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MALAYSIA

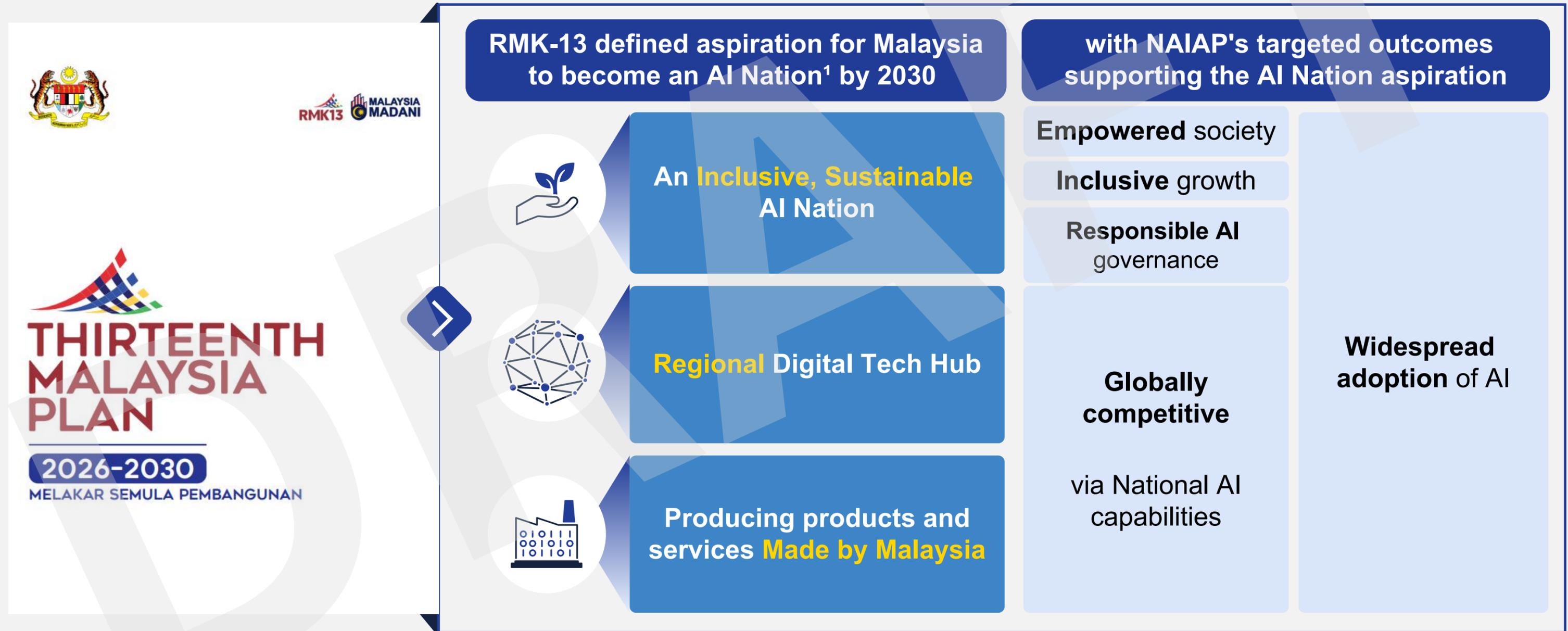## National Artificial Intelligence (AI) Action Plan 2030

Towards AI Nation aspiration

Disclaimer

This draft of Malaysia's National AI Action Plan 2030 is circulated for consultation and feedback purposes only. It represents a preliminary framework developed through extensive engagements with multiple stakeholders. Please note that certain sections and contents within this Action Plan are subject to further review, refinement, and validation.

The National AI Action Plan 2030 (NAIAP) supports the achievement of the AI Nation aspiration

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RMK-13 defined aspiration for Malaysia to become an AI Nation[1] by 2030

with NAIAP's targeted outcomes supporting the AI Nation aspiration

An **Inclusive, Sustainable** AI Nation

Regional Digital Tech Hub

Producing products and services **Made by Malaysia**

Empowered society

Inclusive growth

Responsible AI governance

Globally competitive

via National AI capabilities

Widespread adoption of AI

THIRTEENTH MALAYSIA PLAN

2026-2030

MELAKAR SEMULA PEMBANGUNAN

1. An AI nation refers to a country with AI-technology integrated holistically as the main thrust in socioeconomic development, national administration and daily lives of the rakyat.
Source: RMK-13 Main document

The National AI Action Plan 2030 recognises shifts that are shaping Malaysia's position in an increasingly AI-centric world

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Rapid rise of GenAI, with newer forms of AI on the horizon

- The rise of large, general-purpose models is driving AI adoption across sectors, but also introducing complex societal impacts (e.g., job disruption).
- Agentic AI is emerging, with the development of AGI[1] expected to enable disruptive autonomy in decision-making and complex tasks.

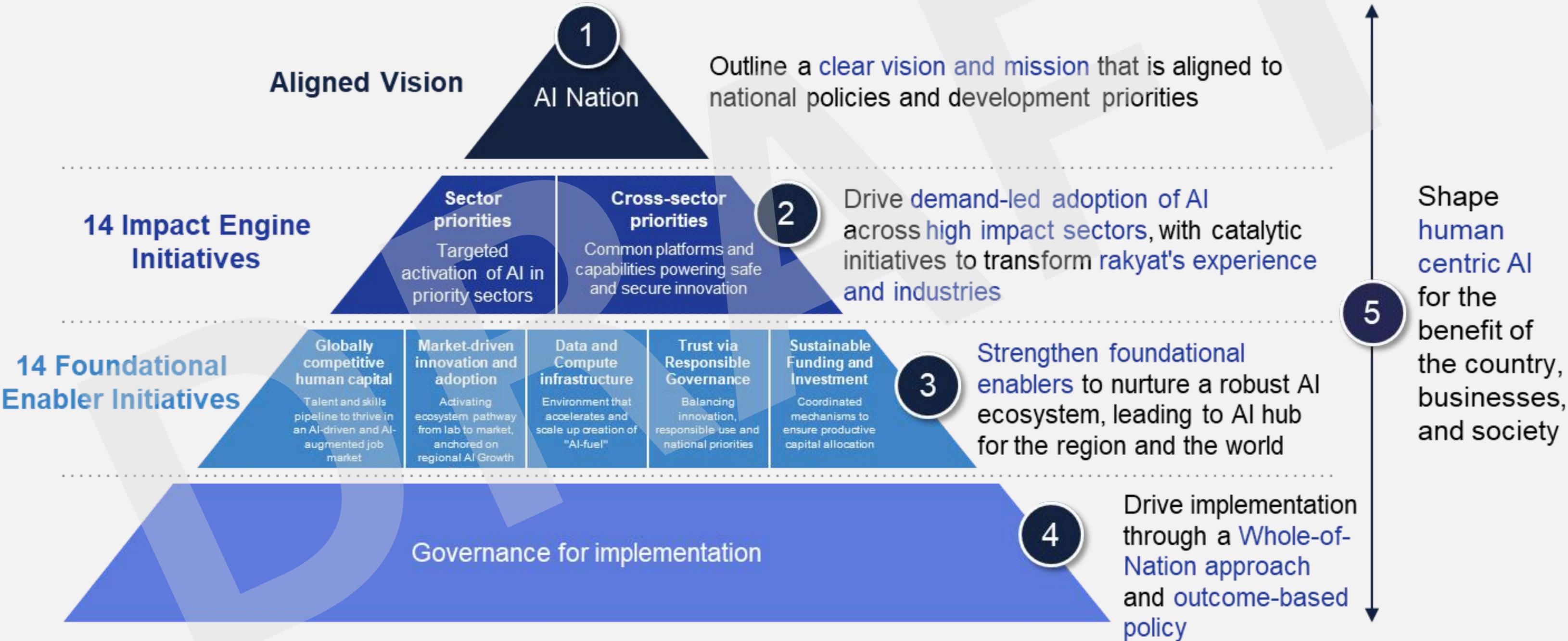## Risk of falling behind, as countries accelerate AI efforts

- ASEAN peers are ramping up investment, talent programs, and compute capacity.
- Without an updated roadmap, Malaysia risks talent leakage and declining share of AI-driven foreign direct investment.

Geopolitical shifts redefining the AI landscape

- The AI race is now intertwined with global shifts in semiconductors, data centres, and AI sovereignty.
- Malaysia must position itself strategically amid emerging tensions and new AI-industrial alliances.

The National AI Action Plan 2030 is guided by five key principles to ensure at-pace and holistic interventions

Aligned Vision

1 AI Nation

Outline a clear vision and mission that is aligned to national policies and development priorities

14 Impact Engine Initiatives

Sector priorities
Targeted activation of AI in priority sectors

Cross-sector priorities
Common platforms and capabilities powering safe and secure innovation

2 Drive demand-led adoption of AI across high impact sectors, with catalytic initiatives to transform rakyat's experience and industries

14 Foundational Enabler Initiatives

Globally competitive human capital
Talent and skills pipeline to thrive in an AI-driven and AI-augmented job market

Market-driven innovation and adoption
Activating ecosystem pathway from lab to market, anchored on regional AI Growth

Data and Compute infrastructure
Environment that accelerates and scale up creation of "AI-fuel"

Trust via Responsible Governance
Balancing innovation, responsible use and national priorities

Sustainable Funding and Investment
Coordinated mechanisms to ensure productive capital allocation

3 Strengthen foundational enablers to nurture a robust AI ecosystem, leading to AI hub for the region and the world

Governance for implementation

4 Drive implementation through a Whole-of-Nation approach and outcome-based policy

5 Shape human centric AI for the benefit of the country, businesses, and society

Impact Engines were identified based on economic and societal impact from AI

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(A) Economic Impact Sectors

Sectors expected to create the **greater AI-driven economic returns**, given their scale and strategic importance

A1 Established Sectors - Large GDP contribution and strong industry coherence, enabling rapid scale-up of AI use cases

A2 Emerging Sectors - Government strategic-priority sectors (NIMP 2030) with high potential for AI-driven innovation

(B) Societal Impact Sectors

Sectors where AI adoption can deliver broad-based **public value and societal benefit**

Sectors highlighted in major government strategies aimed at serving a wide citizen base (e.g., food security, quality education, sustainable environment)

I1 : AI to prevent, diagnose and advance clinical discovery

I2 : Scalable AI City Solutions

I3 : Hyper-personalised Government Service

I4 : AI Companion for Civil Servants

I5 : Personalised learning for tertiary education

I6 : Scalable Agristack

I7 : Secure and Independent AI Ecosystem for Malaysia

I8 : AI Hub for the Manufacturing Ecosystem

I9 : Solutions and public-facing platform for palm oil smallholders

I10 : AI for MSMEs Modular AI Resources for MSMEs

I11 : AI to power Malaysia's green future, while driving efficiency

I12 : AI to modernise the local O&G Services Equipment ecosystem

I13 : AI to support growth, inclusion and security in financial services

I14 : Empower Malaysia's AI ecosystem through AI infrastructure

Foundational enablers covers five development categories, aligned to RMK-13's AI Nation framework

Globally competitive human capital

Equip **every Malaysian with foundational AI fluency and risk awareness** —effective prompting, vibe coding, and agentic-AI use —**all citizens can benefit from AI**

Market-driven innovation and adoption

Connect research efforts and end-users through quadruple helix approach to create an ecosystem shifting Malaysia **from an AI consumer to become a value-adding AI producer**

Data and compute infrastructure

Provide "AI-fuel" by turning **data into and asset** while securing inclusive and sustainable access to high-powered compute

Trust via responsible governance

Establish a **holistic and AI governance framework** that evolves with technological development while keeping AI systems safe, secure, and trusted

Sustainable funding and investment

Create an enabling environment where funders can **invest with confidence in AI ventures** across the maturity pipeline

Strengthening Talent Development

Developing Policy

Enhancing Digital and Data Infrastructure

Increasing Digital Trust

Expanding Strategic Investments

6 catalytic initiatives to spark AI revolution in Malaysia, delivering tangible impact within 18 months

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Impact Engine Catalytic Initiative

Transform society's experience by advancing citizen services & building an AI-augmented government

Healthcare: Medical dataset for clinical care and research, to serve as foundation for AI-powered diagnostics and growth of clinical research hub

Public Services: AI-powered personalised government services, built on MyDigital ID towards establishing a unified digital ID

AI Cities: AI stack connected to National Command for 2 cities established, serving as lighthouse for expansion to other cities
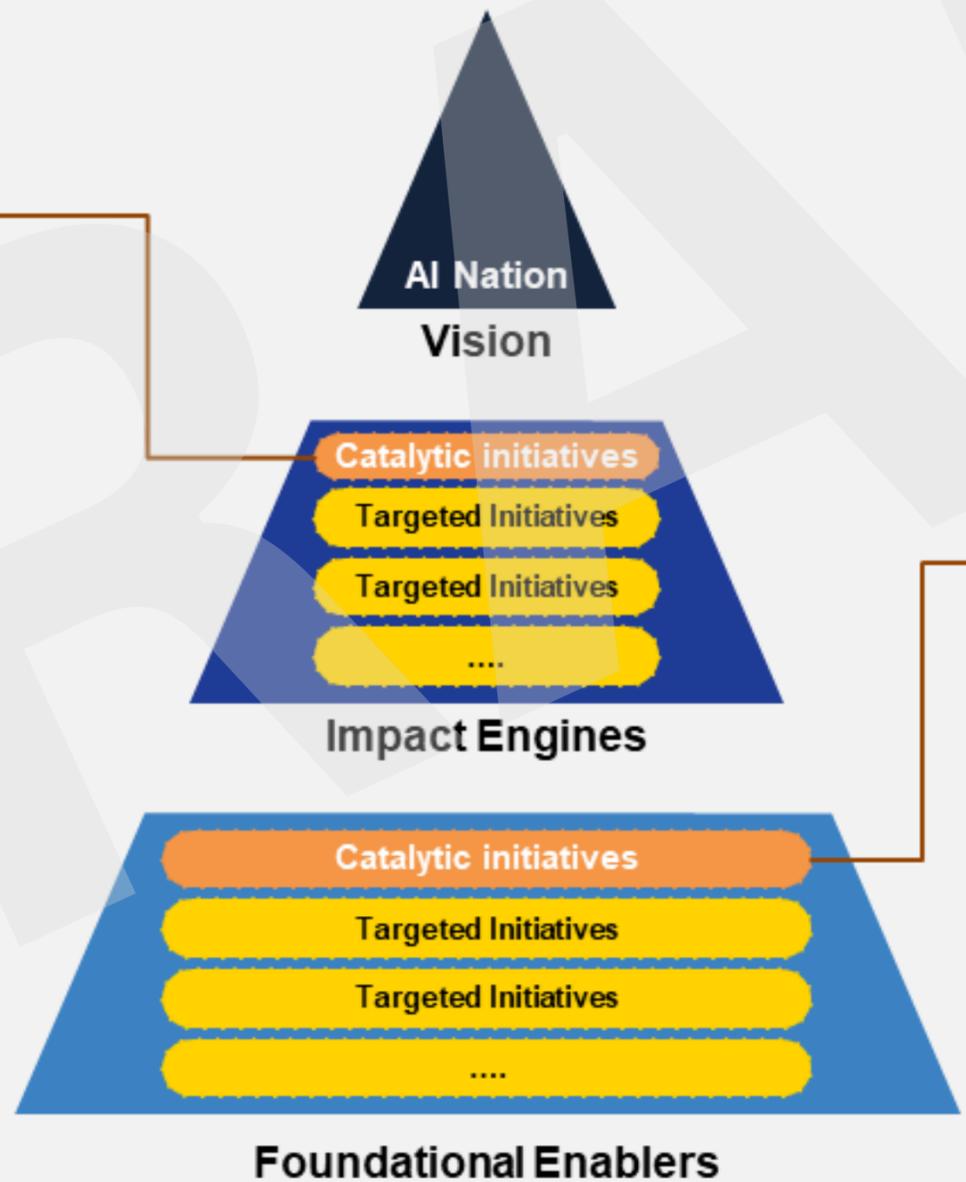
Foundational Enabler Catalytic Initiative

Position Malaysia as an innovation springboard, by attracting right talent and providing the right environment for AI players to flourish

Global Talent Network: Global AI talent hunt established, where top AI professionals meets immediate needs of the AI ecosystem while enabling growth of local AI talents

AI Growth Zones: 3 AI Growth Zones identified, transforming regional economies into AI-driven innovation hubs

AI Act and Governance Model: AI governance framework published for public syndication, establishing business and public trust of Malaysia as an AI Nation

AI Nation
Vision

- Catalytic initiatives
- Targeted Initiatives
- Targeted Initiatives
- ....

Impact Engines

- Catalytic initiatives
- Targeted Initiatives
- Targeted Initiatives
- ....

Foundational Enablers

Catalytic initiatives will serve as lighthouse models and kick-start delivery of the broader National AI Action Plan 2030

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By end 2025

1 Establish Foundations

National AI Action Plan 2030 **signed-off and approved**

National AI Action Plan Secretariat empowered with **authority & reporting structure**, and **KPI dashboard** in place

Initiative owners and implementation teams of Impact Engines and Foundational Enablers **onboarded**

By mid 2026
(~6 months)

2 Mobilise Initiatives

Catalytic impact engines mobilised with funding secured, serving as lighthouse:
- **AI use-cases** in diagnostics addressed, providing **foundational medical dataset** for clinical care & research
- **AI stack roadmap** for selected cities defined
- Seamless and multi-modal **AI citizen interface deployed for select services** in MyGov's digitalised services

First-wave foundational enabler pilots active in supporting AI ecosystem
- **Global AI talent hunt** established
- **AI Growth Zones** identified
- **AI governance framework** published for public syndication, including AI Act

Impact engines and foundational enabler initiatives implementation kick-started

By end 2027
(~18 months)

3 Build Momentum

Successful **pilots scaled, transforming society's everyday services**
- National-level **clinical health dataset** across domains (radiology, pathology, etc.)
- **AI Stack built for cities**, connected to National Command, serving as foundation to expand to other cities
- **Personalised government services and solutions** powered by AI, building on MyDigital ID

Foundational enabler initiatives scale & refined, delivering systemic support for AI innovation
- Location agnostic **talent network**, with access to best Malaysian & global talent
- **AI Growth Zone** launched
- **AI Governance Act** launched

Impact engines and foundational enabler pilots launched

In line with the AI Nation aspiration, the Action Plan will drive significant benefits across government, economy and society

Government

- Reimagined public services where Rakyat have seamless and multi-modal interface with government

- Transformed public sector to become more efficient and citizen-focused, while strengthening trust and governance effectiveness

Economy

- Malaysia as an AI producer - "Made by Malaysia" products and services for global markets

- Pervasive AI adoption to create future ready, globally competitive, and sustainable sectors

Society

- New job opportunities and improved job satisfaction from AI

- Inclusive access to ethically developed and culturally aligned AI-powered services

- Clean, safe, and sustainable living environment

Circulation for Feedback

Participate in the consultation and share your views:

In the spirit of inclusivity and shared ownership, we invite your feedback on the National AI Action Plan 2030. Scan the QR code or click on the questionnaire link below. Survey closes on 30 November 2025.

https://docs.google.com/forms/d/e/1FAIpQLSeyl1C5NGU-NpuEG8SZCc-6IVDl1zOyaRA7MF87IvYYvZ_QVQ/viewform

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