Intellectual Property Corporation of Malaysia (MyIPO)

Government Digital Service Journey Experiences

ASEAN IP Register Coordinator Meeting,
6th to 10th November 2023

AGENDA

1 Background

2 New Initiative

4 Impacts & Benefits

5 Way Forward

Background

BACKGROUND

MyIPO Before..

- Different system and platform for each IP

Trade Mark

- Integrated Trade Mark System (ITMS)
- 2010 - 2018

Patent

- System Name : SOPRANO
- 2009 - 2018

Industrial Design

- Industrial Design Administration System (IDesign)
- 2007 - 2020

Geographical Indication

- System Name : Geographical Indication Administration System
- 2009 - 2020

Copyright

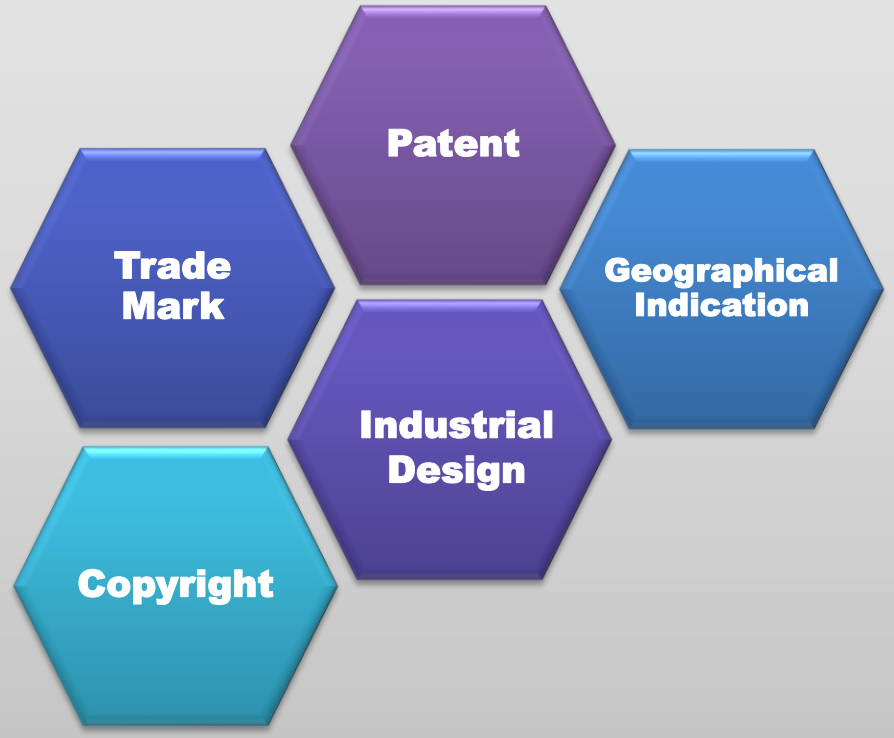
- Copyright Voluntary Notification System
- 2012 - 2020

New Initiative

NEW INITIATIVE

Sistem Pengurusan Harta Intelek (SPHI)

Intellectual Property Management System



An integrated Intellectual Property management system covering Patents, Trademarks, Industrial Designs, Geographical Indications and Copyrights

NEW INITIATIVE

Development of a comprehensive Intellectual Property Management System (SPHI) covering trademarks, patents, industrial designs, copyrights and geographical indications

Increased productivity by reducing repetitive work processes and ensuring consistency in every operation

Increasing the country's competitiveness in the competitiveness index, especially in the Global Innovation Index (GII)

NEW INITIATIVE

Roadmap

1

2016
MyIPO conduct business process improvement (BPI)

2

2017
Project kick-off

3

2019
Patent and trade mark module go-live

4

2020
Disaster Recovery Center (DRC)

5

2021
Industrial design, copyright and geographical indication module go-live

NEW INITIATIVE (SPHI)

System Components

SPHI

IP Administration

- A Web based applications which provides the requisite functionalities to manage the procedures of IP registration

DOCUMENTUM

Digitization

- A repository for all types of electronic document related to patent, trade mark, geographical indication, industrial design and copyright application

SPHI for public (also known as IP ONLINE)

Online Services

- A secure web-based system for Patent, Trade Marks, Industrial Design & Geographical Indication
- Consist of filing and search

SPHI

Features

01 ***ONLINE FILING & SEARCH***

Provides the facility to submit forms and search for IP information.

02 ***TASK DRIVEN***

The work process is modeled as a workflow for both internal users and intellectual property owners.

03 ***E-COMMUNICATION***

The new design of SPHI, which offers a more effective and efficient electronic communication method.

04 ***DIGITAL SIGNATURE***

Identity verification in payment transactions with POS Digicert.

05 ***ONLINE PAYMENT***

Cashless payment management to facilitate financial management through FPX and credit cards.

06 ***DATA EXCHANGE***

Provides a platform for generating data on intellectual property for international cooperation.

07 **REPORTS & STATISTICS**

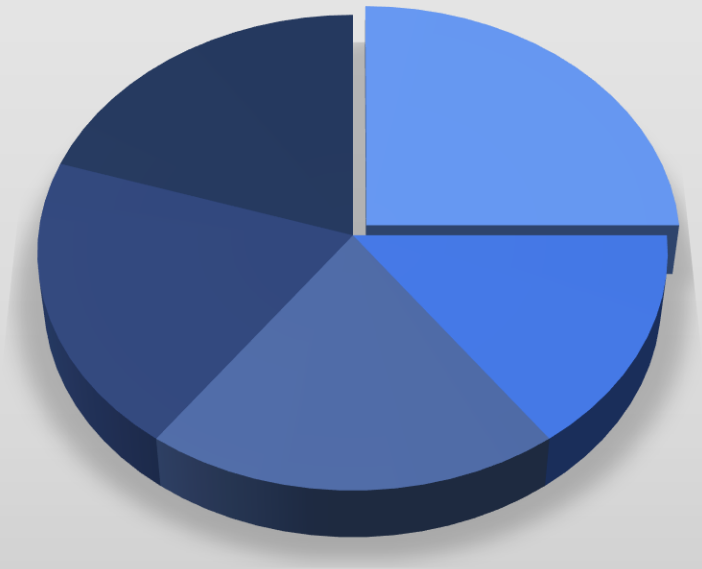
Analyzing data quickly and effectively using graphic visuals.

08 ***DATA WAREHOUSE***

Coordinating data from the five components of intellectual property for more effective data management.

Impact & Benefits

IMPACT & BENEFITS

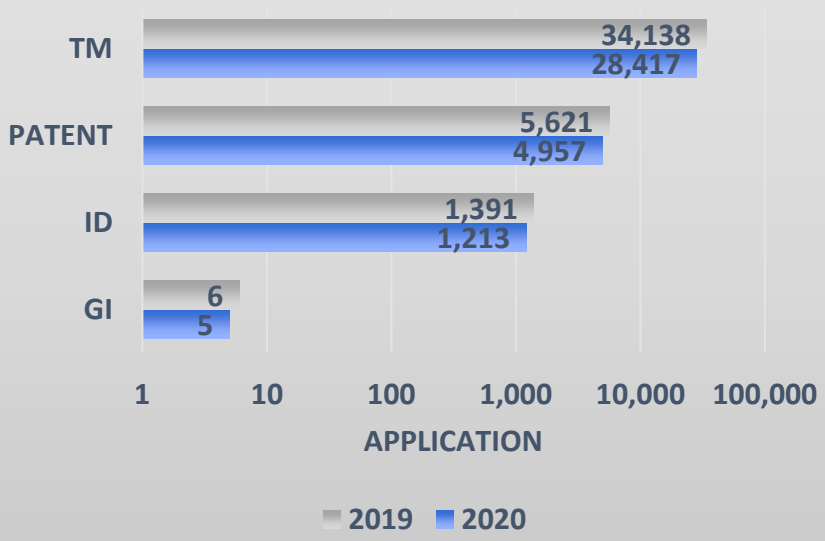


- SPHI can be used and is fully functional when the country is in the Movement Control Order (MCO) phase.
- A comprehensive system for local and international applications via the PCT & Madrid Treaty, has been successfully developed and used
- Increased in intellectual property applications by 9%.
- Increase in the number of intellectual property registrations/granted by 9%
- Improved digitization of documents (searchable PDF) through the rendering function

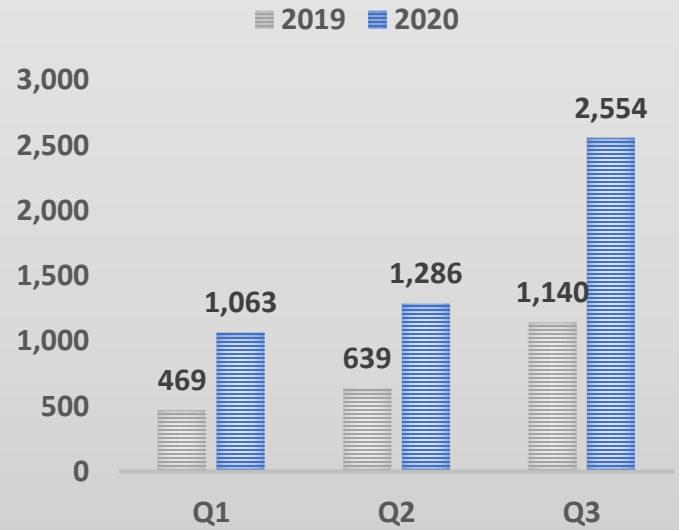
IMPACT & BENEFITS

SPHI can be used and is fully functional when the country is in the Movement Control Order (MCO) phase.

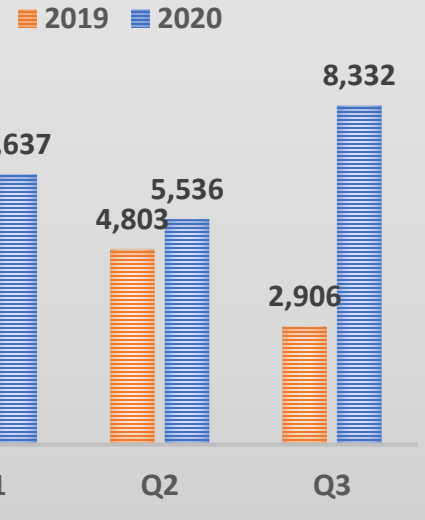
IP Application, 2019 & 2020 (January - September)



***Year 2020 MCO**



Granted patent, 2019 & 2020 (quarterly)



Registered trade mark, 2019 & 2020 (quarterly)

IMPACT & BENEFITS

TARGET

Increase country's competitiveness in the Global Innovation Index (GII)

ACHIVEMENT

GII – (Creative Output) Position improvement.
2021 : Ranked 37/132
2016: Ranked 43/128

The Global Innovation Index 2016

Winning with Global Innovation

Malaysia

Key indicators

Population (millions)	30.3
GDP (US$ billions)	296.2
GDP per capita, PPP$	26,314.8
Income group	Upper-middle income
Region	South East Asia, East Asia, and Oceania

	Score 0–100 or value (hard data)	Rank
Global Innovation Index (out of 128)	**43.4**	**35**
Innovation Output Sub-Index	34.7	39
Innovation Input Sub-Index	52.1	32
Innovation Efficiency Ratio	0.7	59
Global Innovation Index 2015 (out of 141)	46.0	32

1	**Institutions**	**70.9**	**43**
1.1	Political environment	71.0	36
1.1.1	Political stability & safety*	71.3	47
1.1.2	Government effectiveness*	70.7	27
1.2	Regulatory environment	60.9	78
1.2.1	Regulatory quality*	65.5	36
1.2.2	Rule of law*	63.1	39
1.2.3	Cost of redundancy dismissal, salary weeks	29.4	114
1.3	Business environment	80.7	28
1.3.1	Ease of starting a business*	95.3	14
1.3.2	Ease of resolving insolvency*	62.5	42
1.3.3	Ease of paying taxes*	84.3	28
2	**Human capital & research**	**43.3**	**34**
2.1	Education	49.5	59
2.1.1	Expenditure on education, % GDP	6.3	22
2.1.2	Gov't expenditure/pupil, secondary, % GDP/cap	23.2	41
2.1.3	School life expectancy, years	13.4	66
2.1.4	PISA scales in reading, maths, & science	412.7	51
2.1.5	Pupil-teacher ratio, secondary	13.3	51
2.2	Tertiary education	46.6	27
2.2.1	Tertiary enrollment, % gross	38.5	68
2.2.2	Graduates in science & engineering, %	33.3	6
2.2.3	Tertiary inbound mobility, %	3.6	47
2.3	Research & development (R&D)	33.7	35
2.3.1	Researchers, FTE/mn pop.	1,793.5	39
2.3.2	Gross expenditure on R&D, % GDP	1.1	33
2.3.3	Global R&D companies, avg. expend. top 3, mn $US	32.2	4
2.3.4	QS university ranking, average score top 3*	49.1	2
3	**Infrastructure**	**49.2**	**4**
3.1	Information & communication technologies (ICTs)	58.6	
3.1.1	ICT access*	66.1	
3.1.2	ICT use*	47.6	
3.1.3	Government's online service*	67.7	
3.1.4	E-participation*	52.9	
3.2	General infrastructure	46.7	3
3.2.1	Electricity output, kWh/cap	4,655.0	4
3.2.2	Logistics performance*	3.6	24
3.2.3	Gross capital formation, % GDP	26.5	34
3.3	Ecological sustainability	42.4	62
3.3.1	GDP/unit of energy use, 2005 PPP$/kg oil eq	6.7	79
3.3.2	Environmental performance*	74.2	59
3.3.3	ISO 14001 environmental certificates/bn PPP$ GDP	3.0	34
4	**Market sophistication**	**55.0**	**24**
4.1	Credit	39.5	4
4.1.1	Ease of getting credit*	70.0	
4.1.2	Domestic credit to private sector, % GDP	120.6	
4.1.3	Microfinance gross loans, % GDP		
4.2	Investment	52.8	19
4.2.1	Ease of protecting minority investors*	78.3	4
4.2.2	Market capitalization, % GDP	135.8	6
4.2.3	Total value of stocks traded, % GDP	42.4	17
4.2.4	Venture capital deals/bn PPP$ GDP	0.0	48
4.3	Trade, competition, & market scale	72.8	25
4.3.1	Applied tariff rate, weighted mean, %	2.8	60
4.3.2	Intensity of local competition†	73.4	36
4.3.3	Domestic market scale, bn PPP$	769.4	27
5	**Business sophistication**	**41.8**	**29**
5.1	Knowledge workers	47.8	35
5.1.1	Knowledge-intensive employment, %	25.2	51
5.1.2	Firms offering formal training, % firms	50.1	25
5.1.3	GERD performed by business, % of GDP	0.7	27
5.1.4	GERD financed by business, %	60.2	11
5.1.5	Females employed w/advanced degrees, % total	11.4	58
5.2	Innovation linkages	39.0	36
5.2.1	University/industry research collaboration†	72.1	12
5.2.2	State of cluster development†	72.0	5
5.2.3	GERD financed by abroad, %	4.6	68
5.2.4	JV–strategic alliance deals/bn PPP$ GDP	0.0	12
5.2.5	Patent families 2+ offices/bn PPP$ GDP	0.2	48
5.3	Knowledge absorption	38.7	26
5.3.1	Intellectual property payments, % total trade	0.6	48
5.3.2	High-tech imports less re-imports, % total trade	23.1	3
5.3.3	ICT services imports, % total trade	1.2	48
5.3.4	FDI net inflows, % GDP	3.1	58
5.3.5	Research talent, % in business enterprise	10.8	65
6	**Knowledge & technology outputs**	**33.4**	**35**
6.1	Knowledge creation	8.5	69
6.1.1	Patents by origin/bn PPP$ GDP	1.8	52
6.1.2	PCT patents by origin/bn PPP$ GDP	0.3	45
6.1.3	Utility models by origin/bn PPP$ GDP	0.1	51
6.1.4	Scientific & technical articles/bn PPP$ GDP	76	55
6.1.5	Citable documents H index		48
6.2	Knowledge impact	4	40
6.2.1	Growth rate of PPP$ GDP/worker, %	3.3	
6.2.2	New businesses/th pop. 15–64	2.4	
6.2.3	Computer software spending, % GDP	0.4	
6.2.4	ISO 9001 quality certificates/bn PPP$ GDP	14.9	
6.2.5	High- & medium-high-tech manufactures, %	37.4	24
6.3	Knowledge diffusion	46.4	13
6.3.1	Intellectual property receipts, % total trade	0.0	74
6.3.2	High-tech exports less re-exports, % total trade	28.2	1
6.3.3	ICT services exports, % total trade	1.1	76
6.3.4	FDI net outflows, % GDP	4.0	12
7	**Creative outputs**	**35.9**	**43**
7.1	Intangible assets	47.6	47
7.1.1	Trademarks by origin/bn PPP$ GDP	20.0	79
7.1.2	Industrial designs by origin/bn PPP$ GDP	1.1	6
7.1.3	ICTs & business model creation†	77.1	
7.1.4	ICTs & organizational model creation†	76.3	
7.2	Creative goods & services	38	
7.2.1	Cultural & creative services exports, % of total trade		n/a
7.2.2	National feature films/mn pop. 15–69		44
7.2.3	Global ent. & media market/th pop. 15–69		33
7.2.4	Printing & publishing manufactures, %	0.9	69
7.2.5	Creative goods exports, % total trade	9.2	6
7.3	Online creativity	10.2	61
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69	6.8	51
7.3.2	Country-code TLDs/th pop. 15–69	5.3	52
7.3.3	Wikipedia edits/mn pop. 15–69	1,677.1	58
7.3.4	Video uploads on YouTube/pop. 15–69	16.2	57

Global Innovation Index 2021

Malaysia

GII 2021 rank **36**

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP$ (bn)	GDP per capita, PPP$	GII 2020 rank
34	36	Upper middle	SEAO	32.4	900.4	27,287	33

		Score/ Value	Rank
Institutions		**72.3**	**41**
1.1	**Political environment**	76.5	29
1.1.1	Political and operational stability*	83.9	13
1.1.2	Government effectiveness*	72.8	33
1.2	**Regulatory environment**	65.1	65
1.2.1	Regulatory quality*	61.1	41
1.2.2	Rule of law*	62.3	39
1.2.3	Cost of redundancy dismissal	23.9	103
1.3	**Business environment**	75.2	50
1.3.1	Ease of starting a business*	83.3	97
1.3.2	Ease of resolving insolvency*	67.0	37
Human capital and research		**40.6**	**39**
2.1	**Education**	46.0	77
2.1.1	Expenditure on education, % GDP	4.2	63
2.1.2	Government funding/pupil, secondary, % GDP/cap	19.2	53
2.1.3	School life expectancy, years	13.7	73
2.1.4	PISA scales in reading, maths and science	430.9	48
2.1.5	Pupil-teacher ratio, secondary	11.4	43
2.2	**Tertiary education**	49.6	15
2.2.1	Tertiary enrolment, % gross	43.1	69
2.2.2	Graduates in science and engineering, %	39.2	5
2.2.3	Tertiary inbound mobility, %	6.7	37
2.3	**Research and development (R&D)**	26.3	40
2.3.1	Researchers, FTE/mn pop.	2,184.7	37
2.3.2	Gross expenditure on R&D, % GDP	1.0	37
2.3.3	Global corporate R&D investors, top 3, mn US$	0.0	41
2.3.4	QS university ranking, top 3*	58.3	14
Infrastructure		**46.7**	**51**
3.1	**Information and communication technologies (ICTs)**	79.2	35
3.1.1	ICT access*	79.2	36
3.1.2	ICT use*	66.6	55
3.1.3	Government's online service*	85.3	24
3.1.4	E-participation*	85.7	29
3.2	**General infrastructure**	31.3	55
3.2.1	Electricity output, GWh/mn pop.	5,406.7	36
3.2.2	Logistics performance*	54.5	41
3.2.3	Gross capital formation, % GDP	21.6	73
3.3	**Ecological sustainability**	29.6	61
3.3.1	GDP/unit of energy use	10.2	65
3.3.2	Environmental performance*	47.9	62
3.3.3	ISO 14001 environmental certificates/bn PPP$ GDP	2.5	34
Market sophistication		**55.3**	**30**
4.1	**Credit**	50.5	31
4.1.1	Ease of getting credit*	75.0	34
4.1.2	Domestic credit to private sector, % GDP	120.9	17
4.1.3	Microfinance gross loans, % GDP	0.1	56
4.2	**Investment**	35.2	49
4.2.1	Ease of protecting minority investors*	88.0	2
4.2.2	Market capitalization, % GDP	121.5	4
4.2.3	Venture capital investors, deals/bn PPP$ GDP	0.0	
4.2.4	Venture capital recipients, deals/bn PPP$ GDP	0.0	
4.3	**Trade, diversification, and market scale**	80	
4.3.1	Applied tariff rate, weighted avg., %		
4.3.2	Domestic industry diversification		
4.3.3	Domestic market scale, bn PPP$		

		Score/ Value	Rank
Business sophistication		**34.1**	**39**
5.1	**Knowledge workers**	30.2	68
5.1.1	Knowledge-intensive employment, %	27.5	55
5.1.2	Firms offering formal training, %	18.5	82
5.1.3	GERD performed by business, % GDP	0.5	39
5.1.4	GERD financed by business, %	38.2	46
5.1.5	Females employed w/advanced degrees, %	12.5	59
5.2	**Innovation linkages**	28.8	38
5.2.1	University-industry R&D collaboration†	58.8	25
5.2.2	State of cluster development and depth†	65.2	13
5.2.3	GERD financed by abroad, % GDP	0.1	48
5.2.4	Joint venture/strategic alliance deals/bn PPP$ GDP	0.1	25
5.2.5	Patent families/bn PPP$ GDP	0.2	51
5.3	**Knowledge absorption**	43.3	24
5.3.1	Intellectual property payments, % total trade	0.9	42
5.3.2	High-tech imports, % total trade	25.5	4
5.3.3	ICT services imports, % total trade	1.6	49
5.3.4	FDI net inflows, % GDP	2.6	67
5.3.5	Research talent, % in businesses	15.8	59
Knowledge and technology outputs		**33.4**	**31**
6.1	**Knowledge creation**	12.8	69
6.1.1	Patents by origin/bn PPP$ GDP	1.1	61
6.1.2	PCT patents by origin/bn PPP$ GDP	0.3	43
6.1.3	Utility models by origin/bn PPP$ GDP	0.1	53
6.1.4	Scientific & technical articles/bn PPP$ GDP	15.3	56
6.1.5	Citable documents H-index	20.1	41
6.2	**Knowledge impact**	5	30
6.2.1	Growth rate of PPP$ GDP/worker, %		75
6.2.2	New businesses/th pop. 15–64		72
6.2.3	Software spending, % GDP	0.3	
6.2.4	ISO 9001 quality certificates/bn PPP$ GDP	10.7	
6.2.5	High-tech manufacturing, %	44.4	2
6.3	**Knowledge diffusion**	48.9	14
6.3.1	Intellectual property receipts, % total trade	0.1	53
6.3.2	Production and export complexity	67.7	26
6.3.3	High-tech exports, % total trade	38.6	1
6.3.4	ICT services exports, % total trade	1.3	72
Creative outputs		**34.5**	**37**
7.1	**Intangible assets**	40.5	39
7.1.1	Trademarks by origin/bn PPP$ GDP	23.8	86
7.1.2	Global brand value, top 5,000, % GDP	153.2	10
7.1.3	Industrial designs by origin/bn PPP$ GDP	0.6	82
7.1.4	ICTs and organizational model creation†	71.9	17
7.2	**Creative goods and services**	41.1	
7.2.1	Cultural and creative services exports, % total trade	0.3	
7.2.2	National feature films/mn pop. 15–69	3.6	
7.2.3	Entertainment and media market/th pop. 15–69		63
7.2.4	Printing and other media, % manufacturing		69
7.2.5	Creative goods exports, % total trade	1.8	1
7.3	**Online creativity**	15.8	71
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69	6.3	50
7.3.2	Country-code TLDs/th pop. 15–69	4.0	58
7.3.3	Wikipedia edits/mn pop. 15–69	49.7	65
7.3.4	Mobile app creation/bn PPP$ GDP	3.3	64

IMPACT & BENEFITS

INTELLECTUAL PROPERTY PERFORMANCE 2016 – 2022

	APPLICATION			REGISTRATION		
Year	**Malaysia**	**Foreign**	**Total**	**Malaysia**	**Foreign**	**Total**
2016	20,447	27,685	**48,132**	13,700	24,359	**38,059**
2017	21,300	28,888	**50,188**	13,955	25,781	**39,736**
2018	21,643	31,355	**52,998**	14,741	25,687	**40,428**
2019	24,245	31,941	**56,186**	8,788	16,145	**24,933**
2020	20,102	30,792	**50,894**	12,456	27,208	**39,664**
2021	21,606	38,346	**59,952**	15,380	26,957	**42,337**
2022	19,922	39,773	**59,695**	18,193	33,255	**51,445**

- Increased in intellectual property applications by 9%.
- Increase in the number of intellectual property registrations/granted by 9%

BEFORE SPHI

AFTER SPHI

Way Forward

WAY FORWARD

The Adaptation of AI in the IP System

- Automated Prior Art Search
- Patent Drafting Assistance
- Patent Examination and Prosecution
- Enhanced Trademark Classification
- Copyright Infringement Detection

New System

- Improving the current system to adapt to new technologies

Thank You

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