



**A I Q o D**

Empowering Enterprises





# ABOUT US

## AIQoD

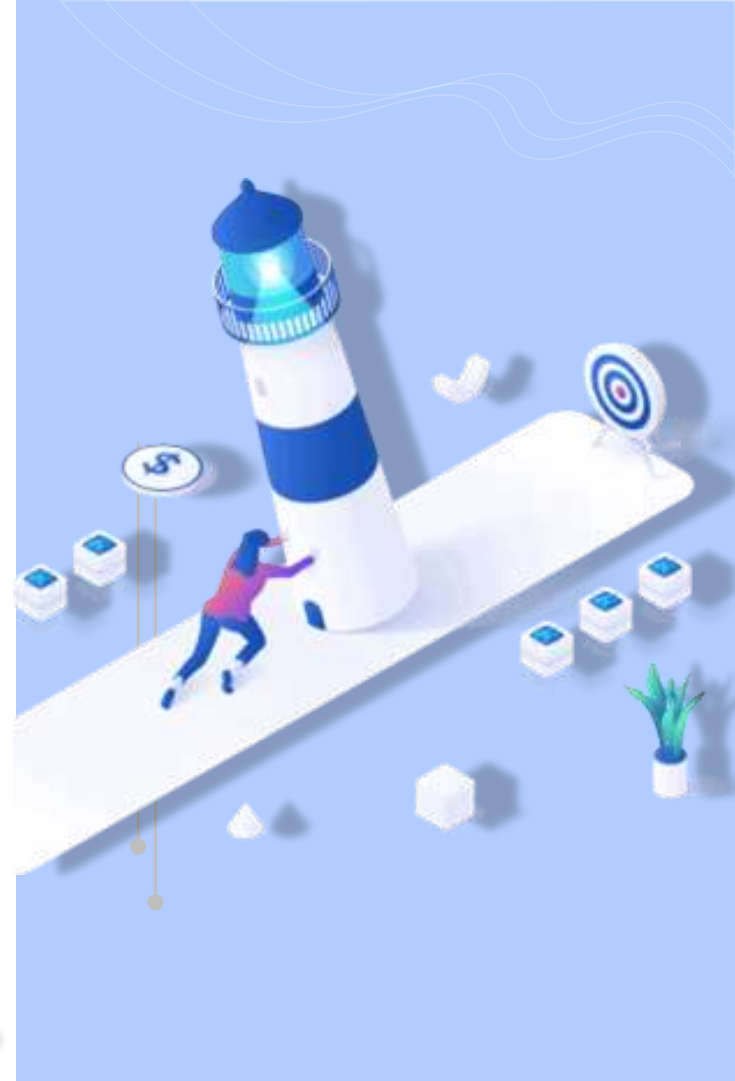
- Founded in 2015 - Where **Artificial Intelligence** meets **Quantum of Digital Transformation**
- Mentored by Industry & Academia Stalwarts
- No-code Intelligent Information Management company with advanced capabilities based on Generative AI, ML, NLP, LLM, CV and Analytics
- 150+ years of team experience creating solution offerings for multiple Industry Verticals
- Lean and Agile team focused on Customer Success



# Vision

***“To make digital transformation affordable with guaranteed results for every enterprise”.***

AIQoD  
Empowering Enterprises



OUR OFFERINGS

# WE TURN INFORMATION INTO ACTIONABLE INSIGHTS



## EXTRACT

- Multi-System Integration
- OCRi based extraction
- Text Classification, Image Segmentation & Object Detection
- Face Detection and Matching
- Data crawlers and scrapping



## STORE

- DMS
- Document Cataloging
- Unstructured data
- Structured data store
- Cloud storage options



## ACTIONS

- Role and Permission Management
- Queue and SLA Management
- Pre & Re-training Modules
- Exception and Error Handling
- Data export
- Multi-system integration



## INSIGHTS

- No Code Analytical Studio
- Role based MIS Reports
- Analytical Dashboards
- Automated Alerts & Notification
- Orchestrator

# WHY US?..

AIQoD is a cognitive data extraction, management, and analytics platform that accelerates your digital transformation journey.

It leverages advanced Gen AI and ML capabilities to deliver actionable insights for faster decision-making and automate data-driven decisions.

## **No Code Platform**

Do It Yourself(DIY),  
experience powered  
AI/ML/NLP Bots

## **Best In Class Accuracy**

Digitized output from  
various documents for  
Smart Processing

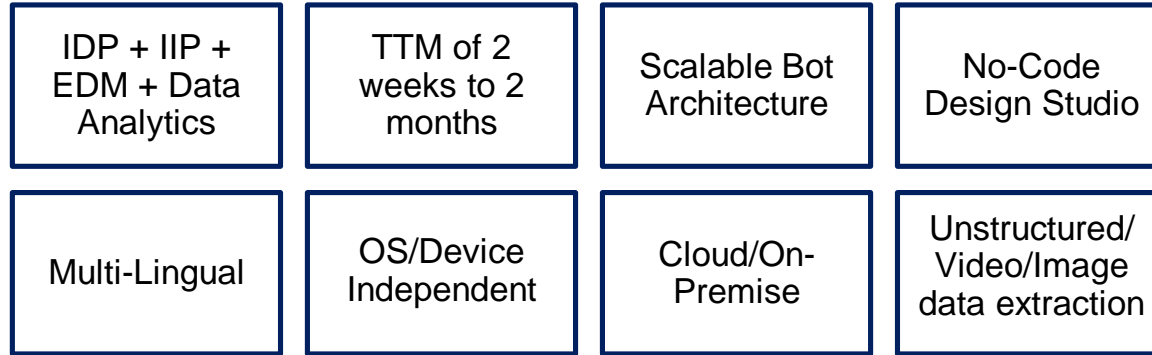
## **Fastest Time to Market Delivery**

Highest Straight  
Through processing  
ensuring quick ROI

## **Flexible Reusable Framework**

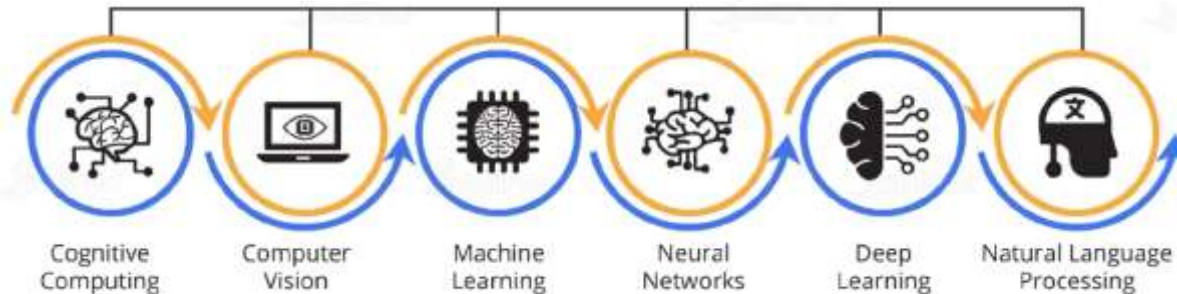
Design your own  
processes with Drag  
n Drop bots &  
process repositories

# USP



IDP – Intelligent Document Processing  
IIP – Intelligent Information Processing  
EDM – Enterprise Data Management

## Artificial Intelligence



Data

Insight

Action

# Our Offerings

- Customer Onboarding
- Insurance Claim Process
- Fraud Prevention
- Document Digitization

## INSURANCE



- Drawing Vectorization
- P&ID to BOM creation
- Concession request automation
- GIS Application for Asset Tracking and Work-order Execution

## ENGINEERING/UTILITY



- Medical Reports, ADR, Bills, Prescriptions Digitization
- Sentiment analysis & Web scraping
- Product & pricing data analytics
- HTA & evidence library

## HEALTHCARE



## BANKING

- Remote KYC
- Cheque Clearing
- Document Digitization
- Loan Processing
- A/c Stmt. Generation & Dispatch
- Account Closure Process
- MIS dashboard



## RETAIL

- Procure to Pay process
- Order Fall-Out Management
- QR & Barcode extraction
- Order processing & Payment Reconciliation.



## INDUSTRY AGNOSTIC

- AP Automation
- VAT & Excise Filing
- Social Media management
- Ticket Management
- MIS Dashboard
- Bank Reconciliation

Data

Insight

Action

# No Code Design Studio

Data → Insight → Action



**DATA SOURCE**

Extract



**DATA LAKE**

Store



**Extract**

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**Store**

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**Action**

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- Exception and Error Handling
- Data export
- Multi-system integration



# Customers – Representative List



TATA  
COMMUNICATIONS

saveX  
TECHNOLOGIES

مجلس التـو  
WAZUN COUNCIL



PANDORA

ideas to  
Impacts  
Digital

TATA  
TATA POWER

Delphi - TVS  
Technologies



Liberty  
Insurance

Roche

S/CO  
Est 1995  
سیکو

CUB  
CITY UNION BANK

Access  
Infinity

KIRTANE & PANDIT

# OUR AWARDS & ACHIEVEMENTS



**Top 15**  
Finalists (**June**  
**2021**)



**Top 34 (Jan**  
**2022)**  
(~500  
participants)



**Top 250 (April**  
**2022)**  
(~2500  
participants)



Proud Partner of  
**Intel AI Builder (May**  
**2022)**



**Winner (June**  
**2022)**  
(~1000  
participants)

Data

Insight

Action



# Intelligent Document Processing (IDP)



Data

Insight

Action



## Our GenAI Capabilities -

- **AIQoD Gen AI Fusion:** Our GenAI, blends AI, ML, and NLP for intelligent data extraction and processing.
- **Versatile Document Handling:** Effortlessly processes invoices, POs, contracts, and BGV documents.
- **Customized Data Extraction:** Capability to adapt diverse document formats, ensuring precise extraction.
- **Efficiency and Scalability:** Reduces processing time, minimizes errors, and scales seamlessly to handle growing data volumes.

# IDP - Image Processing



**Image Deskew:** Images sometime scanned a little crooked which results in errors while data extraction.



**Image auto-rotation:** Images sometime are scanned in a different direction (vertical or landscape mode) which results in errors while data extraction.



**Image restoration:** Hard Copies loose quality or the images are scanned noisy which is not readable by system.



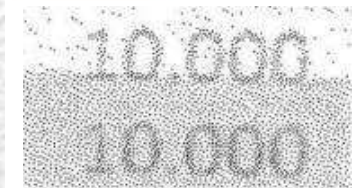
**Image cleanup:** Hard Copies have stamps or other distortions on the data that has to be extracted which results in errors or inaccuracy due to data hidden behind the stamp.



**Algorithms to removes large speckles from a document:** Images have spots or patch of colors in it which makes it unreadable by system.



**Remove positive and negative spots, smoothing edges:** Images having bends or spots become difficult for bot to read.



- ✓ Multiple Sources & Formats  
Multi-Lingual Invoices
- ✓ Higher Accuracy using inbuilt ML based Tesseract Engine and unique ML based data interpreter using 90+ parameters

- ✓ Reconciliation e.g. duplicates, PO Matching, Accuracy using line level items, etc.
- ✓ Automated Validation using line level extraction

- ✓ Accuracy and training time.  
Pre - Training  
Re - Training
- ✓ Real-time Dashboards, Reports and Exception Queues with inbuilt Training Module
- ✓ Pre-training using historical data within days

- ✓ Standardization across geographies like Currency, Decimals, Date formats
- ✓ Document Splitter to extract specific pages from multi page document set

- ✓ Business Rule Validations Lookups, e.g. Vendors, over/under payments
- ✓ Correlation-based data standardization

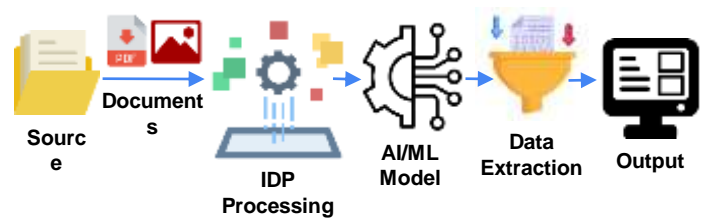
- ✓ Quality of document e.g. Watermarks, comments and annotations.



# IDP - Capabilities

Documents Types Handled by AIQoD:
PoA/PoI Documents
Application/KYC Forms
Contracts and Agreements
Banking - Statements, Balance Sheets, P&L, etc.
Employment - Service Letters, Pay Slips, etc.
Taxation - Forms, Tax Returns, etc.
Healthcare - Medical Study, Lab Reports, etc.
Insurance - Forms, Policies, Declarations, etc.
Billing - Invoices, Purchase Orders, GRN, etc.
Logistics - BoL, PoD, Shipping Instructions, etc.
Drawings - Engineering, Electrical, Civil, etc.

Title	Features
AI-Powered Data Extraction	<ul style="list-style-type: none"> <li>OCR, AI, and ML algorithms to extract data from various document types to eliminate manual data entry.</li> <li>NLP to understand meaning and context for interpretation and to summarize verbose content.</li> </ul>
Image Processing	<ul style="list-style-type: none"> <li>Image de-skew, auto-rotation, restoration, clean-up, algorithms to remove large speckles, remove positive and negative spots, and smoothing edges to make the image suitable for efficient OCR and best accuracy.</li> </ul>
Intelligent Document Classification	<ul style="list-style-type: none"> <li>ML algorithms along with document tagging to classify documents based on the content.</li> <li>Platform also uses document splitting, data masking in sensitive documents, document renaming for document classification.</li> </ul>
Automated Data Validation	<ul style="list-style-type: none"> <li>AI along with an in-built rule engine to automatically validate extracted data e.g. checking for inconsistencies or errors, reducing the need for manual data validation.</li> </ul>
Automated Training Models	<ul style="list-style-type: none"> <li>Pre-training and Re-training to train custom machine learning models with historical data within days</li> </ul>
Prediction/Forecasting	<ul style="list-style-type: none"> <li>ML algorithms to predict future trends based on historical data, such as predicting fallout trends or identifying potential fraud, etc.</li> </ul>



# Extended IDP Capabilities with GenAI

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Our Intelligent Document Processing (IDP) capabilities have been significantly enhanced with the Generative AI (GenAI). This powerful combination improves the efficiency and accuracy of our document processing solutions, providing advanced data extraction, and context-aware processing. The use cases for both IDP and GenAI document processing remain the same, ensuring seamless and intelligent handling of tasks such as automated invoice processing, contract analysis, and customer onboarding. With these enhancements, our IDP solution delivers greater business insights and operational efficiency.



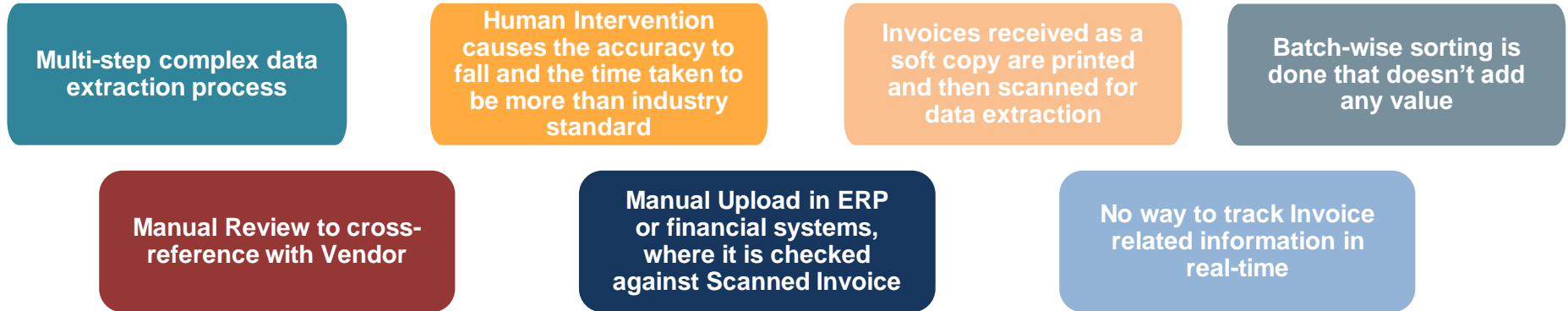




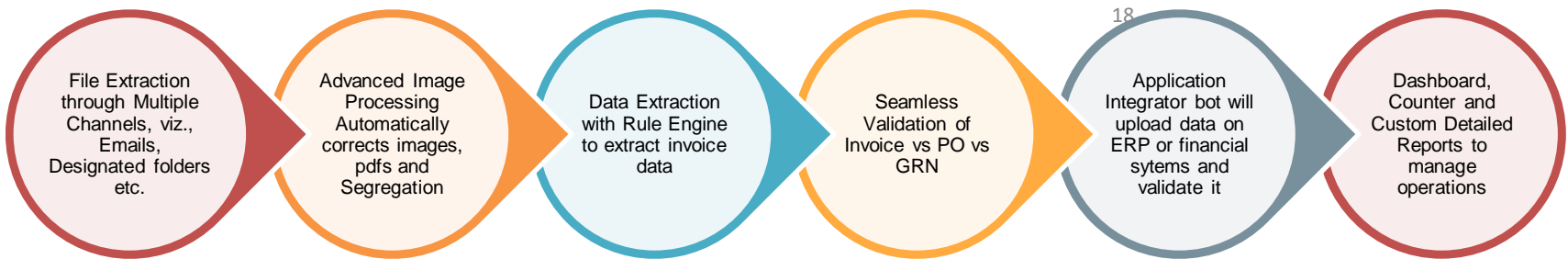
# Use Cases



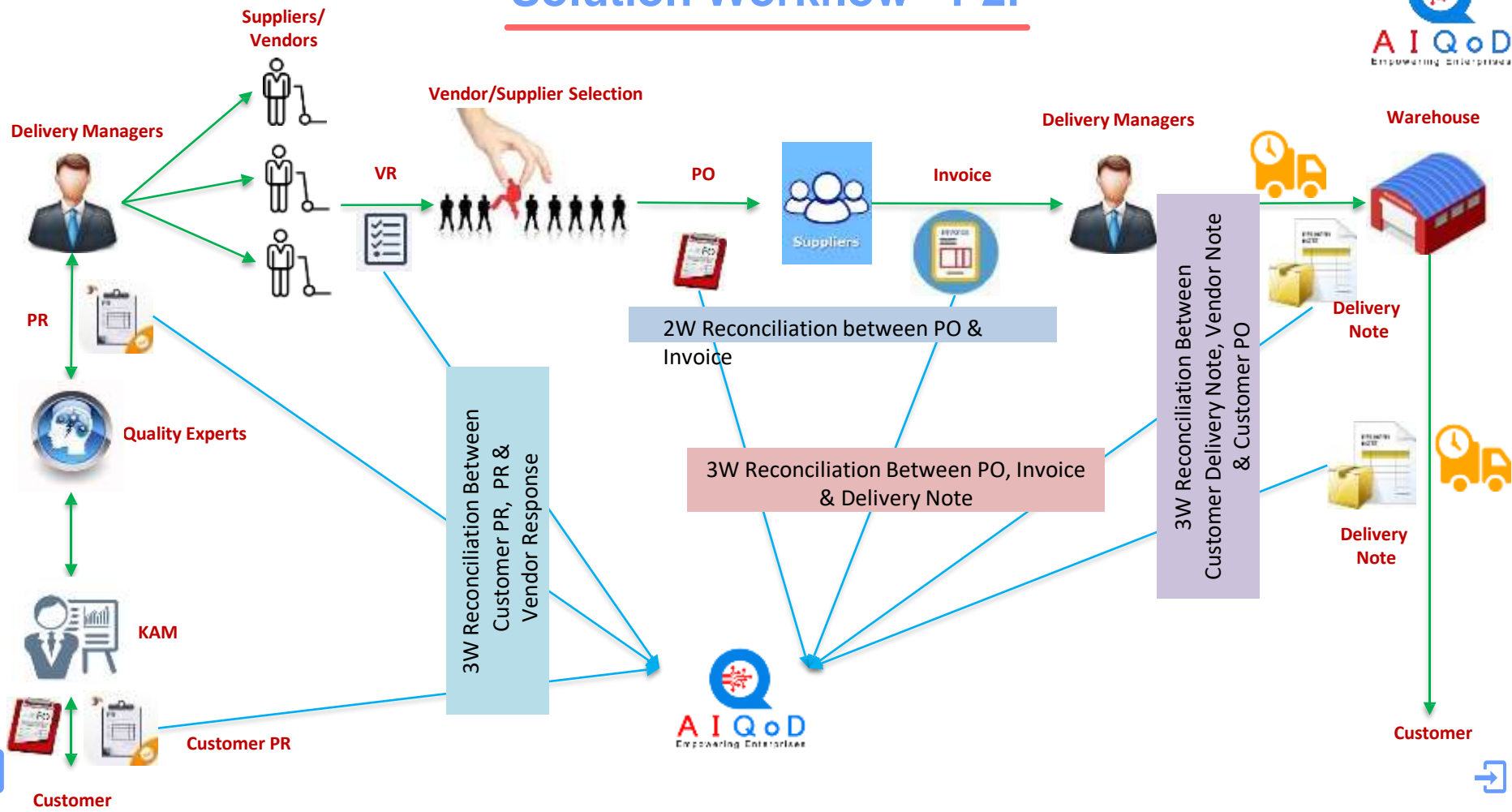
## Invoice Processing Operations Key Challenges



## Our Solution



# Solution Workflow - P2P



# Case Study - Procure to Pay

Region - MEA

We have implemented Gen AI based solution for invoice data extraction in both Arabic and English languages and Reconciliation for a government entity in the Middle East.

## High Level Solution

- Invoice retrieval from various sources, pdf splitting.
- Header & item level field extraction using OCRi module modeled with AI/ML algorithms.
- 60+ Business rules validation and data enrichment from Oracle ERP application.
- API Based integration with Oracle ERP application.
- Notifications and Real-time dashboards for timely insights and actions.
- Automated workflows for efficient handling of exceptions.



## Key Takeaways



95%<sup>+</sup>  
Accuracy



85%  
Straight through  
processing



90%  
Time Savings



100%  
Customer  
satisfaction



65%<sup>+</sup>  
Cost savings



Industry Agnostic

# Case Study - Contract Digitization

We have Implemented DigiLegal at Leading IT & Communication Tech company in APAC to digitizing Legal Document and streamline document management, enhance accessibility, and improve overall efficiency in legal processes.

## High Level Solution

- AIQoD Contract Digitization solution based on Gen AI addresses the issue of tracking and monitoring specific clauses, risks, contingencies, renewals, etc. for huge volumes of contracts by extracting data in a machine-readable format.
- More than 120 parameters extracted and stored for data analysis.
- Tracking and Monitoring of Contracts was time consuming and manual effort.



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## Key Takeaways



Increase in quality to 85+% accuracy.



Increase in Business Throughput, timely renewals and manage risk and exposure.



Simplicity in the process of tracking and taking timely business decisions.



Automated workflows for efficient handling of exceptions.



More than 100K contracts with average size of 25 pages processed every year.

Data

Insight

Action

## High Level Solution

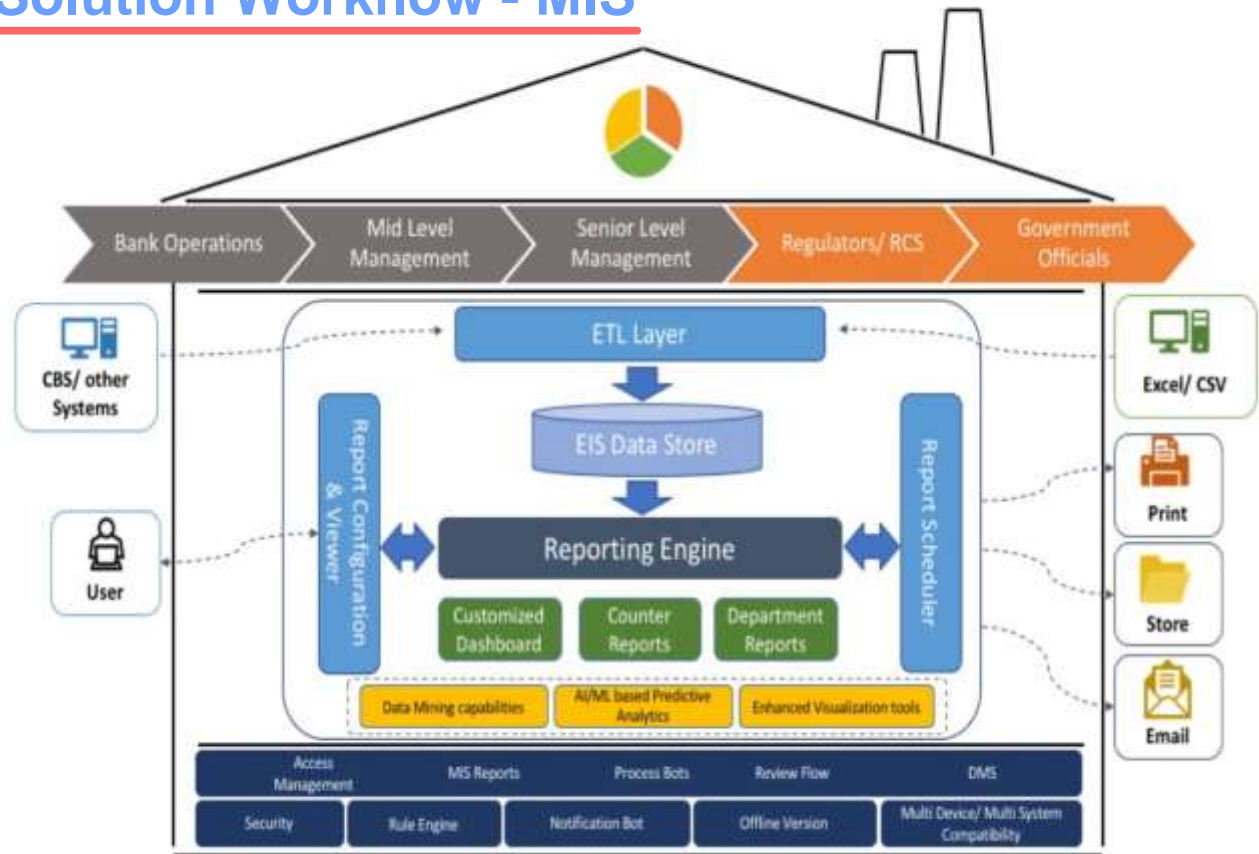
- Data Extractor Bots to capture information from any source, typically from a core banking system
- Data available from multiple branches and Head office
- Report Configurator to create reports represented with Bar Chart, Pie Chart or Tabular Format
- Download in Excel or CSV
- Counter Report, Dashboard Report, Department Report
- Dashboards available to stakeholders within branch, head office or government officials based on security guidelines issued by bank

## Key Takeaways

- 100% efforts saved as real time data is available without any manual collection, sorting and summarization.
- Short time for taking business decisions based on data
- Dashboards available based on role of an employee in bank with high level of data security



# Solution Workflow - MIS



- Solution can receive data from multiples sources & load/save data to multiple sources
- Bank Hierarchy can be defined (e.g. National->State -> District) along with roles & access controls
- Extract Transform Load: Extract data from CBS & additional systems, transform & present in required report form
- Report Studio can general dashboard & counter reports
  - Loan Report
  - ATM Transaction Reports
  - Card Usage Reports
  - Customer Service Reports
  - Management Reports
    - 1. Top 10 branches by Asset
    - 2. Profit Trend
    - 3. Relative Income

# Concession Request Automation

## High Level Solution

- **Automated Missing Information Detection:** Scans concession reports and identifies missing information submitted by vendors.
- **Automated Vendor Communication:** Automatically sends emails to vendors requesting missing details.
- **Data Extraction:** Extracts details from supporting documents (using OCR) and fills them into the concession request form.
- **Reduced Manual Work:** Eliminates the need for manual checking of reports and data entry.
- **Streamlined Workflow:** Adds complete reports to a queue for further downstream processing.

## Key Takeaways

- **Faster Processing:** Reduces overall processing time for concession requests.
- **Improved Accuracy:** Minimizes manual errors by automating data extraction and population.
- **Reduced Manual Effort:** Frees up employees from tedious tasks for more strategic work.





# Concession Request Automation - Workflow

Scenario 1:



Scenario 2:



Automation Bot

# Bank Reconciliation

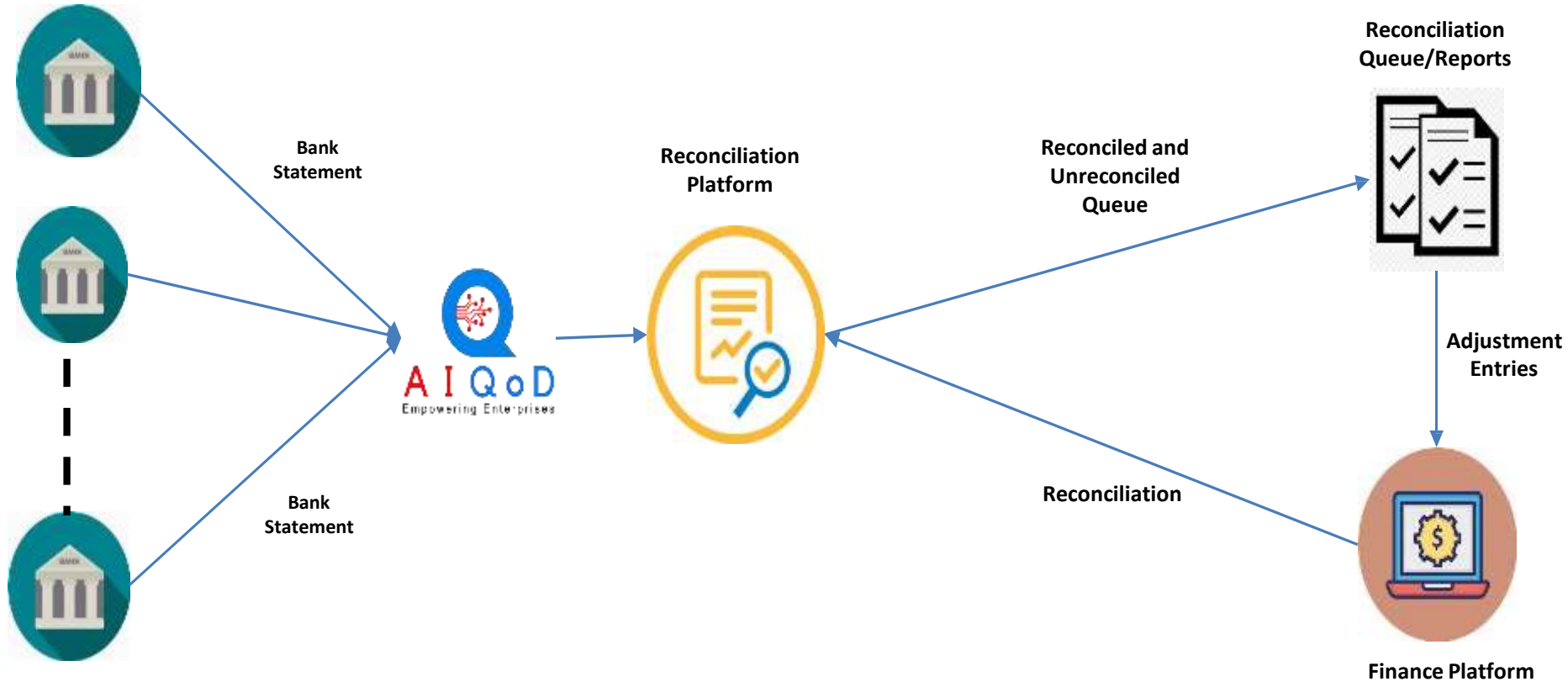
## High Level Solution

- **Automated Login & Download:** Bots can log in to internet banking, select period, download bank statement (Excel format).
- **Intelligent Matching:** System reads transaction details, matches with accounting ledger entries using machine learning.
- **Keyword Mapping:** Allows users to define keywords for matching transactions with potentially different terminology between bank statements and ledgers.
- **Threshold-based Matching:** Considers minor discrepancies (e.g., currency exchange) within a user-defined limit.
- **Learning & Improvement:** Machine learning helps the system learn from mappings and improve future matching accuracy, potentially eliminating manual intervention.

## Key Takeaways

- **Enhanced Accuracy and Speed:** Automation ensures 100% accurate reconciliation, eliminating manual errors and significantly speeding up the process.
- **Continuous Learning and Improvement:** The system's machine learning capabilities enhance its performance over time, reducing the need for user involvement in the mapping process.
- **Scalability:** The solution can handle reconciliation for multiple bank accounts and ledger entries across various business scenarios, offering a versatile and scalable approach to transaction verification.

# Bank Reconciliation - Workflow



# VAT Compliance Automation - Features

## Compliance Dashboards

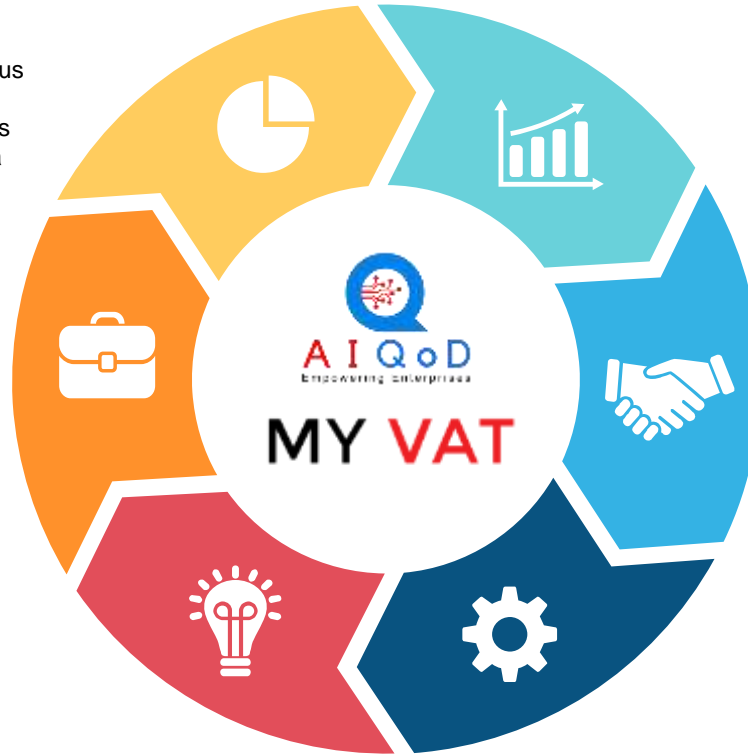
- Easy to use one screen dashboard to review VAT Filing data
- Drill down on various parameters and at various levels
- One click raw data download for discrepancies & graphical and tabular representation of data

## VAT Filing

- Auto Apportionment Calculation
- One click Drill down for various sections and data download for analysis
- Auto Download and Reconciliation of import data
- Approval Flow for OTA filing data
- Auto upload of VAT Filing data on OTA Portal

## Invoicing

- Different types of VAT compatible Invoices
- Invoice Upload through Excel
- Credit Note/Debit Note
- Advance Receipts/Payments
- Delivery Challan



## Tax Group and Multiple TRNs

- Enterprise Organizational Hierarchy setup
- Seamless Tax filing at Tax Group level for various entities under a tax group
- Permission based user access to various Sub Organizations & Business functions

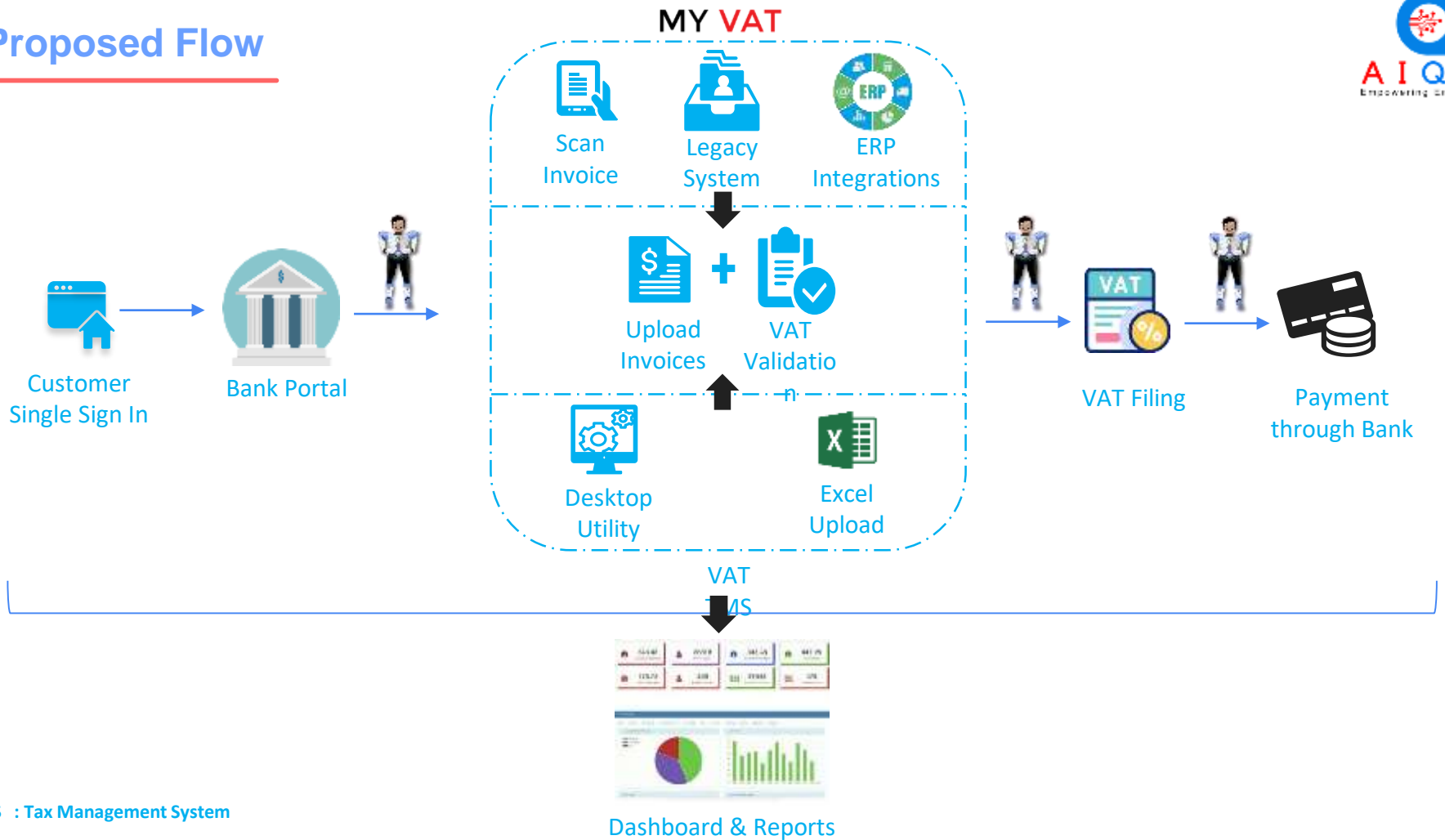
## Multi System Integration

- Multiple Integration options ranging from manual excel upload, to auto upload using desktop utility to real time open API integration
- Easy one time setup to get any client onboard
- A fully machine learning based Invoice digitization solution
- Predefined rules to autocorrect and transform input data through state-of-the-art Rule engine
- Bots checking all tax law violations and analysis sent on your e-mail without human intervention.

## VAT Rules Validator

- Accuracy through in built VAT Rules
- Categorization of Rule violations as warnings or errors
- System Error correction options
- VAT Rule Configurator – Define your own rules and their severity

# Proposed Flow



• TMS : Tax Management System

# Key Differentiators

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## All in one

VAT Invoicing, Accounting, Compliance and Filing in a single platform powered by machine learning and AI



## 100% Accurate

Smart and up to date Tax Validation rules to avoid tax Penalties



## Save Cost with Bots

Increase your efficiency by 60% by automating your entire VAT Compliance viz. download/upload of VAT Return Filing by Bots



## Multi Currency

Automatic sync up of currency exchange rates from central bank website



## Smart DMS

Maintain Audit Records for up to 7 years as mandated by the statute



## Alerts

Latest updates on VAT law, due date reminders, etc



## Build your own MIS

Reporting engine capable of generating any new report within minutes



## Accessibility

24 \* 7 accessibility and Compatibility across multiple devices and browsers and in multiple languages



## Cloud and Desktop

Available as a platform on cloud as well as on local server installation



## 100% Secure

Secure Data Storage and Backup

We have implemented an GenAI-based co-pilot in our platform to handle queries on tasks, policies, and invoices, enhancing efficiency, accuracy, and user satisfaction while ensuring robustness and data privacy with regular updates for optimal performance.

## High Level Solution

- **Natural Language Understanding:** Co-Pilot excels in understanding and generating human-like text across diverse topics, including questions, explanations, and conversations.
- **Language translation:** With "**Bhashini**" implementation, users can now chat about policy-related queries in their preferred language, as it facilitates accurate and contextually relevant translations, enhancing communication across linguistic preferences.
- **Context selection:** In Co-Pilot, users can specify the context they want to query about, allowing the AI to provide information and responses relevant to that particular product.
- **Quick response:** Co-Pilot delivers rapid responses, leveraging its ability to process and generate text swiftly across various topics and queries.
- **Voice chat:** Users can query through both text input and voice commands with Co-Pilot, facilitating flexible interaction based on their preferred communication mode.
- **Accuracy:** Co-Pilot achieves an accuracy rate of 90% in its responses



Uploading files/FAQs



Pre-processing of files: Data cleaning and standardization



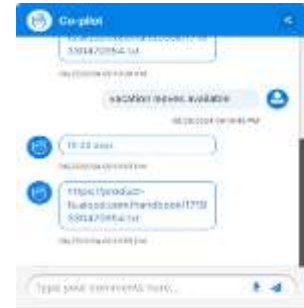
OCR: Extracting text from images or scanned documents and formats



Data ingestion: Importing data into system



Co-pilot: For Text and Voice Queries





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**THANK YOU!**

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