

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- M2: Approver lookup done manually from outdated list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
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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 Approver lookup done manually from outdated list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

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)

POLICY

- Policy requires printing/physical handling

METHOD

- Rework loops for simple errors
- Manual approver lookup from outdated list

PEOPLE

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

INPUT

- No centralized intake (6+ channels)
- Vendor sends incomplete documents

MEASUREMENT

- No penalty for slowness
- Reliance on isolated Excel tracking

SYSTEM

- Tolerance for unverified email/WA channels
- ERP system does not interface with email for approvals