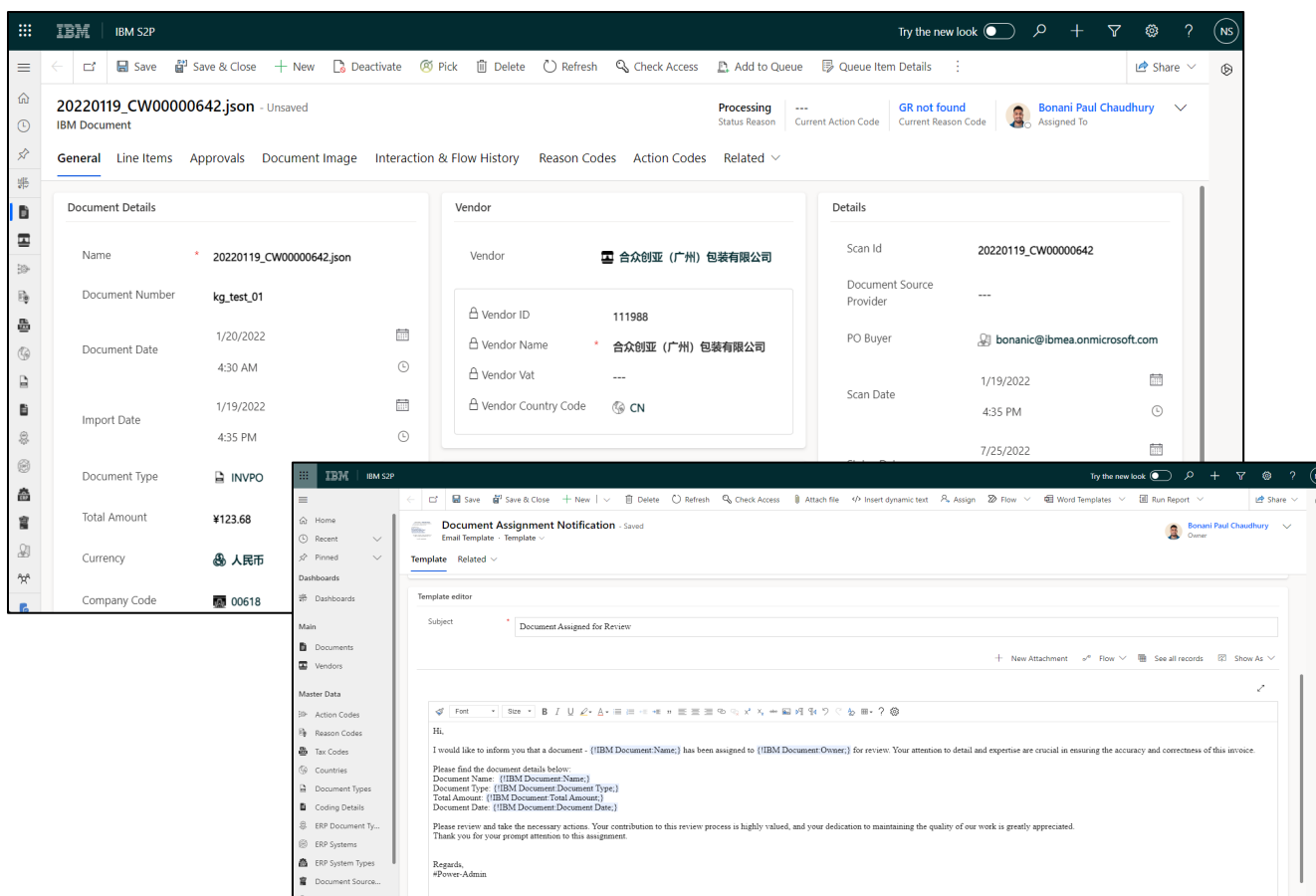
Up to **75%** Reduction in handling time

90% Handling Time Reduction

50% Cost Reduction

Collaboration Workflow

A comprehensive cloud-based solution with rule-based validations, manual invoice processing, configurable workflows, and a user-friendly interface.



- User Dashboards
- Transaction screen with exception handling capabilities
- Reason code and flow history
- Auto and manual routing
- Configure exception queues
- Approval flows and escalation matrix

Up to **75%** Reduction in handling time **90%** Handling Time Reduction **50%** Cost Reduction

Vendor Query Portal

Allow vendors/suppliers to access and manage their own information, transactions, and interactions with a buying organization, performing various tasks, such as submitting invoices, viewing purchase orders, and tracking payments, without the need for direct communication with the purchasing organization.

- Vendor Dashboard
- Invoices and POs status
- Invoice Submission
- Create new request (ticket)
- Supplier Reconciliation submodule
- Reporting
- Vendor onboarding
- Audit Trail and Help

The screenshot displays the IBM Vendor Query Portal interface. The top navigation bar includes the IBM logo, 'IBMC Vendor Query Portal', and 'GENERIC LOGO'. The user is logged in as 'User Name Superuser' in English. The dashboard shows several key metrics:

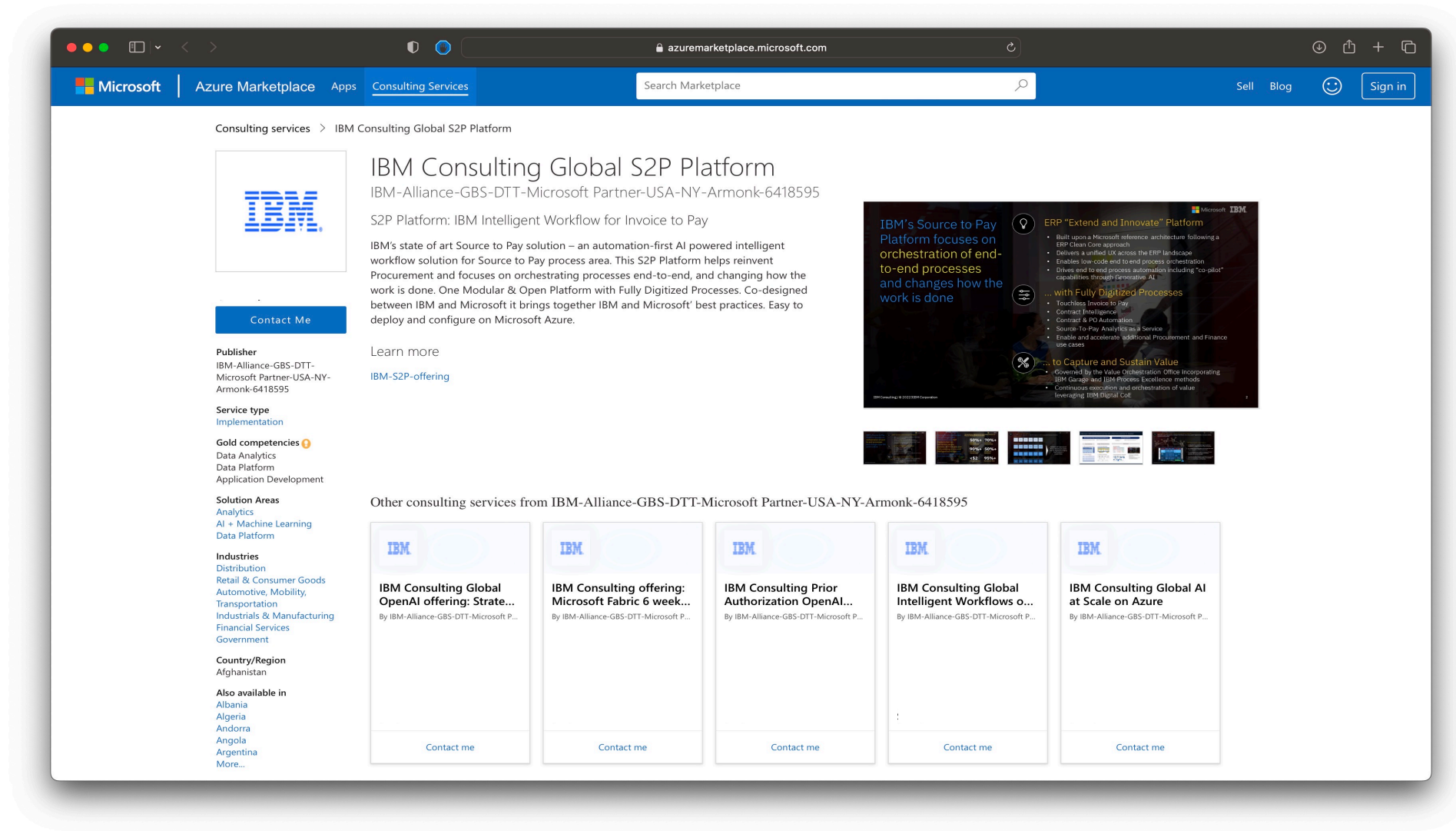
- Total Invoices:** 570 total. A donut chart shows the status distribution: Returned invoices (200), Under process (50), Under query (120), Payment ready (150), and Paid (50).
- Reasons for return (Current month):** Missing information (240), Legibility of scan (100), Wrong data entry (80), and -NA- (40).
- Open queries:** 450 current.
- In-progress queries:** 200 current.
- Closed queries:** 100 current.
- Pending queries:** 80 current.

Below these metrics is a 'Recent activity' table showing the last 5 activities on Invoice and Open Query. The table has columns for Scan ID, Process, Source, Cluster, Country, and Company Code.

The bottom section of the screenshot shows the 'Reconciliation statements' page. It features a table with columns for Reconciliation code, Business Entity, Upload date, Status, Items, Amount, and Action. The table lists various reconciliation entries with their respective statuses (e.g., Work in progress, Reconciled, Validation in process, Archived, Unreconciled). To the right of the table, there are summary statistics for 'Total outstanding' (\$25M) and 'Total collected' (\$5M), along with 'Reconciled' (\$8324.00) and 'Unreconciled' (\$10M) amounts.

Up to **70%** Query Reduction **90%** Handling Time Reduction **50%** Cost Reduction

Published on MSFT Marketplace



AUTOMATION



PRODUCTIVITY



USER EXPERIENCE



INSIGHT



COMPLIANCE



https://azuremarketplace.microsoft.com/en/marketplace/consulting-services/ibm-alliance-usa-ny-armonk-dtt-6418595.s2p_platform

Microsoft and IBM Consulting



- 18x Microsoft Partner of the Year winner
- 12 Microsoft Gold competencies
- #1 IP co-sell Partner

- 2022 Global Modernizing Apps Partner of the Year
- 2022 Global AI Partner of the Year Finalist
- 2022 US AI Partner of the Year Winner
- 2021 US Partner Award for Financial Services
- 2020 US Partner Award for Customer Experience
- 2019 US AI/ ML Partner of the Year
- 2018 US Modern Data Estate Partner of the Year
- 2017 US Country Partner of the Year
- 2017 Global Cloud Apps Partner of the Year
- 2017 National Solution Provider Partner of the Year
- 2016 US Data Analytics Partner of the Year
- 2015 Big Data & Analytics Partner of the Year

26,112+
Azure certifications

5000+
Microsoft practitioners globally

30+
Global delivery center with 24/7 support

1,000's
Applications migrated / modernized for Azure in the last 12 months

40,000+
Certified cloud consultants - globally (Azure, AWS, Bluemix, GCP, IBM Cloud)

17
Gold Certifications

+5
Advanced Specializations

14,000+
Successfully delivered Microsoft projects
Azure Expert MSP

Acquisitions:



IBM Intelligent Workflows for Source to Pay

Contacts



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