



Suhas Bhairav

AI Operations Process Discovery Kit

**A practical guide to mapping and automating
operational processes.**

A practical, auditable kit to discover, document, and
progressively automate operational workflows.

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Process Discovery & Setup

This page outlines what to document in operations processes and how to categorize tasks for automation. It introduces data, tools, and governance needed to start small.

Key move Start with a single, high-value process and complete the discovery in one week.

PRACTICAL CHECKLIST

- 01** Map end-to-end steps, actors, and time lags for each operation.
- 02** List data inputs/outputs per step, identify source systems.
- 03** Capture handoffs between teams and tools with owners.
- 04** Mark exceptions and decision rules that drive branching.
- 05** Identify automatable tasks vs. those needing human review.
- 06** Assess data quality, access, and governance requirements.
- 07** Define success metrics and baseline performance per process.

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Ops Process Components & Data Needs

This page guides identifying automation candidates and what data/tools are required. It differentiates automated steps, human reviews, and the supporting tech stack.

Key move Ensure a human-in-the-loop is required for final decisions in sensitive processes.

PRACTICAL CHECKLIST

- 01** Define automation candidate criteria: repetitive, high volume, low variance.
- 02** Prioritize top three automations by expected time or cost savings.
- 03** Map data inputs/outputs per candidate, note ownership.
- 04** Identify required tools: ERP/WMS, ticketing, databases, BI, APIs.
- 05** Specify data quality gates and access controls.
- 06** Define success metrics and expected ROI.
- 07** Plan guardrails: human-in-the-loop, approvals, audit trails.

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Week-by-Week Adoption Plan

Provides a realistic, small-step plan that can be tried in weekly increments. Includes governance, approvals, and measurement.

Key move Lock-in a weekly review with clear owners and decision logs.

PRACTICAL CHECKLIST

- 01** Week 1: complete process discovery for a high-priority area.
- 02** Week 2: prototype automation for one repeatable sub-step using a lightweight agent.
- 03** Week 3: implement data integration from source systems and guardrails.
- 04** Week 4: deploy monitoring dashboards and establish ownership.
- 05** Define approvals: who signs off changes and when.
- 06** Track KPIs: cycle time, throughput, defect rate, automation rate.
- 07** Iterate weekly: review results, adjust scope, document learnings.

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ABOUT THE CREATOR

Suhas Bhairav

I build AI systems that combine distributed architecture, retrieval, knowledge graphs, security, and practical workflow design. My focus is AI that can be used repeatedly by real teams: understandable, reliable, and grounded in the work people already do.

EXPERTISE

- Principal systems architecture and applied AI engineering
- Production-grade AI systems, agentic workflows, RAG, and knowledge graphs
- Full-stack workflow applications across AWS, Google Cloud, Azure, on-premise, and hybrid environments
- Practical AI implementation patterns for automotive, manufacturing, finance, logistics, cybersecurity, sales, and customer operations
- Security, governance, observability, approvals, and failure-mode thinking for operational AI systems

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