AI activities in Asia Pacific

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Artificial Intelligence awarded two Nobel Prizes for innovations that will shape the future of medicine

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John J. Hopfield and Geoffrey E. Hinton were awarded the 2024 Nobel Prize in Physics for developing machine learning technology using artificial neural networks. In Chemistry it was awarded to Demis Hassabis and John M. Jumper for developing an AI algorithm that solved the 50-year protein structure prediction challenge. This highlights AI's impact on science, medicine and society; however, the winners acknowledge ethical aspects of AI that must be considered.

AI is fueling a new wave of cyber threats. Check Point Research AI Security Report 2025 uncovers the darker side of innovation—where threat actors are using AI not just to enhance their attacks, but to scale them in ways never seen before. Our focus zeroes in on:

- Autonomous and interactive deepfakes and impersonation
- Jailbroken LLMs and the rise of “Dark AI” models
- Automated malware creation and data mining
- Fake AI platforms and GenAI-fueled disinformation
- Data exposure risks from unregulated corporate AI use


ai
national
cases
agriculture
real
southeast
languages
region
digitally
opening
shaping
intelligence
framework
digital
surprising
deployment
resilience
infrastructure
hear
asian
strategy
use
government
competitive
development
building
llms
machines
innovation
tremendous
inclusion
thus
disaster
education
native
local
efforts
empowered
healthcare
strategic
artificial
fostering
making
responsible
governance
society
proposing
difference
inclusive
pre-training

AI Thailand | Thailand national AI strategy and action plan (2022 – 2027)

AI Thailand is a national program aiming to prepare essential infrastructure for artificial intelligence (AI) development in Thailand to promote economic growth and increase the country's competitiveness. In addition to infrastructure, human capacity and effective ecosystem need to be established. As a result, Thailand national AI strategy and action plan (2022 – 2027) has been approved from the Prime Minister's Cabinet Office on July 26, 2022. The aim of the strategy is that Thailand will have an effective ecosystem for developing and applying AI, proven to enhance the economy and improve our quality of life by 2027.

The goal will be accomplished through the following **5 strategies and 15 work plans.**

DOST BUILDS ON "AI" NATIONAL STRATEGY

PRINT

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National AI Strategy

Artificial Intelligence

National AI Strategy

Be part of our AI

AI for the Public Good, for Singapore and the World

What is SEA-LION

Built for Southeast Asia, by Southeast Asia

South East Asian Languages in One Network (SEA-LION) is a family of open-source Large Language Models (LLMs) that better understands Southeast Asia's (SEA) diverse contexts, languages, and cultures.

It is an open-source project anchored by the Products Pillar of AI Singapore. Our work in SEA-LION aims to create LLMs that cater to under-represented population groups and low resource languages in the SEA region.

Asi@Connect funded AI projects

AP-GAINED+: Scaling Generative AI Capacity for NRENs across Asia-Pacific

Countries covered (but not limited to): Bhutan, Nepal, Pakistan, Laos, Cambodia, Vietnam, Thailand, Malaysia, Philippines, Mongolia

Empowering NREN Institutions: Generative
AI Training for Network Monitoring and Cyber Security.

Countries covered(but not limited to: Thailand, Philippines, Bhutan, Indonesia

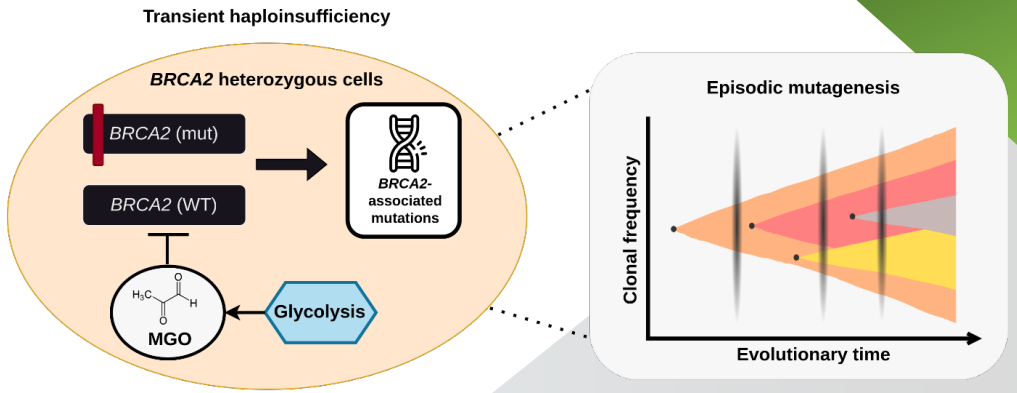
Case Study

Unlocking the Future of Cancer Genomics with High-Speed Data Transfer

- SingAREN assisted Cancer Science Institute of Singapore (CSI) to **download ~2PB genome data** from the National Cancer Institute (NCI-USA) into NSCC ASPIRE 2A.

- Downloaded data was fed into a special workflow called SWAG and optimized on ASPIRE 2A to clean and harmonize diverse genomic data, eliminating batch effects to enable mutation calling.

- These batch-effect-free outputs:
  1. Supported the Pitt Lab's cancer genome research projects, and
  2. Shared with other NUS research centers to foster collaborative scientific projects.



Picture credit to Pitt Lab

"*We have observed a significant speed improvement in our data transfers over the Internet using SingAREN's infrastructure compared to other resources. Specifically, we've seen up to a tenfold increase in download speeds, greatly accelerating the throughput of our genomic analysis workflows."*
— Akila Ravihansa Perera, HPC/Cloud Engineer & SWAG Development Lead, Pitt Lab

"*The network speeds of SingAREN, combined with the computational power of NSCC via ASPIRE2A, have allowed us to greatly enhance local scientific efforts by enabling us to effectively utilize petabytes of sequencing data generated globally."*
— Dr. Jason Pitt, Pitt Lab

Thank You