

MerdekaOS

Arch-based Linux Distribution for Indonesian Users

Project Proposal & Strategic Analysis

Ak'sara Initiative - Phase 3 Project

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Executive Summary

MerdekaOS adalah distribusi Linux berbasis Arch yang dirancang khusus untuk user Indonesia, dengan fokus pada kemudahan penggunaan, performa optimal, dan dukungan hardware lokal yang excellent.

Vision: Menciptakan alternatif OS yang powerful, ringan, dan mudah digunakan untuk mengurangi ketergantungan Indonesia pada sistem operasi proprietary.

12-18

Bulan Pengembangan

\$200K

Estimasi Budget

1M+

Target Users



- Dependency Reduction: Mengurangi ketergantungan pada Windows dan macOS
- Local Hardware Support: Optimasi untuk laptop dan PC yang dijual di Indonesia
- Government Adoption: Alternatif untuk institusi pemerintah
- Educational Impact: Platform pembelajaran untuk computer science

Market Opportunity

- Indonesia PC Market: 15M+ units sold annually
- Linux Adoption: <2% market share, huge growth potential
- Price Sensitivity: Indonesian users need cost-effective solutions
- Technical Skills: Growing developer community needs good tools

Ak'sara Ecosystem Integration

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- Performance: Optimized untuk resource efficiency
- Customizable: Flexible configuration options

Desktop Environment: Custom GNOME

- Modern interface: Clean, intuitive user experience
- Indonesian localization: Complete Bahasa Indonesia support
- Performance tuned: Optimized animations dan resource usage
- Extensible: Support untuk custom extensions

Hardware Optimization

Indonesian Laptop Brands Focus:

- Advan: Driver optimization dan power management
- Axioo: Hardware compatibility testing

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- Indonesian theme: Batik-inspired visual design
- Local applications: Banking, e-commerce, government apps
- Font optimization: Beautiful Indonesian text rendering
- Input methods: Support untuk various Indonesian input

Pre-installed Software Suite

Productivity Applications:

- LibreOffice: Fully localized dengan Indonesian templates
- Aksara Writer: Markdown converter untuk business documents
- Web browsers: Firefox dengan Indonesian bookmarks dan settings
- Media tools: VLC, GIMP untuk multimedia needs

Development Tools:

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Target User Segments

Primary Users:

- Office workers: Government employees, SME staff
- Students: University students learning computer science
- Developers: Indonesian software developers
- Small businesses: Shop owners, freelancers

Secondary Users:

- Educational institutions: Schools dan universities
- Government agencies: Cost-conscious departments
- Internet cafes: Gaming centers, co-working spaces

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Market Analysis

Competitive Landscape

DISTRIBUTION	MARKET POSITION	STRENGTHS	WEAKNESSES
Windows	Dominant (85%)	Familiar, compatible	Expensive, bloated
Ubuntu	Linux leader (40% Linux)	User-friendly	Generic, not localized
Elementary	Design-focused	Beautiful interface	Limited software
MerdekaOS	Indonesian focus	Local optimization	New entrant

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Phase 1: Core System (Months 1-6)

Focus: Stable base system dengan Indonesian optimizations

Deliverables:

- Arch-based foundation dengan custom repositories
- Indonesian-themed desktop environment
- Hardware compatibility untuk major brands
- Basic installation system
- Alpha release untuk testing

Team Requirements:

- 2 system engineers
- 1 III/IIV designer

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Phase 2: Application Integration (Months 7-12)

Focus: Pre-installed applications dan user experience

Deliverables:

- Complete software suite integration
- Aksara IS dan Aksara Writer pre-installation
- Indonesian language packs dan input methods
- Driver packages untuk common hardware
- Beta release dengan community testing

Team Requirements:

- 1 additional application developer
- 1 localization appointint

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Phase 3: Distribution & Support (Months 13-18)

Focus: Public release dan ecosystem building

Deliverables:

- Stable 1.0 release
- OEM partnerships dengan laptop manufacturers
- Community support infrastructure
- Documentation dan training materials
- Update dan maintenance systems

Team Requirements:

- 1 community manager
- 1 husinges development

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• marketing cooperation. John promotional campaigns

Direct Distribution:

- Free download: Community edition dengan basic features
- Premium edition: \$25 dengan additional software dan support
- Enterprise edition: \$100 dengan management tools dan SLA
- USB/DVD sales: Physical media untuk areas dengan limited internet

Revenue Streams

1. OEM Licensing (60% revenue)

- Partnership dengan laptop manufacturers
- Pre-installation revenue sharing
- Support service contracts

2. Enterprise Services (30% revenue)

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• Security upuates. Timely patches dan vulnerability lixes

Development Infrastructure:

- Build systems: Automated package building dan testing
- Quality assurance: Package validation dan compatibility testing
- Community contributions: Package maintainer program
- **Documentation**: Indonesian package development guides

System Architecture

MerdekaOS Components:

── Base System (Arch Linux)

— Custom Desktop (GNOME + Indonesian theme)

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Phase 1: Developer Community (Months 1-6)

Target: Indonesian Linux enthusiasts dan developers

Approach:

- Open source development di GitHub
- Tech conference presentations
- Developer community engagement
- Technical blogs dan tutorials

Goals:

- 1,000 alpha testers
- 100 community contributors
- Toohnical validation

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Phase 2: Educational Adoption (Months 7-12)

Target: Universities dan technical schools

Approach:

- Educational partnerships
- Student developer programs
- Campus deployment pilots
- Computer science curriculum integration

Goals:

- 10 university partnerships
- 5,000 student users
- Educational use seems validation

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Phase 3: Commercial Launch (Months 13-18)

Target: OEM partnerships dan general users

Approach:

- Manufacturer negotiations
- Retail channel development
- Marketing campaigns
- Government procurement participation

Goals:

- 2 OEM partnerships
- 50,000 users
- Covernment nilet pregrame

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Risk: Software ecosystem limitations dibanding Windows

Mitigation: Focus pada web applications, essential software porting

Risk: Update system complexity untuk non-technical users

Mitigation: Automated updates, simple UI, rollback capabilities

Market Risks

Risk: User resistance untuk change dari Windows

Mitigation: Easy migration tools, dual-boot support, training programs

Risk: OEM reluctance untuk alternative OS

Mitigation: Compelling business case, technical support, marketing cooperation

Risk: Competition dari international Linux distributions

Mitigation: Indonesian-specific features, local partnerships, community building

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- RAM usage: <1GB idle consumption
- Hardware compatibility: >95% Indonesian laptop models
- Package availability: >80% essential applications

Adoption KPIs

- User base: 10K (Month 6) → 50K (Month 12) → 250K (Month 18)
- OEM partnerships: 2 major manufacturers by Month 18
- Educational adoption: 25 institutions by Month 18
- Community: 500 active contributors, 50 package maintainers

Business KPIs

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- **Desktop Developer**: GNOME customization (\$70K/year)
- Package Maintainer: Repository management (\$60K/year)
- QA Engineer: Testing + hardware validation (\$55K/year)
- **UI/UX Designer**: Indonesian interface design (\$65K/year)

Infrastructure Costs

- Build servers: \$20K/year
- Package mirrors: \$30K/year (multiple Indonesian locations)
- Testing hardware: \$15K one-time (various laptop models)
- Development tools: \$10K/year

Business Operations

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- Digital Sovereighty. Neutuced dependency pada loreigh OS
- Local innovation: Platform untuk Indonesian software development
- Educational advancement: Modern tools untuk computer science education
- Economic impact: Support untuk local hardware manufacturers

Ak'sara Ecosystem Benefits

- Platform synergy: Optimized environment untuk Aksara IS dan Writer
- Developer adoption: Attracts developers ke Ak'sara tools
- Government relations: Demonstrates commitment ke national tech independence
- Brand recognition: Establishes Ak'sara sebagai serious tech initiative

Long-term Vision

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• 2 OEM pilots × \$12.5K

Year 2: \$500K

• 10,000 premium users × \$25

• 5 OEM partnerships × \$50K

• Enterprise services: \$100K

Year 3: \$2M

• 50,000 premium users × \$25

• 10 OEM partnerships × \$125K

• Enterprise services: \$500K

Investment Requirements

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- Icolinical excendince. Iteliable, perioritiani system untuk muonesian haruware
- Strategic partnerships: OEM cooperation untuk distribution
- Community building: Active developer dan user communities
- Government support: Alignment dengan national digitalization goals

Phased Approach Benefits

- Lower risk: Gradual development dengan validation di each phase
- Community-driven: Open source development model
- Market validation: Testing dengan real users before commercial launch
- Sustainable growth: Revenue streams develop organically

Next Steps

- Core team recruitment: System architect dan desktop developer
- Infrastructure setup: Build systems dan testing environment

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