

# MerdekaOS

## Indonesian-Optimized Linux Distribution

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### Planning & Feasibility Analysis

*Phase 3 of Ak'sara Initiative*

# Executive Summary

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**Vision:** Lightweight, macOS-inspired Arch Linux distribution optimized for Indonesian users

**Current Status:** Working prototype with Docker-based ISO builder

**Target:** Government offices, SMEs, developers, and educational institutions

**24-36**

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Months Timeline

**\$500K**

Development

**50K+**

Target Users

# Current Technical Foundation

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## Existing Architecture

- **Arch Linux base** with archiso build system
- **KDE Plasma desktop** with macOS-inspired WhiteSur theme
- **Docker containerized** ISO building process
- **Automated setup scripts** for complete build environment

## Key Features Already Implemented

- **macOS-style interface** (Latte Dock, SDDM login theme)
- **Developer-optimized** (Zsh + Oh My Zsh, FiraCode Nerd Font)
- **Minimal package selection** (no bloat, extensible via AUR)
- **Optional apps installer** for post-installation customization

# Market Analysis

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## Primary Market Segments

### 1. Government Offices (High Priority)

- **Pain Point:** Expensive Windows licensing costs
- **Opportunity:** Government digitization initiatives
- **Value Prop:** Free, secure, Indonesian-localized OS

### 2. Educational Institutions

- **Pain Point:** Limited IT budgets for software licensing
- **Opportunity:** Digital literacy programs
- **Value Prop:** Free OS + educational software bundle

### 3. SME Businesses

# Competitive Landscape

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## International Competitors

- **Ubuntu:** Dominant but not Indonesian-focused
- **Linux Mint:** User-friendly but lacks local optimization
- **Elementary OS:** Beautiful but limited customization

## Indonesian Context Advantages

- **Language optimization:** Bahasa Indonesia as first-class citizen
- **Local support:** Indonesian documentation and community
- **Cultural relevance:** Indonesian calendar, holidays, business practices
- **Hardware compatibility:** Optimized for locally-sold hardware

## Unique Selling Propositions

# Technical Roadmap

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## Phase 1: Foundation (Months 1-6)

**Objective:** Production-ready base distribution

### Deliverables:

- Stable ISO build with automated testing
- Indonesian language pack integration
- Local mirror and update infrastructure
- Basic documentation in Bahasa Indonesia

### Key Features:

- Complete Indonesian keyboard layouts
- Indonesian calendar and locale settings

## Phase 3: Integration (Months 13-24)

**Objective:** Ak'sara ecosystem integration

### Deliverables:

- Pre-installed Aksara IS (no-code platform)
- Integrated Personal AI Assistant
- Custom app store for Indonesian software
- Enterprise management tools

### Key Features:

- Seamless Aksara IS integration
- Offline Personal AI with Bahasa Indonesia
- Indonesian business application templates



# Business Model

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## Revenue Streams

### 1. Hardware Partnerships (Primary)

- **OEM licensing** to Indonesian laptop manufacturers
- **Pre-installation fees** (\$5-10 per device)
- **Hardware optimization contracts** (\$50K-100K per manufacturer)

### 2. Enterprise Support (Secondary)

- **Professional support** (\$100-500 per organization/year)
- **Custom development** (\$10K-50K per project)
- **Training services** (\$1K-5K per session)

### 3. Government Contracts (High-Value)



# Risk Analysis

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## Technical Risks ●

**Risk:** Hardware compatibility issues with Indonesian devices

**Mitigation:** Early testing with manufacturer partnerships, driver development fund

**Risk:** Arch Linux complexity for non-technical users

**Mitigation:** Custom installer, simplified package management, extensive documentation

## Market Risks ●

**Risk:** Slow government adoption due to bureaucracy

**Mitigation:** Start with pilot programs, build proof of concept, showcase cost savings

**Risk:** Competition from established distributions

**Mitigation:** Focus on Indonesian-specific features, local partnerships, cultural

# Success Metrics

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## Technical KPIs

- **ISO build success rate:** >95%
- **Hardware compatibility:** >90% of Indonesian laptop models
- **Boot time:** <30 seconds on average hardware
- **Memory usage:** <2GB for basic desktop environment

## Adoption KPIs

- **Year 1:** 1,000 installations (pilot programs)
- **Year 2:** 10,000 installations (early adopters)
- **Year 3:** 50,000 installations (mainstream adoption)
- **Year 5:** 200,000+ installations (market presence)

# Resource Requirements

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## Human Resources

### Core Development Team (5 people):

- **Linux Distribution Architect** (1) - \$80K/year
- **System Integration Engineers** (2) - \$60K/year each
- **UI/UX Designer** (1) - \$50K/year
- **QA/Testing Engineer** (1) - \$45K/year

### Additional Specialists (as needed):

- **Hardware Compatibility Engineer** - \$70K/year
- **Government Relations Manager** - \$60K/year
- **Technical Writer (Indonesian)** - \$40K/year

# Go-to-Market Strategy

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## Phase 1: Pilot Programs (Months 1-12)

**Target:** 3-5 government departments or educational institutions

### Approach:

- Free deployment and support
- Showcase cost savings and security benefits
- Gather feedback for product improvement
- Build case studies and references

## Phase 2: Hardware Partnerships (Months 6-18)

**Target:** Advan, Polytron, Axioo

### Approach:

# Partnership Strategy

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## Hardware Manufacturers

### Value Proposition:

- Differentiate from Windows-only competitors
- Reduce per-device software costs
- Appeal to cost-conscious Indonesian market
- Support "Made in Indonesia" technology stack

### Partnership Terms:

- Joint development and testing
- Pre-installation agreements
- Co-marketing opportunities

Technical support arrangements

# Financial Projections

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## 5-Year Revenue Forecast

**Year 1:** \$50K (pilot programs, initial partnerships)

**Year 2:** \$500K (hardware partnerships, early enterprise)

**Year 3:** \$2M (government contracts, mainstream adoption)

**Year 4:** \$5M (market expansion, international interest)

**Year 5:** \$10M (established market player)

## Funding Requirements

**Seed Round:** \$500K (12 months)

- Team building and initial development
- Infrastructure setup
- Pilot program execution

# Implementation Timeline

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## Critical Path Activities

### Q1 2024:

- Team assembly and infrastructure setup
- Partnership discussions with hardware manufacturers
- Government pilot program proposals

### Q2-Q3 2024:

- Core distribution development and testing
- Pilot program deployment and feedback
- Hardware compatibility testing

### Q4 2024 – Q1 2025:



# Conclusion

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## Strategic Advantages

- **Strong technical foundation** with working prototype
- **Clear market need** for cost-effective, Indonesian-optimized OS
- **Multiple revenue streams** reducing business risk
- **Alignment with government** digitization initiatives

## Success Factors

- **Quality execution** of technical roadmap
- **Strategic partnerships** with hardware manufacturers
- **Government adoption** through pilot programs
- **Community building** for long-term sustainability

# Next Steps

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## Immediate Actions (Next 30 days)

1. **Finalize core team** recruitment and contracts
2. **Initiate partnership discussions** with target hardware manufacturers
3. **Prepare pilot program proposals** for government departments
4. **Setup development infrastructure** and build automation

## Strategic Partnerships (Next 90 days)

1. **Sign MOU** with at least one hardware manufacturer
2. **Submit pilot proposals** to 3+ government departments
3. **Establish advisory board** with industry experts
4. **Secure seed funding** from strategic investors

## Contact Information:

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