

# COMPAS Flowcharts & High-Level Flows

Compliance Process Automation Service

Version 2.0 - Revised with AI Peer Review

Berdasarkan EXECUTIVE\_VISION.md v2.0  
Prepared by: Banat Zata (Tata) | December 2024

## Color Palette (p2.png - Purple to Cyan Gradient)



Deep Purple  
#5B21B6



Purple  
#A855F7



Lavender  
#C4B5FD



Light Blue  
#BAD5F5



Cyan/Mint  
#A7F3D0

## COMPAS High-Level Architecture Flow

Data Layer → AI Engine → Application Layer + Governance

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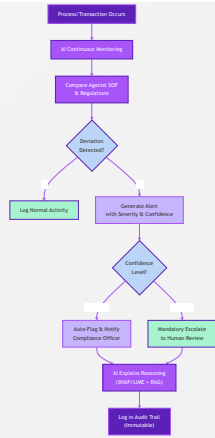


## Real-Time Deviation Detection Flow

AI monitoring dengan SHAP/LIME explainability dan RAG safeguards

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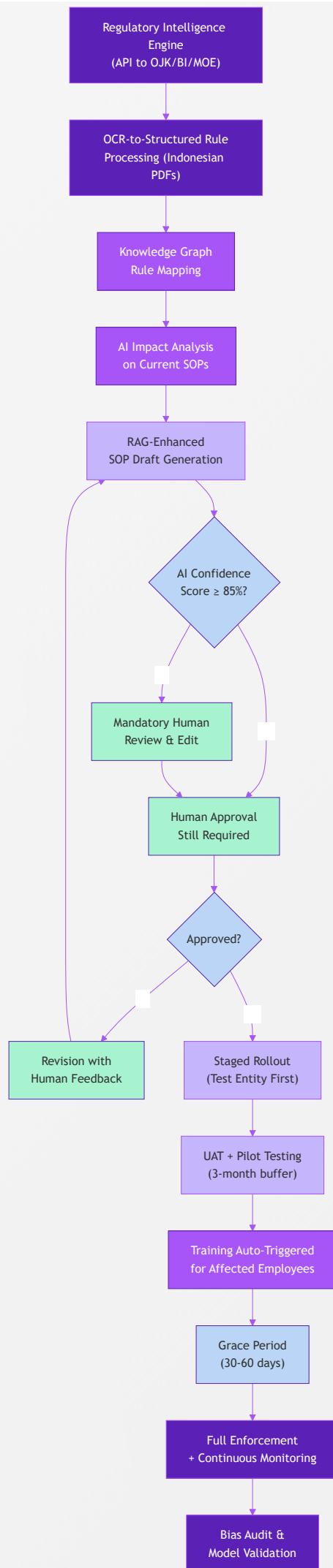
## Dynamic Regulatory Adaptation Framework

RAG-enhanced dengan OCR, Knowledge Graph, dan mandatory Human-in-the-Loop

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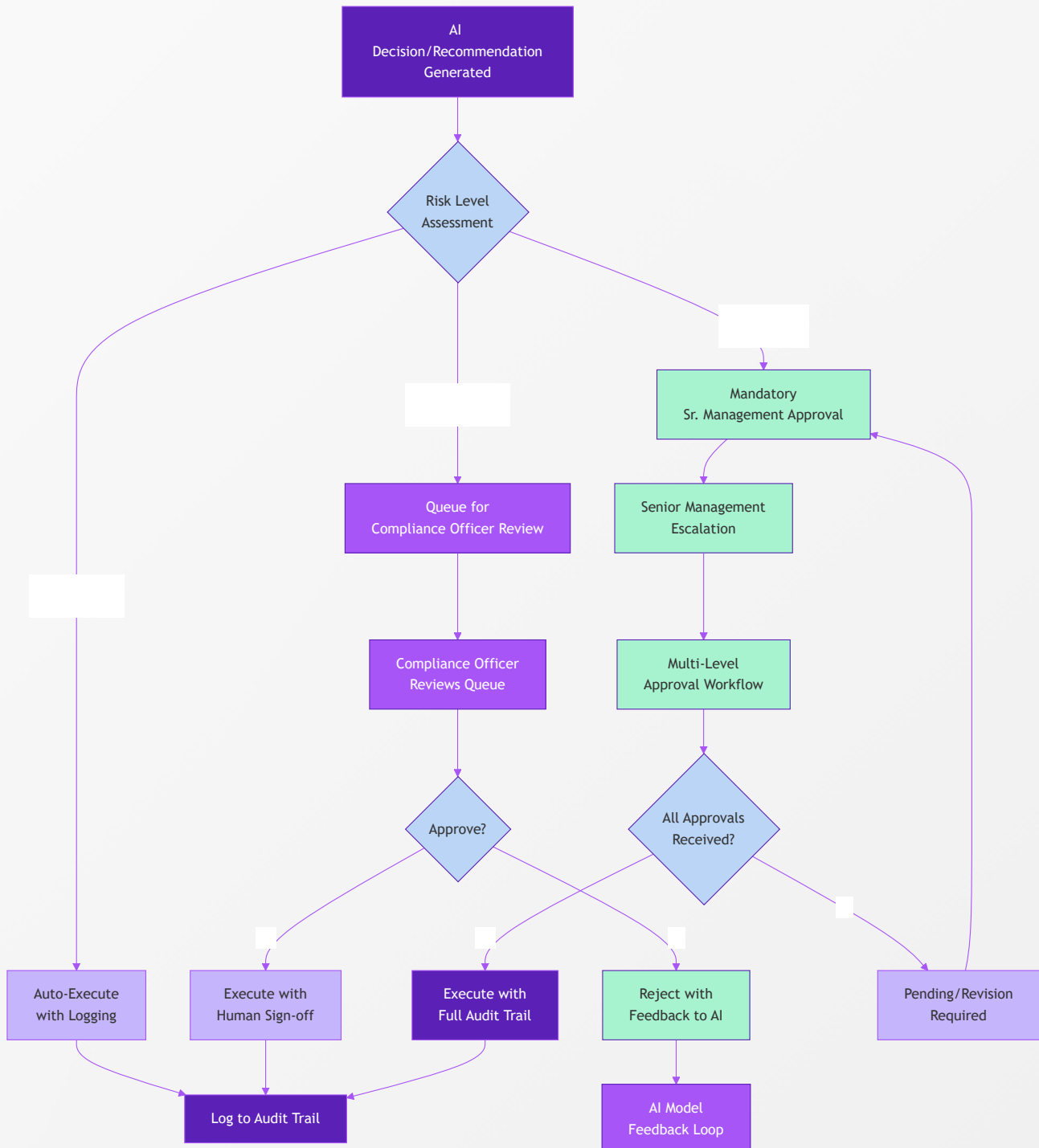


### Key Safeguards (dari AI Review)

- ✓ NEVER auto-execute tanpa human approval
- ✓ RAG system untuk mencegah AI hallucinations
- ✓ OCR processing untuk Indonesian regulatory PDFs
- ✓ 3-month UAT buffer sebelum full rollout
- ✓ Bias audit dan model validation berkala

## Human-in-the-Loop Approval Workflow

Risk-based approval paths untuk semua AI decisions



## Contextual Compliance Engagement Framework

Risk-based engagement respecting Indonesian corporate culture

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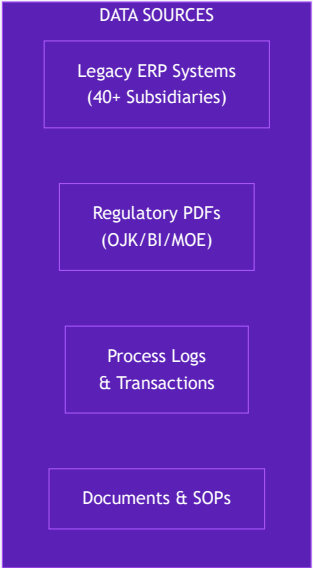
## Data Strategy & ETL Pipeline

Full data pipeline dengan PDP Law 2023 compliance

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Data Encryption  
(Rest & Transit)

7-Year Retention  
Policy

Data Residency  
(OJK Requirements)

7

## Go-To-Market Phase Flow (18-24 Months)

Realistic timeline dengan risk buffers



### Timeline Changes (dari AI Review)

- ✓ Extended dari 15 bulan ke 18-24 bulan
- ✓ Phase 2 dedicated untuk Human-in-Loop & PDP compliance
- ✓ 3-month UAT buffer di Phase 4
- ✓ Mining expansion di-push ke Phase 5 setelah validasi ROI

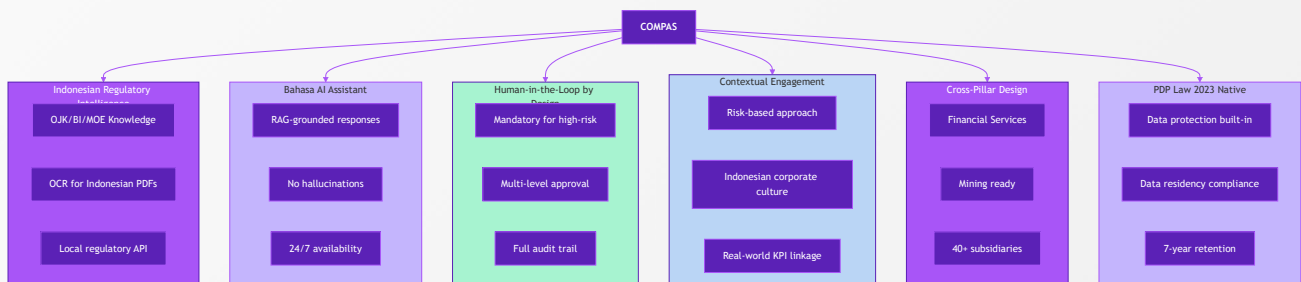
## Success Metrics & ROI

Quantified targets dengan baseline comparison

Metric Category	Target	Measurement
ROI	5:1 within 12 months	Financial analysis
Cost Avoidance	Rp 10B+ fines prevented	Risk exposure reduction
Audit Time	70% faster preparation	Before/after comparison
FTE Reduction	30% compliance effort	Time tracking
AI Accuracy	95%+ precision, 90%+ recall	Model evaluation
Human-in-Loop	100% for high-risk decisions	Approval audit logs
User Adoption	90% active users	Monthly active users

## COMPAS Unique Differentiators

Why COMPAS vs. Global & Regional Players



*"Be the golden bridge that people want to pass and could pass to make their lives and activities easier."*

— Tata

COMPAS (Compliance Process Automation Service) v2.0

December 2024 | Prepared by Banat Zata

Revised based on AI Peer Review (DeepSeek, Qwen, Grok)