

# Fishbone Analysis

## Fishbone Diagram

Status: Draft v1.0

Last Updated: Oct 15, 2025

Based on: 2025 January - September Invoice Data Analysis

### 1. Problem Statement:

- **Slow Approval:** 13-day average cycle time in Stages 1 & 2
- **Impact:** 2.22% SLA compliance and 14.12% rework rate

### 2. Fishbone Draft:

#### a. Method

- M1: Network loops for simple errors
- M2: Approver lookup done manually from outdated list

#### b. People

- Pe1: Approvers lack accountability/priority
- Pe2: AP Staff wastes time on manual follow-up

#### c. Input

- I1: No centralized intake
- I2: Vendor sends incomplete documents

#### d. Measurement

- Me1: No penalty for slowness
- Me2: Reliance on isolated Excel tracking

#### e. System

- S1: Tolerance for using unverified email/WA channels
- S2: ERP system does not interface with email for approvals

# CATEGORIZED CAUSES TABLE

## POLICY

- **Cause:** Policy requires printing/physical handling
- **Evidence:** 15% of invoices physically printed (sample audit)
- **Impact:** Medium | **Fix Ease:** High

## METHOD

### 1. Network loops for simple errors

- *Evidence:* 14.12% rework rate, repetitive corrections
- *Impact:* High | *Fix Ease:* Medium

### 2. Approver lookup done manually from outdated list

- *Evidence:* 12% wrong approver assignments (data analysis)
- *Impact:* Medium | *Fix Ease:* High

## PEOPLE

### 1. Approvers lack accountability/priority

- *Evidence:* 0% have approval SLAs in performance reviews
- *Impact:* High | *Fix Ease:* Medium

### 2. AP Staff wastes time on manual follow-up

- *Evidence:* 30% of AP time spent chasing (time study)
- *Impact:* Medium | *Fix Ease:* High

## INPUT

### 1. No centralized intake

- *Evidence:* 6+ submission channels (Email, Portal, WA, Paper)
- *Impact:* High | *Fix Ease:* Low

### 2. Vendor sends incomplete documents

- *Evidence:* 45.57% of rework from incomplete submissions
- *Impact:* High | *Fix Ease:* Medium

## MEASUREMENT

### 1. No penalty for slowness

- *Evidence:* 0 consequences for late approvals in 2024
- *Impact:* Low | *Fix Ease:* High

### 2. Reliance on isolated Excel tracking

- *Evidence:* "Shadow IT" Excel file, not integrated
- *Impact:* Medium | *Fix Ease:* Medium

## SYSTEM

### 1. Tolerance for using unverified email/WA channels

- *Evidence:* Policy allows informal channels, no enforcement
- *Impact:* Medium | *Fix Ease:* High

### 2. ERP system does not interface with email for approvals

- *Evidence:* 100% manual email approvals, no API integration
- *Impact:* High | *Fix Ease:* Low

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## PRIORITIZATION MATRIX

Priority	Cause	Why It Matters
Quick Win	AP Staff wastes time on manual follow-up	Frees 30% of AP capacity immediately
Quick Win	Manual approver lookup	Reduces 12% error rate in assignments
Phase 2	ERP-Email interface gap	Core system fix, requires IT investment
Phase 2	No centralized intake	Eliminates 45.57% of rework sources
Quick Win	Tolerance for unverified channels	Easy policy enforcement

## The Final Fishbone

## SLOW APPROVAL (13-Day Delay in Stages 1 & 2)

