

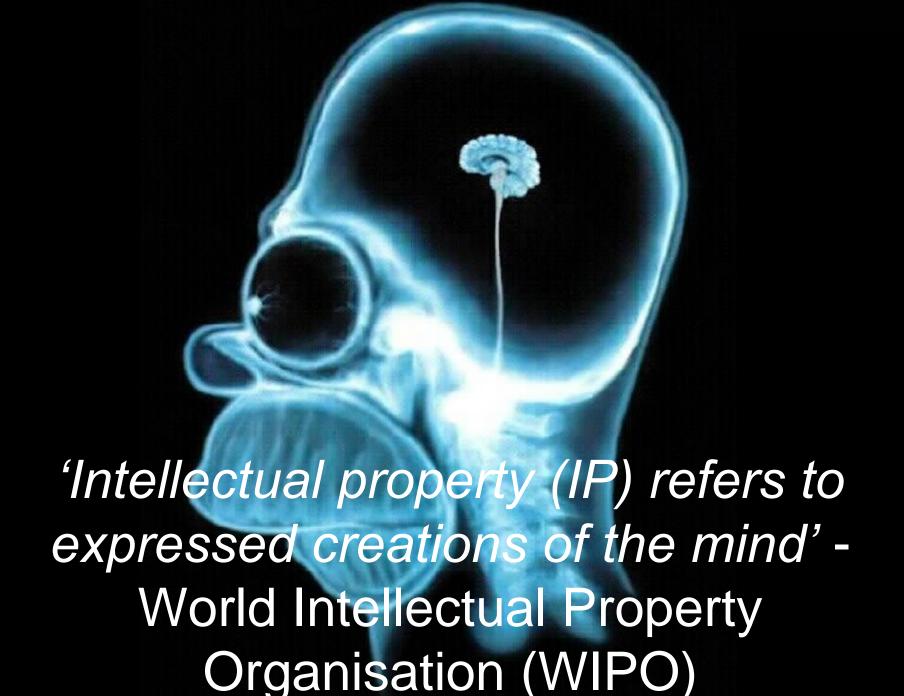
OUTLINE

What is Intellectual Property (IP)?

 Functions of the Intellectual Property Office

Types of IP

Benefits of IP



Naruto takes photo of himself



IP is not monkey's business

Responsibilities of the Intellectual Property Office (IPO) of T&T

- Granting of IPR's
- Determining of Opposition Hearings
- Making IP information available to the public
- Receipt of International Applications
- Advising the Government
- Patent Information Services

- Public AwarenessCampaigns
- Promoting Inventiveness
- Participating in development of International Treaties
- Participating in the development of International Instruments

Intellectual Property

Copyright and Related Rights

Industrial Property

Copyright

Protection for *Original*

literary and artistic works















PATENTS

TRADE MARKS

INDUSTRIAL DESIGNS

TRADE SECRETS

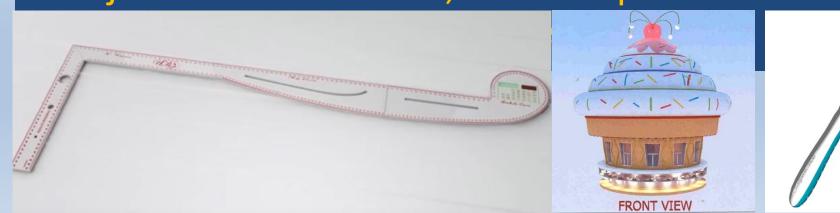
NEW PLANT VARIETIES

GEOGRAPHICAL INDICATIONS

LAYOUT TOPOGRAPHIES OF INTEGRATED CIRCUITS



An Industrial Design is the ornamental aspect of an object. In other words, it is that part of an object

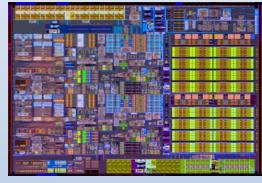


Integrated Circuits

Arrangement of electrical components on a semiconductor.













TRADE MARKS

Any sign/symbol which indicates source of good/service



Johnson Johnson













PATENTS

- 1.Patents protect inventions.
- 2.An invention is a new technical solution to an existing problem (process/product).





TECHNICAL INFORMATION RESOURCES

- Future IP Academy
- IP clinic
- IPO technical library facility
- Patent Database Search

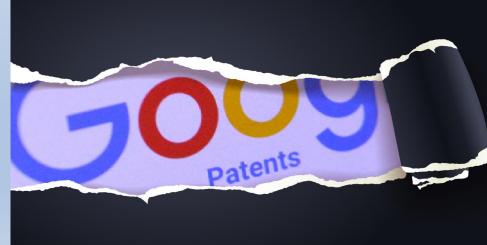
Patent Searching

Espacenet
Patent search



UNITED STATES
PATENT AND TRADEMARK OFFICE

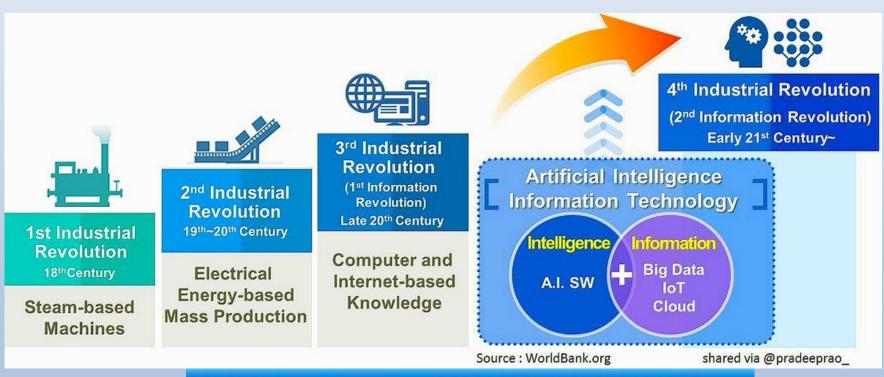




Basic Functions of an IP System

- Facilitate IP CREATION (e.g. patent databases as sources of innovative ideas)
- Provide IP PROTECTION (e.g. protection from illegal reproduction and loss of profits)
- Support IP APPROPRIATION (e.g. higher profits with innovative products, establish good will and reputation in the market and provides value & tradability)
- Prevent IP ABUSES (e.g. unfair competition)

Fourth Industrial Revolution Technologies



Emerging technologies bringing about the Fourth Industrial Revolution = IoT, AI, Big data

<u>Korea</u>



IOT AI AUTONOMOUS BIG DATA BIG PRINTING CLOUD COMPUTING INTELLIGENT ROBOTS

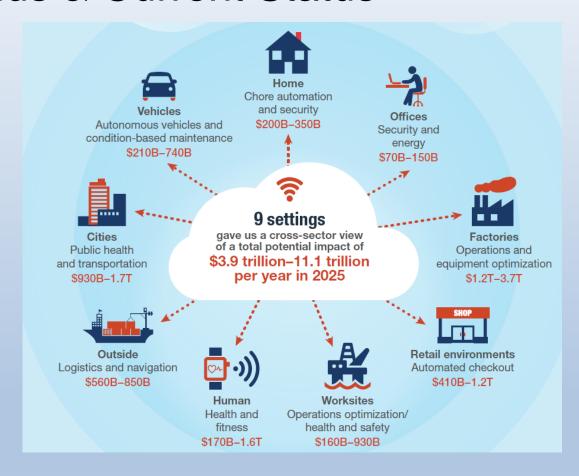
Technologies Related to the 4th Industrial Revolution

Fast advancements & importance of patenting, examination time reduced from 16 months to 6 months.

The "Asian Silicon Valley" initiative

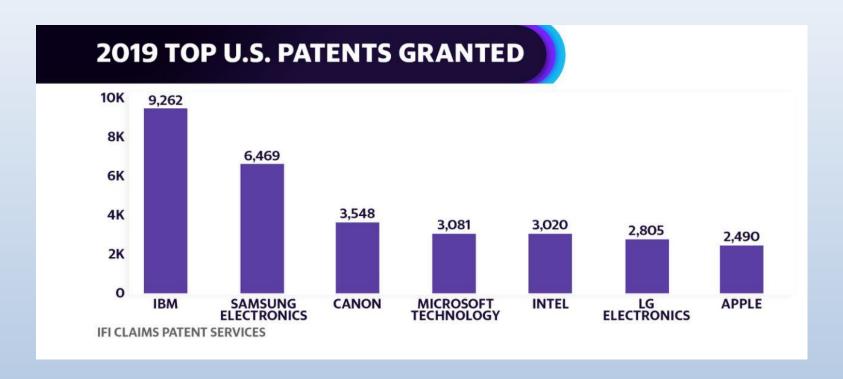
Trends & Current Status

The interconnection via the Internet of computing devices embedded in everyday objects



Global potential economic impact of IoT in 2025: US\$3.9-11 trillion

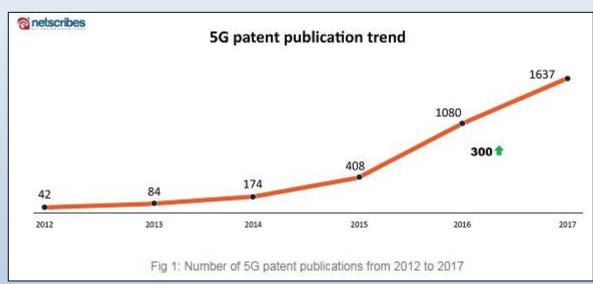
Top Companies Utilizing the Patent System

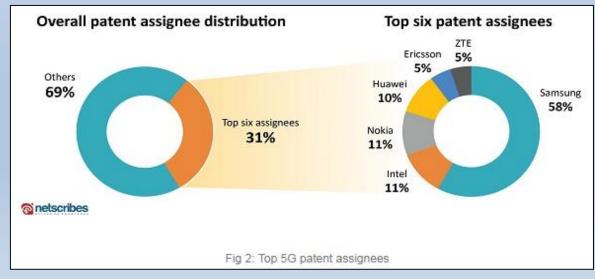


Adapted from: "Companies won a record number of patents in 2019, with Microsoft, Apple and IBM leading the charge", available online at: https://finance.yahoo.com/news/companies-won-a-record-number-of-patents-in-2019-with-microsoft-apple-and-ibm-leading-the-charge-212436667.html

 Growth in patenting corresponds to a new organisation of research that is less centred on the individual firm and more based on knowledge networks and markets







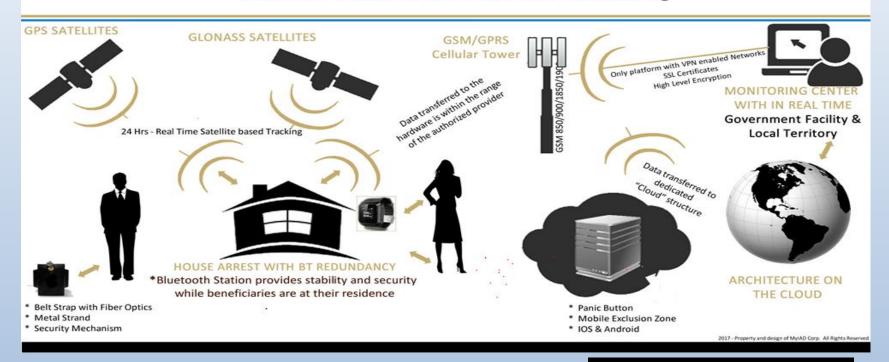


 Increase in the number of related patent publications

 Samsung has a major share with over 600 patents and is followed by other large corporations such as Intel, Nokia, Huawei, Ericsson, and ZTE.

Examples of inventions that can be implemented in T&T

Domestic Violence via Active GPS Monitoring



PATENT INFORMATION

United States Patent: US 8,451,131 (B2)

Title: Offender presence warning system

Filing date: Jul 7, 2009

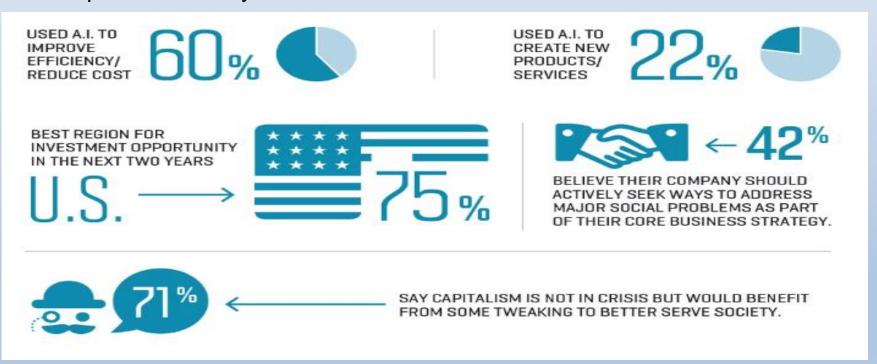
Inventors: Ohanes Der Ghazarian

Economic Rationale for an IP System

- Provides motivation to innovators by granting them temporary monopoly rights (royalties).
- Disclosure of technical details would lead to wider diffusion of technology after the patent expiry.
- Leads to early disclosure of technical information that would facilitate further innovations.
- Contributes significantly to economic growth.

Artificial Intelligence to the Rescue

Artificial intelligence isn't the future; it's the now. Already more than half
of Fortune 500 CEOs say their company is using these technologies to
improve efficiency.



Adapted from, "The 2019 Fortune 500 CEO Survey Results Are In" available online at: http://fortune.com/2019/05/16/fortune-500-2019-ceo-survey/

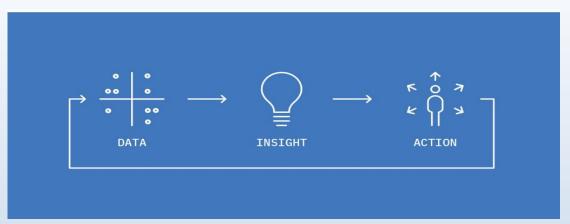
Role of ICT Sector

ICT sector plays a critical role in diversification; its contribution to GDP has grown significantly since 2006: approximately 3.5% to the Trinidad

and Tobago economy



(2019 Ed. Trinidad and Tobago Business Law Handbook, p.167)



Is the classical IP system still relevant in the new data-driven economy?

"The transformative power of technology is a game-changer in almost all industry sectors"

https://www.law.com/legaltechnews/2019/10/31/the-ip-industry-must-accelerate-digital-transformation/?slreturn=20200110123033

Is there any evidence that countries are starting to adapt their innovation policies to the digital economy?

"...complex policy questions surrounding data in the digital economy."

Francis Gurry, WIPO Director General



GLOBAL INNOVATION INDEX 2019

Creating Healthy Lives—The Future of Medical Innovation

TRINIDAD AND TOBAGO

Adapted from: "Global Innovation Index 2019," available online at: https://www.wipo.int/edocs/pubdocs/en/wipo pub gii 2019.pdf

- Global Innovation
 Index rank as at
 2019: 91/129
- Global Innovation rank as at 2018: 96

$\overline{\Sigma}$	KNOWLEDGE & TECHNOLOGY OUTPUTS	14.9	103	\$
6.1	Knowledge creation Patents by origin/bn PPP\$ GDP. [⊕]	2.5	118	\ \
6.1.1	Patents by origin/bn PPP\$ GDP	0.1	118	
6.1.2	PCT patents by origin/bn PPP\$ GDP	0.1	62	
6.1.3	Utility models by origin/bn PPP\$ GDP. ⊕	0.0	63	0 💠
6.1.4	Scientific & technical articles/bn PPP\$ GDP	2.7	106	\Q
6.1.5	Citable documents H-index	4.0	102	
6.2	Knowledge impact	35.2	[71]	
6.2.1	Growth rate of PPP\$ GDP/worker, %		109	0 0
6.2.2	New businesses/th pop. 15-64	n/a	n/a	
6.2.3	Computer software spending, % GDP	n/a	n/a	
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	2.5	81	♦
6.2.5	High- & medium-high-tech manufactures, %	n/a	n/a	
6.3	Knowledge diffusion	6.9	124	0 \$
6.3.1	Intellectual property receipts, % total trade	0.0	84	
6.3.2	High-tech net exports, % total trade	0.0	119	<
6.3.3	ICT services exports, % total trade	0.1	121	\Q
6.3.4	FDI net outflows, % GDP	0.4	70	

INTERNET USAGE

942,713 internet users within a population of 1,364,973 in Trinidad and Tobago

In 2017, 61%, 30% and 9% of web traffic were derived from laptops, mobile phones and tablet devices respectively.

(https://www.internetlivestats.com/internet-users/trinidad-and-tobago/)

MOBILE PHONE PENETRATION

140 mobile phone subscriptions per 100 people, Trinidad and Tobago has one of the highest penetrations of mobile phone coverage in the world (2018 World Bank)

(https://data.worldbank.org/indicator/IT.CEL.SETS.P2)

Demand for the development of apps which offer solutions:

Trini Cars for Sale, Birdie Pirdie, Trini Malls, Trini.com eMarket,

Trini 2.0,

Trini Shoppers, My Trini Lime

<u>APPRENEURSHIP</u>

Mobile apps are a key creative sector which deserve strategic consideration:

Assess the impact of use of apps and trends surrounding same

(Candy Crush 3rd most played app game in US: Statista 2019)



Korean Innovation Policy



Ministry of Science and ICT

Ranked No 1 on Bloomberg Innovation Index from 2016- 2019

Top policy priority of the Korean government is aimed at promoting innovation-led growth:

- (1) creating an innovation ecosystem;
- (2) providing support for basic research; and
- (3) securing its global competitiveness in frontier technology capabilities (data, networks and AI)

(Global Trade and Innovation Policy Alliance June 2019: http://www2.itif.org/2019-national-innovation-policies.pdf)







Intellectual Property Office
Inspiring Innovation, Protecting Creations

IpoTrinbago

Address: 3rd Floor, Capital Plaza, 11-13 Frederick Street, Port of Spain.

Email: info@ipo.gov.tt

Phone: 625-1907; 627-0706

www.ipo.gov.tt