

# *The Intersection of Artificial Intelligence and Intellectual Property Rights*

*Implications for Innovation and Regulation in the Caribbean*

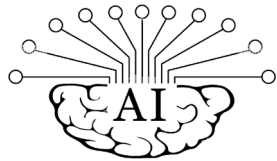


**IPCA** | INTELLECTUAL  
PROPERTY  
CARIBBEAN  
ASSOCIATION

Annual General Meeting  
10<sup>th</sup> Anniversary  
9 November 2024

*Presenters: Fanta Punch and Mrinali Menon*

# ROADMAP



alamy



Overview of Artificial Intelligence and its components



IP & AI – where do they meet?



AI+IP in the Caribbean



Intersection of IP Rights

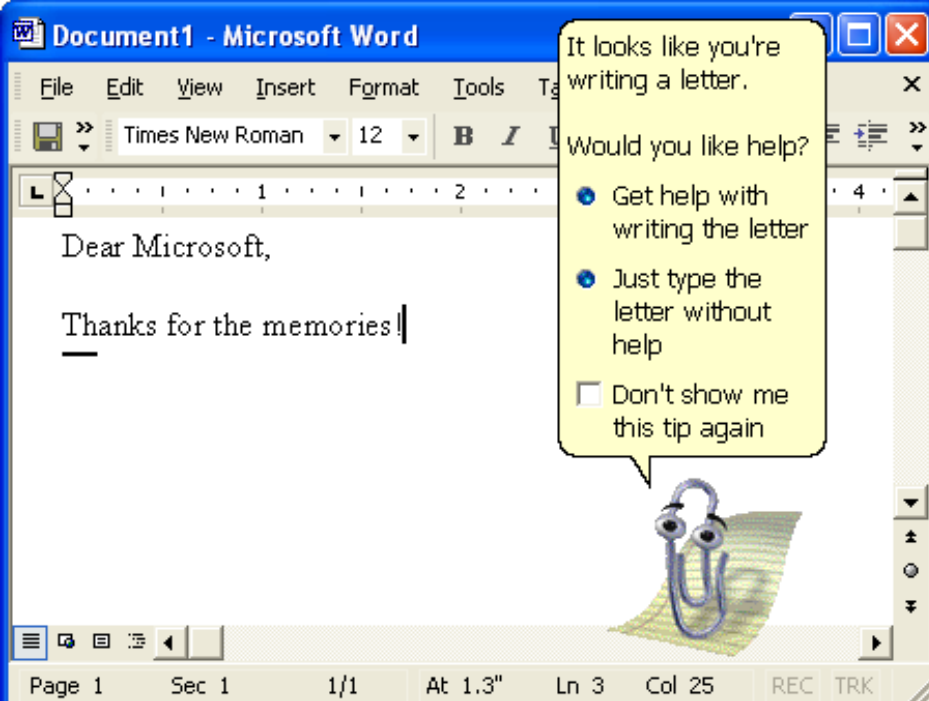


Challenges



Possible solutions

# Overview of Artificial Intelligence and Why the Intersection Matters



Machine Learning?

Neural Networks?

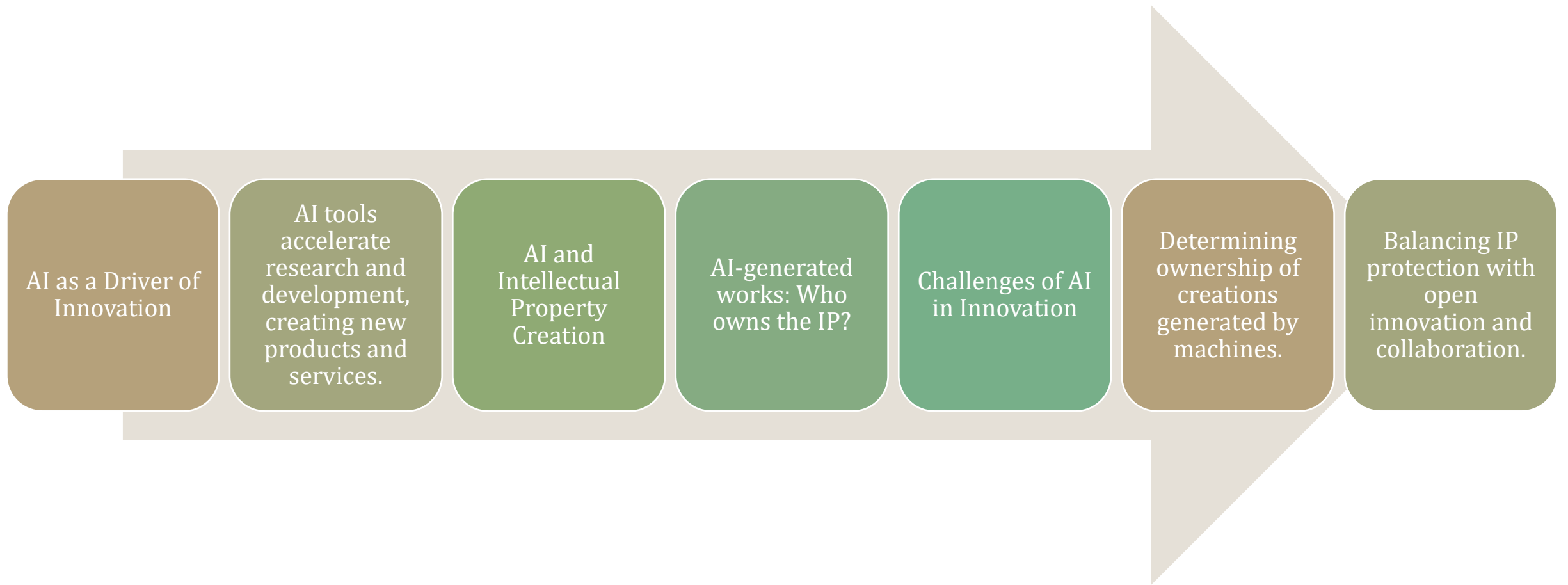
Natural Language Processing?

Traditional AI?

Theory of Mind?

Narrow/Weak AI?

General AI?



## **Intellectual Property and AI Rights – Why the intersection matters?**

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# AI and IP in the Caribbean – Where do we exist?



HEALTHCARE



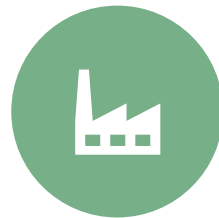
FINANCIAL  
SERVICES



EDUCATION



SECURITY



MANUFACTURING

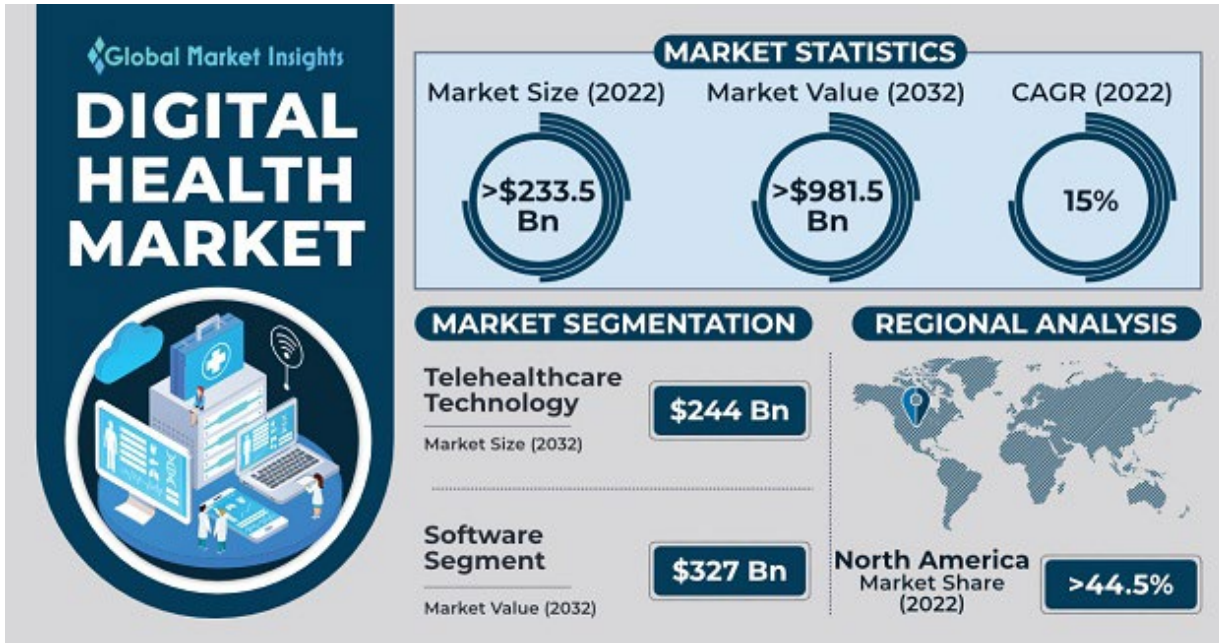


AGRICULTURE



TOURISM

# Healthcare + AI



The global digital healthcare market is expected to reach a value of \$504.4 billion

**Cayman Islands Health Services Authority (HAS)** introduced telehealth and telemedicine much before other countries

**Trinidad & Tobago** has made revolutionary advancements in prioritizing health, especially for HIV and AIDS programs including E and M-health (mobile) testing, counselling and free antiretroviral treatment and care.

**Medl** – T&T based startup connecting doctors, patients, insurers and pharma distributors

**Jamaica – Ja Moves Health App**

Users can track their blood pressure, blood glucose, weight and physical activity levels, and share their progress with their healthcare provider.

**Anguilla** – Genhealth, Higia, Zaya, DeepSeq companies advancing in the Digital Healthcare and Technology space



# Financial Services + AI



# Financial Services + AI



**Caribbean anti-corruption chiefs endorse AI solutions to tackle illicit financial flows**

The June 2024 Bahamas conference discussed how AI technology needs to be involved to help countries curb corruption and redirect funds toward sustainable development goals.



**Bank of Nevis International (BONI) is first Caribbean bank to launch **Tookitaki** anti-money laundering technology**

BONI has partnered with Singapore based Tookitaki becoming the first Caribbean bank to launch this.

Tookitaki pioneered a unique, community-driven Anti-Financial Crime (AFC) ecosystem, featuring a network of experts and offering a platform for them to collaboratively build and share a knowledge base of financial crime scenarios.



**eCurrency has entered into a long-term partnership with Bank of Jamaica to provide technology services for the national rollout of its Central Bank Digital Currency (CBDC)**

The Bank of Jamaica now mints, issues, distributes and redeems CBDC in Jamaica.

# Education + AI

The **Caribbean Examinations Council (CXC)** is leveraging AI to enhance literacy and numeracy as part of its broader digital transformation efforts.

The **World Bank report** identifies nine key AI-driven innovations, organized into three main categories: solutions for teachers, students, and educational administration.

In **Chile**, the non-profit **organization Elige Educar** has been pioneering the use of AI to better attract and retain teaching talent.

In the United States, **MagicSchool.ai**, founded by former educators, has developed a range of AI-powered tools designed to assist with tasks such as creating lesson plans, assignments, and assessments.

The swift rise of generative AI tools like **ChatGPT, Claude, Llama, and Gemini**, among others, has ignited a heated debate within the education sector.

There are limitations on AI-Detection Tools producing false positives, also leading to students being wrongly accused of cheating.





# Agriculture + AI

In **Grenada**, the **Global Water Partnership-Caribbean** (GWP-C) embarked on an innovative Pilot project to tackle water scarcity in the agricultural sector. In response to Grenada's most recent drought experienced this year, GWP-C installed two irrigation sensors through use of IRROGOPIMAL technology, a cutting-edge technology that integrates ground sensors, meteorological services, and a centralized software platform powered by artificial intelligence and machine learning algorithms.

# Domain Names + AI

## Anguilla and the “.AI” revolution

Since the launch of ChatGPT, registrations of .ai domain names have skyrocketed—surging from 144,000 registrations in 2022 to 354,000 in 2023

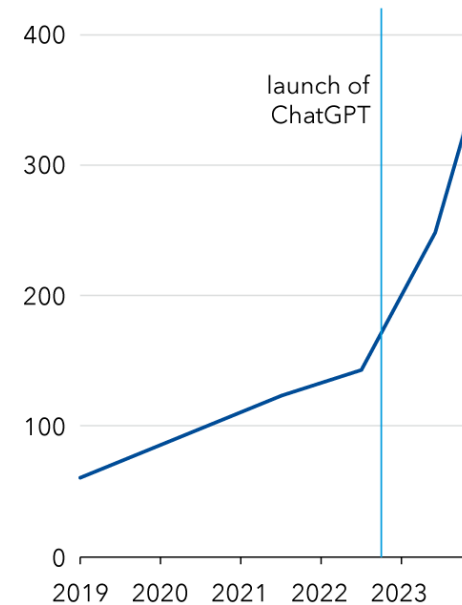
There are now **more than 533,000 .ai web domains**, an increase of more than 10-fold since 2018

**Tuvalu (.tv)** has benefited from the advantageous country code top-level domains (ccTLDs) assigned in the 1990s by the International Telecommunication Union.

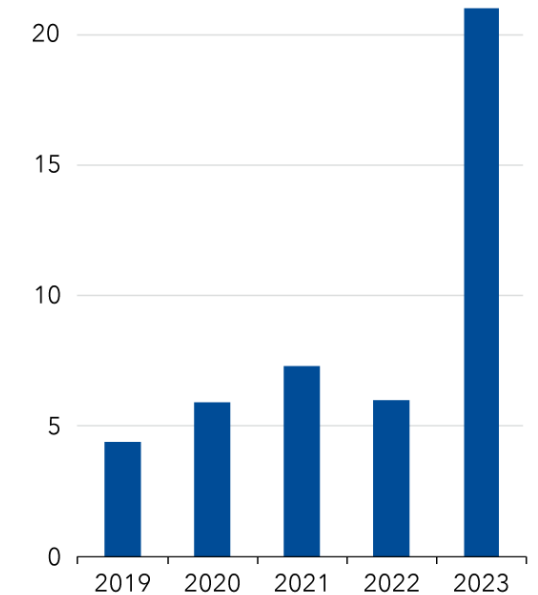
## Going viral

The number of .ai internet addresses registered in Anguilla has soared since the launch of ChatGPT, generating a windfall for the small Caribbean island.

**Number of registered .ai domains**  
(thousands)



**Revenues from .ai domain registration**  
(percent of total revenue)



Source: Government of Anguilla Treasury Department. Offshore Information Services (whois.ai/faq.html).

# Tourism + AI



**Caribbean Hotel & Tourism Association (CHTA)** has released a new guide that serves as a playbook for tourism organizations, hoteliers and other suppliers.

**The Aruba Tourism Authority** launched **myAruba** Assistant, an AI-powered tool available through the organization's website and WhatsApp messaging service.

**Discover Puerto Rico**, has teamed up with the travel advertising network Clicktripz to introduce **CHIME**, an AI-driven digital advertising chatbot.

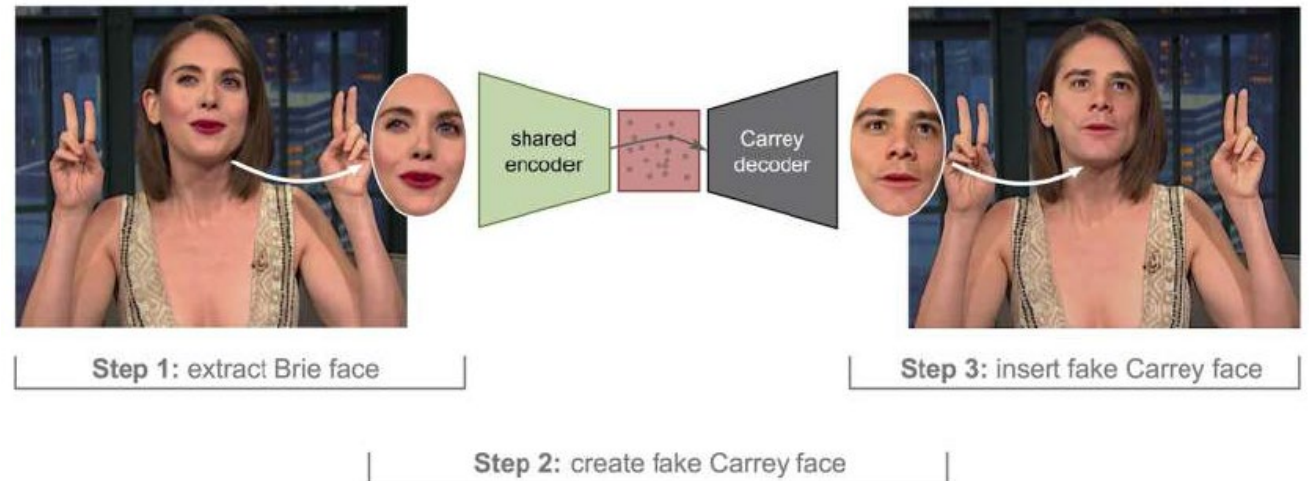
# Media & Entertainment + AI



Original showing Alison Brie



Deepfake showing Jim Carrey instead of Brie





AI in  
Journalism in  
the Caribbean



Deepfake and  
breach of  
privacy



Video and Face  
Swap, Puppet  
Master, Lip-  
Sync



Leveraging  
powerful  
techniques  
from machine  
learning and AI

# Ethics, IP and AI

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## Ownership

Who owns the creation generated by an AI?

How should we protect the output of AI system under copyright laws?



## Misuse

AI Generated information used maliciously.

Scams, extortion, plagiarism, etc.



## Disclosure

Where to draw the line and how to draw the line?

Under what circumstances must one disclose AI was used to generate information?

**EU AI Ethics Guidelines** list seven key requirements that AI systems should meet in order to be trustworthy:

- Human agency and oversight
- Technical robustness and safety
- Privacy and Data governance
- Transparency
- Diversity, non-discrimination and fairness
- Societal and environmental well-being
- Accountability

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# Challenges in the enforcement of AI in the Caribbean as per the UNESCO Report

Narrow resource base depriving them of the benefits of economies of scale

Small domestic markets and heavy dependence on a few external and remote markets

High costs for energy, infrastructure, transportation, communication and servicing

Long distances from export markets and import resources

Low and irregular international traffic volumes

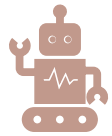
Little resilience to natural disasters

High volatility of economic growth

Limited opportunities for the private sector and a proportionately large reliance of their economies on their public sector

Fragile natural environments

# Possible solutions



## Align

Align AI strategy with regional developmental plans for education, food security, climate change, digital transformation



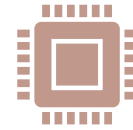
## Expand

Expand regional digital and AI skills by increasing participation from women, youth, and people with disabilities.



## Build

Develop robust digital infrastructure (5G, high-performance computing, GPUs, cybersecurity) to support AI deployment, content creation, and ensure reliable internet access.



## Invest in

Invest in education and R&D in science, technology, and engineering, driven by public sector digital transformation and business incentives for innovation.



## Establish

Establish AI governance for security, risk management, and regional strategy execution.

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# Thank you!



“All Warfare is based on deception”

- The Art of War, Sun Tzu