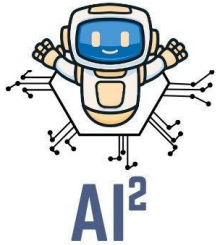




# AI<sup>2</sup>

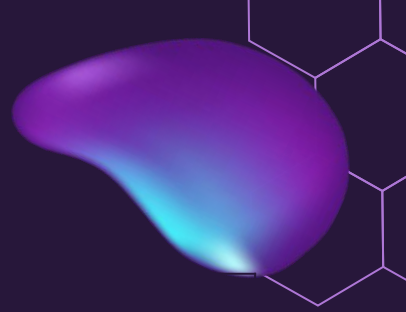
## Artificially Intelligent Invoices



Team Copper  
Fall 2025



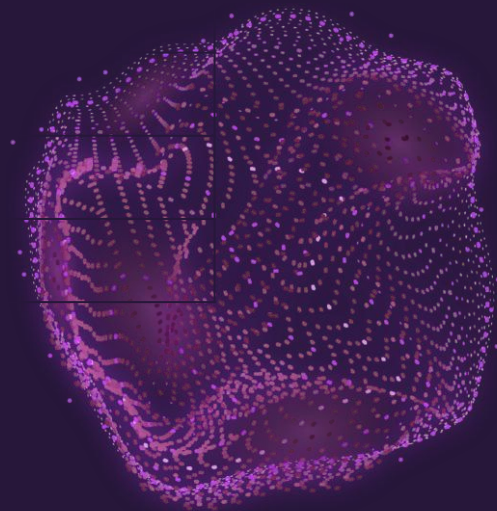
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# Meet The Team



Dusan Djordjevic  
Project Lead



Julian Diaz  
Back-End Developer



Lynda Salinas Ascanova  
Webmaster



Savannah Todd  
Webmaster



Tommy Fuller  
Full Stack Developer



Craig Grubb  
Software Developer  
and Database



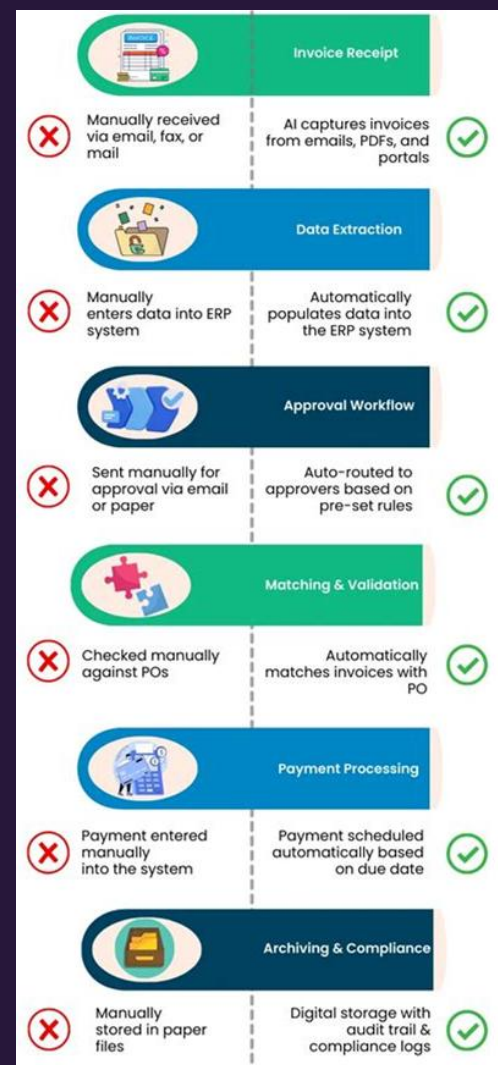
Michael Nimitz  
Software Developer  
and Database



Quin Elson  
Front-End Developer

# Background

- ◆ Manual invoice processing is still widespread across a variety of industries: Approximately 90% of companies rely on manual processing
- ◆ Cost per invoice: \$12-\$40 (manual) as opposed to \$3-\$6 (automated) [3]
- ◆ Turn around time: 10-15 days for manual processing vs. less than 5 days with an automated system
- ◆ Errors are made an estimated 1%-3% of the time when manual processing is used, which can strain business relationships
- ◆ Overall: Manual processing is expensive, slow, and prone to errors



# Background

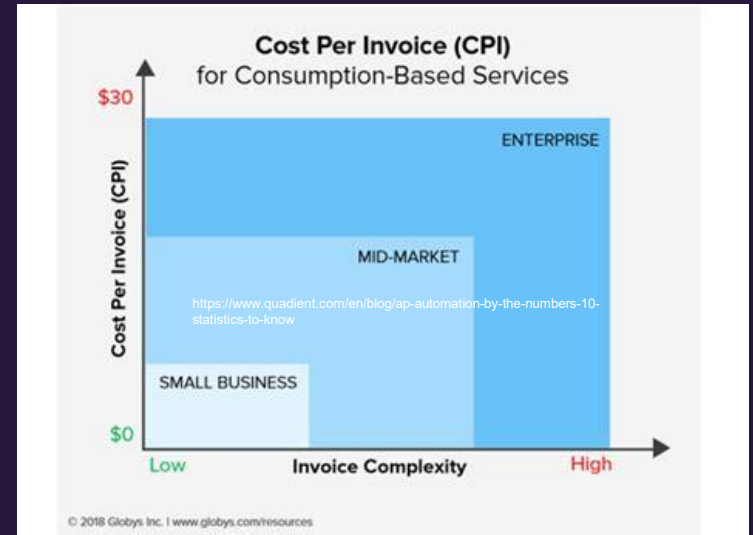
- ◆ 96% of employees report dissatisfaction with the AP tools that they have been provided with [4]. There is clearly a deficiency with the tools currently available.
- ◆ A Gartner study found that 59% of accountants make several financial errors monthly, and cited that many of these mistakes are caused by overextension at work [6].
- ◆ As part of the AP team, accountants and their coworkers would have their workload greatly reduced by automating invoice processing, with studies showing an 80% increase in productivity after adopting AP Automation [7].
- ◆ Automating invoice processing would not only let AP employees shift their focus back onto work utilizing their special skills, and reduce accounting errors, it would greatly boost employee morale as well.



[5]

# Background ADS Case Example

- ◆ ADS processes 150,000 invoices annually from ~3,000 individual suppliers
- ◆ A small team of around 6 staff members handle invoices that are received in a variety of formats PDFs, spreadsheets, etc.
- ◆ Manual handling leads to
  - Delays and payment backlogs
  - Errors (duplicates, mismatches, etc.)
  - Staff overload due to (needless stress over inefficiency)
- ◆ Bottom Line: supplier frustration, compliance risks and potential penalties





# Problem Statement

- **Accounts Payable (AP) manual processing** is costly and inefficient. Between labor costs, printing and mailing expenses, and accounting for errors, each manually processed invoice can cost between \$12 and \$40, which adds up across thousands of invoices. A manually processed invoice takes an average of 14.6 days to process.
- **Every year, ADS receives over 150,000 invoices from about 3,000 suppliers.** These invoices arrive mostly by email and come in many different formats (PDFs, scans, spreadsheets, etc.). The AP team, only 6 people, must manually review each invoice and compare it to the company's Purchase Order. This magnifies the issues of AP manual processing, leading to a high workload, potential for errors, delays, and difficulty with taking in more work.





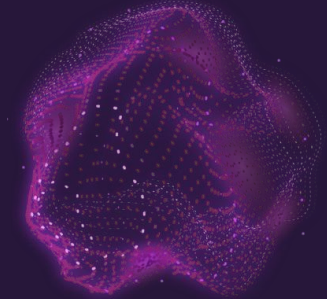
# Who is Affected

- **Users**
  - ◆ ADS Accounts Payable team, AP manager, and Finance/Accounting leadership are all looking to automate simple, common invoices.
- **Customers**
  - ◆ ADS, the company itself would be willing to provide compensation for a satisfactory product.
- **Stakeholders**
  - ◆ Vendors connected with ADS, ADS Finance, and ADS executives would all experience shorter turnaround times and more effective use of labor with automation of common, simple invoices.

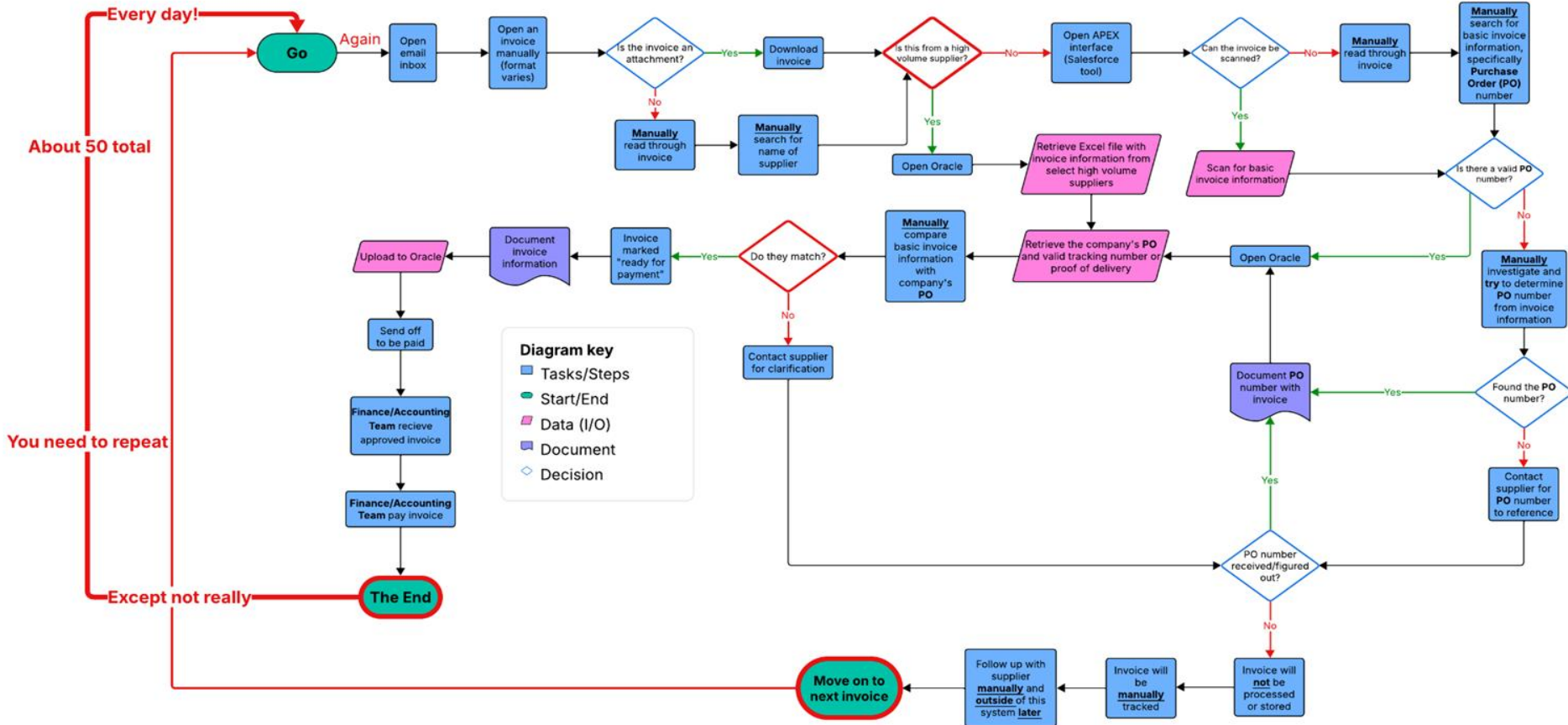


# Problem Characteristics

- ◆ **Excessive Labor Hours:** Labor accounts for 62% of total AP processing costs, mostly consisting of repetitive checking rather than value-added work
- ◆ **High Error Potential:** 39% of invoices contain errors, and  $\frac{1}{3}$  of businesses suffer from making duplicate payments
- ◆ **Delays:** Invoices take an average of 14.6 days to process, payments slowed down due to backlogs, leading to missed discounts and late fees
- ◆ **Scalability:** Already high pressure on the AP team makes it difficult for the company to take on additional clients, limiting financial growth

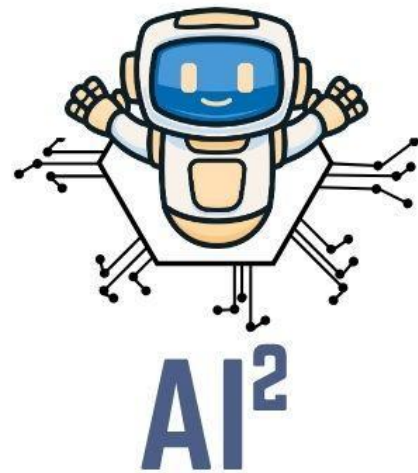


# Current Process Flow



# Our Solution: AI<sup>2</sup>

- ◆ AI<sup>2</sup> is a web-based platform that helps organizations manage high volumes of invoices with greater speed, accuracy, and transparency.
- ◆ Designed to integrate into existing financial workflows, it streamlines repetitive processing, prioritizes exceptions, and continuously adapts to diverse invoice formats across industries.
- ◆ By reducing manual workload while preserving oversight, AI<sup>2</sup> enables faster payments, fewer errors, and stronger financial compliance.



# AI<sup>2</sup> and ADS

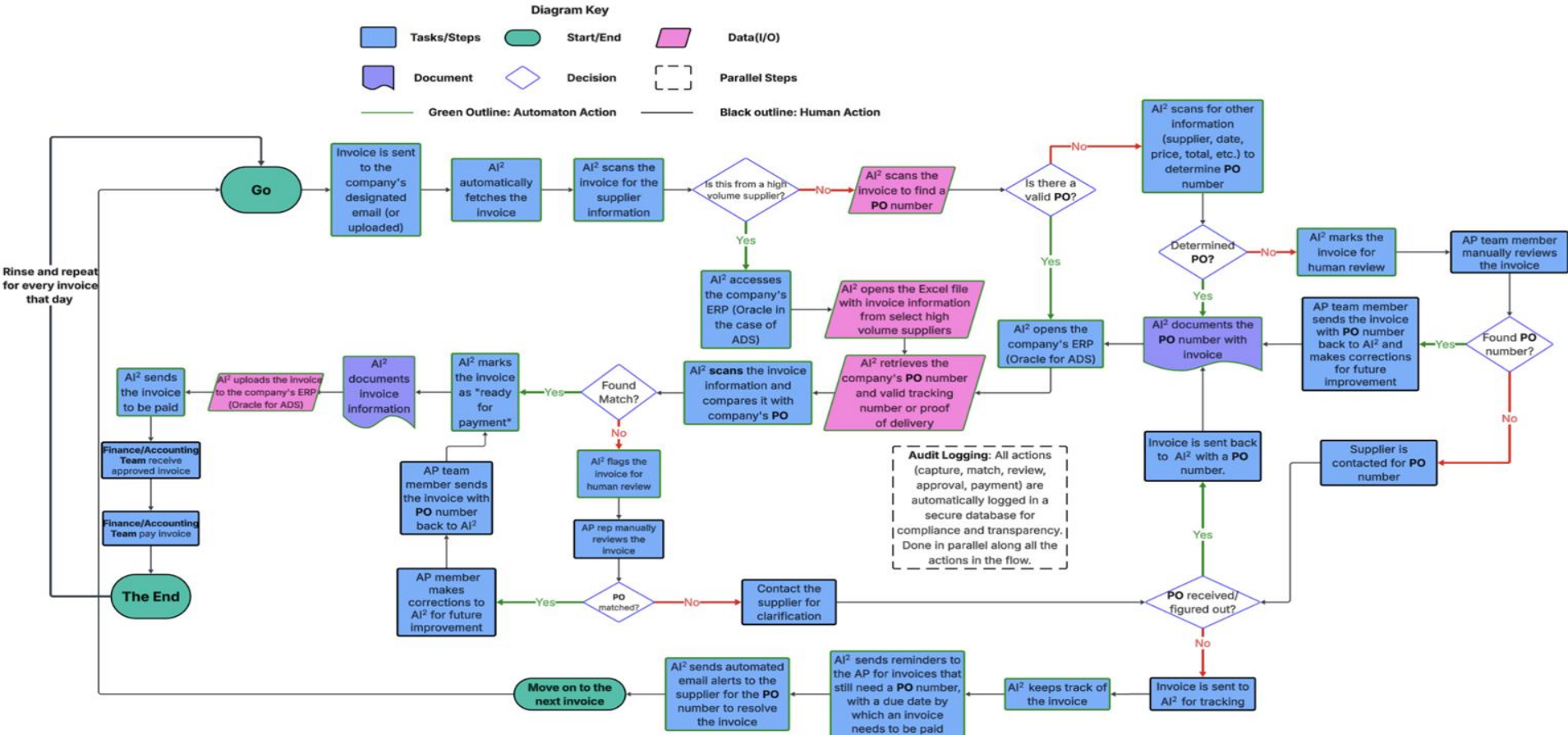
- ◆ For ADS specifically, AI<sup>2</sup> would relieve pressure on a small Accounts Payable team that currently faces over 600 invoices per day. The pressure will continue to grow as the company scales, leading to mistakes like mismatched data or “overreceipts”.
- ◆ By automating intake and matching, while routing edge cases for staff review, the system reduces backlogs and errors without removing human oversight.
- ◆ This allows ADS to accelerate payment cycles, strengthen supplier relationships, and improve overall financial health — outcomes that mirror the benefits other organizations can expect across the industry.



# Solution Characteristics

- ◆ **Efficiency – Automated Invoice Capture and Organization**
  - All invoices are automatically captured from email and structured for review, reducing manual file handling.
- ◆ **Accuracy – Smart and Fast Matching**
  - AI<sup>2</sup> automatically compares invoices to purchasing orders, accelerating processing while minimizing errors and backlogs.
- ◆ **Adaptability – Learning from Corrections**
  - The system improves by learning from staff interventions, reducing redundant work and enabling staff to focus on complex cases.
- ◆ **Transparency – Auto Logging and Compliance**
  - Every invoice and action is tracked in the database, ensuring auditability, compliance, and organizational trust.
- ◆ **Scalability – Beyond just ADS**
  - Designed to adapt to new vendors, formats, and even other companies beyond ADS.

# Solution Process Flow





# What it Will Do

- ◆ **Email Intake and Storage:** Emails will be taken upon arrival and be sorted and prioritized.
- ◆ **Volume Handling:** AI<sup>2</sup> will considerably reduce the manual processing of individual invoices.
- ◆ **AI PO Matching:** Invoices will be matched to their corresponding purchase order.
- ◆ **AI Confidence Scoring:** Scoring system based on certainty of correct purchase order to invoice matches.
- ◆ **Error Matching:** PO matches with lower confidence scores will be prioritized for human intervention.
- ◆ **Continuous Learning from Human Interaction:** System updates matching based on staff corrections.
- ◆ **Supplier Notifications:** AI<sup>2</sup> will send email alerts to suppliers.
- ◆ **AP Team Reminders:** AI<sup>2</sup> will send reminders to the AP team.

# What it Will Do

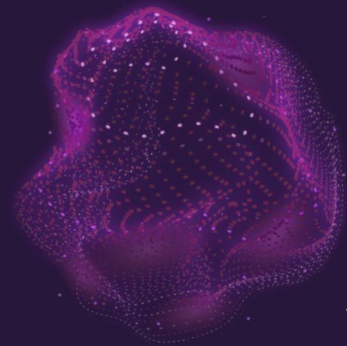
- ◆ **Audit Logging:** Invoices and system decisions are saved in a database for subsequent reviews.
- ◆ **Error Reduction:** Strain on the AP team will be reduced, leading to less mistakes.
- ◆ **Quick Implementation:** Easy for client to plug in and begin using.
- ◆ **Tailored for client:** Specially configured to meet the needs of client.
- ◆ **Long-tail vendor handling:** Streamlines monitoring of invoices from vendors supplying lower-frequency products.
- ◆ **Easily customizable:** Staff will be able to make tweaks to prioritize certain invoices.
- ◆ **Adaptable:** Customizations can be made at any time.
- ◆ **Timeliness:** Automation allows AP team to shift focus to other tasks.



# What it Will Not Do



- ◆ AI<sup>2</sup> will not instill a prioritization system for emails that are not invoice-related. The system will be set up to make priority-related decisions based on the invoice confidence scores, which will not translate to other email content.



# Competition Matrix

	AI <sup>2</sup>	Tipalti	SAP Concur	QuickBooks	Manual Processing
Volume handling	■	■	■	■	■
Error reduction	■	■	■	■	■
Less human interaction	■	■	■	■	■
Timeliness	■	■	■	■	■
AI PO matching	■	■	■	■	■
AI confidence scoring	■	■	■	■	■
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# Major Functional Components

## User Interface

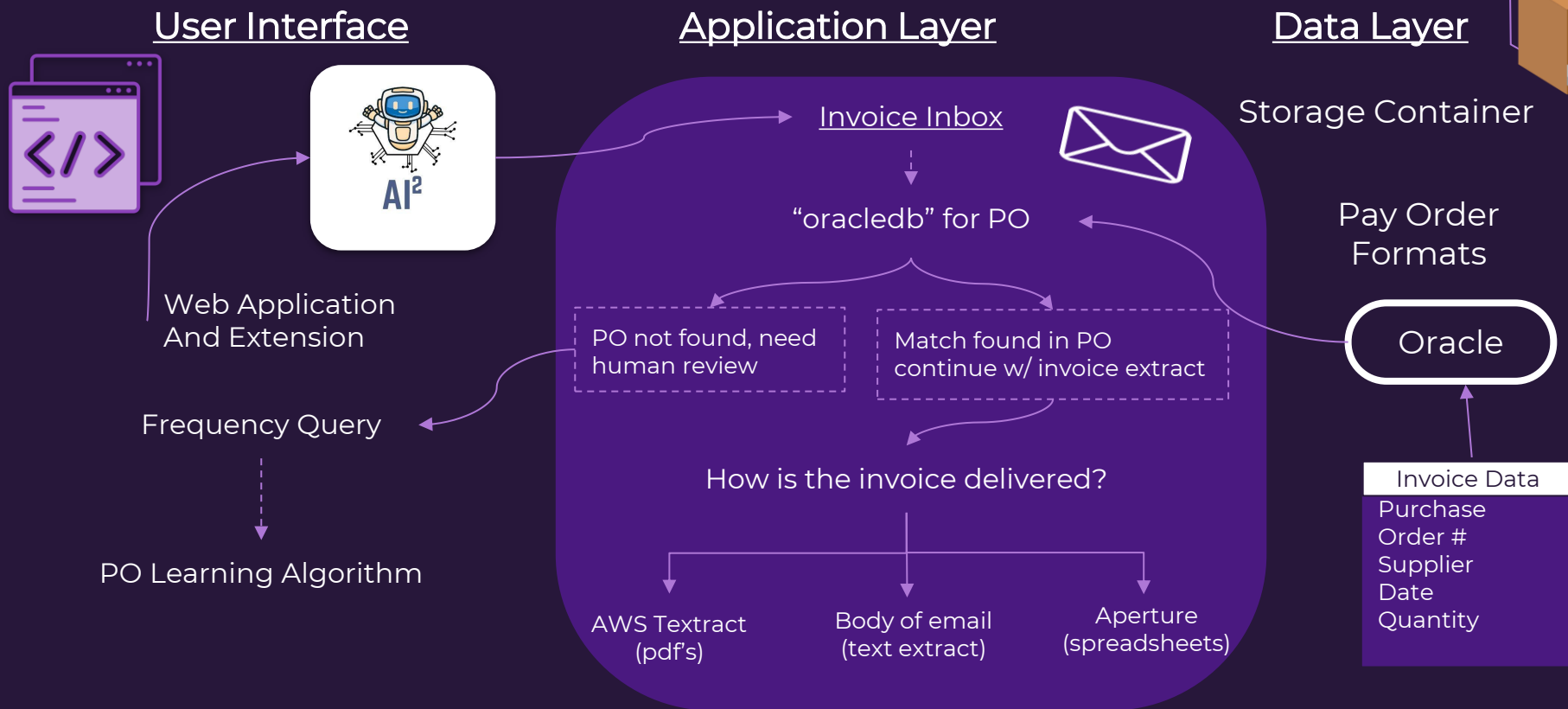
- **User Interface**
  - Website application and extension
- **Frequency Query**
  - Filter invoices -> PO based on frequencies, do they match?
- **Data-Field suggestions**
  - Based on pattern-recognition or context

## Application Layer

- **Invoice Inbox**
  - Azure (Microsoft Rest Api)
- **AWS Textract (pdf's)**
- **Aperture (spreadsheets)**
- **oracledb driver to access PO's**

## Data Layer

- **Storage Container**
  - Cloud storage (Oracle)
  - Invoice's
  - PO'S
- **Record of previously used invoice formats**
  - And the ability to edit them

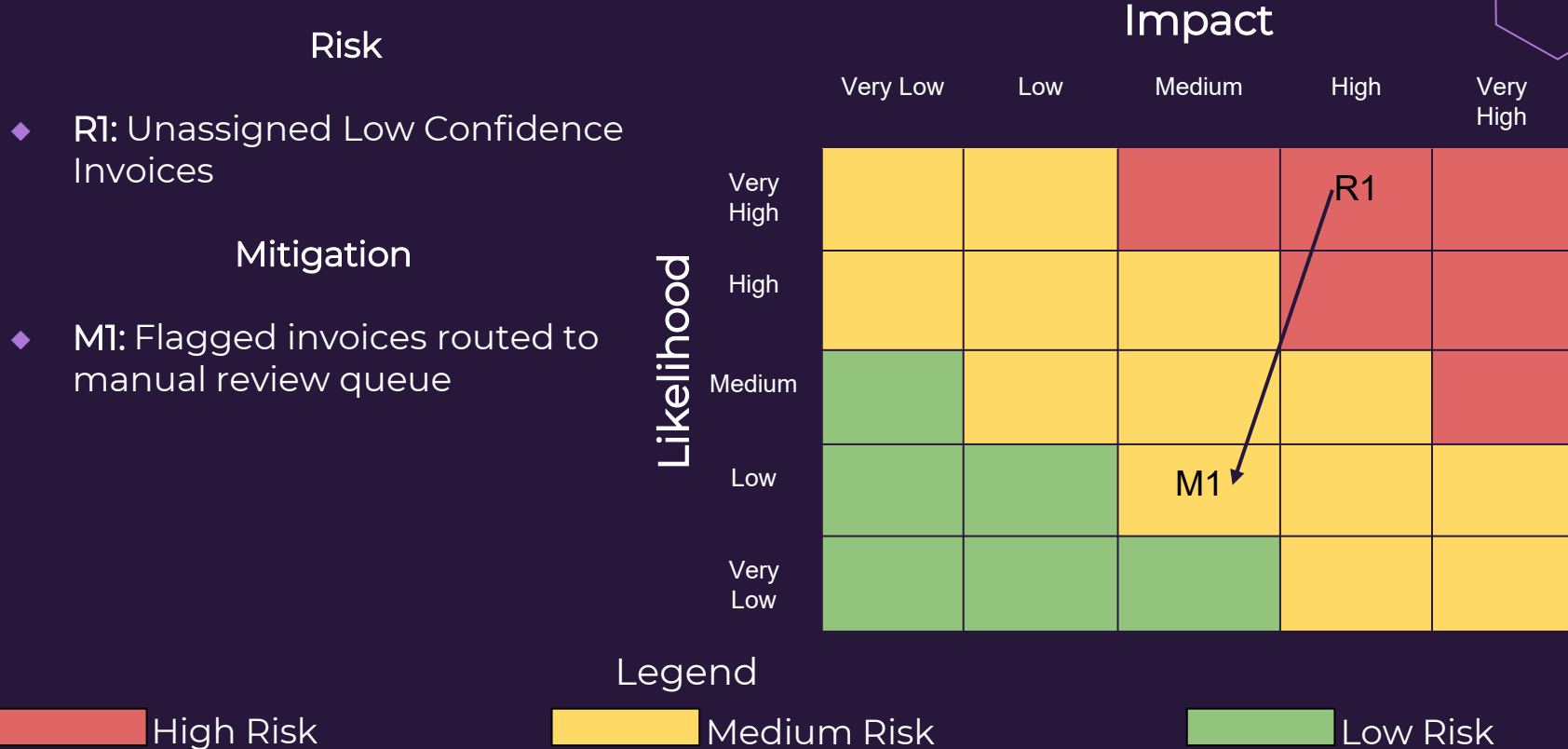


# Development Tools

- ◆ Communication: Discord
- ◆ IDE: VSCode
- ◆ Version Control: Github
- ◆ Website: Github Pages
- ◆ Team Management: Clickup

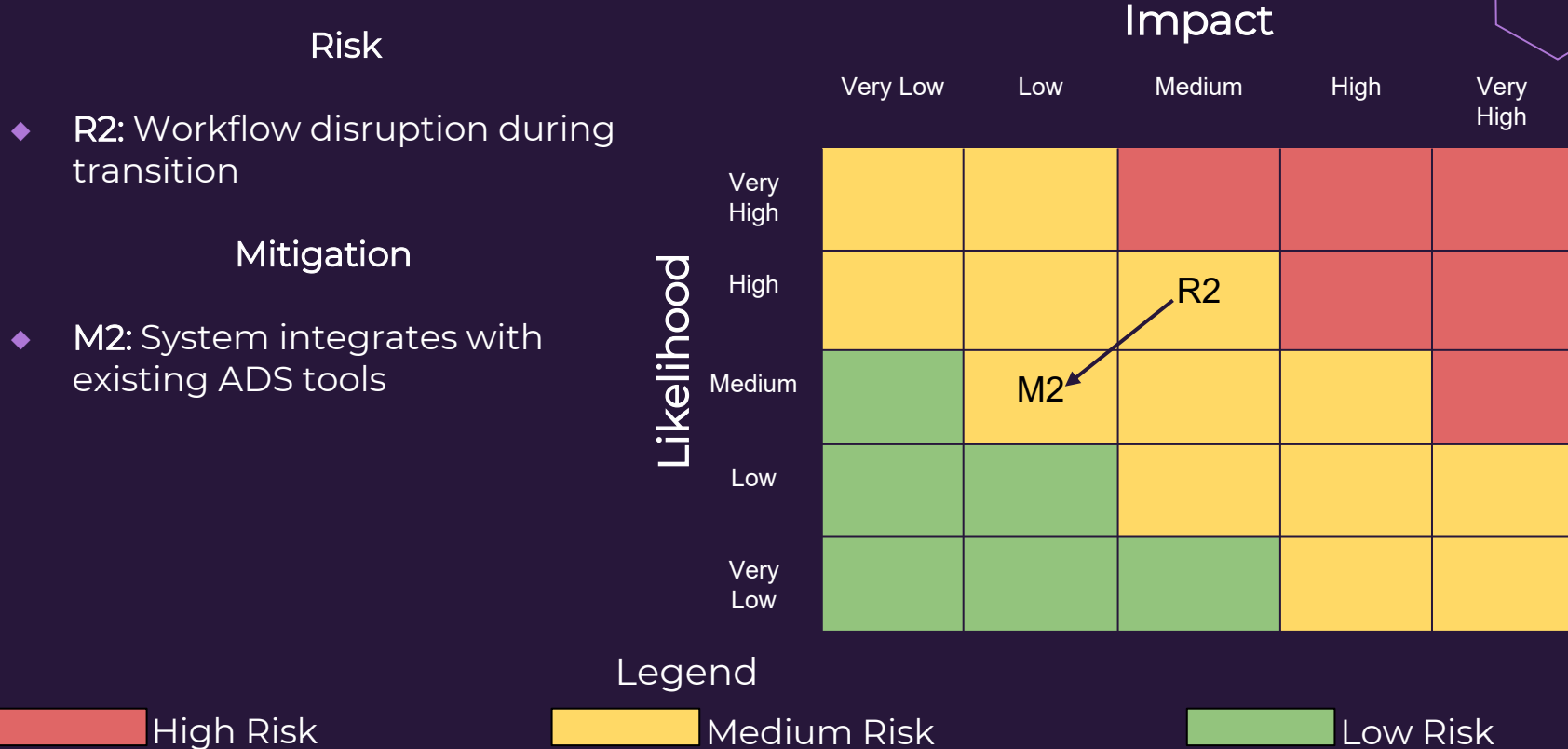


# User Risks

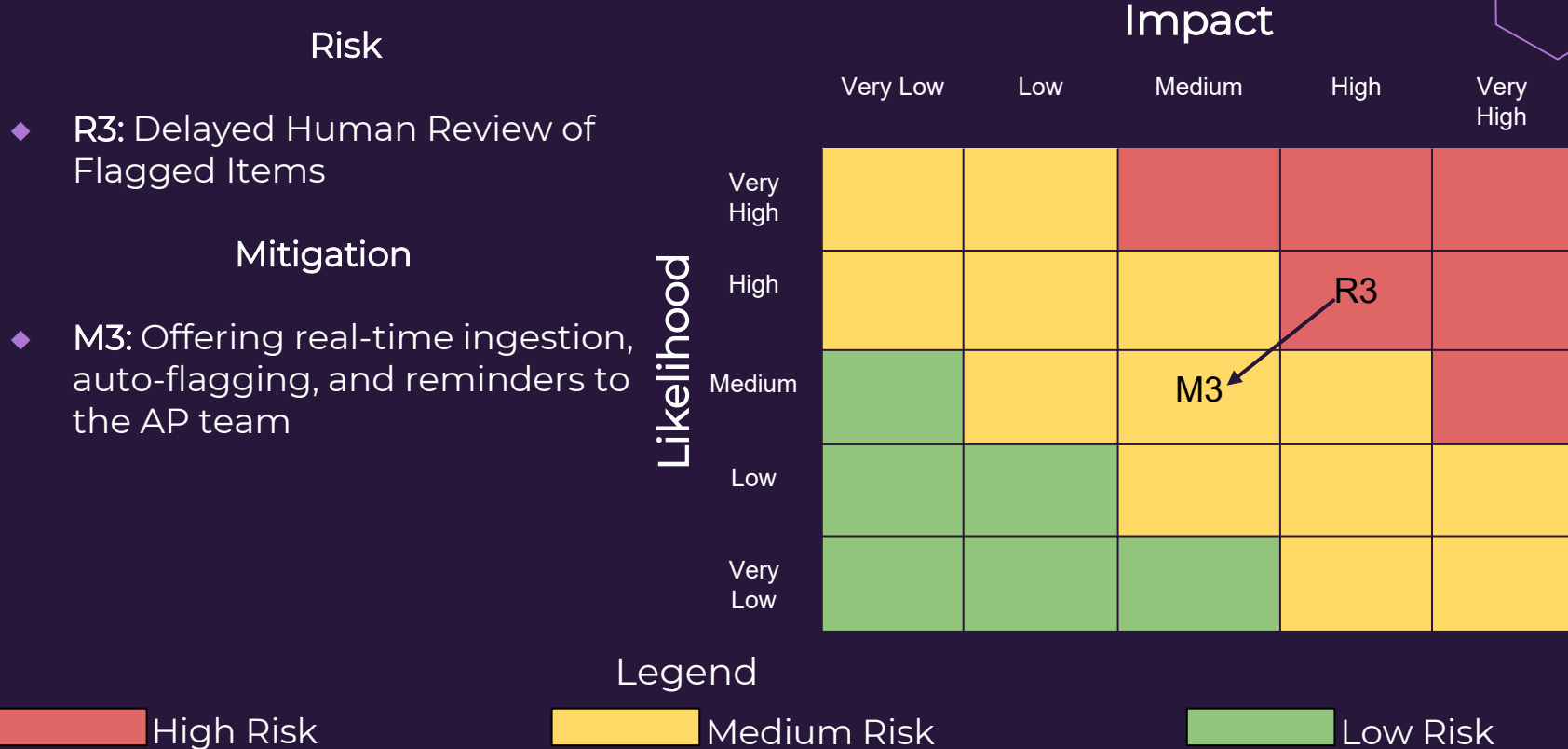




# User Risks



# User Risks



# User Risks

Risk

Impact

Very Low

Low

Medium

High

Very High

- ◆ R4: Overdependence on automation

Mitigation

- ◆ M4: Confidence scoring will trigger human review automatically

Likelihood

Very High

High

Medium

Low

Very Low

R4

M4

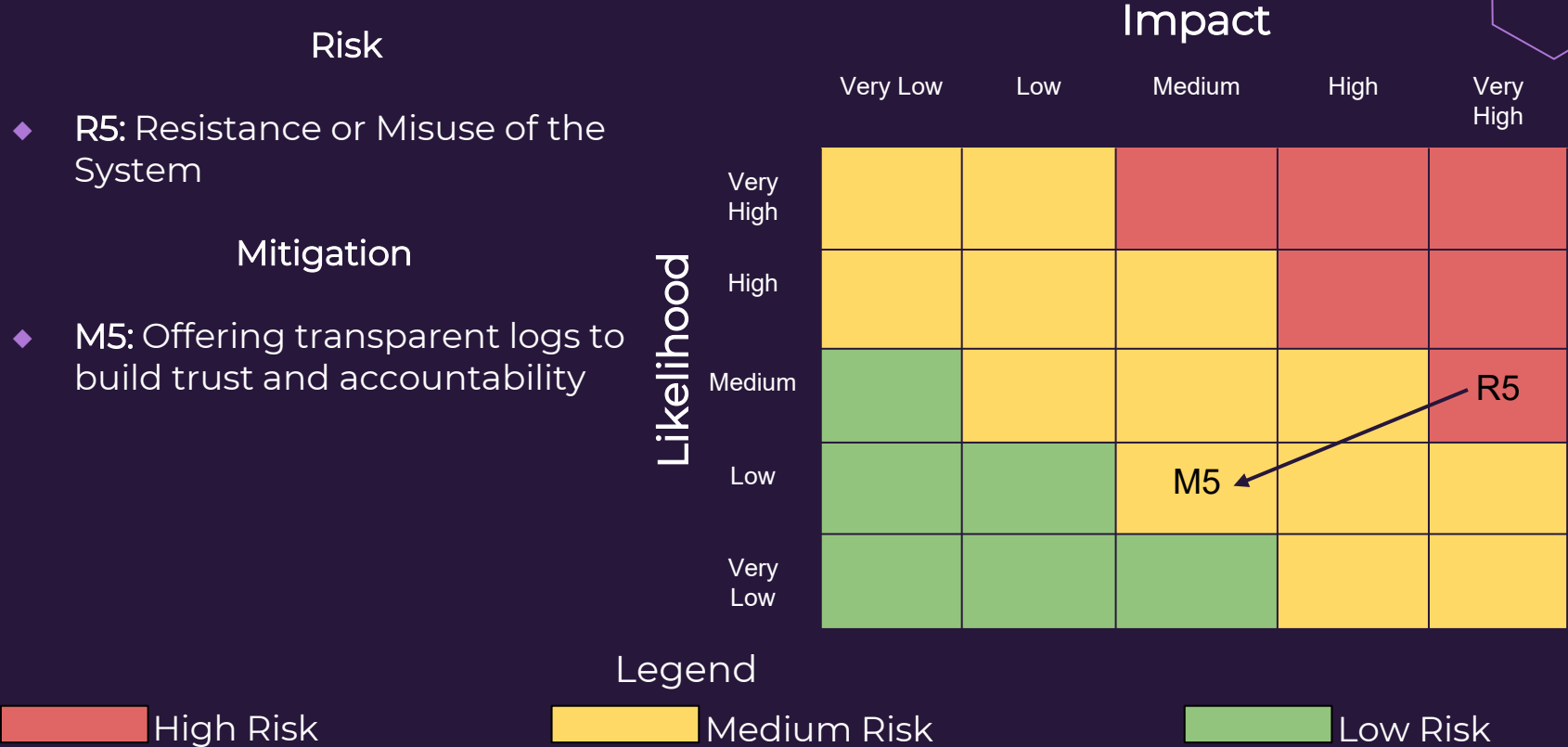
Legend

High Risk

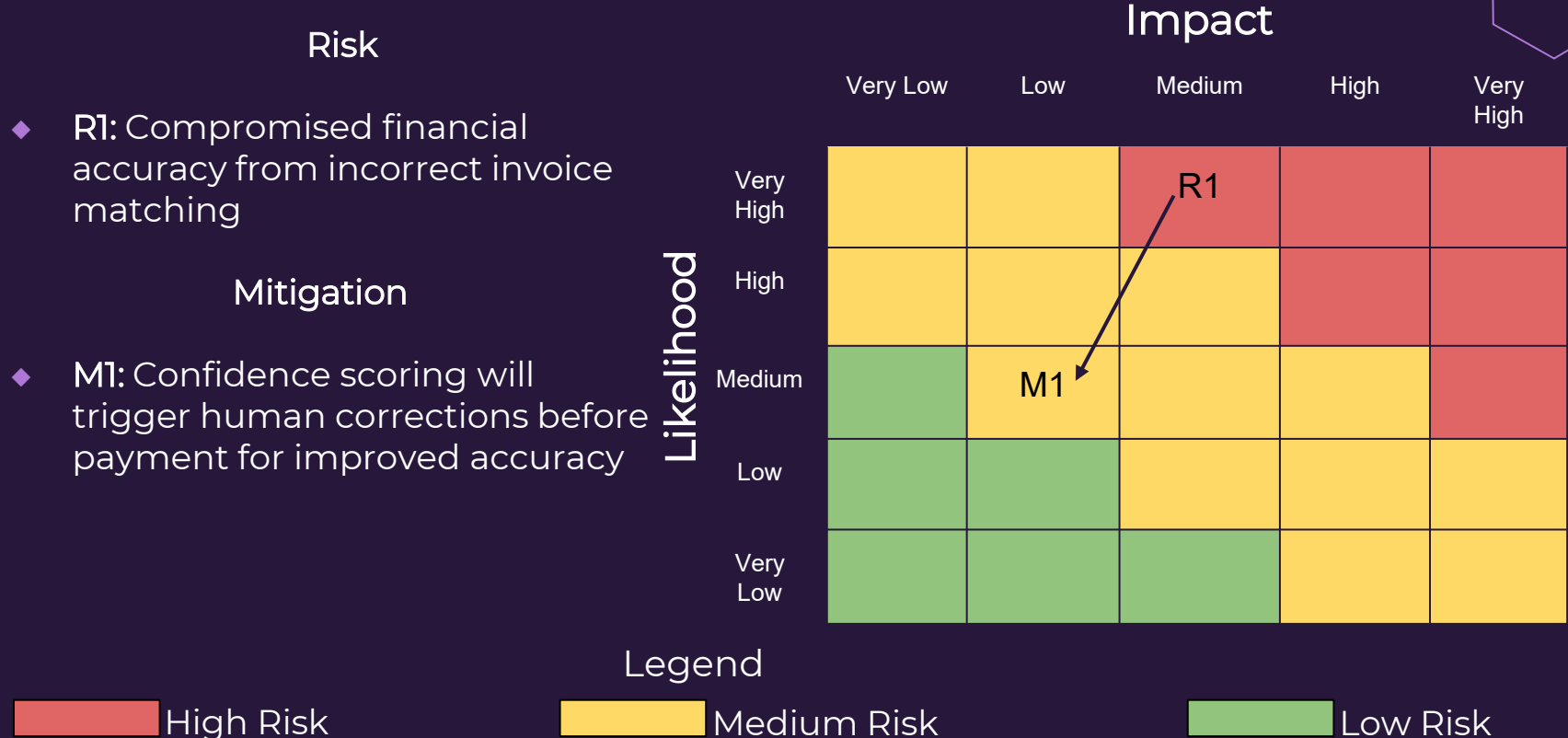
Medium Risk

Low Risk

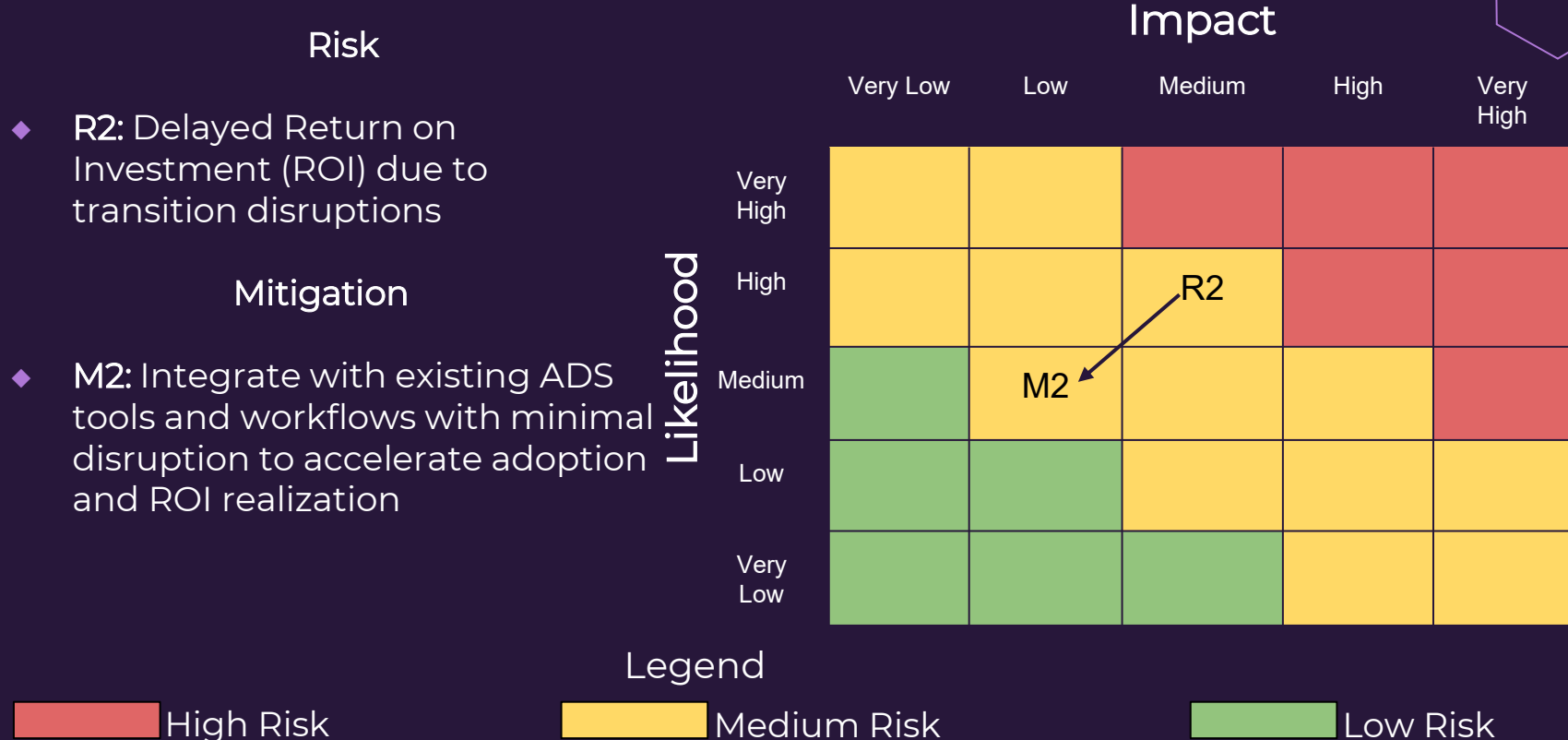
# User Risks



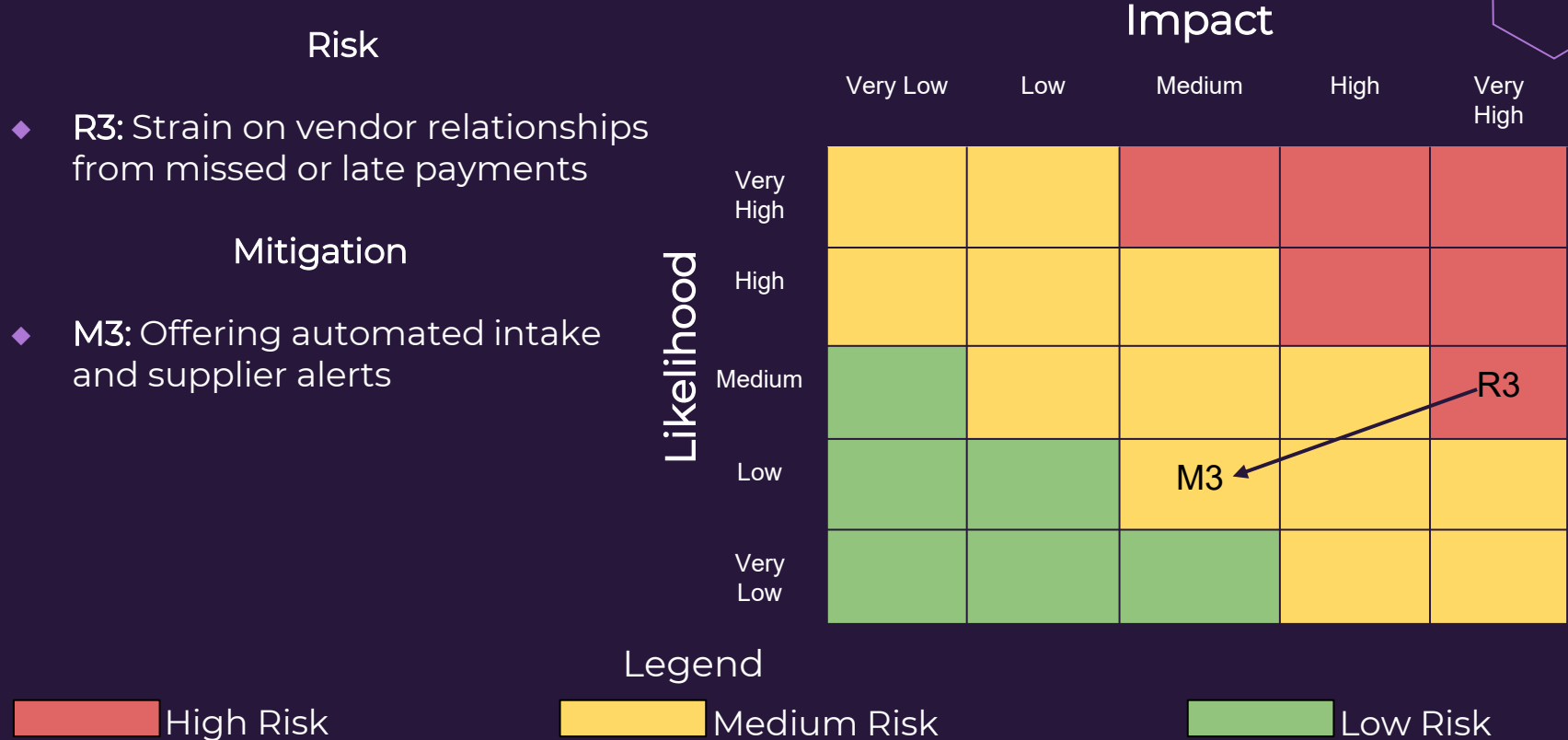
# Customer Risks



# Customer Risks



# Customer Risks



# Technical Risks

Risk

- ◆ **R1:** Optical character recognition (OCR) and parsing errors

Mitigation

- ◆ **M1:** Multi-engine OCR with validation rules

Impact

		Very Low	Low	Medium	High	Very High
Likelihood	Very High					
	High				R1	
	Medium					
	Low			M1		
	Very Low					



# Technical Risks

Risk

Impact

- ◆ R2: Low accuracy for edge cases

Mitigation

- ◆ M2: Confidence ratings to include human reviews

Likelihood

	Very Low	Low	Medium	High	Very High
Very High					
High		R2		R1	
Medium					
Low	M2		M1		
Very Low					

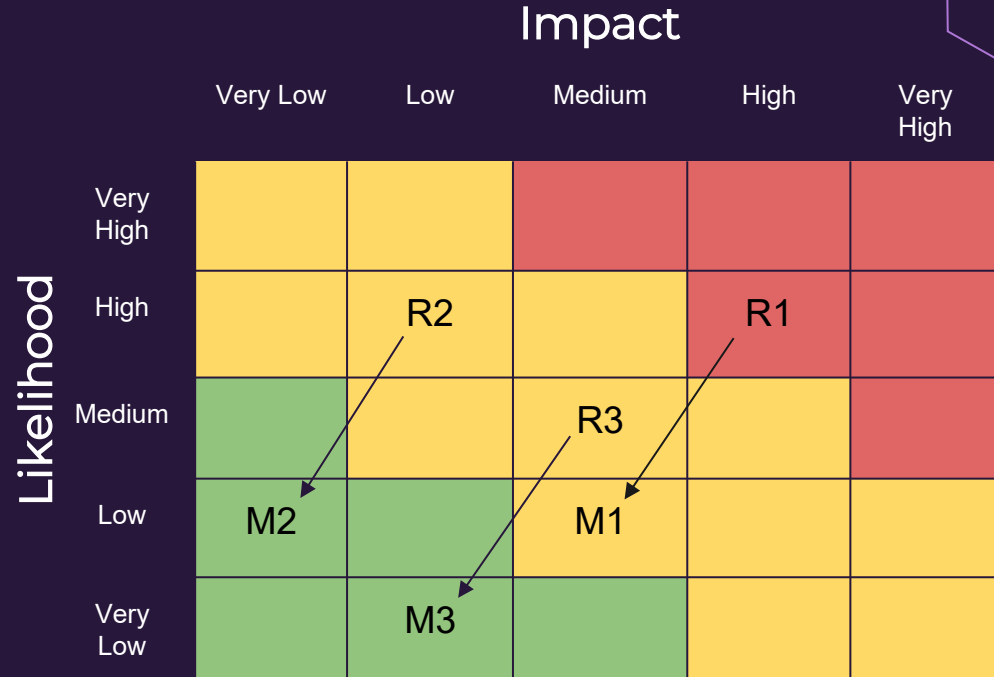
# Technical Risks

Risk

- ◆ R3: Integration failures

Mitigation

- ◆ M3: Robust APIs that include sandbox testing



# Technical Risks

Risk

Impact

◆ R4: Scalability

Mitigation

◆ M4: Microservice architecture

Likelihood

	Very Low	Low	Medium	High	Very High
Very High					
High		R2		R1	
Medium			R3	R4	
Low	M2		M1		
Very Low	M4	M3			

# Technical Risks

- ◆ Risk
  - R4: Model drift
- ◆ Mitigation
  - M4: Continuous retraining and KPI monitoring

		Impact				
		Very Low	Low	Medium	High	Very High
Likelihood	Very High					
	High		R2		R1	
	Medium			R3 R4		
	Low	M2	M4	M1		
	Very Low		M3			

# Technical Risks

Risk

Impact

- ◆ R5: AI black box

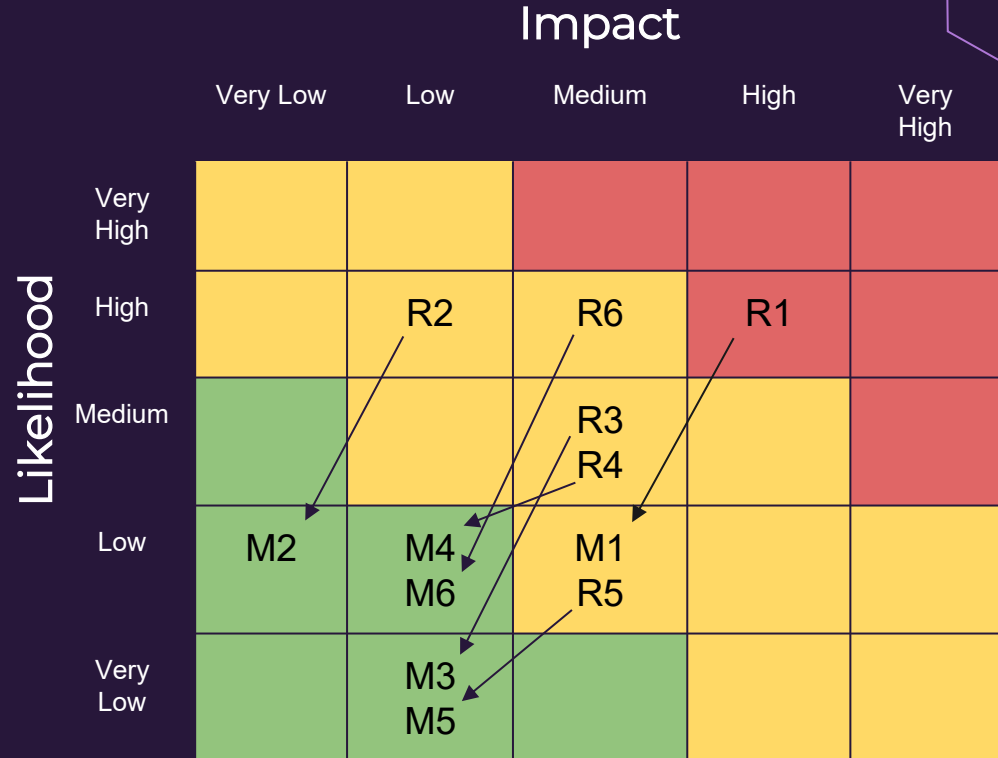
Mitigation

- ◆ M5: Include confidence scores and extracted source fields in logging

		Very Low	Low	Medium	High	Very High
Likelihood	Very High					
	High		R2		R1	
	Medium			R3 R4		
	Low	M2	M4	M1 R5		
	Very Low		M3 M5			

# Technical Risks

- ◆ **Risk**
- ◆ **R6:** Excessive manual corrections
- ◆ **Mitigation**
- ◆ **M6:** Progressive machine learning



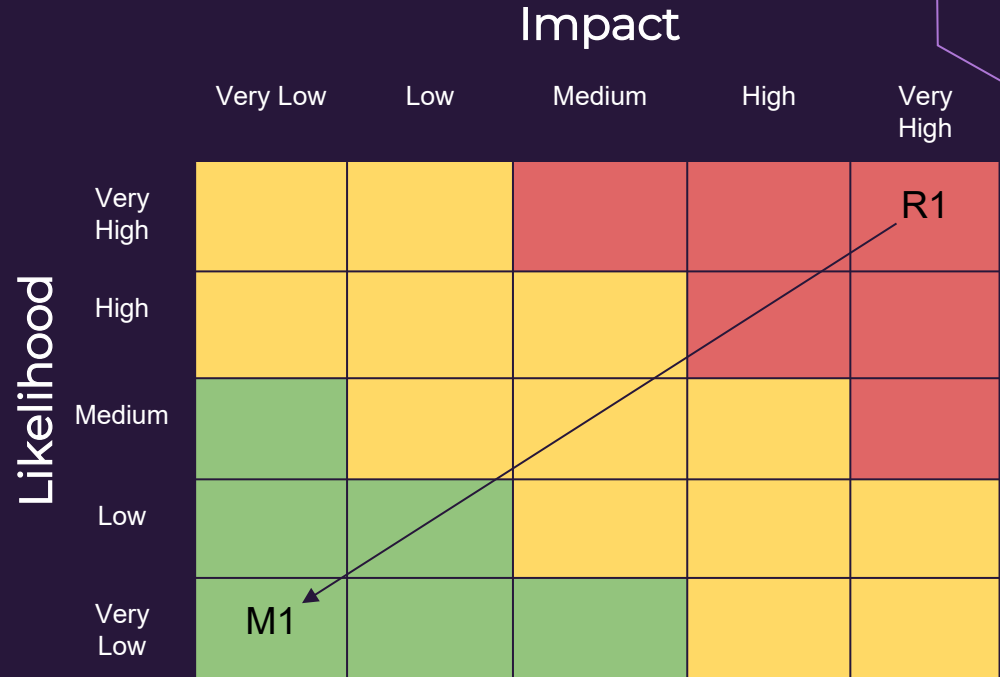
# Security Risks

Risk

- ◆ R1: Data confidentiality

Mitigation

- ◆ M1: End-to-end encryption, multi-factor authentication, and clear role-based security groups



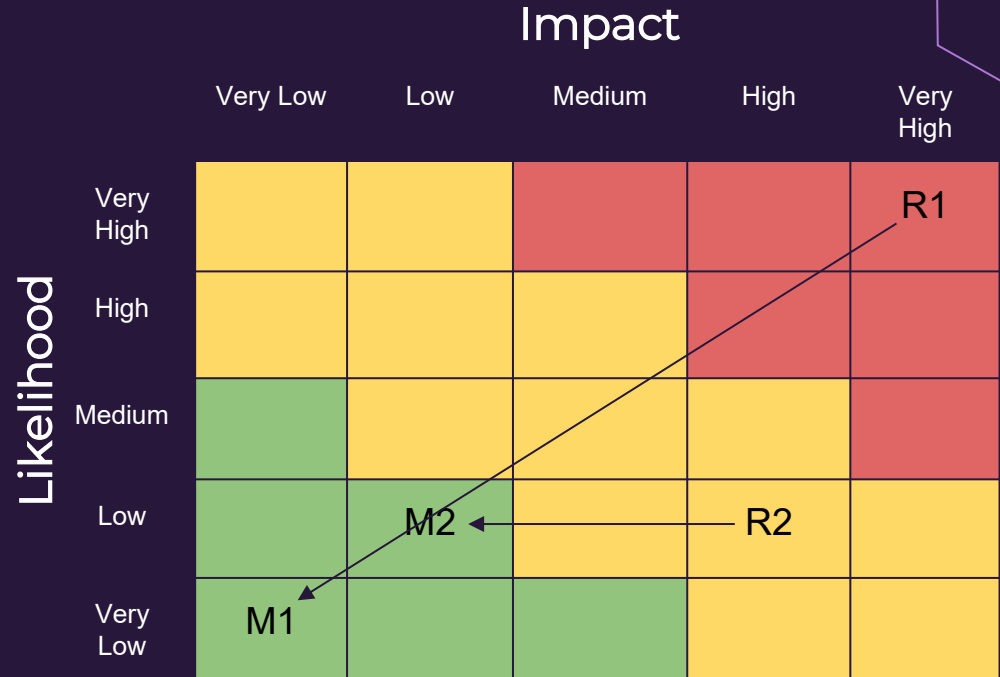
# Security Risks

Risk

- ◆ R2: Data residency

Mitigation

- ◆ M2: Provide region-specific data hosting





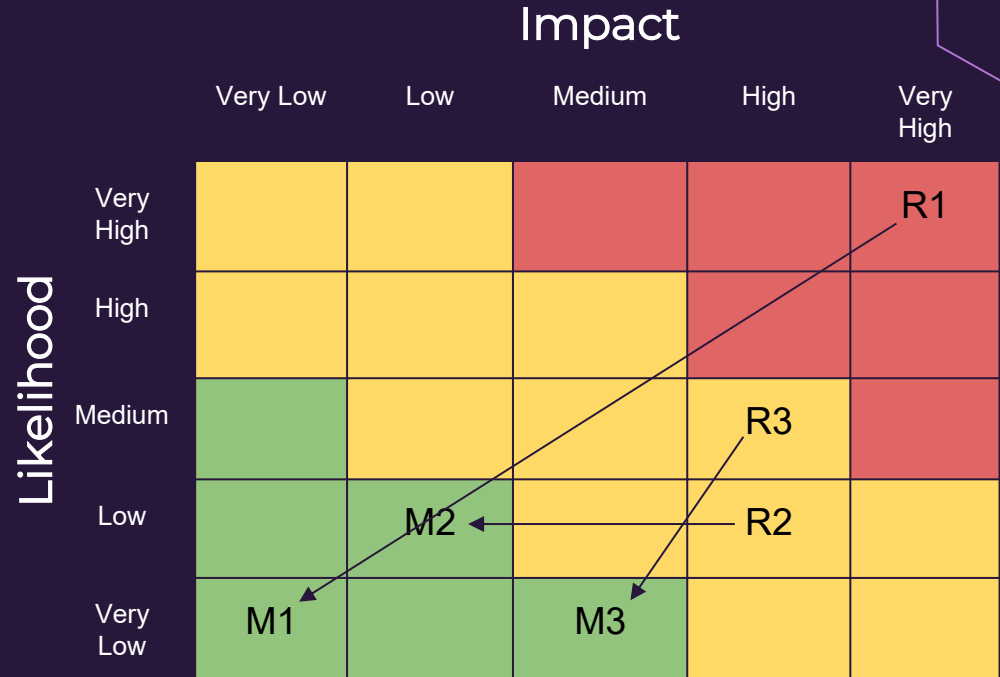
# Security Risks

Risk

- ◆ R3: Supply chain attacks

Mitigation

- ◆ M3: Malware scanning on all libraries



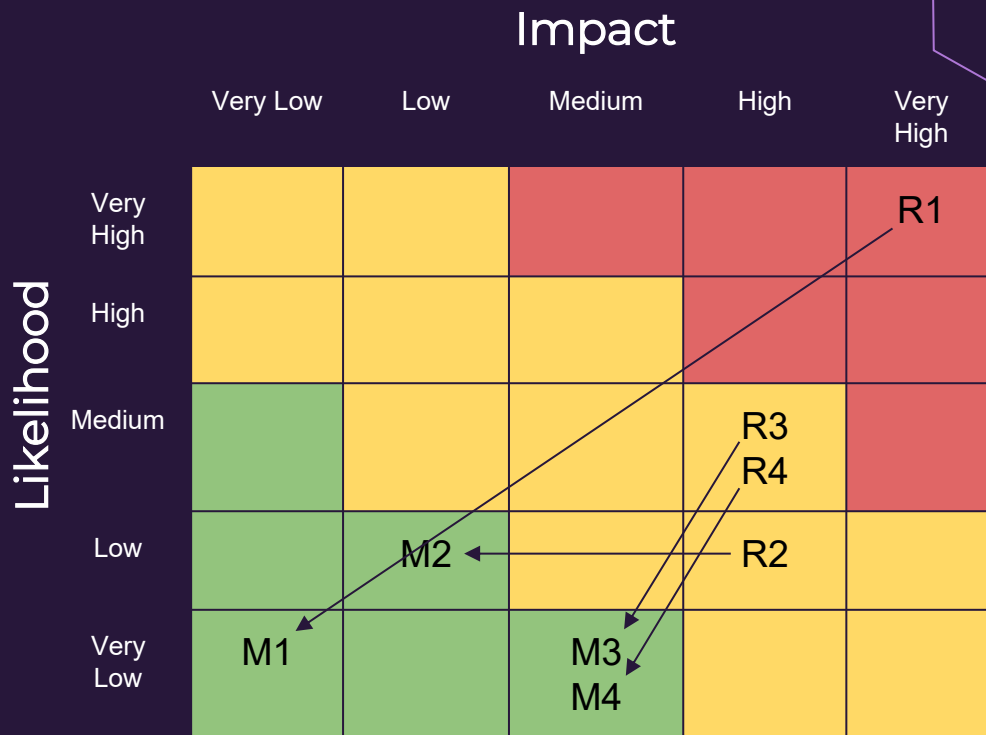
# Security Risks

Risk

- ◆ R4: Model poisoning

Mitigation

- ◆ M4: Separate production data from training data, applying data validation before retraining



# Legal Risks

## Risks

- ◆ **R1:** Machine-generated incorrect results leading to financial loss

## Mitigations

- ◆ **M1:** Keep human-in-the-loop for low-confidence cases, maintain full audit trails, define liability boundaries in contracts, consider professional liability insurance

		Impact				
		Very Low	Low	Medium	High	Very High
Likelihood	Very High					
	High					
	Medium				R1	
	Low		M1			
	Very Low					

# Legal Risks

## Risks

- ◆ **R2:** Clients' financial data may become vulnerable

## Mitigations

- ◆ **M2:** Encrypt all data at rest and in transit, enforce role-based access

		Impact				
		Very Low	Low	Medium	High	Very High
Likelihood	Very High					
	High				R2	
	Medium	M2			R1	
	Low		M1			
	Very Low					

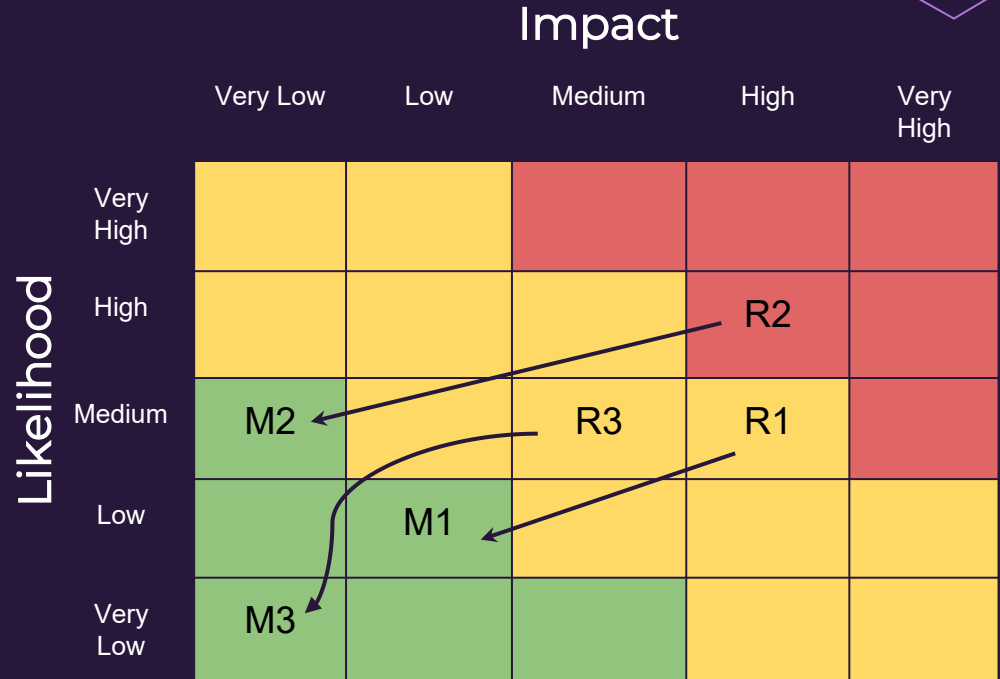
# Legal Risks

## Risks

- ◆ **R3:** Noncompliance with financial record-keeping laws can result in fines or failed audits

## Mitigations

- ◆ **M3:** Implement automated record retention, ensure immutable audit logs, conduct regular compliance checks



# Conclusion - Squaring up AI<sup>2</sup>

- ◆ **The Problem**
  - Manual invoice processing costs organizations time, money, and accuracy
- ◆ **Our Solution**
  - AI<sup>2</sup> automatically compares invoices to purchasing orders, accelerating processing while minimizing errors and backlogs.
- ◆ **The Difference**
  - Reduce processing costs by up to 80%
  - Easily scale AP operations
  - Free AP teams to focus on strategic, value-added work

# Glossary

- ◆ **Atlantic Diving Supply (ADS):** An American federal contractor company that researches and provides equipments and logistics solutions to the Department of Defense, Federal Agencies, and First Responders.
- ◆ **Purchase Order:** The order list ADS sends to suppliers.
- ◆ **Invoice:** A list of goods sent or services provided, with a statement of the sum due for these; a bill.
- ◆ **Accounts Payable (AP):** The amount still outstanding that a business owes for goods and services purchased on credit, which typically comes due at intervals of 30, 45, 60, or 90 days, depending on the repayment terms.
- ◆ **Oracle:** The system of record for ADS.
- ◆ **APEX:** A strongly typed, object-oriented programming language that Salesforce developers use to execute flow and transaction control statements on the Salesforce platform.
- ◆ **Salesforce:** A robust Customer Relationship Management (CRM) platform allowing businesses to manage their customer relationships efficiently
- ◆ **Supplier:** A person or organization that provides something needed, such as a product or service.
- ◆ **Vendor:** A person or company offering something for sale.

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