MINISTRY OF HIGHER EDUCATION, MALAYSIA
DEPARTMENT OF POLYTECHNIC AND COMMUNITY COLLEGE EDUCATION

一般社団法人
発明推進協会
MINISTRY OF ECONOMY, TRADE AND INDUSTRY, JAPAN
JAPAN INSTITUTE FOR PROMOTING INVENTION AND INNOVATION

Application of Artificial Intelligence (AI) in the Acquisition and Utilization of Intellectual Property Rights in Malaysia

Speaker

Ts. MOHD ISMI ASWALY HANIMI, A.M.P.
Senior Lecturer
Department of Polytechnic and Community College Education
Ministry of Higher Education, Malaysia

IP COLLEGIUM
Meeting and Seminar
12 – 13 February 2026
Tokyo, Japan

OUTLINE

1. Foreword
2. Acquisition of Patent, Trademark and Copyright
3. Utilization of Intellectual Property Assets
4. Government Initiatives, Legal Frameworks and National Strategies
5. Case Studies
6. Challenges and Opportunities for AI Adoption

Acknowledgement

References

1 FOREWORD

"If you want to ensure that an emerging economy succeeds, remains competitive, and sustainable, then it has to be through a quantum leap. And AI is the answer for that, for the matter of digital transformation."

YAB Dato' Seri Anwar bin Ibrahim

Prime Minister of Malaysia

Source:
Web Portal of the National AI Office, Ministry of Digital Malaysia, https://ai.gov.my/

The rapid rise of artificial intelligence (AI) is fundamentally reshaping intellectual property (IP) globally. In Malaysia, the convergence of AI and IP is becoming a crucial area for legal, economic, and technological advancement. As Malaysia strives to lead the region in digital innovation, understanding how AI is being used to acquire, manage, and utilise IP rights is vital for policymakers, businesses, and legal professionals.

This presentation delves into the acquisition of artificial intelligence (AI) concerning patents, trademarks, and copyright in Malaysia. It examines AI's application for utilisation towards intellectual property assets and considers government initiatives, legal frameworks, and national strategies. Real-world case studies illustrate practical applications while highlighting the challenges and opportunities for AI adoption in IP.

2 ACQUISITION OF PATENT, TRADEMARK & COPYRIGHT

Patent > Search & Examination
Trademark > Classification & Registration
Copyright > Registration & Management

IP CREATION AND PRE-FILING STAGES

Prior-Art Searches

- Comprehensive Search
- Patent Database Analysis
- Novelty Assessment

Patent Landscape Analytics

- Technology Mapping
- Competitive Intelligence
- Innovation Trends

Design and Trademark Similarity Screening

- Trademark Match Analysis
- Design Similarity Search
- Visual & Phonetic Conflict Detection

Turning Ideas into Valuable Intellectual Property

Epoque Net

Europäisches Patentamt
European Patent Office
Office européen des brevets

Credits: MyIPO Patent Examiners
**AI tools for further understanding the invention's claims & conducting prior-art searches to obtain classification information.*

IP FILING AND EXAMINATION

Automate Classification (IPC/Nice/Locarno)

- AI-Powered Categorization
- Code Suggestion
- Align with Intl. Standards

Flag Similarity Conflicts in Trademarks and Designs

- Trademark Analysis
- Design Conflict Detection
- Similarity Alerts

Support Examiner Decision-Making, Not Replace It

- Prioritized Suggestions
- Enhanced Accuracy
- Data-Driven Insights

Enhancing Examiner Efficiency with Smart Assistance

COPYRIGHT REGISTRATION AND MANAGEMENT

Detect Copyright Infringements

- Web & Social Media Scanning
- Automated Takedown Notices
- Anti-Piracy Monitoring

Manage Digital Rights

- DRM Protection
- Global Licensing Tracking
- Royalty Management

Automate Registration of Creative Works

- Simplified Online Filing
- Copyright Submission Portals
- Registration Certificate Issuance

Safeguarding and Managing Creative Works Online

3 UTILIZATION OF INTELLECTUAL PROPERTY ASSETS

IP COMMERCIALISATION, VALUATION AND LICENSING

Patent Valuation Models

- Cost Approach
- Market Approach
- Income Approach

Technology Readiness Forecasting

- TRL Assessment
- Innovation Milestones
- Risk Analysis

Market-IP Matching Platforms

- IP-Market Mapping
- Industry Analysis
- Partnership Opportunities

Unlocking the Value of Intellectual Property

Remarks:

Predictive analytics platforms enable businesses to assess the value of their IP portfolios, identify licensing opportunities and negotiate more favourable terms. For example, JCIP's AI-Driven IP Analytics provides IP portfolio management solutions that analyse market trends, competitor activities, risk assessment and patent landscapes to inform strategic decisions regarding licensing and commercialisation.[1]

IP ENFORCEMENT AND COMPLIANCE

Online Trademark Infringement Detection

- Automated Search
- Brand Protection Alerts
- Domain & Social Media

Counterfeit Goods Surveillance (e-Commerce Platforms)

- Product Authentication
- Counterfeit Listings Removal
- e-Commerce Monitoring

Copyright Content Monitoring

- Web & Social Media Scanning
- Video & Image Tracking
- DMCA Takedown Notices

Protecting Intellectual Property from Infringement

Remarks:

AI-powered infringement detection systems scan online platforms, marketplaces and social media for unauthorised use of patents, trademarks and copyrighted works. Patent Watch, for instance, offers automated patent infringement detection and claim chart generation. This helps rights holders identify and act against infringers more efficiently.[2]

IP PORTFOLIO MANAGEMENT AND ANALYTICS

Automated Renewal Deadlines & Maintenance Fees

- Renewal Alerts
- Fee Tracking
- Compliance Management

Predictive Analytics for Portfolio Optimization & Risk Assessment

- Patent Strength Analysis
- Risk Assessment
- ROI Forecasting

Real-time Monitoring of Market Trends & Emerging Technologies

- Technology Tracking
- Competitor Analysis
- Trend Reports & Insights

Maximizing the Value of Intellectual Property Assets

IP POLICY, ANALYTICS AND NATIONAL PLANNING

National Patent Trend Analysis

National Patent Trend Analysis

- Patent Filing Trends
- Technology Growth Sectors
- IP Economic Impact

Sectoral Innovation Forecasting

Sectoral Innovation Forecasting

- Emerging Technologies
- Industry-Specific IP Strategies
- Innovation Roadmaps

ASEAN and Global IP Benchmarking

ASEAN and Global IP Benchmarking

- ASEAN IP Statistics
- Global IP Ranking & Metrics
- Policy & Strategy Comparison

Driving Strategic Intellectual Property Decisions

4 GOVERNMENT INITIATIVES, FRAMEWORKS & STRATEGIES

RMK13 MALAYSIA MADANI

THIRTEENTH MALAYSIA PLAN

2026-2030

MELAKAR SEMULA PEMBANGUNAN

*"Nonetheless, the structural shift of HGHV industries and strategic sectors continues to lag and has yet to reach full potential due to low productivity growth and existing investment models that are not anchored on advanced technologies, including **AI** and intellectual property (**IP**)."*

Source:
The Thirteenth Malaysia Plan 2026-2030, https://www.investmalaysia.gov.my/media/m3eamxey/thirteenth-malaysia-plan-2026-2030.pdf

STRATEGY A5.2
Increasing the Intellectual Property Value Creation

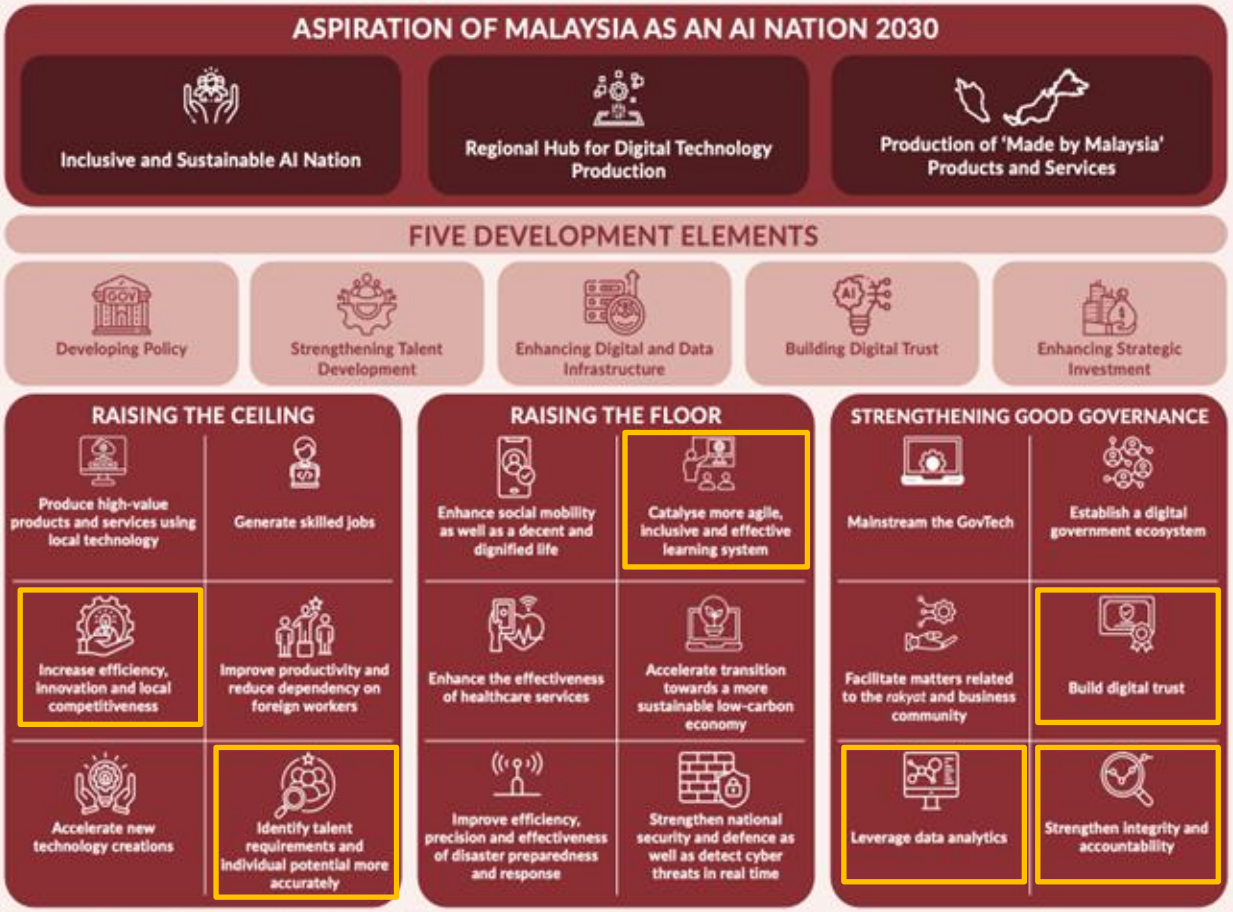
Strengthen the role of IP in value creation to advance economic complexity by increasing commercialisation, leveraging **IP as an asset**, and improving management efficiency.

MECHANISM OF ACTIONS

- Business model for generating returns from IP will be enhanced as a guidance for HEIs & GRIs
- IP ownership policy resulted from government-funded researches will be reviewed in encouraging researchers to commercialise IP
- A government-backed pilot project on collateralisation of IP will be implemented to increase access to commercialisation financing
- An online IP bidding and trading mechanism will be introduced to increase commercialisation and link researchers to potential investors
- Policies and legislation related to regulation of IP valuation profession will be explored to ensure the credibility of valuation reports
- Develop guidelines on the recruitment & career prospects of technology transfer officers at public HEIs & GRIs

Exhibit 1

AI Nation Development Framework



Source: Ministry of Economy and Ministry of Digital

6 mechanics have been identified, (denoted in yellow boxes), to collectively optimise the R&D&C&I investment model. This will increase high-value research and the creation, and commercialisation of intellectual property through the provision of research facilities and targeted incentives.

Efforts to boost the adoption of advanced technology and digitalisation will be intensified through the implementation of the National Science, Technology and Innovation Policy, the National Fourth Industrial Revolution (4IR) Policy, and the Malaysia Digital Economy Blueprint.

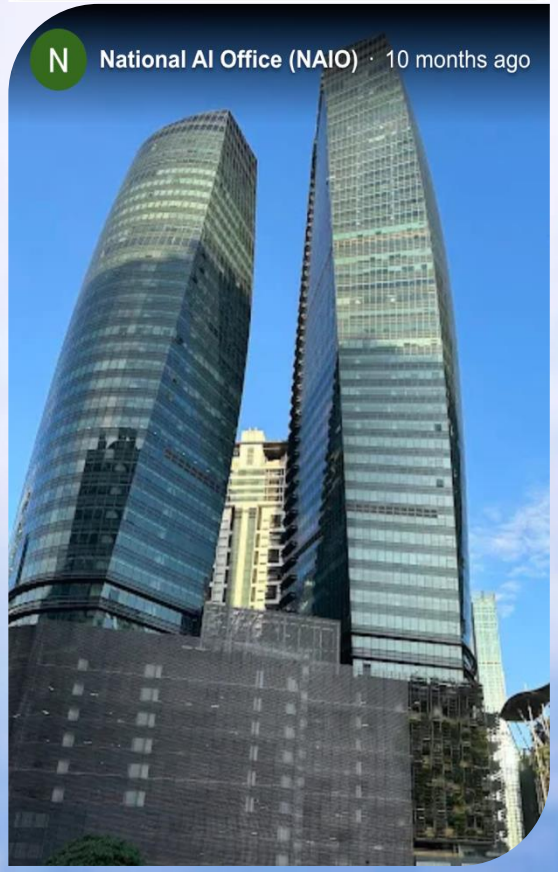
These measures will focus on developing a comprehensive AI ecosystem using cutting-edge technology to position Malaysia as an inclusive and sustainable AI nation. The **National AI Action Plan 2030** will be introduced to achieve this goal.

Ministry of Digital

12 DECEMBER 2024

Launch of National AI Office (NAIO)

Prime Minister, YAB Dato' Seri Anwar Ibrahim officiated the launch of the National Artificial Intelligence Office (NAIO) at the MITEC in Kuala Lumpur.



Credits: Google Images

AI Adoption Regulatory Framework
Regulatory framework to promote ethical and sustainable AI adoption.[7]

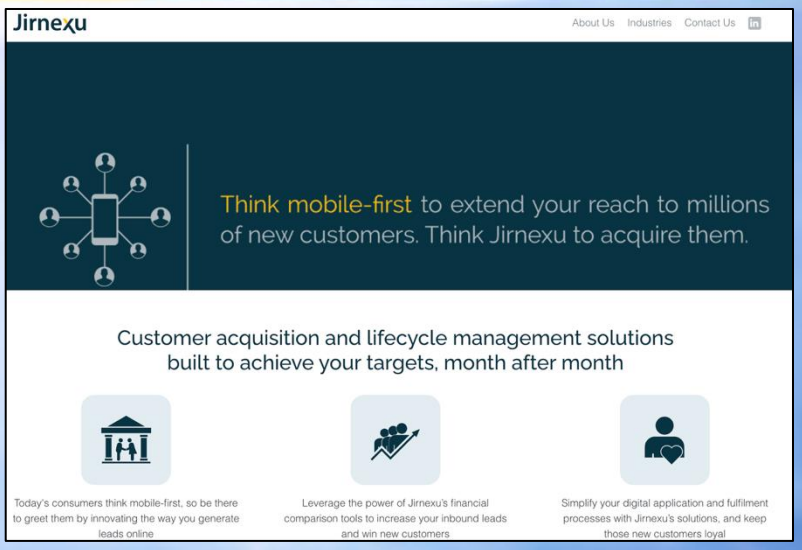
AI Code of Ethics
Ensuring the responsible and ethical usage of AI throughout the entire management value chain.[7]

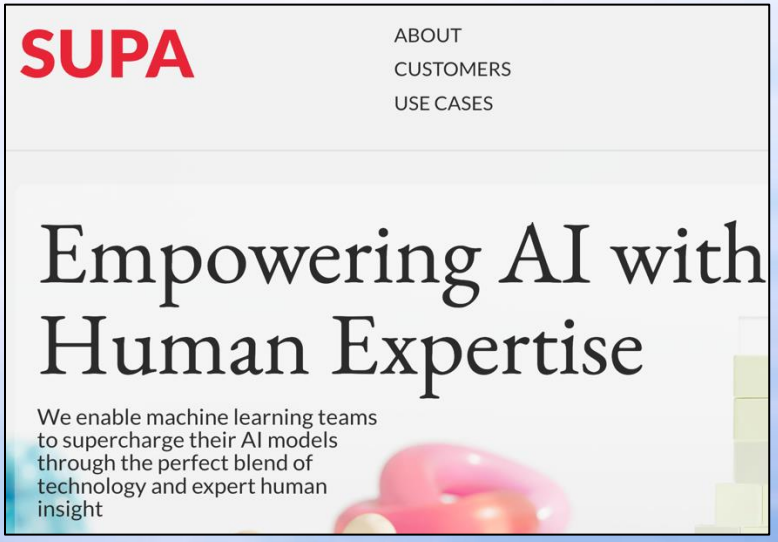
Datasets Related to AI Technology
Data to develop and implement tailored-initiatives for target groups.

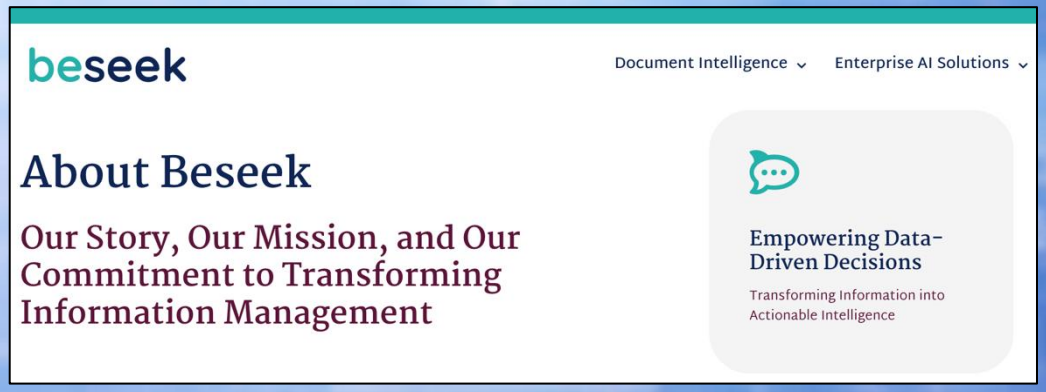
Source:
Web Portal of the National AI Office, https://ai.gov.my/

5 CASE STUDIES

TECHNOLOGY STARTUPS IN MALAYSIA
LEVERAGING AI FOR IP-RELATED PROCESSES



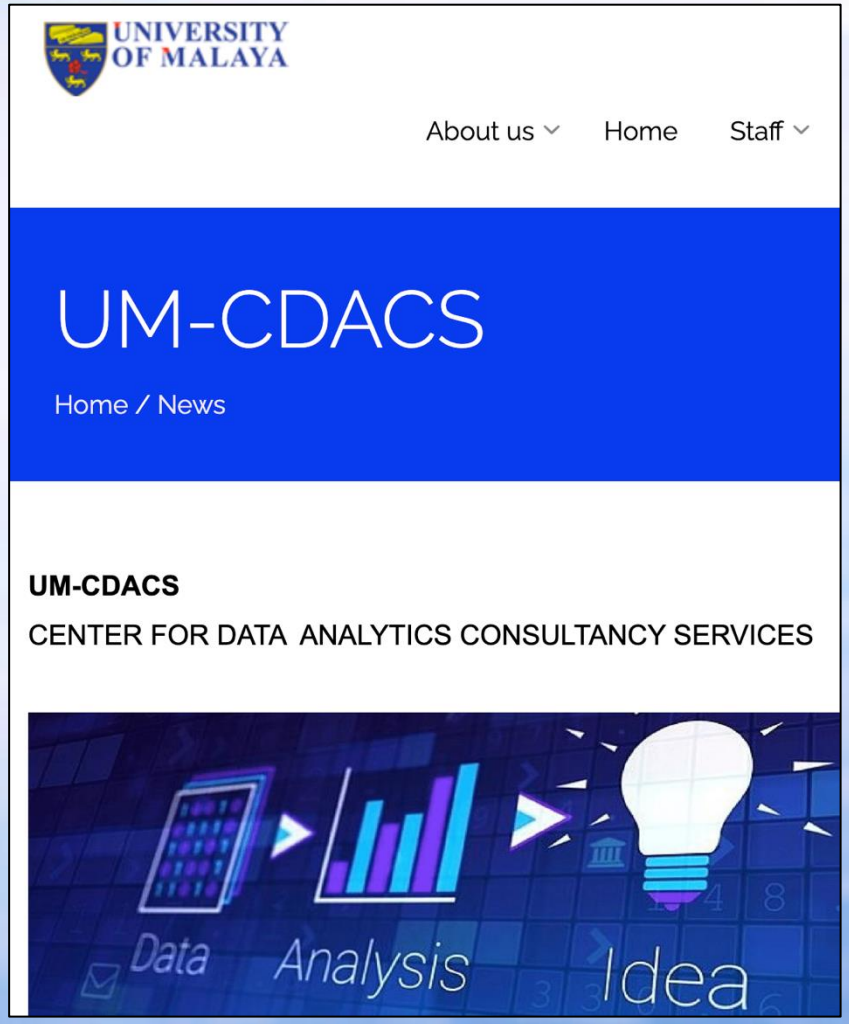




Core Features

- ✓Full stack data science & machine learning platform > enabling businesses deploy AI models for various applications
- ✓Data cleaning & AI models training > supporting businesses prepare high quality datasets for IP application
- ✓Full stack acquisition & lifecycle management > integrating AI-driven compliance & risk management IP protection
- ✓Document intelligence platform streamlining unstructured data > aiding IP due diligence & decision making

ACADEMIC INSTITUTION IN MALAYSIA AT THE FOREFRONT OF AI AND IP INNOVATION



Source:
Web Portal of the UM-CDACS, University of Malaya, https://umcms.um.edu.my/sites/institute-of-mathematical-sciences/news/um-cdacs

Launched dedicated AI research programmes and secured significant funding for national-impact interdisciplinary projects.[3]

Developing AI-driven IP Analytics tools[4] for:

- ✓ **Patent Analysis**
- ✓ **Risk Prediction**
- ✓ **Competitive Intelligence**

6 CHALLENGES & OPPORTUNITIES FOR AI ADOPTION

CHALLENGES FOR AI ADOPTION

Remarks:

Generative AI tools empower creators to produce new works but also raise complex questions about authorship originality and ownership. Currently Malaysian law recognises only human authorship but the growing use of AI in content creation is prompting calls for legal reform and clearer guidelines.[5]

OPPORTUNITIES FOR AI ADOPTION

Remarks:

Malaysia's strategic investments in AI infrastructure, talent development and digitalisation positioned the country as a regional hub for AI-driven IP services. RM10 million was allocated to the National AI Office and RM50 million for AI education in 2025 – reflecting a strong commitment to advancing AI and building a skilled talent pipeline.[6]

WAY FORWARD

AI applications in the acquisition of IP rights in Malaysia are advancing, particularly in patent and trademark processes. However, the legal and institutional frameworks are still adapting to fully harness the potential of these technologies.

Nevertheless, Malaysia views AI not as a replacement for intellectual creativity, but as an amplifier of human ingenuity within a trusted IP system.

ACKNOWLEDGEMENT

1. Department of Polytechnic and Community College Education
2. Ministry of Higher Education, Malaysia
3. Intellectual Property Corporation of Malaysia (MyIPO)
4. Ministry of Digital, Malaysia
5. Ministry of Economy, Malaysia
6. Ministry of Science, Technology and Innovation, Malaysia
7. National AI Office of Malaysia
8. Mr. Mohd Helmi, Mr. Mohd Hafiz & Mr. Zaki *(former)*, Patent Examiners of MyIPO
9. Mr. Ryzul, Trademark Officer of MyIPO
10. Ever AI Technologies, https://www.ever-technologies.com/
11. Supahands Company, https://www.supa.so/
12. Beseek Company, https://beseek.app/company/
13. Jirnexu Company, https://jirnexu.com/
14. University of Malaya CDACS, https://umcms.um.edu.my/sites/institute-of-mathematical-sciences/news/um-cdacs

REFERENCES

1. AI-Driven IP Analytics: Transforming Intellectual Property Management https://jcipconsulting.com/2025/05/14/ai-driven-ip-analtics/
2. Patent Watch: AI-Powered Patent Infringement Detection & Automated https://www.patentwatch.ai/
3. How Public Universities in Malaysia are Responding to AI in Academic Work https://proofreadingmalaysia.com/how-public-universities-in-malaysia-are-responding-to-ai-in-academic-work/
4. UM Research https://umresearch.um.edu.my/
5. AI in Malaysia: Can AI-generated works be copyrighted? https://www.asiaiplaw.com/article/ai-in-malaysia-can-ai-generated-works-be-copyrighted
6. Budget 2025 to accelerate Malaysia's digitalisation, AI adoption. https://www.mida.gov.my/mida-news/budget-2025-to-accelerate-malaysias-digitalisation-ai-adoption/
7. Malaysia to introduce comprehensive legal framework for Artificial Intelligence https://www.skrine.com/insights/alerts/december-2025/malaysia-to-introduce-comprehensive-legal-framewor