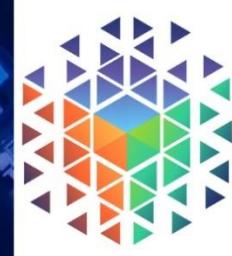


# INTELICO

Analyze . Engineer . Automate



# SDAIA

الهيئة السعودية للبيانات  
والذكاء الاصطناعي  
Saudi Data & AI Authority

## Technical & Commercial Proposal

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# 1 Introduction

Intellico is an AI-powered product co-pilot designed to revolutionize how organizations gather requirements, document projects, and manage digital delivery. Purpose-built for enterprise and government environments, Intellico streamlines the entire lifecycle from ideation and analysis to documentation and handover ensuring accuracy, speed, compliance, and full alignment across teams.

By automating critical elements such as mockups & prototyping, user stories, test cases, user journeys, BRDs, and SRS documents, Intellico enables business and technical teams to reduce manual effort while achieving higher consistency and compliance. The platform acts as a unified workspace where departments collaborate securely, ensuring that every requirement is captured, validated, and translated into actionable documentation.

Designed with enterprise-grade security and regulatory compliance in mind, Intellico supports public-sector digital transformation while maintaining the highest levels of governance, quality, and documentation rigor.

**For SDAIA specifically, Intellico provides structured, compliant, and audit-ready documentation aligned with national regulatory frameworks including SDAIA guidelines, NCA cybersecurity controls, and Saudi digital governance standards.** This ensures that every requirement, process, and generated document supports SDAIA's mandate for accuracy, safety, and high-quality oversight. Intellico empowers SDAIA teams to work faster and more efficiently while maintaining precision and compliance.

## 2 Why Us

### 2.1 Award-Winning Innovation

Intellico was recognized as [\*\*Startup of the Year 2024\*\*](#), a testament to our excellence in AI-driven digital transformation and the impact our platform brings to enterprise and government environments. This recognition reinforces our commitment to delivering reliable, future-ready solutions.

### 2.2 Purpose-Built for Large Enterprises & Government Entities

Intellico is designed to meet the needs of highly regulated sectors such as government, healthcare, finance, and national regulators.

Our platform enhances requirement gathering, documentation, and analysis with enterprise-grade accuracy, governance, and traceability—key factors for government digital projects.

### 2.3 Compliance With Saudi Regulations

Intellico ensures documentation and workflows align with local regulatory frameworks including **SDAIA**, **SAMA**, and other national governance standards.

This makes Intellico a safe and compliant solution for public-sector digital initiatives.

### 2.4 Enterprise-Grade Deployment Options (Including On-Premise)

We offer full **on-premises**, **hybrid**, and **cloud** deployments—allowing government entities to maintain strict data residency, privacy, and sovereign cloud requirements.

Intellico adapts to the client's security posture rather than the other way around.

## 2.5 AI-Powered Productivity & Quality Improvements

Intellico automates mockups & prototyping, user stories, test cases, user journey diagrams, BRDs, and SRS documents with high precision.

This results in:

- Faster project kickoffs
- Reduced dependency on manual work
- Higher documentation accuracy
- Better alignment between business, IT, and QA teams

Government teams can deliver more projects, faster, and with fewer errors.

## 2.6 Proven Track Record with Leading Enterprises

Intellico is trusted by organizations across multiple sectors, demonstrating measurable improvements in documentation time, delivery accuracy, and team collaboration.

Our clients have reported significant accelerations in project delivery cycles and improved requirement clarity.

## 2.7 Deep Integration Capabilities

Intellico integrates seamlessly with tools widely used in government projects, including **Jira**, **Azure DevOps**, and internal workflow systems.

This ensures continuity and reduces friction in existing processes.

## 2.8 Secure Collaboration Across Departments

Government teams can collaborate securely within Intellico across business units, departments, and project stakeholders.

Features such as role-based access, project-level permissions, and audit tracking ensure controlled collaboration.

## 2.9 Dedicated Support & White Glove Service

Intellico provides responsive support for clients through:

- **Dedicated email channel**
- **In-platform live support**
- **Direct escalation for mission-critical issues**

We work closely with government partners to ensure smooth adoption and long-term success.

## 2.10 Built by Practitioners Who Understand the Problem

Intellico was created by founders with years of hands-on experience in software companies, having lived the challenges of requirement analysis and documentation firsthand.

This practical foundation ensures Intellico solves real problems not theoretical ones.

## 3 Core Features & How They Work

Intellico is designed as a modular, AI-powered platform that adapts to the unique needs of each client—whether governmental, enterprise, or private-sector organizations. While our core features cover the full lifecycle of requirements gathering, documentation, design, and delivery, **the platform is fully customizable to support specialized use cases based on each client's workflows, regulatory requirements, and internal governance models.**

From visual prototyping and automated documentation to integrations, compliance alignment, and intelligent assistants, Intellico provides a comprehensive ecosystem that accelerates project delivery, enhances accuracy, and maintains consistency across teams. The following sections outline the key components of the platform and the value they bring to our clients.

### 3.1 Mockup Studio: Real-Time Prototyping & Visual Requirement Capture

- **How it works:**

Intellico's Mockup Studio enables users to convert plain-language descriptions into fully generated interface mockups within seconds. Whether describing a form, a workflow step, a dashboard, or a system screen, the platform instantly produces a visual prototype that reflects the functional and UI elements requested. Mockups can be refined iteratively using conversational prompts, allowing teams to modify layouts, fields, components, and flows without designer involvement.

- **Deep Value & Impact:**

Mockup Studio transforms the early stages of requirement gathering from a written, interpretive process into a **visual-first, interactive experience**. By enabling teams to see the interface in real time:

- **Stakeholders align instantly**, reducing ambiguity and misunderstanding.
- **Prototyping accelerates decision-making**, helping teams validate ideas before investing time in documentation or development.

- **Back-and-forth cycles are significantly reduced**, instead of days or weeks of revisions, teams can converge on the right requirement in a single session.
- **Business and technical teams stay in sync**, as every visual mockup directly feeds into user story generation, test cases, user journeys, and formal BRD/SRS documents.
- **Early-stage validation becomes smoother**, minimizing late change requests that typically cause delays, rework, and cost overruns.

With Mockup Studio, Intellico enables organizations especially regulatory and compliance-driven entities like SDAIA to **visualize requirements and validate them with the relevant stakeholders before committing to them**, ensuring clarity, alignment, and accuracy from the very beginning of the project lifecycle.

Preview    HTML    Export    Save To Visual Asset    Live Demo

Exporting images is not recommended for complicated designs. It is better to download the HTML and take screenshots manually, then upload them to Visual Assets directly.

Digital Project MS

# Centralized Project Portfolio Management Dashboard

Welcome to your digital projects management system. Monitor, analyze, and manage all your projects in one place.

Search projects...

## Portfolio Overview

 24 Total Projects

 8 Ongoing

 12 Completed

You can ask me to:

- Create a contact form
- Add a navigation menu
- Modify page layout
- Add new elements

create a home page for digital project management system

Provide clear and specific requests, as the chat does not store previous messages.

Type your message... Send

**Mockup Studio: Prototyping using conversational AI**

# Centralized Project Portfolio Management Dashboard

Welcome to your digital projects management system. Monitor, analyze, and manage all your projects in one place.

## Portfolio Overview



## Recent Projects

[View All →](#)

Project	Owner	Status	Progress	Due Date	Actions
Website Redesign	Alice Johnson	Ongoing	<div style="width: 50%; background-color: #ffc107;"></div>	2024-07-15	
Mobile App Launch	Brian Lee	Completed	<div style="width: 100%; background-color: #28a745;"></div>	2024-06-01	
Cloud Migration	Carla Smith	At Risk	<div style="width: 20%; background-color: #dc3545;"></div>	2024-08-10	
Marketing Automation	David Kim	Ongoing	<div style="width: 40%; background-color: #ffc107;"></div>	2024-09-05	

## Quick Actions



## Prototype Live Demo Interaction

## 3.2 Knowledge Repository & Document Hub: Centralized, Structured Source of Truth

- **How it works:**

Intellico's Knowledge Repository & Document Hub consolidates all project assets—process flow diagrams, finalized mockups, regulatory references, design systems, policies, attachments, and supporting documents into a **centralized, AI-organized workspace**. Every uploaded item is automatically analyzed for structure, context, relationships, and relevance to the project.

The system intelligently groups documents, extracts key entities, and links them to user stories, features, and requirements. This ensures that teams always work with accurate, version-controlled information that is contextually tied to the ongoing development process.

- **Deep Value & Impact:**

By acting as a single source of truth, Document Hub eliminates information silos and ensures consistent alignment across business, technical, and compliance teams.

Key advantages include:

**Unified governance of all requirement materials**, reducing risk of missing or outdated information.

**Seamless alignment with organizational standards**, as policies, regulations, and frameworks can be stored and referenced directly in requirements.

**Faster documentation accuracy**, as Intellico connects repository items to user stories, test cases, mockups, and BRDs/SRS automatically.

**Reduced dependency on scattered files**, email threads, and multiple document versions.

**Effortless collaboration**, as all stakeholders view the same updated repository with controlled access and built-in versioning.

**Improved auditability**, critical for compliance driven entities, allowing teams to trace how each requirement was derived and which policy or document it references

Search My Health's document name				
FILE NAME	TYPE	LAST UPDATE	STATUS	ACTIONS
register using my phone number	User Story	03/02/2025 - 7:44 PM	Ready	  
technical	BRD	17/10/2024 - 11:03 AM	Ready	  
register an account ...	User Story	15/10/2024 - 6:54 PM	Ready	  
steps tracking	Innovation Document	25/07/2024 - 3:46 PM	Ready	  
technical document	SRS	01/07/2024 - 11:58 AM	Ready	  
Requirements	BRD	01/07/2024 - 11:48 AM	Ready	  
register a patient	User Story	01/07/2024 - 11:43 AM	Ready	  
register a new patient	User Story	15/04/2024 - 5:07 PM	Ready	  

Items per page: 10 | < < > > | 1 – 8 of 8

## Document Hub

### 3.3 Automated User Story Generation: Structured, Complete & Standardized Requirements

- **How it works:**

Intellico transforms finalized mockups, repository knowledge, regulatory references, and documented requirements into **fully detailed, ready-to-use user stories**.

The platform analyzes every UI element ,fields, buttons, icons, checkboxes, dropdowns, validations, error states, conditional fields, and cross-feature dependencies and converts them into structured user stories that follow industry-standard formats.

The system additionally identifies:

- **Dependent features** triggered by specific actions
- **Affected areas** across the system
- **Business rules and constraints** derived from project context
- **Edge cases and alternative flows**
- **Regulatory implications**, if relevant policies or standards exist in the repository

This ensures stories are context-aware and aligned with project logic—not generic AI outputs.

- **Deep Value & Impact:**

Automated User Story Generation eliminates one of the most time-consuming steps in product delivery.

Key benefits include:

- **Massive time savings:** Hours of writing and refinement are reduced to minutes.
- **Consistency & accuracy:** Every user story follows the same standard and format across teams and projects.
- **Full coverage of requirements:** No UI element or business rule is overlooked, reducing downstream defects.
- **Improved communication:** Developers, testers, and stakeholders all receive aligned, clear, and structured stories.

- Built-in compliance:** For regulated, user stories generated by intellico incorporate compliance-specific requirements stored in the repository.
- Immediate readiness for execution:** Stories are linked directly to mockups, flows, and test cases, enabling seamless handoff to development and QA.

By automating this core documentation layer, Intellico significantly reduces the risk of misinterpretation, missing requirements, and inconsistent delivery standards assuring faster, clearer, and more reliable project execution for government and enterprise teams.

## AI Logic Center - User Story

Fill the below fields so we can understand the context of the story you want to generate.

### Info

User Story Name\*  
Auto alerts the risk analyst when risk is detected

Project\*  
Digital Project MS

User Role\*  
Risk Analyst

Associated Image

Feature\*  
Automated risk tracking and issue d...

User Goal\*  
to be able to receive alerts when risk is detected

Business Rules & Constraints

[Regenerate](#)

## Preview

[Edit](#)

**Title:** Automated Risk Alert System for Risk Analyst

**Description:**  
The Automated Risk Alert System is a transformative innovation crafted to elevate the strategic depth of risk management within the Digital Project MS platform. This sophisticated feature is engineered to autonomously identify and signal potential threats that may arise during the lifecycle of ongoing projects. By delivering timely and precise alerts, the system serves as a sentinel, guarding against project overruns and fostering a culture of proactive risk mitigation. It empowers the Risk Analyst with the ability to swiftly respond to emerging challenges, facilitated through seamless notifications delivered via both a web-based application and a mobile app. This dual-channel communication ensures that the Risk Analyst is equipped to take immediate, informed action, thereby enhancing the resilience and success of project outcomes.

**Main Flow:**

- Risk Detection:**
  - The system continuously monitors project data for indicators of potential risks using predefined criteria and algorithms.
  - Upon detecting a risk, the system flags the issue for further analysis.
- Alert Generation:**
  - The system generates an alert containing details of the detected risk, including project name, risk type, severity level, and recommended actions.
  - The alert is formatted for easy comprehension and quick response.
- Notification Delivery:**
  - The alert is sent to the Risk Analyst via multiple channels:
    - Web-based application notification.
    - Mobile app push notification.

[Save Document](#)

### 3.4 Test Case Generation Out of User Stories: Strengthening QA from Day One

- **How it works:**

Once Intellico generates user stories, the platform automatically converts them into **structured, step-by-step test cases**. Each test case aligns with its corresponding story's acceptance criteria, UI components, business rules, and dependencies. The system identifies:

- Positive and negative test scenarios
- Field-level validations
- Error-handling paths
- Edge cases and conditional flows
- Cross-feature impacts

Test cases are linked back to user stories and mockups, ensuring traceability across the entire development lifecycle.

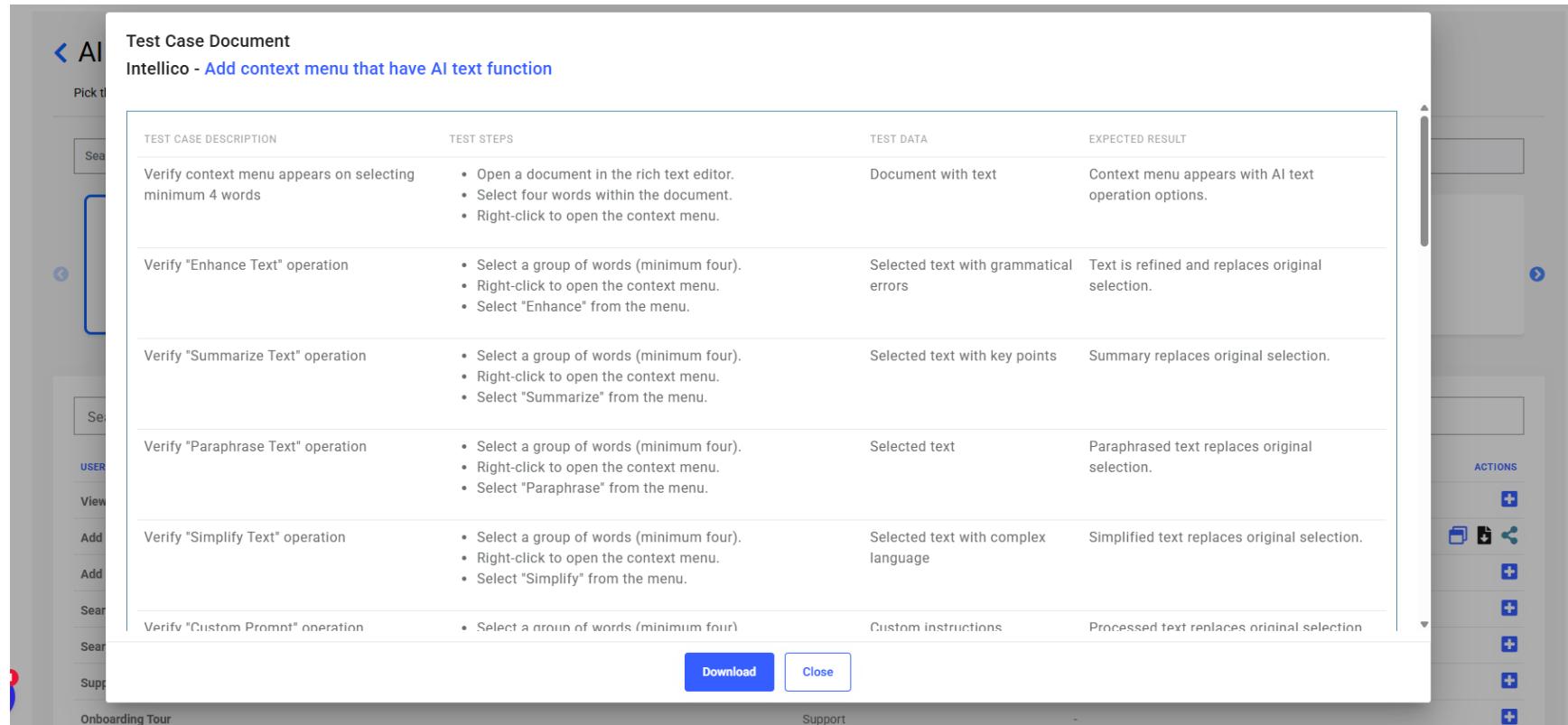
- **Deep Value & Impact:**

Test Case Generation eliminates traditional QA bottlenecks by providing validation scenarios instantly and consistently.

Key advantages:

- **Accelerates QA preparation** no need to manually draft test cases.
- **Reduces defects early**, as QA receives complete, accurate coverage.
- **Improves alignment** between product, development, and QA teams.
- **Enhances compliance** for regulated sectors by ensuring every requirement has a corresponding validation step.
- **Supports audit readiness**, offering clear documentation of requirement-to-test traceability.

This creates a seamless transition from requirement definition to validation, improving the overall quality and reliability of software delivery.



The screenshot shows a modal window titled "Test Case Document" with the sub-section "Intellico - Add context menu that have AI text function". The modal contains a table with six rows, each representing a test case. The columns are "TEST CASE DESCRIPTION", "TEST STEPS", "TEST DATA", and "EXPECTED RESULT".

TEST CASE DESCRIPTION	TEST STEPS	TEST DATA	EXPECTED RESULT
Verify context menu appears on selecting minimum 4 words	<ul style="list-style-type: none"> <li>Open a document in the rich text editor.</li> <li>Select four words within the document.</li> <li>Right-click to open the context menu.</li> </ul>	Document with text	Context menu appears with AI text operation options.
Verify "Enhance Text" operation	<ul style="list-style-type: none"> <li>Select a group of words (minimum four).</li> <li>Right-click to open the context menu.</li> <li>Select "Enhance" from the menu.</li> </ul>	Selected text with grammatical errors	Text is refined and replaces original selection.
Verify "Summarize Text" operation	<ul style="list-style-type: none"> <li>Select a group of words (minimum four).</li> <li>Right-click to open the context menu.</li> <li>Select "Summarize" from the menu.</li> </ul>	Selected text with key points	Summary replaces original selection.
Verify "Paraphrase Text" operation	<ul style="list-style-type: none"> <li>Select a group of words (minimum four).</li> <li>Right-click to open the context menu.</li> <li>Select "Paraphrase" from the menu.</li> </ul>	Selected text	Paraphrased text replaces original selection.
Verify "Simplify Text" operation	<ul style="list-style-type: none"> <li>Select a group of words (minimum four).</li> <li>Right-click to open the context menu.</li> <li>Select "Simplify" from the menu.</li> </ul>	Selected text with complex language	Simplified text replaces original selection.
Verify "Custom Promot" operation	<ul style="list-style-type: none"> <li>Select a group of words (minimum four)</li> </ul>	Custom instructions	Processed text replaces original selection

At the bottom of the modal are two buttons: "Download" and "Close". To the right of the modal is a sidebar titled "ACTIONS" with several icons for file operations like download, share, and edit.

## Test Cases Table

### 3.5 User Journey Diagram Generation: Clear Visualization of End-to-End Experiences

- **How it works:**

From user stories, Intellico automatically generates **flow diagrams and user journey maps** that visually represent how users interact with the system.

The diagrams reflect:

- Steps and decision points
- Path variations and conditional flows
- System interactions
- Triggered actions and outcomes

Each user journey is tied directly to its related stories and mockups, ensuring full alignment.

- **Deep Value & Impact:**

Visualizing the user experience supports both operational clarity and strategic decision-making.

Benefits include:

- **Instant clarity for stakeholders**, especially non-technical decision makers.
- **Elimination of miscommunication**, as visual flows clarify complex interactions.
- **Early detection of inefficiencies** in user journeys.
- **Enhanced UX and service design**, backed by structured flows.
- **Improved onboarding for new team members** through visual documentation.

This ensures every team member and stakeholder shares the same understanding of how the system will function in real life.

## ◀ User Journey Diagram

Pick the project and the user story you want to create

Search projects by name

Intellico

Search Intellico's User Stories

### USER STORY NAME

View Insight Dashboard

Add context menu that have AI text function

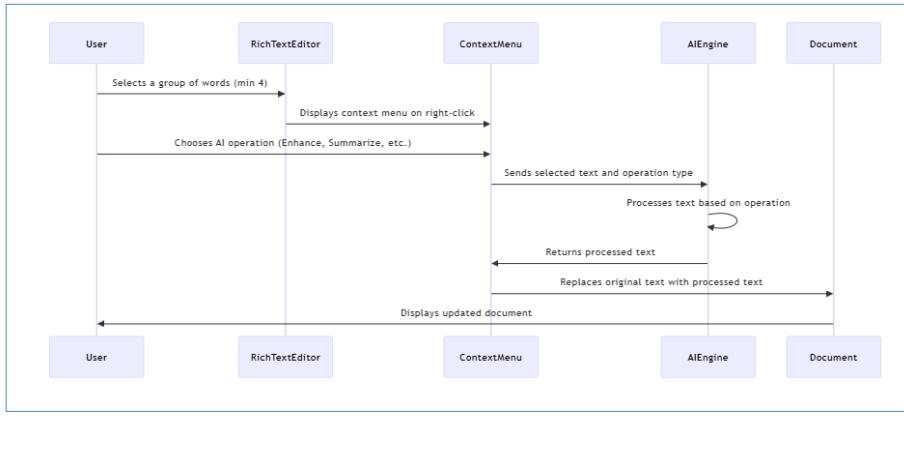
Add single image attachment on the chat area

Search for documents in the Business Knowledge

Search for visual assets by name or keyword

### User Journey Diagram Document

#### Intellico - Add context menu that have AI text function



Download

Close

Projects Hub

Tamnni

ACTIONS  
+  
+  
+  
+  
+

## User Journey Diagrams

## 3.6 Innovation Lab :From Ideas to Documentation in Minutes

- **How it works:**

The Innovation Lab is Intellico's AI-driven workspace for brainstorming new ideas, enhancing existing features, and conceptualizing future product capabilities.

Users can:

- Discuss ideas conversationally with the AI
- Explore feature enhancements
- Generate new concepts based on industry's best practices
- Transform raw ideas into mockups, user stories, BRDs, or backlog items

The lab connects directly to the project's context, ensuring output remains relevant and technically feasible.

- **Deep Value & Impact:**

- **Transforms early-stage ideation** into structured documentation instantly.
- **Encourages innovation** by lowering the effort required to explore new ideas.
- **Supports workshops, design sprints, and strategic planning.**
- **Complements digital transformation initiatives** through rapid conceptualization.
- **Reduces time wasted in long brainstorming cycles** and manual note conversion.

The Innovation Lab gives teams a smarter, more efficient way to evolve products while staying aligned with organizational goals.

AI Chat Brainstorm

Certainly! Let's brainstorm a new feature that could enhance Intellico's value proposition. Here are some initial ideas:

### Feature Idea: Interactive Requirement Mapping

**Description:** An interactive tool that allows users to visually map out requirements, user stories, and dependencies. This feature would provide a dynamic, visual representation of how different elements within a project are interconnected.

**Benefits:**

- **Improved Clarity:** Helps teams understand the relationships between various requirements and user stories, reducing miscommunication.
- **Enhanced Collaboration:** Allows multiple users to contribute to and edit the map, fostering collaboration across different roles.
- **Real-Time Updates:** Automatically updates as requirements change, ensuring that all team members have access to the latest information.
- **Integration with Documentation:** Directly links to generated documents, providing context and traceability for each requirement.

**Functional Requirements:**

- **Drag-and-Drop Interface:** Users can easily add and rearrange elements within the map.
- **Customizable Views:** Different views for different user roles, allowing tailored access to information.
- **Version Control:** Maintains a history of changes for accountability and transparency.
- **Notifications:** Alerts users to changes in requirements or dependencies.

**User Roles and Permissions:**

- **Product Manager and Business Analyst:** Full access to create, edit, and manage the requirement map.
- **Software Developer and QA Engineer:** View-only access to understand project dependencies and requirements.

Suggest Explain More Help Me Yes No

Message Intellico

Generate Document

Innovation Lab

### 3.7 BRD and SRS Generation: Audit-Ready Documentation

- **How it works:**

Intellico generates Business Requirements Documents (BRDs) and Software Requirements Specifications (SRS) automatically using project context, mockups, user stories, workflows, and regulatory references.

The documents generated are structured in formal templates that match industries standards and could be **customized to our clients' specific cases**.

- **Deep Value & Impact:**

- **Accelerates documentation cycles** from weeks to minutes.
- **Ensures formal compliance** for procurement, RFPs, governance, and audits.
- **Provides completeness and consistency** across all sections of BRDs and SRS.
- **Reduces dependency on manual efforts**, lowering human error risk.
- **Supports SDAIA, NCA, SAMA, and SFDA-aligned documentation standards** when relevant guidelines exist in the repository.

This gives organizations fast, standardized, and compliant documentation-ready for official submission.

## AI Logic Center - BRD

Fill the below fields so we can understand the context of the BRD you want to generate.

### Info

BRD Name\*  
HRM Document

Project\*  
HRM

High Level Goals\*  
Streamline Employee Lifecycle Management  
Optimize Payroll & Benefits Administration  
Enhance Recruitment & Talent Acquisition

Stakeholders and/or any 3rd Party Integrations\*  
The HR Management System will integrate with fingerprint attendance devices to ensure accurate time tracking. It will sync attendance data in real time, match scanned fingerprints with employee records, and log check-in/out times. The

Business Constraints

Special Requirements (If Any)

Regenerate

### Preview



#### Business Requirements Document (BRD) for HRM

##### 1. Executive Summary

The HRM project is a strategic initiative aimed at revolutionizing human resources management within organizations by providing a comprehensive, web-based solution. This advanced software is designed to streamline and enhance HR operations, addressing the complexities of employee lifecycle management, payroll administration, recruitment, performance evaluation, and compliance adherence. The HRM system integrates seamlessly with existing HR infrastructure, offering robust functionalities such as Employee Data Management, Attendance and Time Tracking, Leave Management, Payroll Management, and Events Management. By leveraging cutting-edge technology, the HRM system ensures data accuracy, security, and compliance with regulations like GDPR, while facilitating user engagement and self-service capabilities. The project is driven by the need to optimize HR processes, reduce manual workloads, and enhance decision-making through real-time analytics and reporting. With a focus on scalability, usability, and interoperability, the HRM system is poised to become an indispensable tool for HR professionals, empowering them to manage human resources more efficiently and effectively.

##### 2. Business Objectives

The primary business objectives of the HRM project are to streamline and optimize human resources management processes within organizations. Key objectives include:

- **Streamline Employee Lifecycle Management:** Enhance the management of employee data from recruitment to retirement, ensuring seamless transitions and accurate record-keeping.
- **Optimize Payroll & Benefits Administration:** Automate payroll calculations and benefits administration to reduce errors and improve efficiency.
- **Enhance Recruitment & Talent Acquisition:** Implement tools to attract, evaluate, and onboard top talent, improving recruitment outcomes.
- **Improve Performance & Talent Management:** Facilitate performance evaluations and talent development initiatives to boost employee productivity and engagement.
- **Ensure Compliance & Policy Adherence:** Adhere to legal and organizational policies, particularly in leave management and payroll processing, to mitigate risks.

Save Document

### BRD Generation

### 3.8 Integrations with Project Management Tools : Seamless Workflow Continuity

- **How it works:**

Intellico integrates directly with tools such as Jira and Azure DevOps, enabling:

- Bi-directional syncing of user stories
- Migration of documentation
- Status updates to reflect progress across platforms

Teams continue working in their existing systems while leveraging Intellico's advanced automation features.

- **Deep Value & Impact:**

- **Zero disruption to existing workflows** Intellico fits into current toolchains.
- **Eliminates manual copying**, reducing errors and saving time.
- **Strengthens governance**, as all artifacts remain traceable.

This first approach ensures Intellico enhances rather than replaces the tools organizations already trust.

## [Backlog Integration](#)

Export generated user stories to your existing product backlog on Microsoft Azure or Jira.

### Connect a Project

Choose a project to integrate with your external product backlog

Project\*

Integrate to:

- Microsoft Azure 
- Jira 

Organization Name\*

Project Name\*

Personal Access Token\*



Cancel

Connect

## Backlog Integration

## 4 On-Premises Solution Architecture

The on-premises deployment of Intellico ensures full control over data, configurations, and AI processing within SDAIA's local environment.

It includes all application layers – frontend, backend, AI inference, and database – hosted on SDAIA's infrastructure.

The architecture leverages modern technologies, including **Angular**, **ABP .NET 8 Core**, **SignalR**, and **APIs**.

### Clients

- Angular Platform UI (Web Users): Primary user interface for end-users.
- Angular Bot Frontend (Bot Users): Frontend for chatbot users, connected to the same backend APIs.

### Application Tier (.NET 8 / ABP)

- ABP .NET 8 Web API: Multi-tier backend built with ABP framework for request handling, business logic, and integration with data/AI services.
- SignalR Server: Provides real-time communication and event broadcasting to Angular frontends.
- Background Job Workers: Execute scheduled and background tasks such as data indexing, file processing, and embedding generation.

### Data Layer

- MS SQL Server: Central database for application data, logs, and background job worker persistence.
- Redis Cache: Improves performance through caching and supports scale-out.
- File Share: Stores uploaded files, documents, and AI processing artifacts.

## **AI Services**

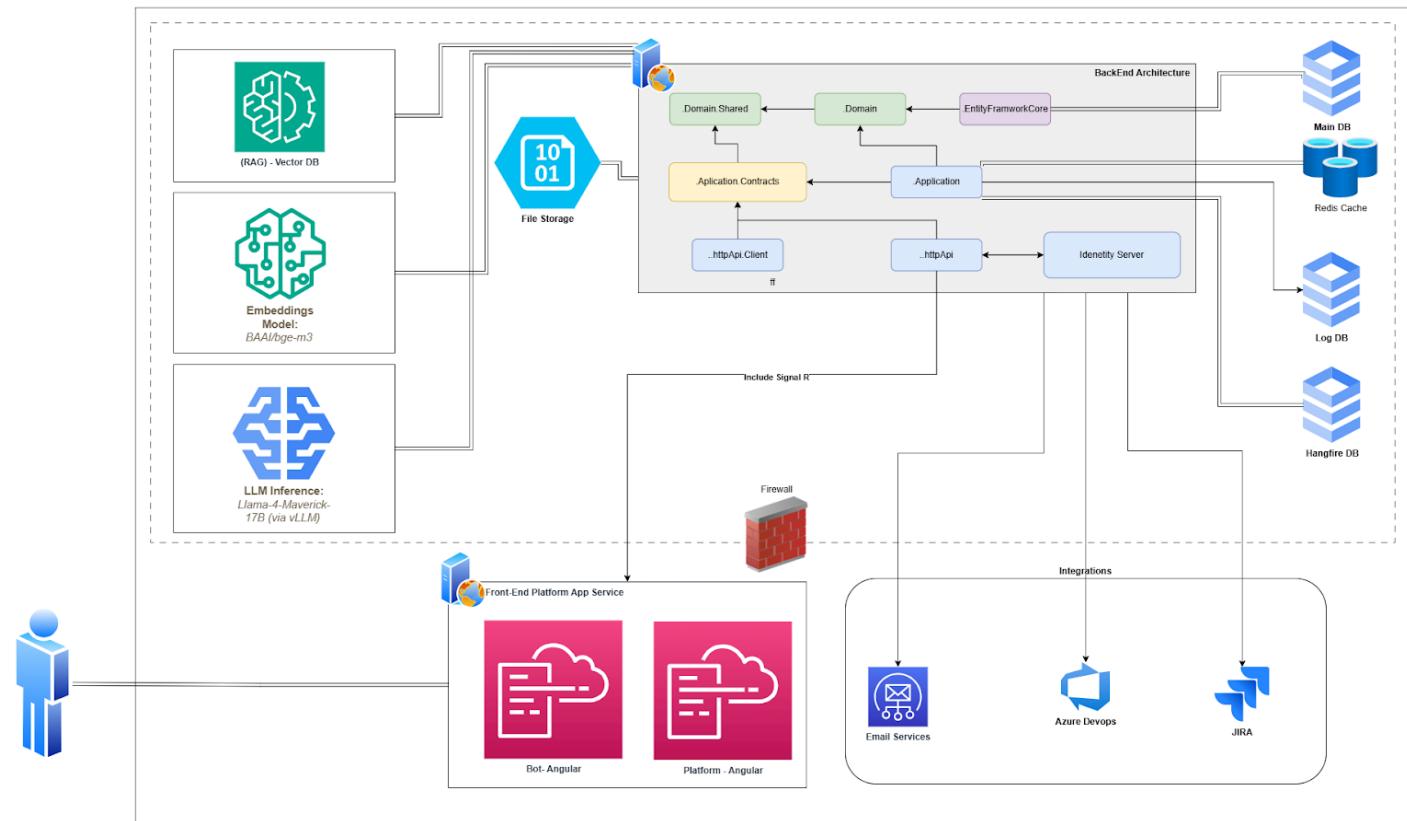
AI processing components operate fully offline using:

- **Embeddings Model:** *BAAI/bge-m3* for semantic vector generation and search.
- **LLM Inference:** *Llama-4-Maverick-17B* (*via vLLM*) for natural language understanding and RAG pipeline integration.

## **Vector Database**

*Hosted on a Linux server running Kubernetes + Docker, serving as the vector store for embeddings and supporting Retrieval-Augmented Generation (RAG).*

## 4.1 Solution Architecture Diagram



## 4.2 Intellico On-Premises Technology Stack Table

Layer / Module	Technology / Tools	Purpose / Description
Main Web UI	Angular 16+	Main web user interface for platform users.
Chatbot UI	Angular 16+	User interface for chatbot users interacting with backend APIs.
Architecture Core	ABP Framework (.NET 8)	Provides a modular application architecture with domain-driven layers.
Main API	ASP.NET Core Web API, (.NET 8)	The primary API layer for client-server communication.
Real-time Comm.	SignalR	Enables real-time communication for features like <b>notifications</b> and <b>live updates</b> .
Asynchronous Tasks	Background Job Workers (Hangfire, ABP)	Executes asynchronous tasks such as <b>indexing</b> , <b>file processing</b> , and <b>embedding generation</b> .
External Comm.	HTTP API Client Layer	Handles communication with external <b>AI services</b> and other integrations.
Inference Engine	vLLM	High-performance inference engine specifically for Llama models.
Main LLM	Llama-4-Maverick-17B	The core Large Language Model for <b>RAG</b> , <b>chat</b> , <b>summarization</b> , and <b>reasoning</b> .
Embedding Model	BAAI/bge-m3	Embedding model used for <b>vector similarity search</b> .

<b>Vector Store</b>	Vector DB	Stores semantic embeddings necessary for the <b>Retrieval-Augmented Generation (RAG)</b> process.
<b>Main Database</b>	MS SQL Server	Primary application database storing <b>users, documents, logs, and jobs</b> .
<b>High-Speed Cache</b>	Redis Cache	Used for <b>caching</b> , managing <b>tokens</b> , and providing high-speed data access.
<b>File Storage</b>	File Storage	Dedicated storage for raw <b>documents</b> and <b>uploads</b> .
<b>Project Mgmt.</b>	Azure DevOps	Optional integration for project management purposes.
<b>Email Service</b>	Email SMTP Service	Mechanism for <b>sharing documents</b> by email.
<b>Logging</b>	App/DB Logs	Centralized logging solution (stored in SQL/Files).
<b>Security</b>	Firewalls (Perimeter + Internal)	Network security protecting the <b>APIs, DBs, and AI workloads</b> .

### Containerized Deployment (Docker & Kubernetes)

The API layer, frontend applications, in addition to RAG components, can be fully deployed using Docker and Kubernetes. This enables scalable, modular, and easily managed environments within the client's on-premise infrastructure. Using container orchestration ensures efficient resource utilization, simplified updates, service isolation, automated recovery, and improved overall system reliability.

## 4.3 Production Infrastructure Requirements

Intellico can be deployed on SDAIA's existing infrastructure using containerized services or virtual machines.

Below are the recommended minimum specifications for optimal performance:

Component	Recommended Specification
Application Server	6-8 vCPU, 24-32 GB RAM, Windows
Database Server	8-12 vCPU, 32-48 GB RAM, SQL Server 2022
Storage	2 TB NVMe SSD (expandable)
Network	10 Gbps LAN connectivity

## 4.4 Detailed Hardware Model / Service Specifications

Model / Service Name	Hardware Specs	Purpose & Usage	Capabilities
<b>Llama-4-Maverick-17B-128E-Instruct-FP8</b>	GPUs: H200 141 GB (8 cards) CPU: Dual EPYC/Xeon, 64–96 vCPUs RAM: 256 GB DDR5 Storage: 2 TB NVMe SSD Networking: NVLink/NV Switch interconnect, 100 Gbps NIC Software: vLLM + tensor parallelism (TP=8), speculative decoding enabled	Language understanding & image processing	Input: text and images (1M tokens) Output: text (1M tokens) Languages: ar, en, fr, de, hi, id, it, pt, es, tl, th, vi Response formats: Text
<b>BAAI/bge-m3 (Embeddings Model)</b>	GPUs: H100/A100 (1 card) RAM: 128 GB Storage: 2 TB SSD	Generate semantic vector embeddings	Dimensions: 1024 Used for RAG semantic search
<b>RAG Vector Database</b>	CPU: 16 vCPUs Memory: 64 GB RAM Storage: 500 GB SSD	Optimum storage and retrieval for vector data	Optimum storage and retrieval

**Note:** Client will provide the infrastructure resources for deployment.

## 5 Project Scope & Timeline

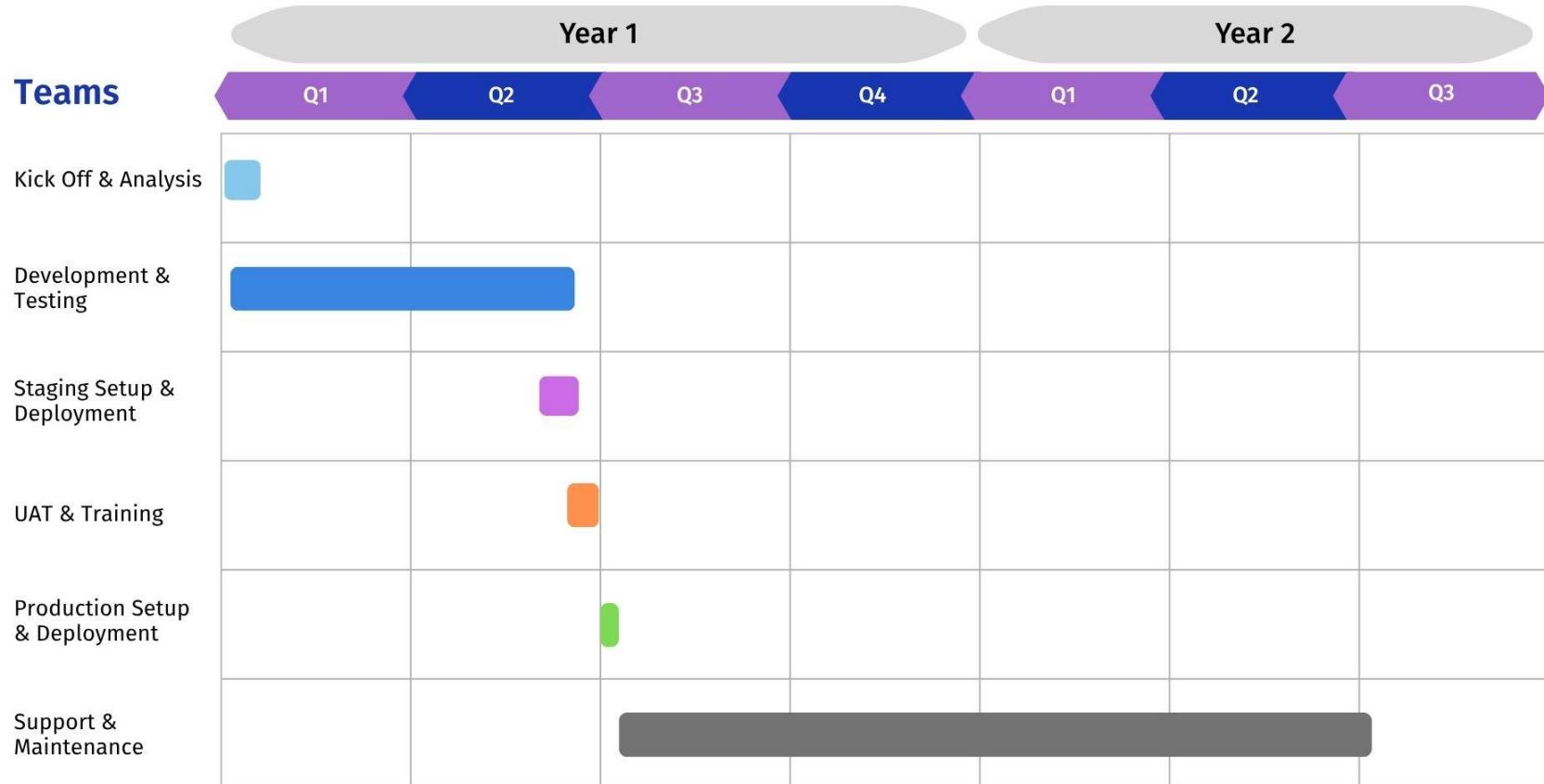
### 5.1 Scope & Deliverables

Project Phase	Scope Overview	Key Deliverables
1. Kick-Off & Analysis	Initiate project, align objectives, define requirements, and validate technical readiness for on-premise deployment.	<ul style="list-style-type: none"><li>• Project charter &amp; plan</li><li>• Requirements &amp; technical analysis document</li><li>• Deployment prerequisites and communication matrix</li><li>• Communication plan</li></ul>
2. Development & Testing	Customize Intellico modules to meet the selected AI models, integrate AI models, and perform internal QA.	<ul style="list-style-type: none"><li>• Configured the Intellico platform for on-premises deployment</li><li>• QA reports</li><li>• Vulnerability Testing Report</li></ul>
3. Staging Setup & Deployment	Deploy the first working version of the platform internally for verification and performance testing.	<ul style="list-style-type: none"><li>• Staging deployment</li><li>• Environment configuration files</li><li>• Staging demo instance</li></ul>

4. UAT & Training	<p>Ensure the platform meets business expectations, conduct user testing, and build internal capability.</p>	<ul style="list-style-type: none"> <li>• UAT execution document</li> <li>• UAT testing support</li> <li>• Training sessions for teams</li> <li>• Knowledge transfer documentation</li> </ul>
5. Production Setup & Go-Live	<p>Deploy the stable platform for operational use and finalize readiness.</p>	<ul style="list-style-type: none"> <li>• Production deployment</li> <li>• Final security hardening</li> <li>• System readiness report</li> <li>• Go-live plan &amp; execution</li> <li>• User manual document</li> </ul>
6. Support & Maintenance	<p>Provide ongoing assistance, enhancements, system monitoring, and SLA-based support.</p>	<ul style="list-style-type: none"> <li>• SLA support coverage</li> <li>• Patches, fixes, and enhancements</li> </ul>

## 5.2 Project Timeline

## ON-PRIME PROJECT TIMELINE



## 6 Service Level Agreement

This SLA defines commitments based on the **Severity of the Issue**, ensuring the most critical problems are addressed immediately.

Issue Priority Level	Definition & Criteria	Target Initial Response Time (24x7)	Target Resolution/Fix Time	Escalation Path
		30 Minutes	4 Hours OR (Continuous effort until resolution)	Immediately to Management/Director Level
Critical	<b>System Down/Unusable:</b> Complete failure of the core platform or a catastrophic data loss event. No current workaround available. <b>Impact:</b> All users or core business functions stopped.			
High	<b>Major Impairment:</b> Key feature or module is unusable, causing significant impact to a large number of users or a business unit. A partial or temporary workaround may exist. <b>Impact:</b> Significant disruption, but not a total halt.	2 Hours	1 Day	Manager/Lead Engineer Level
Medium/Low	<b>Minor Defect/Request:</b> Minimal business impact, single-user issues, non-essential feature defects, or general "how-to" questions and	4 Hours	5 Business Days (Or included in next scheduled release)	Standard Support Team

	configuration changes. <b>Impact:</b> Low disruption.			
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## 7 Intellico Project Team & Roles

Below is a table detailing the roles and responsibilities of the specified positions on the Intellico side working on the project.

Position	Role / Responsibilities
Project Manager	<b>Overall Project Execution:</b> Manages the entire project lifecycle, ensuring on-time and on-budget delivery. Coordinates tasks, manages risks, handles stakeholder communication, and tracks progress against the plan.
Sr. Product Owner	<b>Product Vision &amp; Backlog:</b> Defines the product vision, manages and prioritizes the <b>product backlog</b> (features, user stories), and represents the customer/business needs to the development team.
Technical Team Lead	<b>Technical Leadership (Backend):</b> Oversees the <b>.NET/Application Tier</b> development team. Responsible for architecture design, code quality, technical decision-making, mentoring junior developers, and code reviews.
Sr. Backend Developer	<b>Backend Development:</b> Implements and maintains the core business logic, APIs ( <b>ASP.NET Core Web API</b> ), and database interactions ( <b>MS SQL Server</b> ) within the Application Tier.

Sr. Front End	<b>Frontend Development &amp; UX:</b> Leads the development of the user interfaces ( <b>Angular 16+</b> ). Ensures application performance, scalability, and adherence to design standards and user experience (UX) principles.
Sr. Quality Assurance Engineer	<b>Quality Assurance &amp; Testing:</b> Designs and executes comprehensive testing strategies (manual and automated). Ensures the product meets all functional and non-functional requirements and maintains high-quality standards.
Sr. Devops Engineer	<b>Infrastructure &amp; Automation (App Tier):</b> Manages the CI/CD pipelines, deployment process ( <b>Kubernetes/Docker</b> for the Application Tier), monitoring, logging, and overall system reliability.
AI Engineer	<b>Model Integration &amp; RAG:</b> Focuses on integrating the <b>LLM (Llama-4-Maverick-17B)</b> and <b>Embedding Model (BAAI/bge-m3)</b> . Designs and optimizes the <b>RAG</b> pipeline and relevant AI logic.
AI Devops Engineer	<b>AI Infrastructure &amp; MLOps:</b> Manages the infrastructure specifically for the AI services ( <b>vLLM</b> and Vector DB). Handles model deployment, scaling, performance optimization, and monitoring in the on-premises environment.
CTO	<b>Executive Technical Oversight:</b> Provides high-level technical direction and strategy. Ensures the project's architecture aligns with the company's long-term technical vision and standards.

## 8 Pricing & Commercials

The following pricing structure outlines the total investment required for the deployment, licensing, and implementation of the Intellico platform under a perpetual license model. All costs are one time unless otherwise specified.

### 8.1 Cost Breakdown Table

Cost Component	Description	Cost before VAT% (SAR)
<b>Perpetual Software License (One-Time)</b>	Licensing for Intellico platform, all modules, compliance alignment, and perpetual usage rights	<b>4,070,000</b>
<b>Implementation &amp; Integration (One-Time)</b>	Deployment, setup & configuration, integrations, and training	<b>3,330,000</b>
<b>Hardware ,Compute Costs &amp; Essential Licenses</b>	To be provided by the client; vendor supports with scoping or procurement guidance	<b>N/A</b>
<b>Support &amp; Maintenance – Year 1</b>	On-site engineer Included free of charge for the first year of support	<b>0</b>
<b>Support &amp; Maintenance – Year 2+</b>	Annual system support, updates, patches, AI model improvements	<b>1,110,000 / year</b>
<b>Total</b>		<b>7,400,000</b>