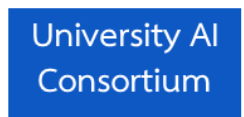




Thailand National AI Strategy and Action Plan (2022 – 2027)



Outline



Background

- What led to Thailand NAIS?
- Challenges in AI Development and Adoption in Thailand
- Initiatives between MHESI and MDES



Thailand NAIS

- 5 Strategies
- Governance Mechanisms



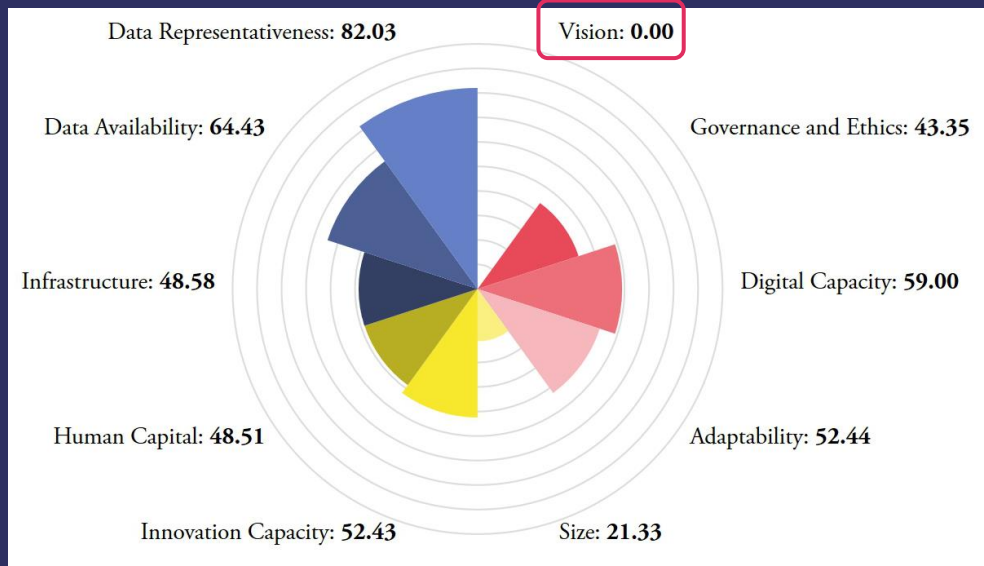
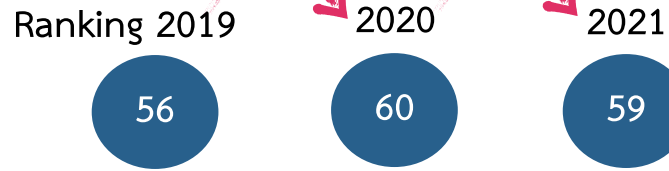
Background

- What led to Thailand NAIS?
- Challenges in AI Development and Adoption in Thailand
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What led to Thailand National AI Strategy?

▶ Thailand's Government Artificial Intelligence Readiness Index

Pillars & Dimensions of the Ranking in 2020 detail



Year	Global Position	Overall Score	Government	Technology Sector	Data & Infrastructure
2020	60 (from 172)	48.16	38.70	40.76	65.01
2021	59 (from 160)	52.63	45.45	41.22	71.21

Source: Oxford Insights, International Research Centre, 2019, 2020 & 2021

Thailand AI Index Scores are No. 7 & 9 compared to countries in East Asia in 2020 & 2021



Challenges in AI Development and Adoption in Thailand



AI Human capacity

- Lack of strong AI expert community
- Lack of AI manpower in both academic and industry
- Lack of AI technology expertise
- No proper AI academic program in Thai universities



Ethics law and regulation

- AI ethics has not been adopted broadly
- Lack of AI law and regulation
- Lack of awareness and readiness in the society



Business adoption of AI

- Very limited AI adoption in business sector
- R&D and innovation is not ready for commercialization
- Insufficient government support and stimulation



National Support Infrastructure

- No national AI strategy for Thailand
- Insufficient AI education among Thai people
- Insufficient research and development infrastructure

Initiatives between MHESI and MDES



Important milestone of the initiatives

- 19 Feb 2021 ● Appointment order of Thailand NAIS working committee
- 14 Jul 2021 ● The draft of Thailand NAIS received approval from the National Digital Economy and Society committee
- 19 Jul 2021 ● The draft of Thailand NAIS received approval from the National Higher Education, Science, Research and Innovation Policy Council committee
- 12 Jan 2022 ● The draft of Thailand NAIS received approval from the National Economic and Social Development Council committee
- 26 Jul 2022 ● Thailand NAIS received approval from cabinet
- 17 Aug 2022 ● Appointment order of “National AI committee” (the driving committee for AI Strategy)



Thailand National AI Strategy and Action Plan (2022 – 2027)

- 5 Strategies
- Governance Mechanisms

Thailand National AI Strategy and Action Plan (2022 – 2027)

“Thailand has an effective ecosystem to promote AI development and application to enhance the economy and quality of life within 2027”

Vision

3

Target objectives

Human capacity and Technology

- ▶ AI Reskill/ Upskill/ New skill for academic sector
- ▶ AI skill is used to enhance all work sectors
- ▶ New professional based on AI and digital skill

Economic growth

- ▶ Increase productivity with high value-added products and services using AI
- ▶ AI as a driver for Thailand national agenda
- ▶ AI innovation for Tech startups / SME / Digital Business

Social and environmental impact

- ▶ Enhance public access to government services using AI
- ▶ Bridging income, education, and healthcare gaps
- ▶ Better environment and efficient use of natural resources
- ▶ Enhance national security and safety

5

Strategies



Strategy 1

Preparing Thailand's readiness in social, ethics, law, and regulation for AI application



Strategy 2

Developing national infrastructure for sustainable AI development



Strategy 3

Increasing human capability and improving AI education



Strategy 4

Driving AI technology and innovation development



Strategy 5

Promoting the use of AI in public and private sectors

10

Target sectors

Food & agriculture

Healthcare & medical

Education

Security & safety

Energy & environment

Government service

Logistics & transportation

Creative economy & tourism

Manufacturing

Trade & finance

Focus on phase 1 (2022 - 2023)

Additional focus on phase 2 (2024 – 2027)

Thailand NAIS : 5 Strategies



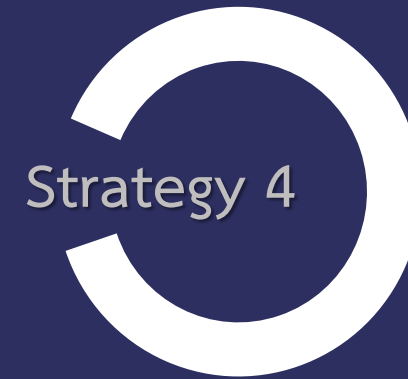
Preparing Thailand's readiness in social, ethics, law, and regulation for AI application



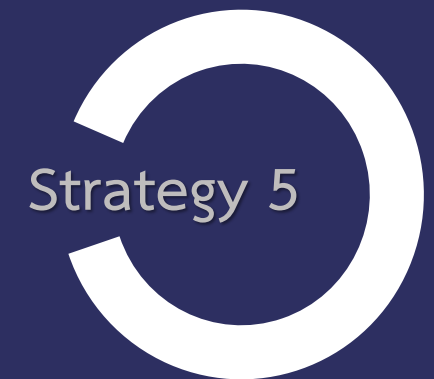
Developing Infrastructure for Sustainable AI Development



Increasing human capability and improving AI education



Driving AI technology and innovation development



Promoting the use of AI in public and private sectors

Strategy 1

Preparing Thailand's readiness in social, ethics, law, and regulation for AI application



Key Indicators

- At least 600,000 Thai population have awareness of AI law and ethics
- An AI Law & Regulation is enforced



Work plans

- 1.1 Policy and standard for AI Ethics
- 1.2 Driving awareness and education for AI Ethics

Note: Overall budget is still under discussion and waiting for approval from the cabinet

Strategy 2

Developing Infrastructure for Sustainable AI Development



Key Indicators

- Increase Thailand's Government AI Readiness index to rank among top 50 globally
- Increasing digital infrastructure investment 10% per year to support AI development in both public & private sectors



Work plans

- 2.1 Creating AI expert networks
- 2.2 Creating a national platform for advanced data analytics and management
- 2.3 Creating a national AI service platform
- 2.4 Developing High Performance Computing (HPC) infrastructure

Strategy 3

Increasing human capability and improving AI education



Key Indicators

- Creating more than 30,000 AI talents within 6 years



Work plans

- 3.1 Improving AI education and knowledge creation
- 3.2 AI Scholarship programs
- 3.3 Cooperation mechanism development with researchers & experts from abroad

Strategy 4

Driving AI technology and innovation development



Key Indicators

- Strengthen AI technology by developing at least 100 R&D prototypes within 6 years
- Wide adoption of AI research, development and innovation helps create business & social impact of at least 48 billion Baht by 2027



Work plans

- 4.1 Applying AI technology and innovation for strategic sectors
- 4.2 Developing AI core technology and platform

Strategy 5

Promoting the use of AI in public and private sectors



Key Indicators

- Number of agencies (government, business & new entrepreneurs) using AI innovation is increased to at least 600 agencies in 6 years
- Thailand's AI competitiveness is increased by AI applications



Work plans

- 5.1 Promoting AI use in government sector
- 5.2 Promoting AI use in key industries
- 5.3 Promoting system integrator industry with AI capability
- 5.4 Developing mechanisms & sandboxes for business innovation and AI Startup

A list of example projects in Phase 1 & 2



Thailand AI Strategy and
Action Plan
(2022 – 2027)

Strategy 1: Preparing Thailand's readiness in social, ethics, law, and regulation for AI application

- *Phase 1:* AI ELSI, AI LAWS

Strategy 2: Developing national infrastructure for sustainable AI development

- *Phase 1:* AI Service
- *Phase 2:* GDCC AI Marketplace, HPC Service

Strategy 3: Increasing human capability and improving AI education

- *Phase 1:* AI Training
- *Phase 2:* AI Training: Phase II, Higher Education Scholarship in AI

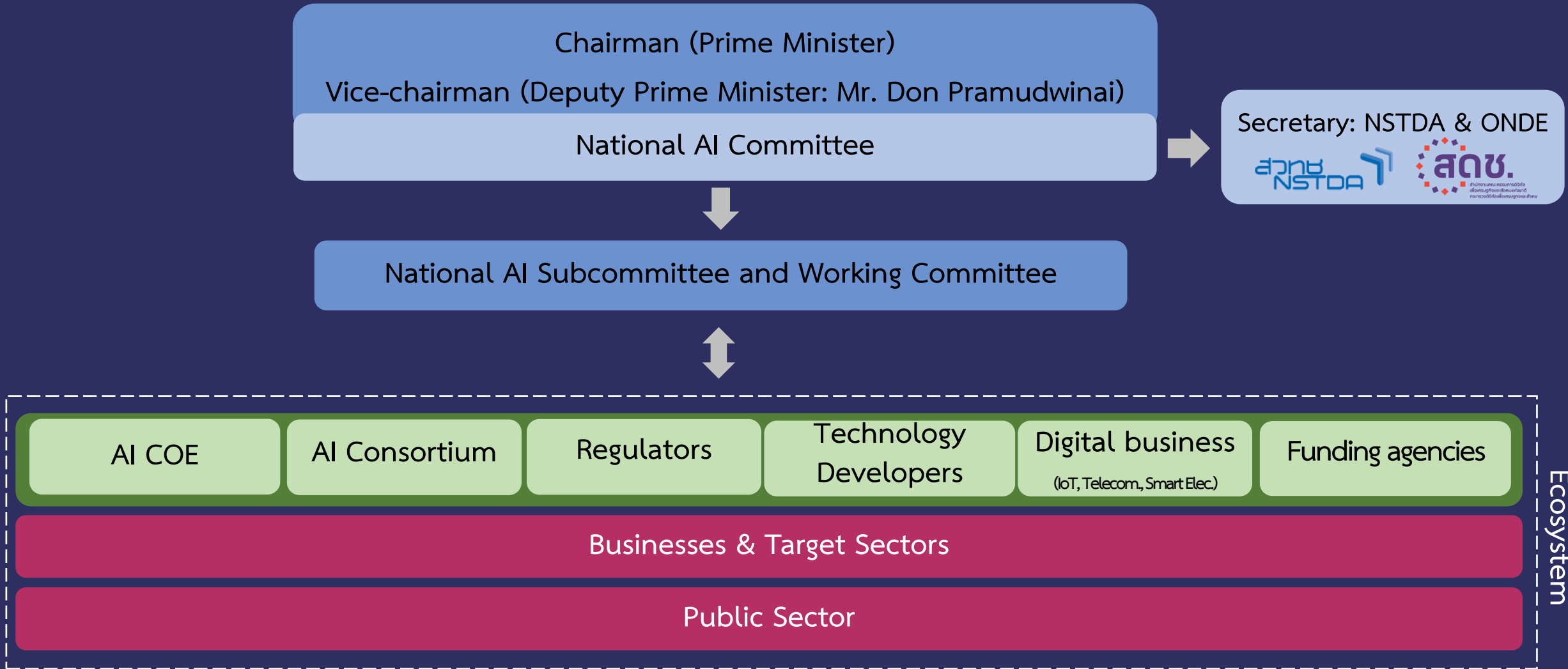
Strategy 4: Driving AI technology and innovation development

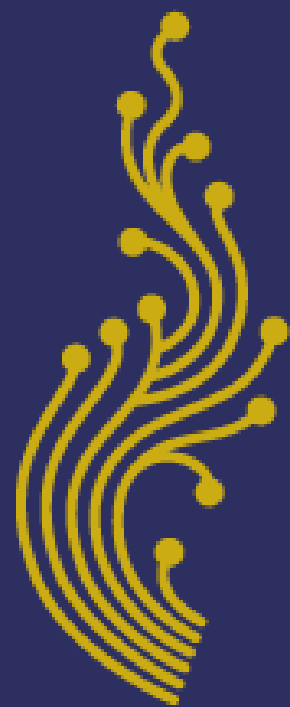
- *Phase 1:* Medical AI, Digital Farming
- *Phase 2:* Human Computer Communication AI Services, AI for Electric Vehicle, Innovative food, AI for Audit , Behavioral and Cognitive Education

Strategy 5: Promoting the use of AI in public and private sectors

- *Phase 1:* AI Startup, AI for Government Services
- *Phase 2:* Tourism AI, Financial AI, Industry 4.0 Index, Targeted Crop Allocation, Demand Response Management, AI for Public Surveillance

Governance Mechanisms





AI THAILAND