

MINISTRY OF INFORMATION AND COMMUNICATIONS

WHITE BOOK

OF VIET NAM INFORMATION AND
COMMUNICATION TECHNOLOGY **2023**

INFORMATION AND COMMUNICATIONS PUBLISHING HOUSE

The Ministry of Information and Communications respectfully introduces to readers the White Book of Viet Nam Information and Communications Technology 2023. Over the past 13 years (since 2009), White Book of Viet Nam Information and Communications Technology (White Book) have usually been recognized as an important reference to serve the needs of researching data, information, direction and policies of Viet Nam's information and communication technology, thus, receiving high attention and appreciation of domestic and foreign agencies, organizations.

In 2022, the world has experienced a period of unprecedented change, significantly affecting the overall flow of global development. The sequence of events and imprints of the past three years shows the continuation of previous shifting trends, and at the same time implies a sign of a new world situation that is beginning to take shape. The year 2022 started with somewhat positive signals when the Covid-19 pandemic was basically under control in most countries. The world economy entered a recovery phase after the pandemic, despite many potential risks. Mankind seemed to share common perceptions about the importance of a stable and sustainable "common home". However, the Russia-Ukraine war breaking out in February 2022 was a new shock for the world that profoundly affected global security and politics as well as the peace and stability of humanity. In the global commodity market, restoring the supply chain after the Covid-19 pandemic faces countless difficulties, pushing prices up. However, this war opens up opportunities for Viet Nam's economic sector, including the information technology industry when technology powers need to look for new strategic partners.

In a uncertain world, the economy of Viet Nam gradually recovered and made a miraculous breakthrough with GDP in 2022, increasing by 8.12% compared with that of 2021, reaching the peak of the growth rate in the period 2011-2022. Resolution of the 6th Central Committee of the 13th term officially considers digital transformation be a new and breakthrough development method to accelerate and shorten the process of industrialization and modernization of the country and digital technology industry become a foundation industry. In 2022, the Ministry of Information and Communications was officially added with a number of crucial functions and tasks on digital transformation, digital government, digital economy and digital society, digital technology industry and electronic transactions

according to the Decree No. 48/2022/ND-CP by the Government. At the same time, the Prime Minister approved the National Strategy on the development of digital economy and digital society by 2025 with orientations towards 2030, the Postal Development Strategy by 2025 and with orientations towards 2030, the National Strategy on Cyber Security and Safety to proactively respond to the challenges of cyberspace by 2025 with a vision towards 2030. These are the key tasks, missions, and solid guidelines that the Party and the Government have entrusted to the Information and Communications sector, affirming its pioneering role in economic development, using digital technology as the foundation, digital transformation as the driving force, digital technology businesses are the core force to bring Viet Nam's digital economy, digital society, and digital government to breakthrough in the region and the world.

In 2022 the Ministry of Information and Communications has made an institutional breakthrough by amending, completing many important legal documents such as the revised Law on Radio Frequency and the Law on Electricity Transactions, a draft revised Law on Telecommunications and a draft Law on Digital Technology Industry.

Also in 2022, the Ministry of Information and Communications has researched and developed a series of strategies for each field managed by the Ministry, notably the National Strategy for developing the digital economy and digital society to 2025, orientation to 2030, Also in 2022, the Ministry of Information and Communications has researched and developed a series of development strategies for each field managed by the Ministry, notably the National Strategy for developing the digital economy and digital society to 2025, orientation to 2030, the Postal development strategy to 2025 and orientation to 2030, the National Strategy on Cyber Security and Safety to proactively respond to the challenges of cyberspace by 2025 with a vision towards 2030 which have been approved by the Prime Minister. The remaining strategies are in the final stages of completion such as Digital Infrastructure Strategy, Strategy of Digital Technology Industry, Strategy of Press Digital Transformation.

2022 was also the year of "total attack" on digital transformation so that digital technology truly becomes universal and comprehensive. All ministries and localities have issued resolutions and programs on digital transformation. This was the year when Vietnamese digital

technology firms strongly conquered foreign markets, invested in new businesses and performed digital transformation for developed countries such as the US, Japan, Europe and stepped out into the world with position as global tech firms. In 2022, the National Conference on Policy Communication was held to emphasize the role of policy communication, diversifying media and especially changing perceptions about media. The Prime Minister sent a message that communication is a function of government at all levels, and must organize an apparatus and have a budget specifically for communication.

In order to update, provide official information and data in 2022 on all fields managed by the Ministry of Information and Communications namely as Post, Telecommunication, Digital transformation, Information security, industry of information technology, digital technology, Press and Communications, ICT human resources development, the Ministry compiled and published the 2023 White Book on ICT. Compared with previous years, the 2023 White Book updated a number of new criteria in the sectors of telecommunications, digital transformation, press - communications and added in-depth data analysis in specialized sectors of the Ministry.

The Ministry of Information and Communications would like to express its gratitude to ministries, sectors, provinces and related agencies, units, associations, enterprises and training institutions in information and communication technology across the country, especially the General Statistics Office, the Foreign Investment Agency and the Business Registration Management Agency under the Ministry of Planning and Investment, the General Department of Customs and General Department of Taxation under the Ministry of Finance, the General Department of Vocational Training under the Ministry of Labour – Invalids and Social Affairs, the Ministry of Education and Training and organizations and individuals that have supported, provided information, data and contributed to the development of the 2023 White Book.

The Ministry of Information and Communications would also like to thank readers for their comments so that the While Book will be more and more improved in the next publications.

Best regards!

EDITORIAL BOARD

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GENERAL INFORMATION

Country: **SOCIALIST REPUBLIC OF VIET NAM**

Area of land: 331,344.8 km²

Population by December 31st 2022: 99,474,417 people

GDP of 2022: USD 410.216 billion

GDP per capita of 2022: USD 4,124

GDP growth rate in 2022: 8.12%

Export turnover of goods and services in 2022: USD 371,304.28 million

Import turnover of goods and services in 2022: USD 358,901.9 million

Inter-bank exchange rate of USD vs VND: VND 22,612

by the State Bank of Viet Nam on December 31st 2022.

(Source: General Statistics Office and the State Bank of Viet Nam)



AN OVERVIEW OF VIET NAM ICT IN 2022



2022 was the second year Vietnam was implementing the Resolution of the 13th National Congress of the Communist Party of Viet Nam. 2022 was also an important year to create a foundation to fulfill the goals set by the Resolution of the 13th National Congress of the Communist Party of Viet Nam and Resolutions of party committees at all levels from central to provincial. In that year, Viet Nam's economy gradually recovered. Policies to support, restore and develop socio-economy, stabilize macro-economy and balance the economy that were drastically and effectively directed by the Party and the Government contributed to the successful and comprehensive implementation of the goals and tasks of "focusing on disease prevention and control on the one hand and promoting socio-economic recovery and development, building an independent and autonomous economy associated with proactive, deep and effective international integration on the other".

Along with the former achievements, in 2022, the Information and Communications sector achieved more significant results. Led by the Information and Communications sector, the national digital transformation was built and deployed with the dual goals of developing digital government, digital economy, digital society, and forming strong Vietnamese digital technology firms to reach out to the world. Vietnamese digital technology firms continued to affirm their pioneering role in research, development, innovation, and mastering cutting-edge technologies. The development of the digital economy and digital society were accelerated with more people and businesses accessing the digital environment using Vietnamese digital platforms. Activities of the Government and the deployment of digital government all aimed at the benefits of people and businesses. The field of press and communications continued to affirm its important role in truthfully reflecting the mainstream of Vietnamese society, creating consensus, spreading positive energy, creating social trust and spiritual strength for Viet Nam to reach forward. The media and press contributed to conveying the vivid and multi-dimensional information to the world about the country and the people of Viet Nam which are stable, friendly, dynamic and rich in potential development.

The Information and Communications sector achieved many positive results both internationally and domestically.

Viet Nam's rankings by international organizations

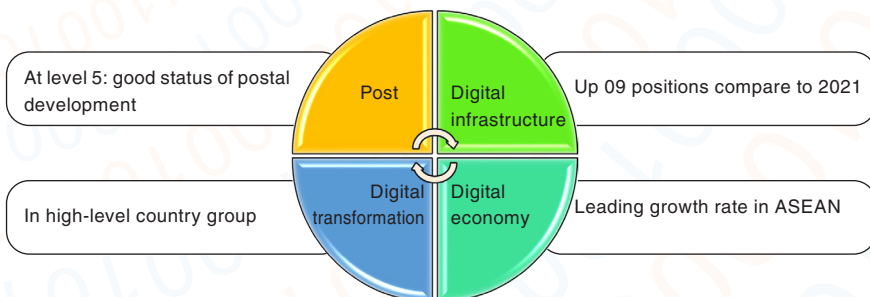


Figure 1: Viet Nam's rankings on the development of information and communications by international organizations in 2022

Postal ranking: According to the assessment of the Universal Postal Union (UPU), the Integrated Index for Postal Development (ZIPD) of Viet Nam in 2022 represented 46.5 points in the level 5 group and among the group of countries which have well-developed in postal activities. In Southeast Asia, Viet Nam maintained 4th position for 5 consecutive years (2018-2022).

Digital Infrastructure ranking: According to data published in 2022 by the World Intellectual Property Organization (WIPO), the Information Technology Infrastructure index of Viet Nam ranked 70th, up 9 levels compared with that of 2021, exceeding the goal to increase at least 05 levels according to the Resolution No. 02 of the Government of Viet Nam⁽¹⁾.

Digital transformation ranking: According to the assessment of the United Nations (UN), Viet Nam's e-Government Development Index represented 0.6787 which belonged to the group of high-level countries, an increase compared with 0.6667 of 2020, which ranked the 86th among 193 countries, higher than the world point average of 0.6102, the Asian point average of 0.66493 and the Southeast Asia region point average of 0.6405.

Digital economy ranking: According to the Southeast Asia Internet economy report in 2022 (e-Conomy SEA 2022), the digital economic growth rate of Viet Nam in 2022 amounted to 28%, ranking the first in Southeast Asia⁽²⁾.

Outstanding results

With the motto of considering the strategy of building and perfecting the mechanism as one of the key tasks and fundamental perceptions to create a legal framework to stimulate information, liberate, mobilize, and use effectively all the resources for rapid and sustainable socio-economic development, in 2022, the Ministry of Information and Communications has built and submitted to the National Assembly and the Government several crucial legal documents related to the orientations of the industry such as the National Strategy on Development of Digital Economy and Digital Society by 2025 with orientations towards 2030 (Decision No. 411/QĐ-TTg dated March 31st, 2022); the Postal Development strategy by 2025 with orientations towards 2030 (Decision No. 654/QĐ-TTg dated May 30th, 2022); the National Strategy on Cyber Security and Safety to proactively respond to the challenges of cyberspace by 2025 with a vision towards 2030 (Decision No. 964/QĐ-TTg dated August 10th, 2022); Law on amending and supplementing some articles of the Law on Radio Frequency (Law No. 09/2022/QH15 dated November 09th, 2022) (Figure 2).

⁽¹⁾ The Government's Resolution No. 02/NQ-CP dated January 10th, 2022 on major missions and solutions to enhance the business environment and the competitiveness capacity of the country in 2022.

⁽²⁾ According the E-conomy ASEAN 2022 report published by Google, Bain (based in the US) and Temasek (based in Singapore)

YEAR 2022

Accelerate digital transformation in a people-centered, inclusive and nationwide direction

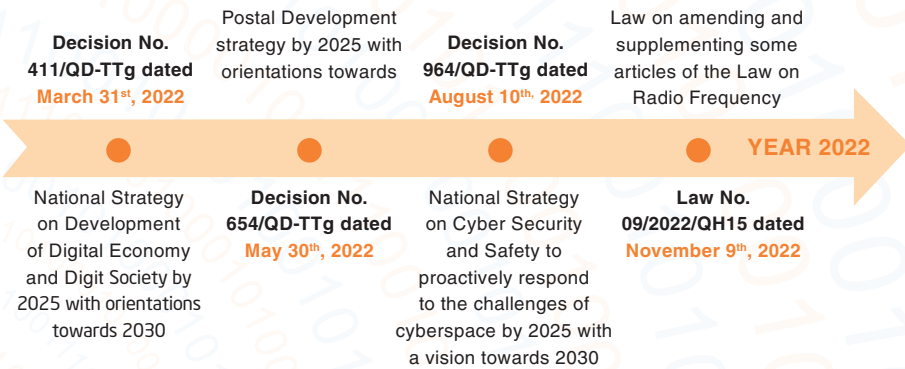


Figure 2: Several crucial legal documents on information and communications issued in 2022

The serious implementation of the above orientation documents has contributed to the positive results of the ICT field in the following areas:

Post: Postal activities have had a strong shift in cyberspace with the explosion of e-commerce, contributing to promoting the agricultural and rural digital economy. In 2022, the total postal service revenue reached 53,900 billion VND and total postal output numbered 1,863 million postal items, maintaining a growth rate of 18% in revenue and 22% in output. The postal market had about 655 licensed postal operators with 23,498 postal outlets and an average service radius of 2.89 km per outlet.

Although facing many difficulties and challenges due to the global economic downturn, the postal sector still had major opportunities for development. With the advantage of a widespread infrastructure network close to households and people, the postal service has become a platform for new e-commerce, logistics and social services. Postal activities have had a strong shift in cyberspace with the explosion of e-commerce, contributing to promoting the agricultural and rural digital economy.

Telecommunication: In 2022, telecommunication infrastructure has made strong changes, gradually becoming digital infrastructure, meeting the role of important economic and technical infrastructure of digital government, digital economy, and digital society. 40 provinces/cities have deployed 5G trials. 4G network infrastructure covered 99.8% of the population. The specialized data transmission network was connected to 100% of the commune level. Viet Nam was in the group of 10 countries with the highest rate of IPv6 deployment globally.

In addition, the telecommunications industry also actively implemented public utility tasks assigned by the government. The Ministry of Information and Communications has advised the Prime Minister to issue Decision No. 2269/QĐ-TTg approving the National program on provision of public telecommunication services by 2025. This was a critical guideline for the Ministry of Information and Communications to fulfill the goals of universalizing telecommunication services in remote areas, border areas, islands, and areas with particularly difficult socio-economic conditions, thus contributing to the achievement of goals on economic and social development, national digital transformation and ensuring national defense and security as well.

Digital transformation: 2022 was considered the year of promoting digital transformation in a people-centered, inclusive and nationwide direction, so the orientation throughout 2022 was to bring the activities of people and businesses to digital environment through Vietnamese popular digital platforms, helping people and businesses directly enjoy the convenience and benefits of digital transformation.

2022 was also the first year to celebrate the National Digital Transformation Day. Many ministries, branches and localities organized activities to respond to the National Digital Transformation Day. A Digital Consumption Month launched by the Ministry of Information and Communications received an enthusiastic response from digital technology businesses, providing many incentives for people to consume digital products and services as well as contributing to raising, forming digital skills for people, promoting the development of digital economy and digital society.

In 2022, the Ministry of Information and Communications implemented several solutions to promote online public services, innovated the way of building plans, assigning targets attached to the responsibility of the heads, and prioritized the time for processing online public services and reducing online public service fees. In 2022, the rate of qualified public services provided online at level 4 represented 97.4% whilst the rate of online public services generating online records reached 80.05%, exceeding the Government's target of 80% (an increase of 2.2 times compared with that of 2021).

Information security continued to be a bright spot in the overall picture of the information and communications industry: Revenue in the field of network information security in 2022 reached VND 3,319 billion, an increase of 27% compared to 2021 (VND 2,613 billion) and increased nearly 2.8 times compared to 2018 (VND 1,200 billion). Successfully integrated digital features into provincial public service portals so that people and businesses could perform public services at a comprehensive level, thereby improving work efficiency, increasing openness and transparency in management and

administration, increasing convenience and improving people's trust when participating in public services. The number of network information security personnel graduating in 2022 was 2,000 people, an increase of 2.5 times compared to 2018 (794 people). That affirms the inseparable role of network safety and security in the national digital transformation process.

The information technology, digital technology industry maintained to make strong progress. Hardware and electronics export turnover exceeded USD 100 billion. Viet Nam continued to be the destination for foreign direct investment (FDI) in the information technology industry with 260 investment projects, an increase of 63.5% and a total investment capital of USD 675 million, an increase of 54.8% compared to 2021. Large corporations increased investment in research and development (R&D) in Viet Nam: In 2022, investment of FDI enterprises in Viet Nam has shifted from investing in manufacturing and outsourcing to investing in R&D through establishing R&D centers in Viet Nam (e.g. Samsung Research and Development Center).

The number of Vietnamese digital technology enterprises maintained a steady increase with 45,500 enterprises in operation in the information technology industry an increase of 3% compared with that of 2021. The revenue of information technology industry reached USD 145.2 billion, an increase of 4.1% compared with that of 2021. The development of the digital technology industry towards mastering technology, products, and services has gradually brought Make in Viet Nam technology into all aspects of society and life.

Press and communications: With the mission of "creating social consensus and trust, arousing the desire for mighty and prosperous Viet Nam", press and communications work kept on affirming its important role in protecting the ideological foundation of the Communist Party of Viet Nam and promote the good cultural value of the country; proactively disputing and refuting against fake news and toxic information and "cleaning up" cyberspace; creating social consensus while spreading positive energy, building social trust and creating aspirations for a prosperous and happy Viet Nam.

Along with the nationwide trend of digital transformation, press agencies have been "self-transformed" from traditional journalism to multimedia-converged journalism and developing journalism in the digital space. Also, they have applied new technologies to measure the effectiveness in directing and managing the press, strengthening policy communication, developing press and communications in accordance with the orientation of the 13th National Congress of the Communist Party of Viet Nam on "building professional, humanistic and modern press".

The press planning by 2025 were issued by Decision No. 362/QĐ-TTg dated April 03rd, 2019 of the Prime Minister and the planning for the network of press, radio, television, and electronic information facilities in the period 2021-2030 with a vision to 2050 were revised and submitted to the Prime Minister. The number of press agencies after the arrangement reduced to 808 with 138 newspaper agencies, 356 journal agencies, 314 scientific journal agencies whilst its a revenue reached VND 14,500 billion.

In 2022, the radio and television sector made great progress in advising and promulgating the policies in management of cross-border pay television service⁽³⁾, contributing to the growth of pay television service revenue where the revenue from Internet radio and television services (OTT TV) grew dramatically, reaching more than VND 1,300 billion, double that of 2021. At the same time, this sector continued to strengthen the dispute against and tighten the management of cross-border platforms, forcing cross-border platforms to strictly comply with Vietnamese laws on content management, advertising, and tax payment.

In addition to traditional propaganda methods, the external information sector incorporated communication methods on digital platforms, developed the portal Viet Nam.vn to become a national external information platform aiming at bringing the image of the country, people, and culture of Vietnam to friends around the world. The National Book Program, which was approved by the Government, marked the first time of a major change in reading culture, accelerating progress, humanity and creativity, substantially contributing to the sustainable cultural development of the whole society.

Over the past year, the Information and Communications sector has always proactively created new challenges for itself to rise from there, and also been ready to implement the tasks assigned by the Government and the Prime Minister. Given that spirit, the Information and Communications sector would fulfill its mission of leading national digital transformation, its intense determination to promote the building of a digital government, digital economy, digital society and digital communications for an aspiration of an advanced and prosperous Viet Nam./.

⁽³⁾ According to the Government's Decree No. 71/2022/ND-CP on amending and supplementing the Government's Decree No. 06/2016/ND-CP on management, provision and use of broadcasting services where several new regulations on management of broadcasting services especially including cross-border OTT services were provided.



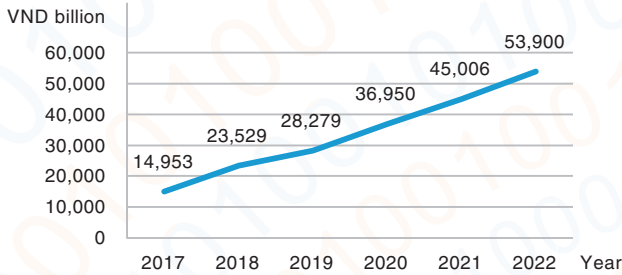
POST

ON May 30th 2022, the Prime Minister issued Decision No. 654/QĐ-TTg approving the Postal Development Strategy to 2025 with orientations towards 2030. This was the first national-level strategy of the postal sector with the orientation and action plan to turn the sector to become an essential infrastructure of the nation and digital economy, especially of e-commerce and to expand the ecosystem system, operating space for postal services contributing to the fostering of digital government and digital society. The promulgation of the strategy affirmed the Prime Minister's recognition and appreciation of the role and importance of the postal sector for economic and social development in the coming period.

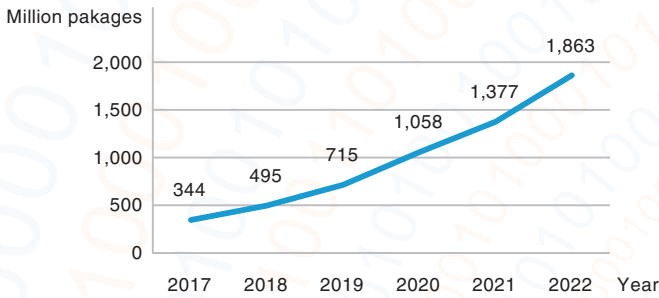
In 2022, the postal sector continued to maintain its role as an essential infrastructure of the country and the digital economy, with a network of around 23,500 service outlets nationwide and more than 170,000 employees. This sector has been a connecting bridge that helped deliver letters, packages, parcels, and goods to all people, thus ensuring the continuity of the supply chain and social security.

In 2022, the postal service maintained a growth rate of 19.8% in its revenue and 35.3% in its output, a very high growth rate in the period 2017-2022. The revenue of the postal services recorded an average increase by 29% per year whilst the number of postal items rocketed in average of by 40% per year. At the same time, this sector created jobs for more than 170,000 workers (including freelance-workers like drivers of delivery companies), contributing over VND 4,335 billion to the State Budget.

POSTAL SERVICE REVENUE



NUMBER OF PAKAGES AND PARCELS



With over 1.3 billion packages and parcels from e-commerce platforms delivered, the postal sector has truly become an essential infrastructure of the country and the digital economy especially e-commerce. Postal operators has actively supported households with agricultural produces on e-commerce platforms, contributing to the development of the agricultural and rural digital economy.

The postal sector also played an important role in helping to awaken the revolutionary tradition and patriotism of each person over the country. In 2022, with the image of small postage stamps, the postal sector honored the national major historical figures and events through the issuance of postage stamp collections, especially collections named "50th ceremony on protection of Quang Tri Citadel (1972-2022)", "Celebrating the 100th birthday of the former Prime Minister Vo Van Kiet (1922-2022)".

1. NUMBER OF POSTAL OPERATORS

Unit: company

No.	Indicator	2018	2019	2020	2021	2022
1.1	Number of licensed and certified postal operators	410	468	573	728	655
1.1.1	Number of licensed postal operators	350	410	500	596	557
1.1.2	Number of certified postal operators	367	434	521	668	632
1.2	Number of postal operators by economical type					
1.2.1	Number of state - owned postal operators	5	5	5	5	5
1.2.2	Number of FDI postal operators	16	25	27	34	34
1.2.3	Number of non state - owned postal operators (excluding FDI postal operators)	389	438	541	689	616

Source: MIC

2. POSTAL OUTLET NETWORK

Unit: outlet

No.	Indicator	2018	2019	2020	2021	2022
2.1	Total number of outlets of postal operators	18,357	18,800	21,600	27,600	23,498
2.2	Number of public postal outlets	13,182	12,600	12,600	13,055	13,528

Source: MIC

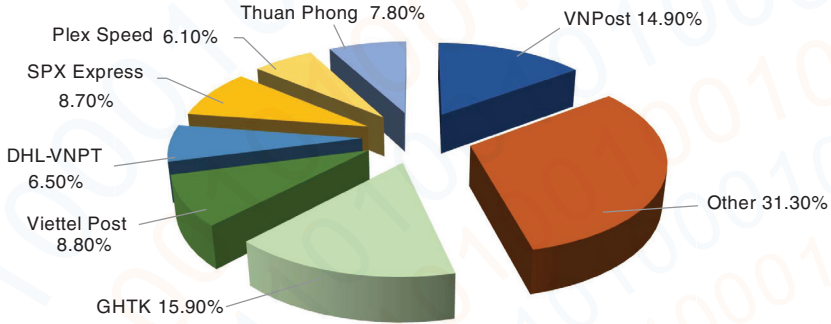
3. POSTAL MARKET

TT	Indicator	Unit	2018	2019	2020	2021	2022
3.1	Total revenue	VND billion	38,600	48,418	56,000	66,000	90,730
3.2	Revenue of postal service	VND billion	23,529	28,279	36,950	45,006	53,900
3.2.1	Revenue of letter service	VND billion	2,574	1,853	2,274	3,055	5,881
3.2.2	Revenue of packet, parcel services	VND billion	18,271	23,915	32,259	40,420	47,435
3.2.3	Other revenue	VND billion	2,684	2,511	2,417	1,531	584
3.3	Number of postal items	Million Item	495.2	714.9	1,058	1,377	1,863
3.3.1	Number of letter items	Million Item	140.3	138.0	205.6	215.3	277
3.3.2	Number of packet, parcel items	Million Item	354.9	576.9	852.4	1,161.7	1,586

Source: MIC

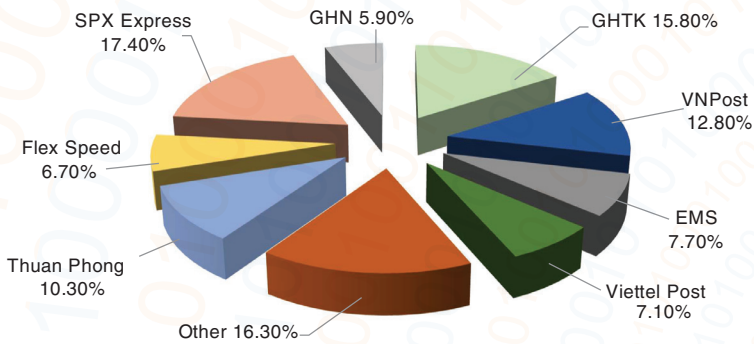
4. MARKET SHARE (BY REVENUE AND VOLUME) OF POSTAL OPERATORS IN 2022

4.1 Market share by revenue



Source: MIC

4.2 Market share by volume



Source: MIC

5. POSTAL WORKFORCE

Unit: person

Indicator	2018	2019	2020	2021	2022
Total number of staff	63,651	74,500	85,700	105,000	94,150

Source: MIC

6. ACCESS TO PUBLIC POSTAL NETWORK

No.	Indicator	Unit	2018	2019	2020	2021	2022
6.1	Average radius per public postal outlet	Km	2.92	2.92	2.92	1.95	2.89
6.2	Average number of inhabitants served by a public postal outlet	Person	7,105	7,698	7,698	7,545	7,352
6.3	Postal item volume served administrative procedure reforms	Million item	12.2	14.5	21.07	51.02	33.24

Source: MIC

7. VIET NAM IN UPU RANKING BY INTEGRATED INDEX FOR POSTAL DEVELOPMENT (2IPD)

No.	Ranking	2022	2023
1	Level of postal development of Viet Nam among global countries	Group 5	Group 6
2	Level of postal development of Viet Nam among Asian - Pacific countries	Group 3	Group 4
3	Level of postal development of Viet Nam among ASEAN countries	- Singapore: Group 8 - Malaysia, Thailand: Group 7 - Viet Nam, Indonesia: Group 5 - Other countries: Group 4 to 1	- Singapore: Group 9 - Malaysia, Thailand: Group 7 - Viet Nam, Indonesia: Group 6 - Other countries: Group 4 to 2



TELECOMMUNICATION

Total revenue of telecommunication services in 2022 reached VND 138.69 trillion, an increase by 2.12% compared with that of 2021. The telecommunication infrastructure showed a steady growth compared with that of 2021 where the 5G network was piloted in 40 provinces/cities and 4G network infrastructure covered 99.8% over the population. The mobile broadband subscribers numbered 82.79 million, up 12.6% and the fixed broadband subscriptions reached 21.24 million subscribers, up 10.1%.

In 2022, the Ministry of Information and Communications deployed a number of solutions to resolve the situation of unauthorized SIM which was one of the reasons bad actors abused them to make spam or scam calls that have irritated the society, people, and customers.

In addition, the Ministry of Information and Communications directed operators to mobilize their resources and prioritize to cover mobile phone service to hamlets that already had electricity (including also extremely difficult hamlets). Nationwide, 99.73% of villages had coverage phone services (an increase of 1.9% compared to 2021). The remaining 266 villages that have not been covered yet due to not having electricity, being sparsely populated or situated in difficult terrain would be covered in the near future.

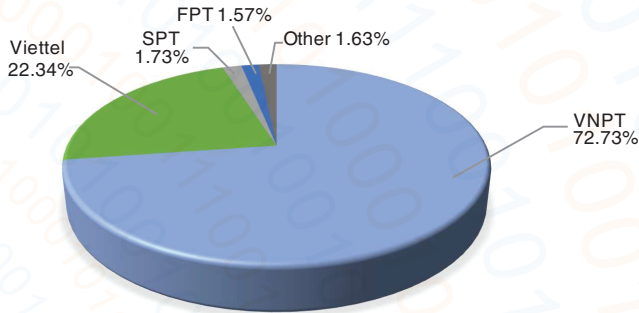
In 2022, the telecommunication Infrastructure was deployed universally to villages and its quality was improved significantly. In particular, the fixed broadband network speed of Viet Nam reached 79.82 Mbps, ranking 47th and the broadband speed mobile reached 36.73 Mbps ranked 52nd among all countries in the world by ITU. According to WIPO's⁽⁴⁾ announcement of the Global Innovation Index (GII), in 2022, the ICT infrastructure Index of Viet Nam was ranked 70 among 132 surveyed countries.

⁽⁴⁾ http://www.wipo.int/global_innovation_index/en

1. DATA AND MARKET SHARE BY SUBSCRIPTION OF TELECOMS SERVICE PROVIDER

1.1 Terrestrial fixed-line telephone subscription

1.1.1 Market share by subscription of terrestrial fixed-line telephone providers



Source: MIC

1.1.2 Number of terrestrial fixed-line telephone subscription

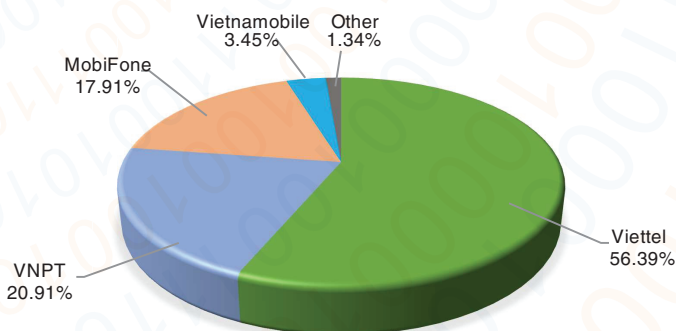
Unit: subscriber

No.	Indicator	2018	2019	2020	2021	2022
1.1.2.1	Number of fixed-line telephone subscribers	4,296,301	3,658,005	3,205,775	3,122,490	2,414,758
1.1.2.2	Number of fixed-line telephone subscribers per 100 inhabitants	4.51	3.79	3.29	3.17	2.43

Source: MIC

1.2 Terrestrial mobile subscription

1.2.1 Market share by subscription of terrestrial mobile providers



Source: MIC

1.2.2 Number of terrestrial mobile subscription

Unit: subscriber

No.	Indicator	2018	2019	2020	2021	2022
1.2.2.1	Number of mobile subscribers generated traffic (mobile and data card)	136,088,885	132,429,054	129,454,026	128,185,862	130,735,872
1.2.2.2	Number of mobile subscribers generated traffic per 100 inhabitants	142.73	137.25	132.66	130.13	131.43
1.2.2.3	Number of mobile subscribers (*)	130,385,371	126,150,541	123,626,427	122,661,136	127,330,271
	Number of active mobile subscribers generated only voice traffic, message	75,369,742	63,573,065	53,300,290	48,338,564	43,247,079
	Number of active mobile subscribers generated data traffic	55,015,629	62,577,476	70,326,137	74,322,572	84,083,192
1.2.2.4	Number of mobile subscribers per 100 inhabitants	136.74	130.75	126.69	124.52	128.00

Note: "*" is the statistics of the number of active mobile phone subscribers who have generated traffic within 01 month before December 31st, 2022. If the number of mobile phone subscribers is counted according to the guidelines of the ITU (within 3 months before December 31st, 2022), the number of mobile phone subscribers is 137,412,198.

Source: MIC

1.3 Satellite mobile cellular subscription

Unit: subscriber

Indicator	2018	2019	2020	2021	2022
Number of satellite mobile cellular subscription	4,653	4,645	13,734	21,202	25,768

Source: MIC

1.4 Maritime mobile cellular subscription

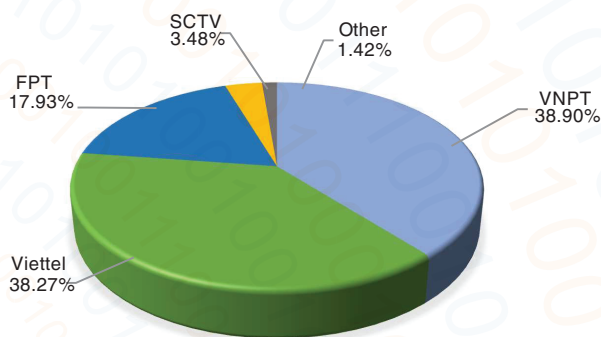
Unit: subscribers

Indicator	2018	2019	2020	2021	2022
Number of maritime mobile cellular subscription	16,932	17,301	17,750	16,306	16,635

Source: MIC

1.5 Terrestrial fixed (wired) - broadband

1.5.1 Market share by subscription of terrestrial fixed broadband service providers



Source: MIC

1.5.2 Number of terrestrial fixed broadband subscription

Unit: subscribers

No.	Indicator	2018	2019	2020	2021	2022
1.5.2.1	Number of fixed broadband subscription	12,994,451	14,802,372	16,699,249	19,295,438	21,244,847
1.5.2.2	Number of fixed broadband subscription by access methods					
	Number of Internet subscribers via xDSL fixed broadband	259,261	123,325	61,083	48,991	46,482
	Internet access subscribers fixed broadband via leased line	11,763	24,217	18,705	20,639	22,223
	Subscriber access to the Internet via fixed broadband CATV	829,474	877,373	858,346	793,951	760,275
	Internet access subscribers fixed broadband through FTTH	11,893,980	13,777,457	15,760,765	18,431,857	20,415,867

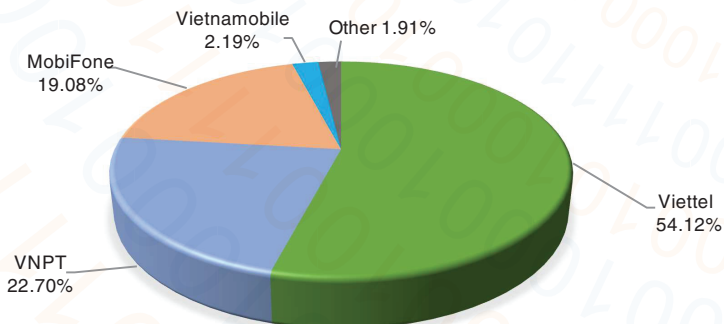
No.	Indicator	2018	2019	2020	2021	2022
1.5.2.3	Number of fixed broadband subscription by access speed					
	Number of Internet access subscribers with fixed broadband 256 Kbps to 2 Mbps	11,783	18,211	22,066	9,153	10,274
	Number of Internet access subscribers with fixed broadband from 2 Mbps to less than 10 Mbps	450,299	192,246	65,205	69,543	31,153
	Number of subscribers to fixed broadband from 10 Mbps to less than 30 Mbps	-	-	-	67,963	51,482
	Number of subscribers to fixed broadband from 30 Mbps to less than 100 Mbps	-	-	-	15,688,452	15,025,478
	Number of subscribers to fixed broadband with speeds of 100 Mbps or more				3,460,327	6,126,460
1.5.2.4	Internet access subscribers with fixed broadband per 100 inhabitants	13.63	15.34	17.11	19.59	21.36

Note: "-" no data

Source: MIC

1.6 Terrestrial mobile broadband

1.6.1 Market share by subscription of terrestrial mobile broadband service providers



Source: MIC

1.6.2 Number of terrestrial mobile broadband subscription

Unit: subscriber

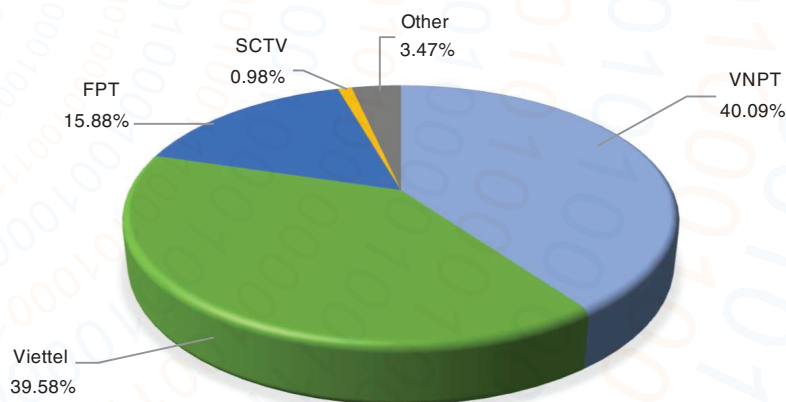
No.	Indicator	2018	2019	2020	2021	2022
1.6.2.1	Number of terrestrial mobile broadband subscription (*)	52,819,001	60,987,946	69,717,041	73,497,937	82,786,677
1.6.2.2	Number of terrestrial mobile broadband subscription per 100 inhabitants	55.39	63.21	71.44	74.61	83.22

Note: "*" is the statistical number of active mobile broadband subscribers that have generated traffic within one month before December 31st, 2022. If the number of mobile broadband subscribers is counted according to ITU's guidelines (within 3 months before December 31st, 2022), the number of mobile broadband subscribers is 95,178,877 subscribers.

Source: MIC

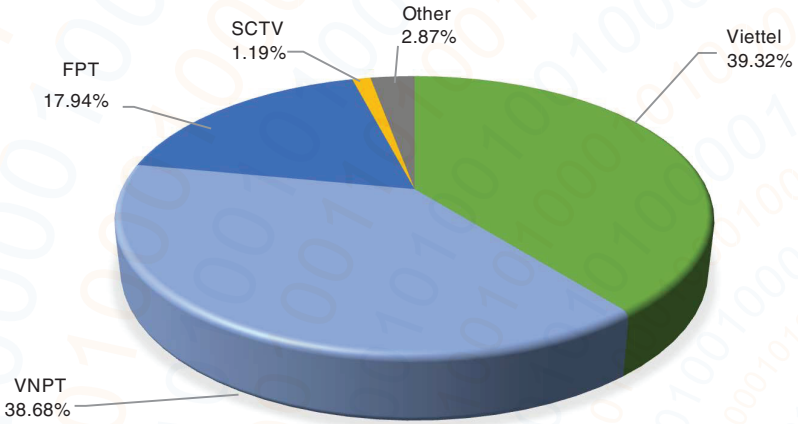
2. MARKET SHARE BY REVENUE OF TELECOMMUNICATIONS SERVICE PROVIDERS

2.1 Market share (by revenue) of terrestrial fixed-line telephone service providers



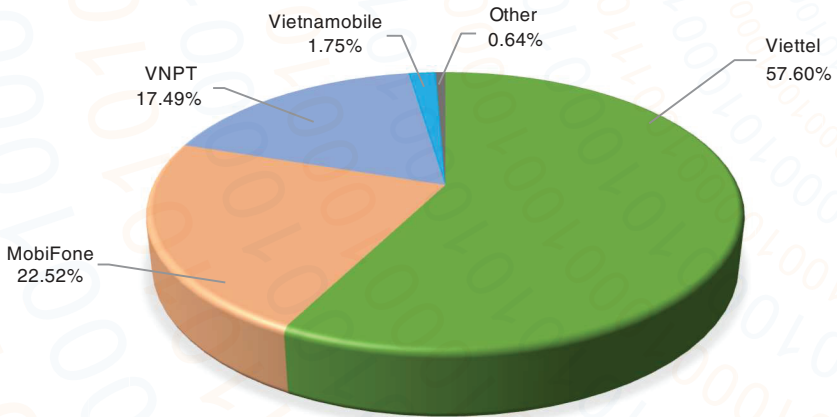
Source: MIC

2.2 Market share (by revenue) of terrestrial broadband service providers



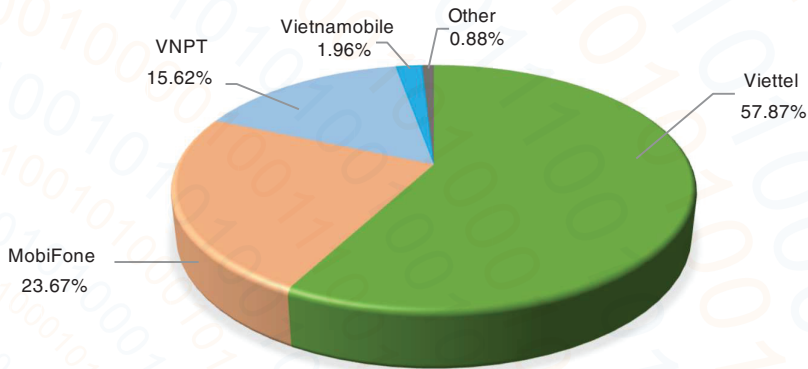
Source: MIC

2.3 Market share (by revenue) of terrestrial mobile service providers



Source: MIC

2.4 Market share (by revenue) of terrestrial mobile broadband service providers



Source: MIC

2.5 Revenue of telecommunication services

Unit: USD million

No.	Indicator	2018	2019	2020	2021	2022
2.5.1	Total consolidated revenue of telecommunications enterprises	-	-	-	12,097.15	11,280.48
2.5.2	Total revenue of telecommunications services	5,673.62	5,608.75	5,544.53	5,998.19	5,873.69
2.5.3	Terrestrial fixed telecommunication services revenue	1,474.89	1,593.63	1,557.47	1,730.40	1,774.99
	Fixed broadband service revenue	1,046.97	1,154.96	1,236.92	1,404.37	1,470.70
2.5.4	Terrestrial mobile cellular telecommunication services revenue	4,195.60	3,991.63	3,936.48	4,241.21	3,942.26
	Mobile broadband service revenue	-	1,163.29	1,393.68	1,651.87	1,859.36
2.5.5	Satellite mobile cellular telecommunication services revenue	3.02	3.15	4.47	4.96	6.96
2.5.6	Maritime telecommunications services revenue	0.10	0.08	0.06	0.09	0.07

No.	Indicator	2018	2019	2020	2021	2022
2.5.7	Revenue from data center services of telecommunications enterprises	-	-	-	66.33	81.08
2.5.8	Revenue from cloud computing services of telecommunications businesses	-	-	-	45.82	74.21
2.5.9	Total amount paid to the state budget	-	-	-	1,947.96	1,942.88

Note: "-" no data

Source: MIC

3. NUMBER OF TELECOMS OPERATOR

Unit: operator

No.	Indicator	2018	2019	2020	2021	2022
3.1	Number of current terrestrial fixed services operators	64	66	69	70	64
	Number of current fixed (wired) - broadband Internet access services operators	58	61	64	62	58
3.2	Number of current satellite fixed services operators	3	3	3	4	4
3.3	Number of current terrestrial mobile cellular services operators	6	6	7	8	9
3.4	Number of current satellite mobile cellular services operators	3	4	6	6	6
3.5	Number of current coast mobile cellular services operator	1	1	1	1	1

Source: MIC

4. INTERNET

No.	Indicator	Unit	2018	2019	2020	2021	2022
4.1	The Internet validation user	%	70	68.7	70.23	74.21	78.6
4.2	Percentage of households with Internet access	%	47	71.3	74.8	80.99	87.8
4.3	Total bandwidth international Internet connectivity	Mbps	7,796,531	13,632,829	13,920,829	14,013,695	13,745,111
4.4	Total bandwidth international Internet connection/Internet users	Bit/s/user	122,458	215,671	224,746	201,026	184,338
4.5	Number of domain name “.vn” registered	Domain	472,896	503,167	512,245	547,422	574,241
4.6	Number of Vietnamese domain names registered	Domain	7,006	6,176	5,086	6,900	16,043
4.7	Number of IPv4 Internet addresses has granted	Address	15,961,600	16,010,000	16,065,792	16,131,840	16,211,968
4.8	Number of IPv6 Internet address conversion unit/64 issued	Million addresses	227,639.03	374,000	541,175.58	867,594.92	1,052,281.80
4.9	Internet address membership	Enterprise	377	437	547	662	810
4.10	Number of .vn registered domain names	Enterprise	13	14	15	15	15
4.11	Number of registered international domain names in Viet Nam	Enterprise	49	49	51	52	49

Source: MIC

5. PERCENTAGE OF TOTAL POPULATION COVERED BY A MOBILE NETWORK

Unit: %

No.	Indicator	Unit	2018	2019	2020	2021	2022
5.1	Percentage of total population covered by a mobile network 2G, 3G, 4G	%	99.7	99.8	99.8	99.8	99.9
5.2	Percentage of total population covered by a mobile network 3G	%	99.7	99.8	99.8	99.8	99.85
5.3	Percentage of total population covered by a mobile network 4G	%	95.3	97	99.5	99.7	99.8

Source: MIC

6. TELECOMMUNICATIONS WORKFORCE

Unit: person

Indicator	2018	2019	2020	2021	2022
Number of employees in telecoms sector	77,205	79,140	79,943	80,783	79,681

Source: MIC

7. TELECOMMUNICATIONS INFRASTRUCTURE INDEX

Index	2018	2020	2022
Telecommunications Infrastructure Ranking Index (TII) - belonging to the e-Government Development Index (EGDI)	100	69	74

Source: UN



DIGITAL TRANSFORMATION

2020 was considered the year of initializing awareness of digital transformation in Viet Nam; 2021 was the year to start developing and experiencing digital transformation in the context of the Covid-19 pandemic and 2022 was the year to promote digital transformation which would be people-centered, inclusive and nation-wide.

The orientations during the year 2022 was to promote activities of people and businesses in the digital environment through the universal use of Vietnamese digital platforms, helping people and businesses directly enjoy benefits as well as convenience of digital transformation. Therefore, the theme of 2022 was *"Bringing the activities of people and businesses to the digital environment through the universal use of Vietnamese digital platforms"*.

In 2022, the proportion of eligible services to be provided online at level 4 accounted for 97.4%; the percentage of online public services with online records reached 80.05%, exceeding the Government's target of 80%, an increase of 2.2 times compared with that of 2021.

Some online public services exerted a considerable effect on serving the people. Typically, the registration service for high school graduation exam recorded over 93% of students registering online in 2022; the service of issuing ordinary passports unincorporated a chip showed 51.1% of citizens registering online.

Providing public services online has brought about specific effects such as saving both time and costs for people and businesses; Improving the openness and transparency of government activities at all levels to prevent evils and corruption when handling administrative procedures for people and boosting digital transformation, building a digital society as well.

In 2022, the United Nations released a survey report on the level of e-government development of 193 countries and territories globally, in which the Online Services Index of Viet Nam ranked 76th among 193 countries, increasing 5 places compared with that of 2020. Viet Nam was one of 9 countries with below average income but had its Online Services Index above the world average.

1. DIGITAL GOVERNMENT

1.1 Digital infrastructure

No.	Indicator	Unit	2021	2022
1.1.1	Percentage of adults who own a smartphone	%	70.91	-
1.1.2	Digital infrastructure in government agencies			
1.1.2.1	<i>Deploying data centers for digital transformation towards using cloud technology in provinces and cities</i>			
	Number of provinces/cities that have deployed data centers for digital transformation in the direction of using cloud computing technology up to standards (meeting technical criteria under the guidance of the Ministry of Information and Communications given in the document No. 1145/BTTTT-CATTT dated April 3 rd , 2020)	Province, city	11	45
	Number of provinces/cities that have deployed data centers for digital transformation towards the use of cloud computing technology but have not met the standards	Province, city	32	15
	Number of provinces/cities that have not yet deployed Data Centers for digital transformation towards the use of cloud computing technology	Province, city	20	3
1.1.2.2	<i>Deploying data centers for digital transformation towards the use of cloud computing technology at ministries, ministerial-level agencies, and government-attached agencies</i>			
	The number of ministries, ministerial-level agencies and government-attached agencies that have deployed Data Centers to serve digital transformation towards the use of cloud computing technology meets standards (meeting technical criteria under the guidance of the Ministry of Information and Communications given in the document No. 1145/BTTTT-CATTT dated April 3 rd , 2020)	Ministry	9	16
	Number of ministries, ministerial-level agencies, and government-attached agencies that have deployed data centers for digital transformation towards the use of cloud computing technology but have not met the standards	Ministry	6	5
	Number of ministries, ministerial-level agencies and government-attached agencies that have not yet deployed Data Centers for digital transformation towards the use of cloud computing technology	Ministry	11	4

Note: "-" no data

Source: MIC

1.2 Online public services

No.	Indicator	Unit	2018	2019	2020	2021	2022
1.2.1	Total number of online public services						
	Level 3	Service	26,734	37,206	29,124	22,218	21,711
	Level 4	Service	5,792	13,559	38,376	60,719	66,271
	Percentage of online public services with online records of the whole country	%	-	-	37.82	36.63	80.05
1.2.2	Number of online public services in ministries and ministerial-level agencies, government's agency						
	Level 3	Service	981	762	662	372	404
	Level 4	Service	700	859	2,209	1,937	2,488
	Percentage of online public services with online records at ministries, ministerial-level agencies, and government-attached agencies	%	-	-	68.48	63.66	71.85
1.2.3	Total number of online public services in provinces						
	Level 3	Service	25,753	36,444	28,462	21,846	21,307
	Level 4	Service	5,092	12,700	36,829	58,782	85,494
	Percentage of online public services with online records in provinces and centrally run cities	%	-	-	36.78	35.85	80.41

Note: "-" no data

Source: MIC

1.3 Training digital human resources in government agencies*

Unit: %

No.	Indicator	Unit	2021	2022
1.3.1	Percentage of civil servants and public employees full-time or part-time responsible for digital transformation	%	3.87	11.17
1.3.2	Percentage of civil servants and public employees receiving training in digital transformation	%	51.85	57

Note: "*" only counting ministries, ministerial-level agencies, and government-attached agencies and provinces and cities

Source: MIC

2. DIGITAL TRANSFORMATION IN ENTERPRISES

Unit: %

No.	Indicator	2018	2019	2020	2021	2022
2.1	Ratio of enterprises having website (*)	44	42	42	43	44
2.2	Ratio of enterprises making e-tax declaration (**)	99.83	99.90	99.8	99.93	99.94
2.3	Ratio of enterprises carrying out e-customs procedures (***)	99.96	99.54	99.7	99.98	99.98

Source: (*): Data from Ministry of Industry and Trade

(**) and (***): Data from Ministry of Finance

3. DIGITAL TRANSFORMATION IN THE SOCIETY

3.1 Information technology infrastructure

No.	Indicator	Unit	2018	2019	2020	2021	2022
3.1.1	Households with computers per inhabitants	%	-	24.6	24.74	27.1	25.4
3.1.2	Number of computers per 100 households	Computer	22.3	29	25.74	28.6	35.5

Note: "-" no data

Source: General Statistics Office of Viet Nam

3.2. Online public services with numerous users in the society

Unit: dossier

No.	Indicator	Responsible body	2022
3.2.1	High value inter-bank payment	The State Bank of Viet Nam	19,736,268
3.2.2	Low value inter-bank payment	The State Bank of Viet Nam	135,459,181
3.2.3	Procedures for controlling payment of recurrent expenditures, recurrent non-business expenditures, spending on national target programs, target programs using non-business funds	State Treasury, Ministry of Finance	19,883,626
3.2.4	Value-added tax using the subtraction method from business operations	General Department of Taxation, Ministry of Finance	5,396,508
3.2.5	Registration for high school graduation exam	Ministry of Education and Training	1,001,011



INFORMATION SECURITY

In 2022, the Ministry of Information and Communications issued business licenses for new products and network information security services to 10 businesses. This was a year when the growth level of businesses in the field across the entire information network was noticeable. The number of businesses operating in the field of network information security licensed to provide network information security products and services in 2022 was 101 enterprises (of which: 27 businesses produced information security products and services, 71 businesses provided network information security services; 74 enterprises imported cyber information security products), an increase of 4.4 times compared to 2017 (23 enterprises).

With the growth of small and medium enterprises (SMEs) in the market, newly established enterprises was mainly small sized. This showed signs of expanding the needs for information security among SMEs as the trend of digital transformation, electronic transactions and remote working has been increasing. The revenue in the field of information security in 2022 reached VND 3,319 billion, an increase by 27% compared with that 2021 with VND 2,613 billion and an increase by nearly 2.8 times compared with that 2018 with VND 1,200 billion.

People, process and technology are three closely related factors and also the main solutions to the problem of ensuring information security for organizations and businesses. In particular, the human factor is considered the key and decisive factor in ensuring information security. Therefore, training and developing cyber information security human resources is a specially critical national issue. In 2022, the number of enrolled cyber information security personnel reached 2,600 people, an increase by 30% compared with that of 2018 with 2,000 people. The number of cyber information security personnel graduated in 2022 represented 2,000 people, an increase by 2.5 times compared with that of 2018 with 794 people.

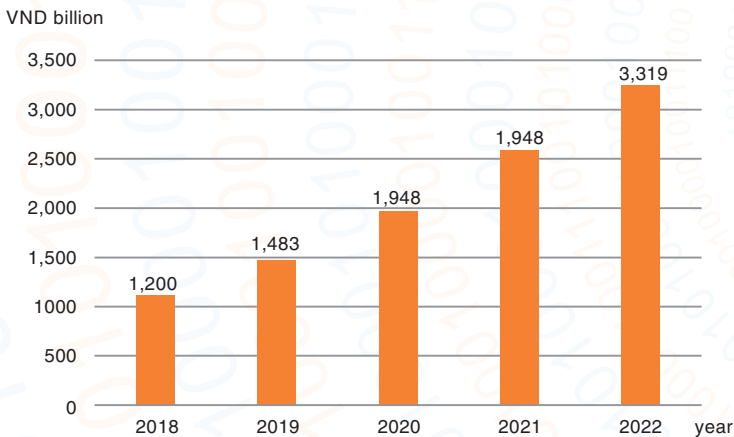
1. TOTAL NUMBER OF INFORMATION SECURITY ENTERPRISES

Unit: enterprise

No.	No.	2018	2019	2020	2021	2022
1.1	Number of enterprises on information security	58	84	87	91	101
1.2	Number of enterprises having information security products	9	12	13	18	27
1.3	Number of enterprises providing information security services	37	56	57	59	71
1.4	Number of enterprises importing information security products	34	67	73	75	74

Source: MIC

2. REVENUE FROM INFORMATION SECURITY SECTOR



Source: MIC

3. TRAINING ON INFORMATION SECURITY

Unit: person

No.	Indicator	2018	2019	2020	2021	2022
3.1	Number of actual students enrolled in universities having information security training	2,000	2,100	2,310	2,300	2,600
3.2	Number of graduated information security students	794	805	880	1,650	2,000

Source: MIC

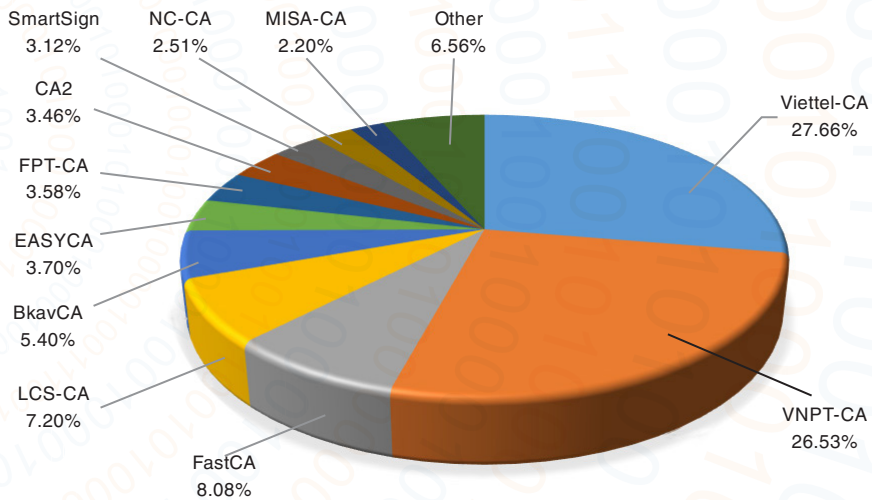
4. THE NUMBER OF NETWORK ATTACKS

Unit: attack

No.	No.	2018	2019	2020	2021	2022
	Number of network attacks to information systems in Viet Nam that causing incidents, including:	10,220	5,176	6,829	9,729	12,195
4.1	Deface attacks	3,198	1,432	2,246	1,868	1,711
4.2	Malware attacks	1,090	577	2,234	5,769	5,993
4.3	Phishing attacks	5,932	3,167	2,349	2,092	4,491

Source: MIC

5. MARKET SHARE OF PUBLIC CERTIFICATE AUTHORITY (CA) SERVICES



Source: MIC

6. NUMBER OF PUBLIC DIGITAL CERTIFICATES

Unit: digital certificates

Indicator	2018	2019	2020	2021	2022
Number of public digital signature certificates	1,068,961	1,368,331	1,570,039	1,631,151	1,959,797

Source: MIC



INDUSTRY OF INFORMATION TECHNOLOGY, DIGITAL TECHNOLOGY

In the context where the economy of the country recovered strongly after the Covid-19 pandemic, the IT industry kept on growing by 4.1% with total revenue reaching nearly USD 145.2 billion. The export value of IT products and services numbered USD 138.1 billion, an increase by 9.4% where hardware and electronics exports accounted for nearly 98% of IT workforce which reached approximately 1.5 million people. Viet Nam continued to be a destination for FDI capital flows into the IT industry with 260 investment projects, an increase by 63.5% and a total investment capital of USD 675 million, an increase of 54.8% compared with that of 2021.

The export of IT products and services continuously ranked first in the group of Viet Nam's largest export industries in 2022. Despite being affected by the Russia-Ukraine war, the electronic hardware sector still maintained their pace of growth with its export value numbering USD 133.6 billion, up 9.7%. The software and services exports reached nearly USD 4 billion, down 25% compared with 2021 due to the impact of economic recession, the decreasing demand for IT expenditure and sharp increase in USD exchange rate. However, the traditional export markets of Vietnamese IT companies such as Japan and North America still recorded a stable growth rate where the export revenue from the Japanese market maintained a growth rate of 20 - 40%. In particular, in 2022, the fields with high added value such as software and IT services achieved labor productivity of USD 25,100 per person per year, equivalent to about VND 593 million per person per year, 3.2 times higher than the national average labor productivity with VND 188 million per person per year.

The recovery of production and business activities over the country created favorable conditions for increasing businesses to resume operations. The number of domestic enterprises in the field of IT industry reached around 45,500, an increase by 3% compared with that of 2021 where the remarkable increase was in the field of IT trading and distribution (6.9%). The software and IT services sector with over 19,000 active businesses increased slightly by 1% compared with that of 2021.

Since the beginning of 2022, after the Covid-19 epidemic, a series of technology companies around the world have cut staff, and a wave of technology labor crisis has exploded in many technology powers around the world. This has somewhat impacted the labor market and jobs in the IT industry in Viet Nam. The number of IT workers in Viet Nam, after many years of growth and peaking in 2021, increased by 18.5%, by 2022 there were signs of decreasing by over 1.1%, of which only human resources in the field of electronic hardware was decreasing 10% due to massive staff cuts at factories. However, the bright spot was that labor in software, digital content and IT services still maintained a strong increase, 10%, 8% and 31.6%, respectively.

1. IT PARKS

No.	Indicator	Unit	2018	2019	2020	2021	2022
1.1	Number of IT parks	Park	04	04	06	06	06
1.2	Total size of land	m ²	845,015	915,015	2,425,615	2,425,615	2,425,615
1.3	Total size of office space	m ²	620,000	620,000	680,000	680,000	680,000
1.4	Total number of enterprises IT parks	Enterprise	870	870	over 800	880	880
1.5	Total number of IT employees in IT parks	Person	42,000	42,000	38,500	38,500	38,500

Source: Reports from IT parks

2. TOTAL NUMBER OF ENTERPRISES OPERATING IN THE IT INDUSTRY

Unit: enterprise

No.	Indicator	2021	2022
2.1	Number of enterprises operating in the IT, electronics - telecommunications industry	44,133	45,403
2.2	Hardware, electronics industry enterprise	4,240	3,961
2.3	Software industry enterprise	13,756	11,204
2.4	Digital content industry enterprise	442	477
2.5	IT services enterprise (not including trade and distribution)	5,717	8,399
2.6	IT trading and distribution enterprises	19,978	21,362

Source: General Department of Taxation and reports from provinces

3. IT MARKET

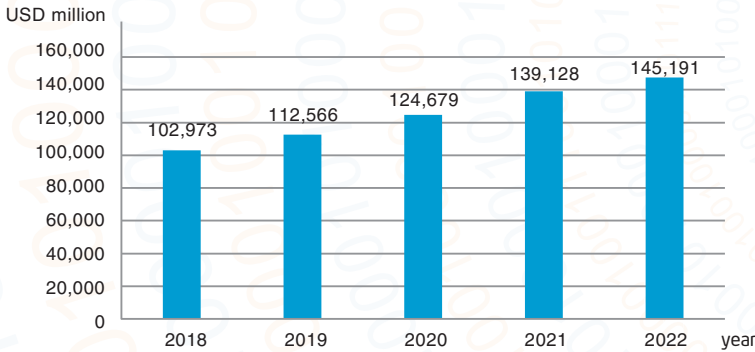
3.1 Revenue from the IT, electronics - telecommunication industry

Unit: million USD

No.	Indicator	2018	2019	2020	2021	2022
3.1.1	Total revenue from IT, electronics - telecommunications industry	102,973	112,566	124,679	139,128	145,191
3.1.2	Revenue of hardware, electronics industry	91,516	100,338	111,034	125,472	135,948
3.1.3	Revenue of software industry	4,447	4,932	5,439	5,728	4,161
3.1.4	Revenue of digital content industry	825	851	888	882	886
3.1.5	Revenue of IT services (not including trade and distribution)	6,185	6,445	7,318	7,046	4,196

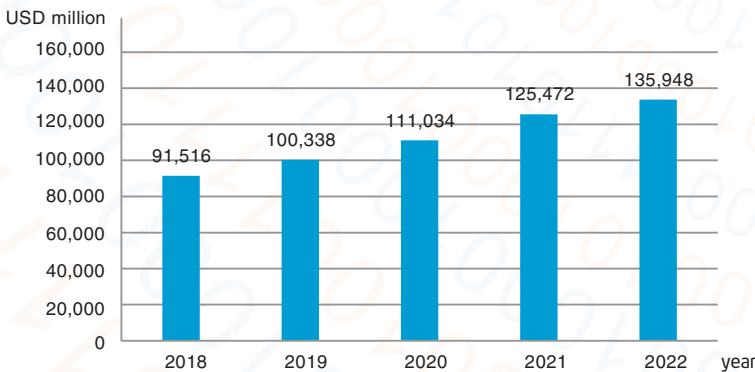
Source: Reports from provinces

Total revenue of the information technology - electronics and telecommunications industry in the period 2018-2022



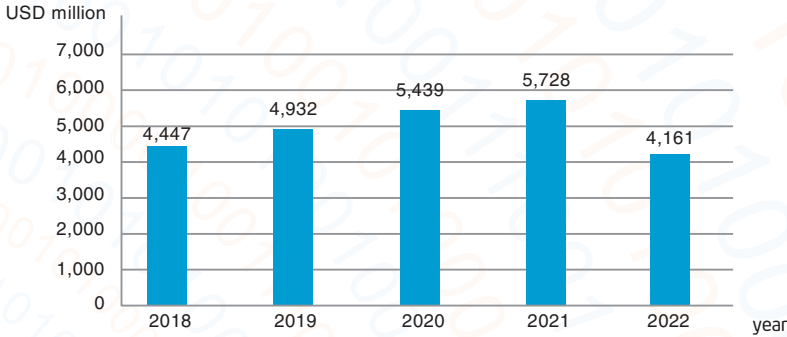
Source: Reports from provinces

Revenue of hardware and electronics industry in the period 2018-2022



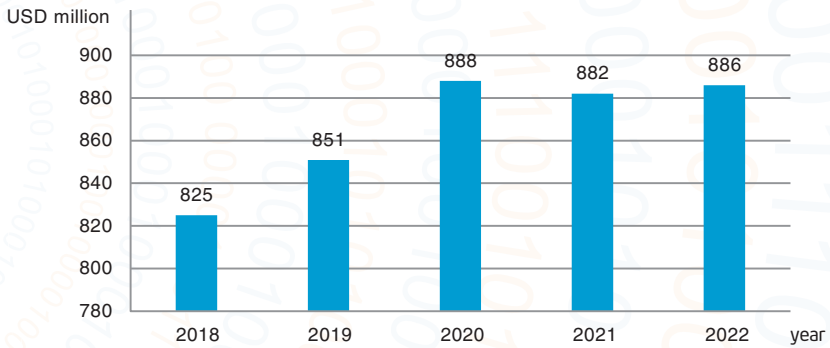
Source: Reports from provinces

Software industry revenue in the period 2018-2022



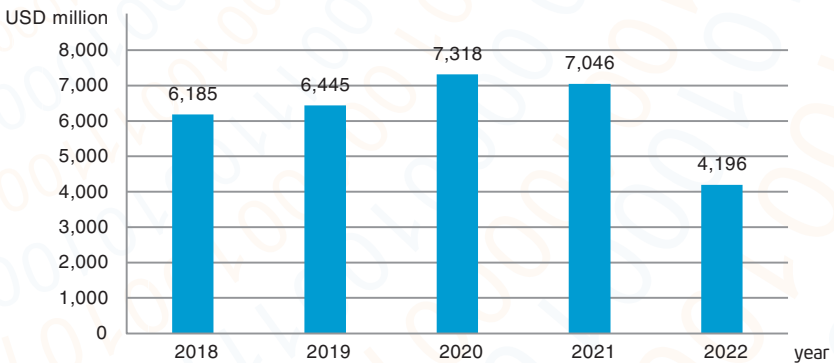
Source: Reports from provinces

Digital content industry revenue in the period 2018-2022



Source: Reports from provinces

Revenue of IT services (not including trade and distribution) in the period 2018-2022



Source: Reports from provinces

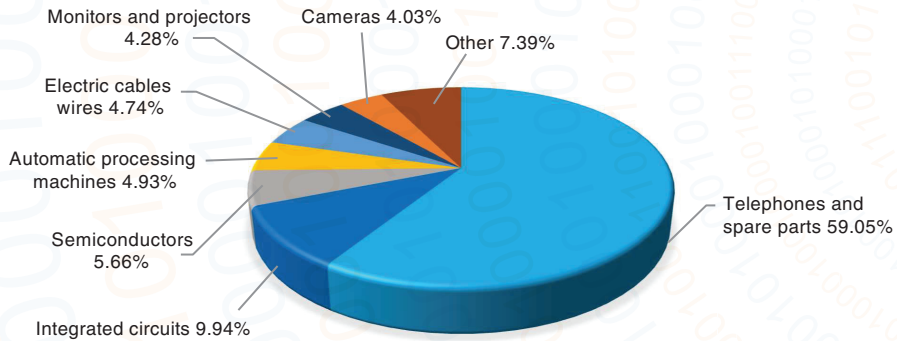
3.2 IT Import - export

Unit: USD million

No.	Indicator	2018	2019	2020	2021	2022
3.2.1	Total IT export turnover	83,372	92,669	101,390	127,654	138,111
	Software export turnover	3,743	4,406	4,643	4,958	3,600
	Digital content export turnover	771	705	710	598	602
	Hardware, computers, electronic products export turnover	78,566	87,294	95,760	121,826	133,615
	Export turnover of IT services	292	264	277	272	294
3.2.2	Hardware, computers, electronic products import turnover	51,182	65,958	80,616	95,064	104,492

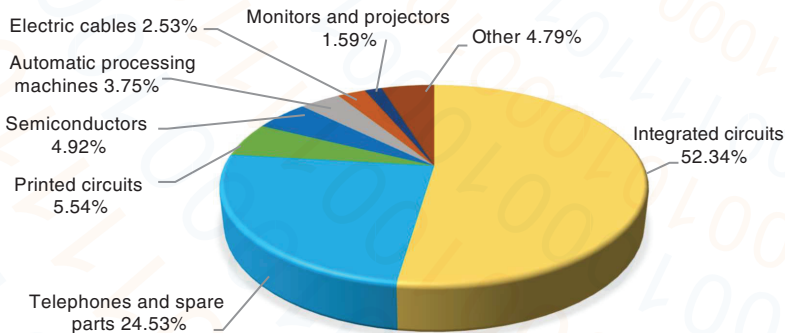
Source: General Department of Customs and General Department of Taxation

3.2.3 Hardware and electronics export structure



Source: General Department of Customs

3.2.4 Hardware and electronics import structure



Source: General Department of Customs

4. FOREIGN INVESTMENT IN THE IT, ELECTRONICS - TELECOMMUNICATIONS INDUSTRY

No	Indicator	Unit	2018	2019	2020	2021	2022
4.1	Total foreign investment capital in the IT, electronics - telecommunications industry	USD million	591.77	3,566.25	1,498.3	412.92	675.11
4.2	Total number of foreign investment projects in the IT, electronics - telecommunications industry	Project	248	568	243	168	260
4.3	Total number of countries invested in the IT, electronics - telecommunications industry	Country	42	42	41	48	47

Source: Ministry of Planning and Investment

5. WORKFORCE IN THE IT, ELECTRONICS - TELECOMMUNICATIONS INDUSTRY

5.1 Labour in IT, electronics - telecommunications industry

Unit: person

No.	Indicator	2018	2019	2020	2021	2022
5.1.1	Total number of employees	1,211,933	1,264,211	1,250,908	1,482,010	1,465,276
5.1.2	Number of employees in hardware, electronic industry	717,955	760,097	842,458	1,030,592	927,140
5.1.3	Number of employees in software industry	127,366	143,149	149,072	224,291	247,259
5.1.4	Number of employees in digital content industry	51,952	42,479	34,377	3,304	3,597
5.1.5	Number of employees in IT services (not including trade and distribution)	76,419	59,481	55,361	65,092	85,691
5.1.6	Number of employees in IT trade and distribution	238,241	259,005	169,640	158,731	201,589

Source: Reports from provinces and General Department of Taxation

5.2 Average of income per employee

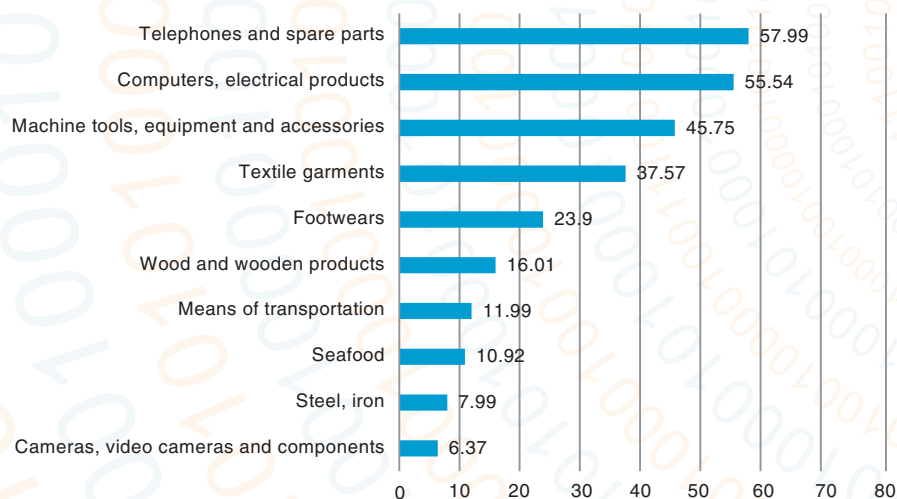
Unit: USD per person per year

No	Indicator	2018	2019	2020	2021	2022
5.2.1	Average of income per employee in hardware, electronics industry	5,392	5,336	4,824	4,270	4,902
5.2.2	Average of income per employee in software industry	8,578	9,642	9,419	10,098	9,112
5.2.3	Average of income per employee in digital content industry	7,696	7,820	7,201	6,947	6,276
5.2.3	Average of income per employee in IT services (not including trade and distribution)	6,932	7,155	5,537	5,385	5,456

Source: Reports from provinces

6. TOP 10 LARGEST PRODUCT EXPORT IN 2022

Unit: USD billion



Source: General Department of Customs



PRESS AND COMMUNICATIONS

In the press field, by 2022, there were 808 press agencies, including 138 newspapers and 670 magazines. The total number of employees of print and electronic media agencies was 23,900 people, of which 12,300 people had been issued press cards; 98% held university degrees, 4.9% held postgraduate degrees. Regarding finance of newspaper and magazine agencies: 39% could self-finance for regular and investment expenditures; 36% self-guarantee part of their regular expenses; 25% of the budget ensures regular expenses. By September 2022, the revenue of print and electronic press agencies was about 9,500 billion (state budget allocation was 4,800 billion, revenue from advertising and distribution was about 4,700 billion); Total expenses (including publishing costs, regular expenses, investment expenses, copyright purchases, fund appropriation) were about 6,600 billion, accounting for about 70% of total revenue. The total number of copies printed was 250 million copies, an average of 2.5 copies/person; The total number of electronic news visits hit 24.5 billion, an average of 245 visits per person.

In the broadcasting field, Viet Nam has 72 broadcasters including radio stations (audio press) and television stations (visual press) which has been stable for many years. The total number of employees of broadcasters was 16,653 people compare to 17,400 people in 2021, of which more than 10,100 were Party members. As for political qualifications, about 1,730 people obtained advanced level of political theory. In 2022, the total revenue of broadcasters reached more than VND 15,092.2 billion, an increase by VND 377.83 billion (up 2.6%) compared with VND 14,714.38 billion in 2021. Number of pay TV service providers was 38 including various types of cable TV services such as analog, digital, IPTV, satellite TV, mobile TV, TV over the Internet (OTT TV). In 2022, the coverage percentage of DVB-T2 digital terrestrial television over the nationwide population accounted for 80.1%. The year 2022 marked the steady development of the pay TV market. The pay TV revenue in 2022 amounted to VND 9,042 billion, growing 8.8% compared with that of 2021. In particular, OTT TV service revenue grew strongly with its revenue reaching more than VND 1,400 billion which doubled that of 2021. The number of pay TV subscribers in 2022 was estimated at 17.2 million, growing 1.8% compared with that of 2021. The number of active licensed general websites in 2022 was 2,083, an increase by 237 websites. The active licensed general websites of press agencies numbered 145 (down 27).

In the grassroots information field, by 2022, Viet Nam had 9,812 out of 10,599 communes, wards and towns with a radio station, accounting for 92.6%; including 1,297 radio stations

integrated information technology - telecommunications, accounting for 13.2%. This was a modern broadcasting system that integrated digital technology in management, production, and storage of radio programs, using artificial intelligence in converting paper news to voice, and receiving and transmitting audio signals on telecommunication infrastructure. According to the Grassroot Information Development Strategy for the period 2021–2025, by 2025, the radio station integrated information technology - telecommunications will be targeted to cover 100% of communes, wards and towns over the country, marking a strong digital transformation in the grassroots information field.

Regarding foreign affairs information, Viet Nam's foreign press, especially newspaper agencies (editorial offices) that published newspapers in foreign languages or had specialized pages published in foreign languages, have made great strides in development. The content, quality, form and type effectively served the country's development and deep and wide integration, contributing to enhancing Viet Nam's image and position in the international arena.

Regarding publishing, by the end of 2022, there were 57 publishing houses nationwide; 2,402 printing establishments; 2,060 businesses and publishing establishments. During the year, the entire industry deposited 38,029 publications (an increase of 15.42%) with 598,938,423 copies (an increase of 49.5%). Of which: Printed book publications reached 32,645 books with 539,937,271 copies; Electronic publications issued 3,350 publications with an estimated 32,500,000 copies (an increase of 30%). Other publications (DVDs, pictures, maps, calendars of all kinds, etc) got 2,034 publications with 26,501,152 copies. The average publication rate per capita reached 6.0 copies/person/year (an increase of 47.3%). Printing industry revenue reached VND 93,151 billion (up 9% compared to 2021); Profit (after tax) reached VND 4,069 billion; contributed VND 3,240 billion to the budget. Publishing businesses have released over 519,000,000 publications (an increase of 33%); Revenue reached about VND 4,500 billion (up 28.7%) compared to 2021. Total import-export turnover of publications reached USD 17.5 million (up 10%), of which export turnover was USD 1.5 million (up 15.4%); Import turnover reached USD 16 million (up 16.8%).

2022 continued to be a year of many challenges for the press and communication field due to the negative impact of the pandemic, armed conflict and economic recession taking place globally. Domestically, industry material prices increased; governmental investment in some areas decreased; Purchasing power has not met expectations. However, with much effort and creativity, the production and business results of all fields of publishing, printing and distribution have seen strong growth compared to 2021. Publishers have published many valuable publications, promptly and effectively serving the country's political tasks, increasingly meeting the needs of readers. Publishers, printing and distribution businesses have coordinated closely with technology businesses to promote the application of science and technology. The number of e-books in modern formats and the explosion of audiobooks with tens of millions of listens on digital platforms helped the publishing industry develop strongly in an environment of increasingly fierce competition between publishing and publishing. publishing with other cultural and media economic sectors.

1. PRESS

No.	Indicator	Unit	2018	2019	2020	2021	2022
1.1	Number of press agencies	Agency	844	850	779	815	808
1.1.1	Number of news agencies	Agency	184	195	151	138	138
1.1.2	Number of journal agencies	Agency	660	655	628	677	356
1.1.3	Number of science journal agencies	Agency	-	-	-	-	314
1.2	Revenue of press agencies	VND billion	4,900	4,923	4,877	2,295	14,500
1.3	Total number of employees in press agencies (all 4 types of press)	Person	41,600	41,000	40,000	41,000	42,400
1.4	Total number of journalists granted press cards (all 4 types of press)	Journalist	19,166	20,580	21,132	17,772	11,956

Note: "-" no data

Source: MIC

1.5 Number of press agencies divided by economic region

Unit: agency

No.	Economic region	2018	2019	2020	2021	2022
1.5.1	Northern Midlands and Mountains (provinces: Ha Giang, Cao Bang, Bac Kan, Tuyen Quang, Lao Cai, Dien Bien, Lai Chau, Son La, Yen Bai, Hoa Binh, Thai Nguyen, Lang Son, Bac Giang, Phu Tho)	30	29	36	36	36
1.5.2	Red River Delta (provinces/cities: Ha Noi, Quang Ninh, Vinh Phuc, Bac Ninh, Hai Duong, Hai Phong, Hung Yen, Thai Binh, Ha Nam, Nam Dinh, Ninh Binh)	687	646	558	578	588
1.5.3	North Central and South Central Coast (provinces/cities: Thanh Hoa, Nghe An, Ha Tinh, Quang Binh, Quang Tri, Thua Thien - Hue, Da Nang, Quang Nam, Quang Ngai, Binh Dinh, Phu Yen, Khanh Hoa, Ninh Thuan, Binh Thuan)	56	61	62	62	59
1.5.4	Central Highlands (provinces: Kon Tum, Gia Lai, Dak Lak, Dak Nong, Lam Dong)	13	12	13	14	16
1.5.5	Southeast (provinces/cities: Binh Phuoc, Tay Ninh, Binh Duong, Dong Nai, Ba Ria Vung Tau, Ho Chi Minh City)	50	46	72	86	77
1.5.6	Mekong River Delta (provinces/cities: Long An, Tien Giang, Ben Tre, Tra Vinh, Vinh Long, Dong Thap, An Giang, Kien Giang, Can Tho, Hau Giang, Soc Trang, Bac Lieu, Ca Mau)	32	32	38	39	39

Source: MIC

1.6 Data on implementation of press master plan

Unit: agency

No.	Indicator	2020	2021	2022
1.6.1	Change of governing body	33	29	3
1.6.2	Change of operational model	30	38	2
1.6.3	Merging and consolidating	49	60	2
1.6.4	Termination of operation	49	45	9

Source: MIC

1.7 Training and improving professional press

Unit: course

No.	Indicator	2019	2020	2021	2022
1.7.1	Training according to professional title standards	25	0	0	15
1.7.2	Training in state management of press	5	6	0	6
1.7.3	Training in skills of media and press	31	8	6	3
1.7.4	Conference, seminar, forum, event, competition in the press sector	7	4	3	0
1.7.5	Activities related to training and international cooperation in the press sector	1	1	1	6

Source: MIC

2. BROADCASTING AND ELECTRONIC INFORMATION

2.1 Number of radio - TV broadcasters

Unit: broadcaster

No.	Indicator	2018	2019	2020	2021	2022
2.1.1	Number of national radio broadcasters (VOV)	1	1	1	1	1
2.1.2	Number of national TV broadcasters (VTV)	1	1	1	1	1
2.1.3	Number of local radio - TV broadcasters	64	64	64	64	64
2.1.4	Number of Ministry and sector TV units	5	5	5	5	5
2.1.5	VTC (belonging to VOV)	1	1	1	1	1

Source: MIC

2.2 Number of radio, TV channels

Unit: channel

No.	Indicator	2018	2019	2020	2021	2022
2.2.1	Number of Vietnamese radio channels	87	87	87	79	77
	Number of free-to-air radio channels	78	78	78	78	77
	Number of radio channels on subscription broadcasting services	9	9	9	1	0
2.2.2	Number of Vietnamese TV channels	191	193	196	197	194
	Number of TV channels on subscription broadcasting services	83	83	83	84	84
2.2.3	Number of foreign radio, TV channels					
	Number of foreign channels granted editing license to broadcast on subscription services	70	70	70	58	54

Source: MIC

2.3 Number radio and TV service providers

Unit: enterprise

No.	Indicator	2018	2019	2020	2021	2022
2.3.1	The number of radio - TV on free-to-air service providers	2	2	2	2	2
2.3.2	The number of radio - TV on subscription broadcasting services providers	35	35	36	37	38
2.3.3	The number of radio - TV on subscription broadcasting services providers by type of services	46	47	50	50	51
2.3.3.1	The number of providers granted cable TV service license	21	21	21	22	22
2.3.3.2	The number of providers granted digital terrestrial TV service license	1	1	1	1	1
2.3.3.3	The number of providers granted digital satellite TV service license	3	3	3	3	3
2.3.3.4	The number of providers granted mobile TV service license	3	3	3	3	3
2.3.3.5	The number of providers granted Internet TV service license	18	19	22	21	22

Source: MIC

2.4 Pay broadcasting, TV service market

2.4.1 Number of pay television subscribers

Unit: subscriber

No.	Indicator	2018	2019	2020	2021	2022
2.4.1.1	Number of cable TV subscribers	10,458	11,066	11,567	11,748	11,713
	Number of analog cable TV service subscribers	5,607	5,205	4,648	3,495	2,809
	Number of digital cable TV service subscribers	3,208	3,503	3,679	3,510	1,379
	Number of IPTV service subscribers	1,335	2,358	3,239	4,743	7,525
2.4.1.2	Number of digital terrestrial TV service subscribers	979	204	146	126	80
2.4.1.3	Number of digital satellite TV service subscribers	1,794	1,077	743	963	802
2.4.1.4	Number of mobile TV service subscribers	815	480	218	275	161
2.4.1.5	Number of Internet TV service subscribers	1,277	3,025	3,577	3,788	5,567

Source: MIC

2.4.2 Pay TV revenue

Unit: VND billion

No.	Indicator	2018	2019	2020	2021	2022
	Total revenue	7,775	7,572	8,102	8,304.9	9,042
2.4.2.1	Revenue from cable TV service subscriptions	6,414	6,255	6,809	6,771	6,964
2.4.2.2	Revenue from digital terrestrial TV service subscriptions	126	67.3	61	60.2	39
2.4.2.3	Revenue from digital satellite TV service subscriptions	997	947.1	769	685.3	605
2.4.2.4	Revenue from mobile TV service subscriptions	180	198	229	145.4	17
2.4.2.5	Revenue from Internet TV service subscriptions	57.8	104.6	234	643	1,417

Source: MIC

2.5 Market share (revenue) of pay broadcasting, TV service providers (by revenue from subscribers)

Unit: %

No.	Indicator	2018	2019	2020	2021	2022
2.5.1	Market share of cable TV service	82.4	82.6	84	81.5	77
2.5.2	Market share of terrestrial digital TV service	1.6	1.0	0.9	0.7	0.4
2.5.3	Market share of satellite digital TV service	12.8	12.5	9.4	8.3	6.7
2.5.4	Market share of mobile TV service	2.3	2.6	2.8	1.8	0.2
2.5.5	Market share of Internet TV service	0.9	1.3	2.9	7.8	15.7

Source: MIC

2.6 Broadcasting workforce

Unit: person

No.	Indicator	2018	2019	2020	2021	2022
2.6.1	Employees in the national radio broadcasters	2,800	2,509	2,400	2,400	2,505
2.6.2	Employees in the national TV broadcasters	3,881	3,734	3,600	3,900	3,494
2.6.3	Employees in the local radio - TV broadcasters	10,300	10,100	10,000	9,800	9,300
2.6.4	Employees in TV units in the ministries and sectors	1,500	1,484	1,400	1,300	1,354
2.6.5	Employees in the units providing radio - TV services	8,118	8,458	8,500	8,000	8,330

Source: MIC

2.7 TV Audience Measurement Index of national and local essential channels in Ha Noi City (HN), Ho Chi Minh City (HCM), Can Tho City (CT) and Da Nang City (DN)

Unit: %

No.	Indicator	Channel	2019				2020				2021				2022																				
			HN	HCM	CT	DN	HN	HCM	CT	DN	HN	HCM	CT	DN	HN	HCM	CT	DN																	
2.7.1	The average number of audience viewing TV channels at least one minute over total audiences	VTV1	10.9	10.8	10.6	9.0	10.1	10.2	9.4	9.1	9.8	11.2	10.0	8.8	7.9	9.7	8.3	7.6																	
2.7.2			The average number of audience viewing TV channels at least one minute per day over total audiences	56.3	53.8	57.5	52.6	49.9	48.5	49.9	50.4	47.8	48.1	48.6	42.5	44.1	42.3	38.9																	
2.7.3																			The average number of audience viewing TV channels at least one minute per day over total audiences	0.7	1.1	0.6	1.4	1.9	1.1	0.7	0.7	0.8	0.9	1.3	0.8	1.5	1.1	0.8	1.2
2.7.4	The average number of daily audience viewing TV channels over the total audiences viewed at least one channel per minute at a given time period of television	1.8	1.1	0.6	1.4	1.9	1.1	0.7	1.0	1.5	1.6	1.6	2.9	2.7	1.6	1.4	1.9	3.6																	
																			Nhan dan	1.8	4.4	1.3	0.5	0.8	0.7	0.6	0.6	0.8	0.8	0.9	1.3	1.1	1.0	0.7	1.5
HTV9	0.9	4.7	1.9	1.2	1.5	7.8	2.2	2.0	2.0	1.2	6.7	2.2	2.6	0.9	5.9	1.9	2.7	2.5																	
																			VTV1	24.9	3.7	2.0	13.2	21.7	4.6	3.0	12.7	20.0	5.8	3.8	13.1	14.8	2.8	2.9	10.8
VTC1	6.9	3.3	2.9	4.7	1.4	1.1	0.9	1.2	1.1	1.0	1.0	1.5	1.3	1.1	1.4	0.9	0.9	0.9																	
																			TTXVN	0.8	0.4	0.7	0.9	1.5	0.8	1.4	0.9	1.1	1.3	1.0	1.5	1.5	0.8	1.2	1.5
ANTV	3.1	1.4	0.9	2.1	2.2	1.3	1.0	2.3	1.7	2.0	2.9	2.7	1.8	1.7	2.9	3.9	3.9	3.9																	

No.	Indicator	Channel	2019				2020				2021				2022			
			HN	HCM	CT	DN	HN	HCM	CT	DN	HN	HCM	CT	DN	HN	HCM	CT	DN
	channels serving essential national and local political missions and propaganda	QPVN	1.1	1.0	0.9	0.6	1.1	0.9	0.8	0.8	1.5	1.0	1.1	1.3	0.9	1.5	1.4	2.0
		Nhan dan	2.3	4.8	1.5	2.0	0.5	1.0	1.0	0.7	1.0	0.9	1.6	1.1	1.1	0.9	1.7	2.5
		QHVN	0.7	0.4	0.5	0.8	0.8	0.8	0.6	0.9	0.8	1.3	0.7	1.3	1.2	0.7	1.0	1.2
		H1	2.4	1.0	0.8	0.5	2.2	1.3	0.4	0.6	6.2	1.3	0.9	2.4	2.3	0.6	1.1	1.3
		HTV9	1.3	8.3	2.1	2.6	1.8	9.7	2.6	2.3	1.3	9.5	3.0	3.6	1.0	7.4	2.6	3.0
2.7.5	The audience market share of each TV channel over remaining channels serving essential national and local political missions and propaganda, given at the same time frame	VTV1	74.1	12.6	8.7	46.2	60.2	15.7	20.1	44.8	68.2	15.3	11.4	46.8	66.1	12.4	14.8	47.2
		VTC1	17.9	9.6	7.9	13.6	3.5	2.5	3.7	6.0	6.7	7.0	15.4	9.8	4.3	10.4	10.6	5.3
		TTXVN	7.8	3.6	2.3	3.4	2.9	2.9	3.3	11.8	13.1	13.1	3.9	7.8	7.1	3.9	11.6	21.3
		ANTV	7.2	6.8	4.9	9.1	8.1	6.8	5.4	9.1	13.9	6.7	10.4	35.2	8.3	13.2	36.1	27.6
		QPVN	2.6	5.0	5.9	8.8	4.9	8.1	3.6	6.4	5.9	8.0	9.4	11.1	7.6	8.4	8.5	12.7
		Nhan dan	5.3	13.7	3.8	4.9	6.1	4.0	3.4	3.1	5.4	4.9	7.3	6.8	6.4	4.0	14.5	16.2
		QHVN	4.0	2.8	1.6	3.9	8.6	5.0	10.5	10.5	17.2	3.5	15.3	5.6	5.7	4.5	62.0	9.1
		H1	11.6	3.2	3.0	2.6	7.0	17.0	6.8	2.3	4.9	5.5	1.3	10.5	10.8	2.6	37.4	3.9
		HTV9	4.8	20.6	9.2	5.8	8.1	28.2	11.3	7.6	8.2	24.9	14.4	15.3	11.5	33.9	13.1	13.6

Source: Center for Testing of Radio, Television and Electronic Information Services; Statistics on 180 TV channels were surveyed to collect data; Measuring range on traditional broadcasting transmission infrastructures (digital terrestrial television, cable television (analog cable, digital cable), satellite digital television, IPTV)

2.8 Website and social network

No.	Indicator	Unit	2018	2019	2020	2021	2022
2.8.1	Number of general websites of press agencies	Website	189	175	184	172	145
2.8.2	Number of licensed general websites of agencies, enterprises, organizations (excluded those of press agencies)	Website	1,349	1,587	1,716	1,846	2,083
2.8.3	Number of licensed online social networks	Social network	493	614	755	861	953

Source: MIC

2.9 Online games

No.	Indicator	Unit	2018	2019	2020	2021	2022
2.9.1	Number of licensed enterprises to provide G1 online games	Enterprise	130	161	197	228	249
2.9.2	Number of enterprises granted games G2, G3, G4 service provision registration certificate	Enterprise	76	87	111	130	146
2.9.3	Number of G1 games issued the decision on approval of script content	Game	544	695	908	1,084	1,357
2.9.4	Number of G2, G3, G4 video games issued with service provision notificatio	Game	7,660	8,248	8,514	9,956	11,741

Source: MIC

2.10 Number of content providers

Unit: enterprise

Indicator	2018	2019	2020	2021	2022
Number of content providers on mobile telecommunication networks	412	458	490	501	509

Source: MIC

2.11 Workforce in electronic information

Unit: person

Indicator	2018	2019	2020	2021	2022
Number of content providers on mobile telecommunication networks	2,250	2,563	2,006	2,428	4,522

Source: MIC

2.12 Revenue, payment to the state budget

Unit: VND billion

TT	Indicator	2018	2019	2020	2021	2022
2.12.1	Revenue from enterprises providing online game services	7,461	7,581	7,856	7,268	12,410
2.12.2	Total payment to the state budget of enterprises providing G1 online game services	789	982	700	702	2,104

Source: MIC

3. GRASSROOT INFORMATION

3.1 Organizations participating in grassroots information sector

No.	Indicator	Unit	2018	2019	2020	2021	2022
3.1.1	Number of district-level radio and television establishment	Establishment	673	672	667	666	666
3.1.2	Number of communal-level radio broadcasters	Broadcaster	9,603	9,649	9,652	9,792	9,812

Source: MIC

3.2 Workforce in grassroots information sector

Unit: person

No.	Indicator	2019	2020	2021	2022
3.2.1	Number of employees in district-level radio and television establishment	7,321	7,321	7,321	7,300
3.2.2	Number of employees in communal-level radio broadcasters	13,847	13,867	13,853	13,800

Source: MIC

3.3 Infrastructure, products and services

No.	Indicator	Unit	2019	2020	2021	2022
3.3.1	Percentage of radio/household coverage (by district-level radio and television units)	%	88.26	88.26	88.38	88
3.3.2	Percentage of radio/household coverage (by communal-level radio broadcasters)	%	80.92	84.57	85	86

Source: MIC

4. EXTERNAL INFORMATION

No.	Indicator	Unit	2018	2019	2020	2021	2022
4.1	Number of external press	Press	214	221	240	250	253
4.2	Number of external radio, TV channel	Channel	03	03	03	03	03
4.3	Number of Vietnamese press offices permanently in abroad	Office	57	58	59	59	59
4.4	Number of Vietnamese journalists permanently in abroad	Person	147	149	139	139	137
4.5	Number of human resources who are concurrently responsible for mass communication of provincial Department of Information and Communications; Culture, Information and Communication Departments of districts.						
4.5.1	Number of human resources concurrently working for information and communication activities of the Provincial Department of Information and Communications	Person	-	-	63	63	63
4.5.2	Number of human resources concurrently responsible for mass communication of the District Culture, Information and Communication Departments	Person	-	-	528	528	528
4.6	Number of localities that have e-mail portals/pages in foreign languages	Portal	-	-	58	58	58
4.7	Number of foreign information clusters at international border gates	Cluster	-	-	19	19	19

Note: "-" no data

Source: MIC

5. PUBLICATIONS, PRINTING AND DISTRIBUTION

5.1 Publication

No.	Indicator	Unit	2018	2019	2020	2021	2022
5.1.1	Number of publications	Publication	33,087	45,170	42,943	41,675	40,631
5.1.1.1	Publications in printed book format	Book	31,438	38,069	38,319	35,914	32,645
5.1.1.2	Publications on electronic format	Publication	86	2,400	2,050	2,003	3,350
5.1.1.3	Other publications	Publication	1,563	4,701	2,574	3,758	4,636
5.1.2	Average book per capita	Book/ person/ year	4.2	4.6	4.1	4.4	6.0
5.1.3	Publisher number	Publishing company	59	59	59	57	57
5.1.4	Revenue	VND billion	2,506.393	2,248.657	2,330.890	3,042.277	3,909
5.1.5	Contribution to the state budget	VND billion	187.150	121.365	153.188	260.710	353,566
5.1.6	Profit after tax	VND billion	212.346	230.631	206.925	385.601	420,116

Source: MIC

5.2 Printing

No.	Indicator	Unit	2018	2019	2020	2021	2022
5.2.1	Total payment to state budget from print sector	VND billion	2,095	2,313	3,048	3,000	3,240
5.2.2	Number of printing companies	Company	1,993	2,214	2,309	2,300	2,402
5.2.3	Number of employees in printing companies	Person	57,253	62,089	60,720	58,800	61,228
5.2.4	Revenue of print sector	VND billion	91,487	96,976	94,745	85,460	93,151
5.2.5	Profit after tax of printing sector	VND billion	-	-	-	-	4,069

Note: "-" no data

Source: MIC

5.3 Distribution

No.	Indicator	Unit	2018	2019	2020	2021	2022
5.3.1	Number of publication distributors	Company	1,823	1,842	2,084	2,025	2,060
5.3.2	Revenue of publication distributors	VND billion	-	-	-	-	4,500
5.3.3	Profit after tax of publication distributors	VND billion	-	-	-	-	61,295
5.3.4	Contribution to the state budget of publication distributors	VND billion	-	-	-	-	64
5.3.5	Number of employees of publication distributors	Person	-	-	-	-	5,800
5.3.6	Export turnover of publication distribution	USD million	-	-	-	-	1.5
5.3.7	Import turnover of publication distribution	USD million	-	-	-	-	16.0

Note: "-" no data

Source: MIC

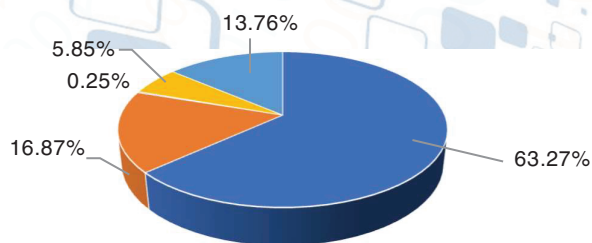


ICT HUMAN RESOURCE DEVELOPMENT

In 2022, the number of employees working in the information technology industry reached more than 1.45 million people, down 1.13% compared with that of 2021. IT industry workers accounted for nearly 2.8% of the workforce aged 15 years old and above nationwide in 2022⁽⁵⁾.

Viet Nam, ranked the 6th on Kearney's Global Services Index, was among the top countries for software outsourcing services in 2021 and ranked in the top 2 software outsourcing destinations in Southeast Asia.

Viet Nam's IT human resource structure was formed according to IT industry subsectors. Hardware and electronics labor in 2022 accounted for more than 63% of the total industry workforce, a decrease of 10% compared to 2021. The number of software and IT service workers accounted for 22.7%, an increase of 15% compared to 2021. The number of digital content industry workers in 2022 increased by nearly 8.9% compared to 2021. Year 2022 recorded a significant increase in IT sales and distribution workers by 27% compared to 2021.



- Employees of IT sales and distributions
- Employees of software industry
- Employees of digital content industry
- Employees of IT service industry
- Employees of hardware, electronics industry

⁽⁵⁾ <http://www.gso.gov.vn/du-lieu-va-so-lieu-thong-ke/2023/01/thong-cao-bao-chi-tinh-hinh-lao-dong-viec-lam-quy-iv-va-nam-2022/>

There were numerous IT training facilities at different levels in Viet Nam. Regarding university-level training, in 2022, out of 239 universities across the country, 165 universities were provided IT training. The enrollment quota for the 2022-2023 school year decreased by 14.5% compared to 2021, however the enrollment quota was still very high, more than 72 thousand students. The actual recruitment rate for university training in IT, telecommunication, and information security was also very high, 84%. The number of students actually enrolling in this major was more than 61 thousand. Regarding vocational training, by 2022, there were 406 colleges and vocational schools providing IT training, accounting for nearly half of the number of colleges and vocational schools nationwide. Enrollment quota for vocational schools in IT in 2022 was nearly 63 thousand students. Thus, the total number of IT enrollment targets at intermediate, college and university levels in 2022 was 135,548, accounting for nearly 21% of the total number of high school graduates.

1. HUMAN RESOURCES LEVEL

Unit: %

No.	Indicator	2019	2020	2021	2022
1.1	Percentage of literate population aged 15 years and over	95.8	97.8	-	96.1
1.2	Percentage of elementary, middle and high school students				
1.2.1	Percentage of people attending primary school among people of primary school age	101	99.5	98.6	99.1
1.2.2	Percentage of people attending lower secondary school among people of lower secondary school age	92.8	95.6	94.1	95.6
1.2.3	Percentage of people attending high school among people of upper secondary school age	72.3	75.2	76.8	78.9

Note: "-" no data

Source: General Statistics Office of Viet Nam

2. TRAINING ON INFORMATION TECHNOLOGY, ELECTRONICS - TELECOMMUNICATIONS

2.1 Tertiary training

No.	Indicator	Unit	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
2.1.1	Total number of universities	University	237	237	242	242	239
2.1.2	Actual number of students enrolled in universities	Student	413,277	447,483	-	541,408	-
2.1.3	Total number of students studying in universities	Student	1,526,111	1,672,881	-	2,030,791	-
2.1.4	Total number of graduated students	Student	311,599	263,172	-	242,286	-
2.1.5	Number of universities which offer IT, electronics, telecommunications and information security training	University	149	158	158	168	165
2.1.6	Quota of enrollment for universities in IT, electronics, telecommunications and information security	Student	51,114	68,435	82,085	85,016	72,690

No.	Indicator	Unit	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
2.1.7	Percentage of universities which offer IT, electronics, telecommunications and information security training/Total number of universities	%	63.14	65.83	65	69.4	69.0
2.1.8	Actual rate of students enrolled in universities having IT, electronics, telecommunications and information security training	%	82	82	84	90.4	84.0

Note: "-" no data

Source: Ministry of Education and Training

2.2 Vocational training

No.	Indicator	Unit	2018	2019	2020	2021	2022
2.2.1	Total number of vocational training schools and colleges	College	909	863	854	846	848
2.2.2	Total quota of students enrolment in vocational training schools and colleges	Student	540,000	560,000	738,165	810,419	766,134
2.2.3	Actual number of students enrolled in vocational training schools and colleges	Student	545,000	568,000	580,000	490,000	393,263
2.2.4	Total number of graduated students	Student	440,000	494,000	510,000	375,000	253,016
2.2.5	Total number of vocational training schools and colleges offering IT, electronics, telecommunications and information security training	College	412	442	442	520	416
2.2.6	Total quota of students enrolment in vocational training schools and colleges offering IT, electronics, telecommunications and information security training	%	12.53	9.54	7.7	10.06	8.21
2.2.7	Percentage of vocational training schools and colleges offering IT, electronics, telecommunications and information security training/ Total number of vocational training schools and colleges	%	45.32	51.22	51.7	61.46	49.06

Source: General Department of Vocational Education - Ministry of Labor, War Invalids and Social Affairs



LEGAL DOCUMENTS, STRATEGIES, PLANS, PROGRAMS AND PROJECTS ON ICT



1. POST

1.1 Law

- Law on Post (No. 49/2010/QH12) dated June 17th, 2010

1.2 Decree

- Decree No. 25/2022/ND-CP dated April 12th, 2022 of the Government amending and supplementing a number of articles of the Government's Decree No. 47/2011/ND-CP dated June 17, 2011 stipulating and detailing the implementation of a number of contents of the Law of Post.

- Decree No. 14/2022/ND-CP dated January 14th, 2022 of the Government to amend and supplement several provisions of Decree No. 15/2020/ND-CP on penalties for administrative violations in the fields of postal services, telecommunications, radio frequency, information technology and electronic transactions and Decree No. 119/2020/ND-CP on penalties for administrative violations in journalistic and publishing activity.

- Decree No. 15/2020/ND-CP dated February 03rd, 2020 of the Government on penalties for administrative violations in the fields of postal services, telecommunications, radio frequency, information technology and electronic transactions

- Decree No. 150/2018/ND-CP dated November 07th, 2018 of the Government amending some decree related to business investment conditions and administrative procedures in the information and communication sector.

- Decree No. 47/2011/ND-CP dated June 17th, 2011 of the Government providing the detailing implementation of some content of the Law on Post.

1.3 Prime Minister's Decisions

- Decision No. 37/2021/QĐ-TTg dated December 18th 2021 on the postal network serving Party and State agencies.

- Decision No. 45/2016/QĐ-TTg dated October 19th, 2016 on receipt of dossiers and return of results of settlement of administrative procedures via public postal service.

- Decision No. 45/2015/QĐ-TTg dated September 24th, 2015 promulgating the provision of public postal services and public services in press publishing.

- Decision No. 41/2011/QĐ-TTg dated August 03rd, 2011 providing the appointment of enterprises to maintain and manage the public post network, the provision of public postal services, the international postal service.

2. TELECOMMUNICATION

2.1 Law

- Law on Telecommunications (No. 41/2009/QH12) dated November 23rd, 2009
- Law on Radio Frequency (No. 42/2009/QH12) dated November 23rd, 2009
- Law amending and supplementing a number of articles of the Law on Radio Frequency (No. 09/2022/QH15) dated November 09th, 2022.
- Law on Telecommunications (No. 24/2023/QH15) dated November 24th, 2023.⁽⁶⁾

2.2 Decree

- Decree No. 63/2023/ND-CP dated August 18th, 2023 of the Government detailing a number of articles of the Law on Radio Frequency No. 42/2009/QH12, amended and supplemented with a number of articles according to Law No. 09/2022/QH15.

- Decree No. 14/2022/ND-CP dated January 14th, 2022 of the Government amending and supplementing a number of articles of Decree No. 15/2020/ND-CP dated February 3rd, 2020 of the Government regulating Penalties for administrative violations in the fields of postal, telecommunications, radio frequencies, information technology and electronic transactions and Decree No. 119/2020/ND-CP dated October 07th, 2020 of the Government regulations on sanctions for administrative violations in journalistic and publishing activities.

- Decree No. 15/2020/ND-CP dated February 03rd, 2020 on penalties for administrative violations against regulations in postal, telecommunication, radio frequency, information technology and electronic transaction services.

- Decree No. 150/2018/ND-CP dated November 07th, 2018 on amendments to some decrees related to business investment conditions and administrative procedures in the information and communication sector.

- Decree No. 27/2018/ND-CP dated March 01st, 2018 on amendments to Government's Decree No. 72/2013/ND-CP dated July 15th, 2013 on management, provision and use of internet services and online information.

- Decree No. 49/2017/ND-CP dated April 24th, 2017 providing amendments to article 15 of the Government's decree No. 25/2011/ND-CP dated April 06th, 2011 elaborating and guiding the implementation of the law on telecommunications, and article 30 of the Government's decree No. 174/2013/ND-CP dated November 13th, 2013 on penalties for administrative violations in posts, telecommunications, information technology and radio frequency sectors.

- Decree No. 81/2016/ND-CP dated July 01st, 2016 on amending and supplementing a number of articles of the Government's decree No. 25/2011/ND-CP dated April 06th, 2011 detailing and guiding the implementation of a number of articles of the Law on telecommunications.

⁽⁶⁾ Law on Telecommunications (No. 24/2023/QH15) dated November 24th, 2023 takes effect from July 01st, 2024.

- Decree No. 72/2013/ND-CP dated July 15th, 2013 on management, provision and use of internet services and online information
- Decree No. 25/2011/ND-CP dated April 06th, 2011 guiding to implement a number of articles of the law on telecommunications.

2.3 Prime Minister's Decision

- Decision No. 08/2023/QD-TTg dated April 05th, 2023 on specialized data transmission networks serving Party and State agencies.
- Decision No. 38/2021/QD-TTg dated December 29th, 2021 amending and supplementing a number of articles of the Prime Minister's Decision No. 71/2013/QD-TTg dated November 21st, 2013 promulgate the National Plan on radio frequency spectrum, which is amended and supplemented with a number of articles under the Prime Minister's Decision No. 02/2017/QD-TTg dated January 17th, 2017.
- Decision No. 16/2021/QD-TTg dated March 30th, 2021 on bidding and transfer of use right of telecommunication number storage and internet domain name.
- Decision No. 71/2013/QD-TTg dated November 21st, 2013 promulgating the national radio spectrum planning.
- Decision No. 45/2012/QD-TTg dated October 23rd, 2012 providing the criteria for identifying important telecommunications projects related to national security.
- Decision No. 55/2011/QD-TTg dated October 14th, 2011 promulgating a list of telecommunications service providers with network infrastructure in which the state holds dominating shares or capital contributions.
- Decision No. 155/2008/QD-TTg dated December 01st, 2008 approving the plan to adjust charges for local fixed-line telephone services.
- Decision No. 60/2008/QD-TTg dated May 02nd, 2008 regarding the management and use of information mobile devices.

3. INFORMATION TECHNOLOGY INDUSTRY, INFORMATION TECHNOLOGY APPLICATION AND DIGITAL TRANSFORMATION

3.1 Law

- Law on Information Technology (No. 67/2006/QH11) dated June 29th, 2006.
- Law on E-Transaction (No. 51/2005/QH11) dated November 29th, 2005.
- Law on E-Transaction No. 20/2023/QH15 dated June 22nd, 2023⁽⁷⁾.

⁽⁷⁾ Law on E-Transaction (No. 20/2023/QH15) takes effect from July 01st, 2024

3.2 Decree

- Decree No. 59/2022/ND-CP dated September 05th, 2022 of the Government providing for electronic identification and authentication.
- Decree No. 42/2022/ND-CP dated June 24th, 2022 of the Government providing for the provision of online public information and services by state agencies in the network environment.
- Decree No. 14/2022/ND-CP dated January 14th, 2022 of the Government to amend and supplement several provisions of Decree No. 15/2020/ND-CP on penalties for administrative violations in the fields of postal services, telecommunications, radio frequency, information technology and electronic transactions and Decree No. 119/2020/ND-CP on penalties for administrative violations in journalistic and publishing activity.
- Decree 85/2021/ND-CP dated September 25th, 2021 of the Government amending and supplementing a number of articles of the Government's Decree No. 52/2013/ND-CP dated May 16th, 2013 on e-transactions.
- Decree No. 47/2020/ND-CP dated April 09th, 2020 of the Government on management, connection and share of digital data of regulatory agencies.
- Decree No. 45/2020/ND-CP dated April 08th, 2020 on administrative procedures by electronic means.
- Decree No. 15/2020/ND-CP dated February 03rd, 2020 of the Government on penalties for administrative violations against regulations in postal, telecommunication, radio frequency, information technology and electronic transaction services.
- Decree No. 73/2019/ND-CP dated September 05th, 2019 of the Government on the management of investment in information technology application using by the state budget.
- Decree No. 165/2018/ND-CP dated December 24th, 2018 on e-transactions in financial operations.
- Decree No. 150/2018/ND-CP dated November 07th, 2018 of the Government amendments some decree related to business investment conditions and administrative procedures in the information and communication sector.
- Decree No. 130/2018/ND-CP dated September 27th, 2018 of the Government on guidelines for of the law on e-transactions of digital signatures and digital signature authentication.
- Decree No. 08/2018/ND-CP dated January 15th, 2018 of the Government amending a number of Decrees related to business investment conditions under the state management of the Ministry of Industry and Trade.

- Decree No. 154/2013/ND-CP dated November 08th, 2013 of the Government on the information technology park.

- Decree No. 52/2013/ND-CP dated June 09th, 2013 of the Government on e-commerce.

- Decree No. 71/2007/ND-CP dated May 03rd, 2007 of the Government detailing and guiding the implementation of a number of articles of the Law on Information Technology regarding information technology industry.

- Decree No. 64/2007/ND-CP dated April 10th, 2007 of the Government on information technology application in the operations of state agencies' operations.

- Decree No. 35/2007/ND-CP dated March 08th, 2007 of the Government on banking e-transactions.

3.3 Prime Minister's Decision

- Decision No. 20/2020/QĐ-TTg dated July 22nd, 2020 on electronic identification of agencies and organizations serving data connection and sharing with ministries, branches, localities.

- Decision No. 31/2019/QĐ-TTg dated October 09th, 2019 providing the import of goods on the list of used information technology products banned from import for scientific research, and the processing or repair of goods on the list of used information technology products banned from import for foreign traders to sell abroad.

- Decision No. 28/2018/QĐ-TTg dated December 07th, 2018 on sending and receiving electronic documents between agencies in the state administrative system.

- Decision No. 18/2016/QĐ-TTg dated May 06th, 2016 on circumstances that enable importation of used information technology products under import prohibition.

4. INFORMATION SECURITY

4.1 Law

- Law on Cyber Information Security (No. 86/2015/QH13) date November 19th, 2015

- Law No. 35/2018/QH14 dated November 20th, 2018 amending and supplementing a number of articles of 37 laws related to planning.

4.2 Decree

- Decree No. 32/2023/ND-CP dated June 09th, 2023 of the Government amending and supplementing Decree No. 53/2018/ND-CP dated April 16th, 2018 of the Government amending and supplementing Decree No. Decree No. 58/2016/ND-CP dated July 01st, 2016 of the Government detailing the trading of civil cryptography products and services and the export and import of civil cryptography products.

- Decree No. 59/2022/ND-CP dated September 05th, 2022 of the Government providing for electronic identification and authentication.

- Decree No. 14/2022/ND-CP to amend and supplement several provisions of Decree No. 15/2020/ND-CP on penalties for administrative violations in the fields of postal services, telecommunications, radio frequency, information technology and electronic transactions and Decree No. 119/2020/ND-CP on penalties for administrative violations in journalistic and publishing activity.

- Decree No. 91/2020/ND-CP dated August 14th 2020 on fighting spam messages, spam emails and spam calls.

- Decree No. 15/2020/ND-CP dated February 03rd, 2020 on penalties for administrative violations against regulations in postal, telecommunication, radio frequency, information technology and electronic transaction services.

- Decree No. 130/2018/ND-CP dated September 27th, 2018 detailing the Law on E-Transactions regarding digital signatures and digital signature certification services.

- Decree No. 53/2018/ND-CP dated April 15th, 2018 on amendments to the Government's Decree No. 58/2016/ND-CP dated July 01st, 2016 on the sale and provision of civil cryptography products and services and the exportation or importation of civil cryptography products.

- Decree No. 142/2016/ND-CP dated October 14th, 2016 promulgating the prevention of online information conflicts.

- Decree No. 108/2016/ND-CP dated July 01st, 2016 on detailing conditions for provision of cybersecurity products and services.

- Decree No. 85/2016/ND-CP dated July 01st, 2016 on the security of information systems by classification.

- Decree No. 58/2016/ND-CP dated July 01st, 2016 on the sale and provision of civil cryptography products and services and the exportation or importation of civil cryptography products.

4.3 Prime Minister's Decision

- Decision No. 05/2017/QD-TTg dated March 16th, 2017 promulgating regulations on the system of emergency response plans to ensure national network information security.

5. PRESS AND COMMUNICATIONS

5.1 Law

- Law on Press (No. 103/2016/QH13) dated April 05th, 2016.

- Law on Publication (No. 19/2012/QH13) dated November 20th, 2012.

- Law No. 35/2018/QH14 dated November 20th, 2018 of the National Assembly amendments to some articles concerning planning of 37 laws.

5.2 Decree

- Decree No. 72/2022/ND-CP dated October 04th, 2022 of the Government amending and supplementing a number of articles of Decree No. 60/2014/ND-CP dated June 19th, 2014 of the Government regulating on printing activities and Decree No. 25/2018/ND-CP dated February 28th, 2018 of the Government amending and supplementing a number of articles of Decree No. 60/2014/ND-CP dated June 19th, 2014 of the government regulates printing activities.

- Decree No. 71/2022/ND-CP of the Government dated October 01st, 2022 of the Government amending and supplementing a number of articles of Decree No. 06/2016/ND-CP dated January 18th, 2016 of the Government Government on management, provision and use of radio and television services.

- Decree No. 14/2022/ND-CP of the Government dated January 01st, 2022 to amend and supplement several provisions of Decree No. 15/2020/ND-CP of the Government dated February 15th, 2020 on penalties for administrative violations in the fields of postal services, telecommunications, radio frequency, information technology and electronic transactions and Decree No. 119/2020/ND-CP date October 07th, 2020 on penalties for administrative violations in journalistic and publishing activity.

- Decree No. 70/2021/ND-CP dated July 20th, 2021 of the Government amending Government's Decree No. 181/2013/ND-CP dated November 14th, 2013 on elaboration of some articles of the Law on advertising.

- Decree No. 119/2020/ND-CP dated October 07th, 2020 on penalties for administrative violations in journalistic and publishing activities.

- Decree No. 150/2018/ND-CP dated November 07th, 2018 amendments some decree related to business investment conditions and administrative procedures in the information and communication sector.

- Decree No. 27/2018/ND-CP dated March 01st, 2018 of the Government on amendments to the government's decree No. 72/2013/ND-CP dated July 15th, 2013 on the management, provision, use of internet services and online information.

- Decree No. 25/2018/ND-CP dated February 28th, 2018 of the Government amending and supplementing a number of articles of the Government's decree No. 60/2014/ND-CP of June 19th, 2014, prescribing printing activities.

- Decree No. 09/2017/ND-CP dated February 09th, 2017 of the Government detailing the making of statements and provision of information by state administrative agencies to the press.

- Decree No. 08/2017/ND-CP dated February 08th, 2017 of the Government prescribing electronic legal deposit of audio press, visual press and online press works independently from press agencies.

- Decree No. 06/2016/ND-CP dated January 16th, 2016 of the Government on management, provision and use of radio and television services.

- Decree No. 72/2015/ND-CP dated September 07th, 2015 of the Government on management of external information activities.
- Decree No. 65/2015/ND-CP dated August 07th, 2015 of the Government amending and supplementing some articles of the Decrees provisions on penalty for administrative violations in the state management related to acts of wrong information posting, distributing, provided, disclosure.
- Decree No. 60/2014/ND-CP dated June 19th, 2014 of the Government prescribing printing activities.
- Decree No. 18/2014/ND-CP dated March 14th, 2014 of the Government prescribing the regime of royalties in the field of press and publication.
- Decree No. 195/2013/ND-CP dated November 21st, 2013 of the Government detailing a number of articles of, and measures for implementing, the Publication Law.
- Decree No. 72/2013/ND-CP dated July 15th, 2013 of the Government on the management, provision, use of internet services and online information.
- Decree No. 88/2012/ND-CP dated October 23rd, 2012 of the Government regulation on activities of information and press of foreign press, foreign representative agency and organizations in Viet Nam.

5.3 Prime Minister's Decision

- Decision No. 52/2016/QD-TTg dated December 06th, 2016 of the Government promulgating the regulation on grassroots information activities.
- Decision No. 45/2015/QD-TTg dated September 24th, 2015 of the Government on provision of public postal services and public services in press distribution.

6. MASTER PLANS, STRATEGIES, PLANS, PROGRAMS AND PROJECTS ON ICT

6.1. Strategies, master plans and plans for information technology industry development, information technology application and digital transformation

- Approved National Digital Transformation Day (Decision No. 505/QD-TTg dated April 22nd, 2022 of the Prime Minister).
- Approved the Project "Raising awareness, universalizing skills and developing national digital transformation human resources to 2025, with a vision to 2030" (Decision No. 146/QD-TTg dated January 21st, 2020 of the Prime Minister).
- National strategy on development of digital economy and digital society to 2025 with orientation to 2030 (Decision No. 411/QD-TTg dated March 31st, 2022 of the Prime Minister).
- Proposal on development of the application of population data, identification and electronic authentication for national digital transformation in the period of 2022-2025, with a vision to 2030 (Decision No. 06/QD-TTg dated January 06th, 2022 of the Prime Minister).

- National strategy for development of e-government towards digital government for 2021-2025 with orientations towards 2030 (Decision No. 942/QĐ-TTg dated June 15th, 2021 of the Prime Minister).

- Infrastructure planning of Information and Communications for 2021-2030 with a vision to 2050 (Decision No. 1532/QĐ-TTg dated October 8th, 2020 of the Prime Minister).

- Number of policies on the nation's proactive involvement in the Fourth Industrial Revolution (Resolution No. 52-NQ/TW on September 27th, 2019 of Politbureau).

- National strategy for information development to 2025, orientation to 2030 (Decision No. 1497/QĐ-TTg dated November 08th, 2018 of the Prime Minister).

- The plan for development of external information systems at international border checkpoints in service of external information tasks by 2020 with vision towards 2030 (Decision No. 273/QĐ-TTg dated March 06th, 2018 of the Prime Minister).

- Project on strengthen the operation of the incident rescue network, strengthen the capacity of officials and departments in charge of rescuing the nationwide information security incidents network to 2020, orientations to 2025 (Decision No. 1622/QĐ-TTg dated October 25th, 2017 of the Prime Minister).

- The plan of action for development of electronics industry in implementation of Viet Nam industrialization strategy within the framework of Viet Nam - Japan cooperation through 2020, with a vision toward 2030 (Decision No. 1290/QĐ-TTg dated August 01st, 2014 of the Prime Minister).

- National strategy on information development to 2025, vision to 2030 (Decision No. 1497/QĐ-TTg dated November 8th, 2018 of the Prime Minister).

- Master plan on development of information technology parks up to 2020 and orientation to 2025 (Decision No. 2407/QĐ-TTg dated December 31st, 2014 of the Prime Minister).

6.2 National programs and projects on ICT

6.2.1. Information technology industry, information technology application and digital transformation

- The project for improvement of the efficiency of grassroots information based on information technology application (Decision No. 135/QĐ-TTg dated January 20th, 2020 of the Prime Minister).

- National Program for digital transformation by 2025 with orientation towards 2030 (Decision No. 749/QĐ-TTg dated June 03rd, 2020 of the Prime Minister).

- The Government's action program to implement the Politburo's Resolution No. 52-NQ/TW dated September 27th, 2019 on a number of guidelines and policies to actively participate in the Fourth Industrial Revolution (Resolution No. 50/NQ-CP dated April 17th, 2020 of the Government).

- Target program on information technology industry development to 2020, vision to 2025 (Decision No. 392/QĐ-TTg dated March 27th, 2015).
- Master plan for socio-economic development of the key economic region of the Mekong delta to 2020, orientation towards 2030 (Decision No. 2470/QĐ-TTg dated December 31st, 2014)
- Consolidating and renaming the National Committee on E-Government (Decision No. 1619/QĐ-TTg dated September 24th, 2021 of the Prime Minister).

6.2.2 Telecommunication, Frequency, Internet, Broadcasting and Electronic Information

- Strategy for digital transformation of press to 2025, orientation to 2030 (Decision No. 348/QĐ-TTg dated April 06th, 2023 of the Prime Minister).
- National program to provide universal telecommunication services by 2025 (Decision No. 2269/QĐ-TTg dated December 31st, 2021 of the Prime Minister).
- Pilot implementation of telecommunication accounts for payment of low value commodities and services (Decision No. 316/QĐ-TTg dated March 09th, 2021 of the Prime Minister).
- National planning of radio frequency spectrum (Decision No. 71/2013/QĐ-TTg dated November 21st, 2013, Decision No. 02/2017/QĐ-TTg dated January 17th, 2017 of the Prime Minister).
- National planning on press development and management up to 2025 (Decision No. 362/QĐ-TTg dated April 03rd, 2019 of the Prime Minister).
- Planning the external press system to 2020, with orientation to 2030 (Decision No. 2434/QĐ-TTg dated December 13th, 2016 of the Prime Minister).
- Planning on development of publishing, printing and distribution of publications up to 2020, with a vision to 2030 (Decision No. 115/QĐ-TTg dated January 16th, 2014 of the Prime Minister).
- Proposal on Information and propaganda on digitization of terrestrial television transmission and broadcasting (Decision No. 891/QĐ-BTTTT dated July 07th, 2013 of the Prime Minister).
- Proposal on development of a number of national foreign print and electronic newspapers of Vietnam News Agency (Decision No. 1669/QĐ-TTg dated October 31st, 2017 of the Prime Minister).
- Objectives, tasks, solutions to innovate and improve the capacity of external information work in the construction of a border of peace, friendship, cooperation and development (Decision No. 1191/QĐ-TTg dated August 05th, 2020).
- Proposal on organization of information for disaster prevention and control at sea (Decision No. 137/2007/QĐ-TTg dated August 21st, 2007).

- Proposal on strengthening communication activities on tourism (Decision No. 44/QD-TTg dated January 09th, 2019).

- Proposal on propaganda on traffic safety on mass media and basic information systems for the period of 2020-2025 (Decision No. 1317/QD-TTg dated August 28th, 2020).

- Proposal on renewal of the implementation of the single-window, one-stop-shop mechanism in handling administrative procedures (Decision No. 468/QD-TTg dated March 27th, 2021).

- Strategy on Postal development by 2025 and orientation to 2030 (Decision No. 654/QD-TTg dated May 30th, 2022 of the Prime Minister).

- Promulgating the List of public service services using state budget in the field of information and communications (Decision No. 1265/QD-TTg dated August 18th, 2020 of the Prime Minister).

6.2.3. Information Security

- Proposal on acceleration of the operation of the incident response network, to strengthen the capacity of officers and departments in charge of responding to cyber information security incidents nationwide until 2020, with a vision to 2025 (Decision No. 1622/QD-TTg dated October 25th, 2017 of the Prime Minister).

- Proposal on monitoring network information security for information technology systems and services serving the e-Government until 2020, with a vision to 2025 (Decision No. 1017/QD-TTg dated August 14th, 2018 of the Prime Minister).

- Proposal on propaganda, awareness raising and dissemination of knowledge about information security in the period of 2021 - 2025 (Decision No. 1907/QD-TTg dated November 23rd, 2020 of the Prime Minister).

- Proposal on training and developing information security human resources in the period of 2021 - 2025" (Decision No. 21/QD-TTg dated January 6th, 2021 of the Prime Minister).

- Strategy of National Cybersecurity and Safety, proactively responding to challenges from cyberspace by 2025, with a vision to 2030 (Decision No. 964/QD-TTg dated August 10th, 2022 of the Prime Minister).

- Promulgating a list of critical areas that must be given top priority to ensure the security information and critical national information systems (Decision No. 632/QD-TTg dated May 10th, 2017 of the Prime Minister).

- Promulgating the List of public service services using state budget in the field of information and communications (Decision No. 1265/QD-TTg dated August 18th, 2020 of the Prime Minister).



INTERNATIONAL COOPERATION



1. MEMBERSHIP IN INTERNATIONAL AND REGIONAL ORGANIZATIONS

1.1 State membership in inter-governmental specialized international and region organization

- Universal Postal Union (UPU)

Website: www.upu.int

- Asia-Pacific Postal Union (APPU)

Website: www.appu-bureau.org

- International Telecommunication Union (ITU)

Website: www.itu.int

- Asia-Pacific Telecommunication Union (APT)

Website: www.apt.int

- International Telecommunications Satellite Organization (ITSO)

Website: www.itso.int

- Association of Southeast Asian Nations (ASEAN)

Website: www.asean.org

1.2 Member of professional organizations and associations

- Internet Corporation for Assigned Names and Numbers (ICANN)

Website: www.icann.org

- Global Forum on Emergency Response and Cybersecurity (FIRST)

Website: www.first.org

- Asia Pacific Network Information Center (APNIC)

Website: www.apnic.net

- Asia-Pacific Computer Emergency Response Team (APCERT)

Website: www.apcert.org

- Asia-Oceania Computing Industry Organization (ASOCIO)

Website: www.asocio.org

- Asia Public Key Infrastructure Consortium (APKIC)

Website: www.asiapki.org

- Fast IDentity Online Alliance (FIDO)

Website: www.fidoalliance.org

2. RECENT MAJOR EVENTS ORGANIZED IN VIET NAM IN 2022

- Viet Nam International Digital week 2022 and related events;
- The 3rd ASEAN Conference on v5 5G;
- ASEAN Forum on Digital Management;
- ASEAN Forum on anti-fake news and cybersecurity;
- 2022 Viet Nam - Japan Digital Transformation Forum with the theme “Digital transformation for a inclusive digital society”;
- 2022 Korea - Viet Nam Digital Forum with the theme “Digital transformation solutions in manufacturing industries”;
- Partnership Forum on digital development and skills: Digital skills for community;
- Partnership Forum on digital development and skills: Development and connectivity towards digital partnership with Japan;
- Program for connectivity seminar and study visits in Da Nang on digital transformation and smart cities.

3. MAJOR INTERNATIONAL COOPERATION ACTIVITIES IN 2022

3.1. Bilateral cooperation

Bilateral cooperation with countries and economies around the world continued to make important contributions to the implementation of key tasks across all sectors of the industry, including postal, telecommunications, IT industry, application and development. use of IT and information and propaganda.

In 2022, the Ministry of Information and Communications signed 06 international cooperation documents under the authority of the Ministry and 09 international cooperation documents at the departmental level under the Ministry.

In 2022, international cooperation activities were implemented and restored after the Covid-19 pandemic, contributing to promoting bilateral cooperation in the fields of information and communications.

3.2 Multilateral cooperation

Viet Nam continued to be an active and responsible member country in international organizations specialized in information and communication such as UPU, ITU, APPU, APT, ICANN, APEC, ASEAN, FIRST, APCERT, CAMP, ICANN, IGF, APNIC.

Viet Nam has been proactively, actively and responsibly in participating in research, discussion with the members to develop a set of criteria and methods to evaluate the

new ICT Development Index (IDI) by ITU, Global Cybersecurity Index (GCI) by ITU, and e-Government Development Index (EGDI) by ITU.

Viet Nam successfully held the position of Co-Chair of Committee 4 on Postal Financial Services, Postal Operations Council (POC) of the UPU for the 2022-2025 term; Successfully organized the 52nd International Letter-Writing Competition for Young People in 2023 (UPU). At this competition, Dao Khuong Duy, a student from Ben Tre province, won the third international prize of the UPU.

The Ministry of Information and Communications continues to actively, proactively participate in the APEC Working Group on Information and Communications Technology (APECTEL). Currently, Viet Nam has been assigned as the 2nd Vice President of the Security and Trust Steering Group (STSG) in APECTEL.

3.3. International economic integration in the field of information and communication

The Ministry of Information and Communications coordinated with the Ministry of Industry and Trade to actively participate in negotiating free trade agreements (FTAs), especially commitments on digital economy and trade including telecommunications, information technology, and digital infrastructure as well as in negotiating free trade agreements such as the FTA between ASEAN and Canada, CEPA between Viet Nam and the UAE, negotiations to upgrade the FTA between ASEAN and China.

The Ministry of Information and Communications was assigned to chair negotiations on the Digital Economy Chapter in the Indo-Pacific Economic Framework (IPEF) for prosperity - one of the inter-regional international legal issues aimed at prosperity and sustainable, safe, resilient supply chains. This upon IPEF's expectations will be added to Viet Nam's Foreign Affairs Strategy and bring benefits to its members especially Viet Nam./

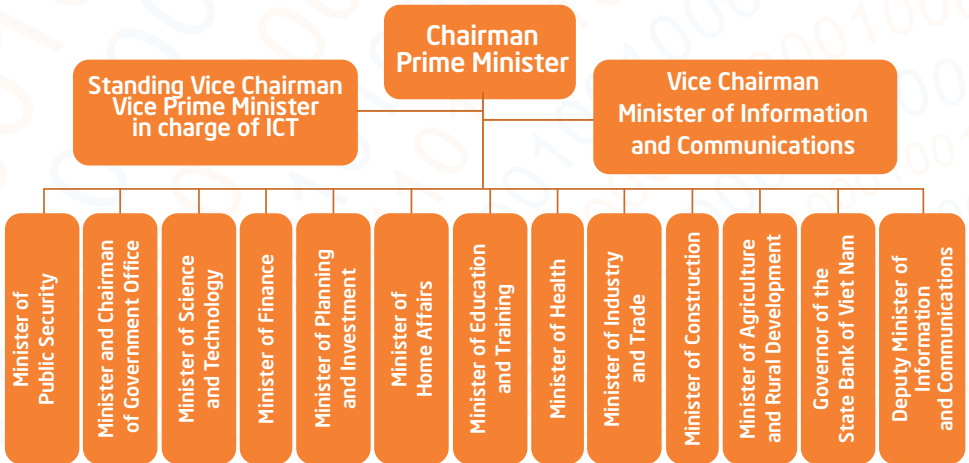


AGENCIES, ORGANIZATIONS ON ICT



1. NATIONAL COMMITTEE OF DIGITAL TRANSFORMATION

1.1 Organization structure (Decision No. 1619/QĐ-TTg dated September 24th, 2021)



XI

1.2 Functions and duties

The Committee has the functions and tasks specified in Article 2 of Decision No. 1619/QĐ-TTg dated September 24th, 2021 of the Prime Minister, specifically as follows:

1. Functions

Research and propose to the Government, Prime Minister and help the Government, Prime Minister to implement guidelines, strategies, mechanisms and policies to create a legal environment to promote the national digital transformation closely linked with administrative reform; building and developing e-Government, digital government, digital economy, digital society and smart city; facilitate the implementation of the Fourth Industrial Revolution in Viet Nam.

2. Mission

- Research and propose to the Government and Prime Minister directions and solutions to solve problems in the implementation of guidelines, strategies, mechanisms and policies to promote the process of national digital transformation, closely associated with administrative reform; building and developing e-Government, digital government, digital economy, digital society and smart city; facilitate the implementation of the Fourth Industrial Revolution in Viet Nam.

- Giving opinions on strategies, programs, mechanisms, policies, schemes and projects related to digital transformation; building and developing e-Government, digital government, digital economy, digital society and smart city under the decision-making authority of the Government and Prime Minister.

- Help the Government and Prime Minister direct ministries, branches and localities to implement digital transformation goals, tasks and solutions, build and develop e-Government, digital government and digital economy, digital society and smart city; coordinate the implementation of interdisciplinary strategies, programs, mechanisms, policies, schemes, projects and solutions on digital transformation, building and developing e-government,

digital government, digital economy, digital society and smart city; jointly coordinate the implementation of the National Digital Transformation Program; monitor and coordinate the implementation of relevant contents of the National Strategy on the Fourth Industrial Revolution to 2030.

- Help the Government and Prime Minister urge and inspect the implementation of strategies, programs, mechanisms, policies, schemes, projects and solutions of interdisciplinary nature on digital transformation, building , develop e-Government, digital government, digital economy, digital society and smart city; to urge the implementation of the National Digital Transformation Program.

Preliminary and evaluation of the situation and results of implementation of key tasks and solutions on digital transformation; building and developing e-Government, digital government, digital economy, digital society and smart city.

- Perform other tasks at the request of the Government and the Prime Minister.

2. THE MINISTRY OF INFORMATION AND COMMUNICATIONS

2.1. Organizational structure



2.2 Main functions and duties

The Ministry of Information and Communications is an agency of the Government, performing the function of state management of the press; publish, print, release; radio and television; electronic information; News; external information; background information; Postal; telecommunication; radio frequency; information technology industry; IT applications; network information security; electronic transactions; national digital transformation and state management of public services in sectors and fields under the Ministry's state management. The Ministry of Information and Communications shall perform the functions, tasks and powers specified in the Government's Decree No. 48/2022/ND-CP dated July 26th, 2022.

Details can be found at the website of the Ministry of Information and Communications:
<http://mic.gov.vn/pages/thongtin/97876/chuc-nang-nhiem-vu-va-quyen-han.html>

2.3 Contact Information

Department of Posts

Address: 18 Nguyen Du, Hai Ba Trung, Ha Noi
 Tel: (84-24) 3822 6625
 Fax: (84-24) 3822 6954
 Email: vanthubuuchinh@mic.gov.vn

Department of Science and Technology

Address: 18 Nguyen Du, Hai Ba Trung, Ha Noi
 Tel: (84-24) 3943 7328
 Fax: (84-24) 3943 7328
 Email: vanthukhcn@mic.gov.vn

Department of Planning and Finance

Address: 18 Nguyen Du, Hai Ba Trung, Ha Noi
 Tel: (84-24) 3943 7077
 Fax: (84-24) 3822 8869
 Email: vanthukhtc@mic.gov.vn

Department of Digital Economy and Digital Society

Address: 18 Nguyen Du, Hai Ba Trung, Ha Noi
 Tel: (84-24) 3945 4461
 Email: vanthuqldn@mic.gov.vn

Department of International Cooperation

Address: 18 Nguyen Du, Hai Ba Trung, Ha Noi
 Tel: (84-24) 3943 0204
 Fax: (84-24) 3822 6590
 Email: vanthuhtqt@mic.gov.vn

Department of Legal Affairs

Address: 18 Nguyen Du, Hai Ba Trung, Ha Noi
 Tel: (84-24) 3943 7312
 Fax: (84-24) 3943 7313
 Email: vanthuphapche@mic.gov.vn

Department of Personnel and Organization

Address: 18 Nguyen Du, Hai Ba Trung, Ha Noi
 Tel: (84-24) 3943 1814
 Fax: (84-24) 3943 1814
 Email: vanthutccb@mic.gov.vn

Department of Inspectorate

Address: 18 Nguyen Du, Hai Ba Trung, Ha Noi
 Tel: (84-24) 3556 3852
 Fax: (84-24) 3556 3855
 Email: vanthuthanhtra@mic.gov.vn

Ministry Office

Address: 18 Nguyen Du, Hai Ba Trung, Ha Noi
 Tel: (84-24) 3943 5602
 Fax: (84-24) 3826 3477
 Email: tonghop@mic.gov.vn

Ministry Representative Office in Ho Chi Minh City

Address: 27 Nguyen Binh Khiem, District 1,
 Ho Chi Minh City
 Tel: (84-28) 3823 5404
 Fax: (84-28) 3822 2988
 Email: vanthucqddtphcm@mic.gov.vn

Ministry Representative Office in Da Nang City

Address: 42 Tran Quoc Toan, Hai Chau, Da Nang City
 Tel: (84-511) 389 7959
 Fax: (84-511) 389 7466
 Email: daiidianang@mic.gov.vn

Authority of Press

Address: 7 Yet Kieu, Hai Ba Trung, Ha Noi
 Tel: (84-24) 3944 6290
 Fax: (84-24) 3944 6287
 Email: vanthucucbaochi@mic.gov.vn

Authority of Broadcasting and Electronic Information

Address: 9th Floor, Building 115 Tran Duy Hung,
Cau Giay, Ha Noi
Tel: (84-24) 3944 8035
Fax: (84-24) 3944 8036
Website: www.abel.gov.vn

Authority of Publications, Printing and Distribution

Address: 10 Duong Thanh, Hoan Kiem, Ha Noi
Tel: (84-24) 3828 5697
Fax: (84-24) 3828 7738
Email: vanthucucxb@mic.gov.vn
Website: www.ppdvn.gov.vn

Authority of Grassroot Information

Address: 20th Floor, VNTA Building, 68 Duong
Dinh Nghe, Cau Giay, Ha Noi
Tel: (84-24) 3943 7140
Fax: (84-24) 3943 7167
Email: vanthutcs@mic.gov.vn

Authority of Foreign Information Service

Address: 9th Floor, Building 115 Tran Duy Hung,
Cau Giay, Ha Noi
Tel: (84-24) 3767 6666
Fax: (84-24) 3767 5959
Website: www.vietnam.vn

Viet Nam Telecommunication Authority (VNTA)

Address: VNTA Building, 6 Duong Dinh Nghe,
Cau Giay, Ha Noi
Tel: (84-24) 3943 6608
Fax: (84-24) 3943 6607
Website: www.vnta.gov.vn

Authority of Radio Frequency Management (RFD)

Address: Building 115 Tran Duy Hung, Cau Giay,
Ha Noi
Tel: (84-24) 3556 4919
Fax: (84-24) 3556 4930
Website: www.rfd.gov.vn

Viet Nam Digital Transformation Authority

Address: 20th Floor, VNTA building, 6 Duong
Dinh Nghe, Cau Giay, Ha Noi
Tel: (84-24) 3782 1766;
Fax: (84-24) 3537 8208
Website: www.vndx.gov.vn

Authority of Information Security

Address: 8th Floor, Building 115 Tran Duy Hung,
Cau Giay, Ha Noi
Tel: (84-24) 39436684; Fax: (84-24)
39436684
Website: www.ais.gov.vn/home.htm

Agency for Information and Communication Technology Industry

Address: 19th Floor, Building 115 Tran Duy
Hung St., Cau Giay, Ha Noi
Tel: (84-24) 3943 6404;
Fax: (84-24) 3943 6404
Email: vanthucntt@mic.gov.vn

Authority of Central Posts and Telecommunication

Address: Quan Hoa ward, Cau Giay, Ha Noi
Tel: (84) 80 41007;
Fax: (84) 80 41050
Website: www.cpt.gov.vn

National Institute of Information and Communications Strategy (NIICS)

Address: 8th Floor, Building 115 Tran Duy Hung,
Cau Giay, Ha Noi
Tel: (84-24) 3556 5328;
Fax: (84-24) 3556 7399
Website: www.niics.gov.vn

National Institute of Digital Technologies and Digital Transformation (NIDiT)

Address: 6th Floor, Building 115 Tran Duy Hung,
Cau Giay, Ha Noi
Tel: (84-24) 6656 6708;
Fax: (84-24) 3782 1632
Website: www.nisci.gov.vn

Information Center

Address: 18 Nguyen Du, Hai Ba Trung, Ha Noi
Tel: (84-24) 3556 3457;
Fax: (84-24) 3556 3458
Email: tt_tt@mic.gov.vn

Viet Nam Internet Network Information Center (VNNIC)

Address: 24th Floor, VNTA building, 6 Duong
Dinh Nghe, Cau Giay, Ha Noi
Tel: (84-24) 3556 4944;
Fax: (84-24) 3782 1462
Website: www.vnnic.vn

National Electronic Authentication Centre (NEAC)

Address: 7th Floor, Building 115 Tran Duy Hung, Cau Giay, Ha Noi
 Tel: (84-24) 3688 2333
 Website: www.neac.gov.vn

VietNamNet

Address: C'Land building, 156 Xa Dan, Dong Da, Ha Noi
 Tel: (84-24) 3772 2729;
 Fax: (84-24) 3772 2734
 Website: www.vietnamnet.vn

Information and Communications Journal

Address: 5th Floor, Building 115 Tran Duy Hung, Cau Giay, Ha Noi
 Tel: (84-24) 3773 7136;
 Fax: (84-24) 3773 7130
 Website: www.tapchibcv.t.gov.vn

Information and Communications Publishing House

Address: 6th Floor, Building 115 Tran Duy Hung, Cau Giay, Ha Noi
 Tel: (84-24) 3577 2139;
 Fax: (84-24) 3557 9858
 Website: www.nxbthongtintruyenthong.vn

Posts and Telecommunications Institute of Technology

Address: 122 Hoang Quoc Viet, Cau Giay, Ha Noi
 Tel: (84-24) 3756 2037
 Website: www.ptit.edu.vn

Information and Communications Public Management School

Address: 19th floor, VNTA building, 60 Duong Dinh Nghe, Cau Giay, Ha Noi
 Tel: (84-24) 3766 5959;
 Fax: (84-24) 3766 8994
 Website: www.ics.edu.vn

Information and Communications Technology College

Address: Phuc Diem, Bac Tu Liem, Ha Noi
 Tel: (84-24) 6686 1941;
 Fax: (84-24) 3765 5219
 Website: www.cdcnin.edu.vn

Viet Nam Public Utility Telecommunication Service Fund

Address: 4th Floor, Building 115 Tran Duy Hung, Cau Giay, Ha Noi
 Tel: (84-24) 3211 5343;
 Fax: (84-24) 3944 6769
 Website: www.vtf.gov.vn

Viet Nam Post Corporation

Address: No. 5 Pham Hung, My Dinh 2, Tu Liem, Ha Noi.
 Tel: 1900545481
 Website: www.vnpost.vn

VTC Multimedia Corporation

Address: 67B Ham Long, Hoan Kiem, Ha Noi.
 Tel: (84-24) 4450 1113
 Fax: (84-24) 4450 1100
 Website: www.vtc.org.vn

3. PROVINCIAL DEPARTMENTS OF INFORMATION AND COMMUNICATIONS

Departments of Information and Communications of provinces and centrally-run cities have organizational structure, functions and tasks specified in the Circular No. 11/2022/TT-BTTTT dated July 29th, 2022 of the Ministry.

3.1 Main functions and duties

Departments of Information and Communications are specialized agencies under the Provincial People's Committees with the function of advising and assisting the Provincial People's Committees in state management of the press; publish, print, release; broadcasting; electronic information; external information; grassroots information; postal; telecommunication; radio frequency; information technology industry; information technology applications; network information security; electronic transactions, local digital transformation.

3.2 Contact information

Department of Information and Communications of An Giang Province

Address: 01 Le Hong Phong, Long Xuyen,
An Giang
Tel: (84-296) 395 6898;
Fax: (84-296) 395 6898
Website: www.sotttt.angiang.gov.vn

Department of Information and Communications of Ba Ria - Vung Tau Province

Address: 198 Bach Dang, Ba Ria,
Ba Ria - Vung Tau
Tel: (84-254) 351 2223;
Fax: (84-254) 351 2224
Website: www.sotttt.baria-vungtau.gov.vn

Department of Information and Communications of Bac Lieu Province

Address: 16 Cu Chinh Lan, Bac Lieu city,
Bac Lieu
Tel: (84-291) 394 2555
Website: www.stttt.baclieu.gov.vn

Department of Information and Communications of Bac Kan Province

Address: 1 Phung Chi Kien, Bac Kan city,
Bac Kan
Tel: (84-209) 381 0198;
Fax: (84-209) 387 1064
Website: www.ict-backan.gov.vn

Department of Information and Communications of Bac Giang Province

Address: Hoang Van Thu boulevard,
Bac Giang city, Bac Giang
Tel: (84-204) 355 5996,
Fax: (84-204) 355 5995
Website: www.stttt.bacgiang.gov.vn

Department of Information and Communications of Bac Ninh Province

Address: 11A Ly Thai To, Bac Ninh city,
Bac Ninh
Tel: (84-203) 387 5555
Fax: (84-203) 387 5000
Website: www.stttt.bacninh.gov.vn

Department of Information and Communications of Ben Tre Province

Address: 45, Dong Khoi Boulevard,
Ben Tre city, Ben Tre
Tel: (84-275) 381 8103;
Fax: (84-275) 381 8104
Website: www.stttt.bentre.gov.vn

Department of Information and Communications of Binh Duong Province

Address: 14th A Tower, Provincial Concentration
Center, Binh Duong
Tel: (84-220) 384 2999;
Fax: (84-220) 384 2300
Website: www.stttt.binhduong.gov.vn

Department of Information and Communications of Binh Dinh Province

Address: 460 Tran Hung Dao, Quy Nhon city,
Binh Dinh
Tel: (84-256) 381 5519;
Fax: (84-256) 381 5517
Website: www.stttt.binhdinh.gov.vn

Department of Information and Communications of Binh Phuoc Province

Address: 14 National Highway, Dong Xoai,
Binh Phuoc
Tel: (84-271) 388 8207;
Fax: (84-271) 388 8201
Website: www.ict-binhphuoc.gov.vn

Department of Information and Communications of Binh Thuan Province

Address: 16 Cuong De, Phan Thiet city,
Binh Thuan
Tel: (84-252) 383 3500;
Fax: (84-252) 383 3501
Website: www.stttt.binhthuan.gov.vn

Department of Information and Communications of Ca Mau Province

Address: 284 Tran Hung Dao, Ca Mau city,
Ca Mau
Tel: (84-290) 356 7887;
Fax: (84-290) 356 7889
Website: www.sotttt.camau.gov.vn

Department of Information and Communications of Cao Bang Province

Address: 113 Cu str, Cao Bang, Cao Bang
 Tel: (84-206) 385 9818;
 Fax: (84-206) 385 9866
 Website: www.sotttt.caobang.gov.vn

Department of Information and Communications of Can Tho City

Address: 03A Nguyen Trai, Ninh Kieu, Can Tho city
 Tel: (84-292) 381 1502;
 Fax: (84-292) 381 1502
 Website: www.sotttt.cantho.gov.vn

Department of Information and Communications of Da Nang City

Address: 24th Floor, Administrative Center, 42 Tran Phu, Da Nang.
 Tel: (84-236) 384 0123;
 Fax: (84-236) 384 0124
 Website: www.tttt.danang.gov.vn

Department of Information and Communications of Dak Lak Province

Address: 8 Ly Thai To, Buon Ma Thuot city, Dak Lak
 Tel: (84-262) 3818 020;
 Fax: (84-262) 386 0008
 Website: www.stttt.daklak.gov.vn

Department of Information and Communications of Dak Nong Province

Address: 23-3 Boulevard, Gia Nghia, Dak Nong
 Tel: (84-261) 626 0215;
 Fax: (84-261) 626 0203
 Website: www.stttt.daknong.gov.vn

Department of Information and Communications of Dien Bien Province

Address: 10, Dien Bien Phu city, Dien Bien
 Tel: (84-215) 383 5666;
 Fax: (84-215) 383 5669
 Website: www.dic.gov.vn

Department of Information and Communications of Dong Nai Province

Address: B1 Apartment, Nguyen Ai Quoc Boulevard, Bien Hoa city, Dong Nai
 Tel: (84-251) 382 4841;
 Fax: (84-251) 382 7071
 Website: www.stttt.dongnai.gov.vn

Department of Information and Communications of Dong Thap Province

Address: 12 Tran Phu, Cao Lanh city, Dong Thap
 Tel: (84-277) 387 3999;
 Fax: (84-277) 387 3999
 Website: www.stttt.dongthap.gov.vn

Department of Information and Communications of Gia Lai Province

Address: 17 Tran Hung Dao, Pleiku city, Gia Lai
 Tel: (84-269) 371 7564;
 Fax: (84-269) 371 7564
 Website: www.tttt.gialai.gov.vn

Department of Information and Communications of Ha Giang Province

Address: 222 Nguyen Trai, Ha Giang city, Ha Giang
 Tel: (84-219)386 0986;
 Fax: (84-219) 386 0988
 Website: www.stttt.hagiang.gov.vn

Department of Information and Communications of Ha Nam Province

Address: Ly Thai To str, Phu Ly city, Ha Nam
 Tel: (84-226) 384 4999;
 Fax: (84-226) 384 4999
 Website: www.hanam.gov.vn/vi-vn/stttt

Department of Information and Communications of Ha Noi City

Address: 185 Giang Vo, Dong Da, Ha Noi
 Tel: (84-24) 3512 3536;
 Fax:(84-24) 3736 6617
 Website: www.ict-Ha Noi.gov.vn

Department of Information and Communications of Ha Tinh Province

Address: 66 Phan Dinh Phung, Ha Tinh city, Ha Tinh
 Tel: (84-239) 385 0288
 Website: www.ict-hatinh.gov.vn

Department of Information and Communications of Hai Duong Province

Address: 199 Nguyen Luong Bang, Hai Duong city, Hai Duong
 Tel: (84-220) 389 7350;
 Fax: (84-220) 389 7345
 Website: www.sotttt.haiduong.gov.vn

Department of Information and Communications of Hai Phong City

Address: 62 Vo Thi Sau, Ngo Quyen,
Hai Phong city
Tel: (84-225) 373 6907;
Fax: (84-225) 373 6907
Website: www.haiphong.gov.vn
sothongtintruyenthong

Department of Information and Communications of Hau Giang Province

Address: Dien Bien Phu, Vi Thanh city,
Hau Giang
Tel: (84-293) 358 1345;
Fax: (84-293) 358 1345
Website: www.tttt.haugiang.gov.vn

Department of Information and Communications of Ho Chi Minh City

Address: 59 Ly Tu Trong, Ho Chi Minh City.
Tel: (84-28) 3520 2727;
Fax: (84-28) 3520 2424
Website: www.ict-hcm.gov.vn

Department of Information and Communications of Hoa Binh Province

Address: Tran Hung Dao, Hoa Binh city,
Hoa Binh
Tel: (84-218) 3898 678;
Fax: (84-218) 3897 780
Website: www.sothongtin.hoabinh.gov.vn

Department of Information and Communications of Hung Yen Province

Address: Nguyen Luong Bang, Hung Yen,
Hung Yen
Tel: (84-221) 386 7089;
Fax: (84-221) 386 7090
Website: www.sotttt.hungyen.gov.vn

Department of Information and Communications of Khanh Hoa Province

Address: A1 Block, Khu Lien co, 01 Tran Phu,
Nha Trang city, Khanh Hoa
Tel: (84-258) 356 3531;
Fax: (84-258) 356 3530
Website: www.stttt.khanhhoa.gov.vn

Department of Information and Communications of Kien Giang Province

Address: 123-125 Nguyen Hung Son, Rach Gia
city, Kien Giang
Tel: (84-297) 392 1616;
Fax: (84-297) 392 1600
Website: www.stttt.kiengiang.gov.vn

Department of Information and Communications of Kon Tum Province

Address: 112E Ba Trieu, Kon Tum city, Kon Tum
Tel: (84-260) 391 5457;
Fax: (84-260) 391 2299
Website: www.stttt.kontum.gov.vn

Department of Information and Communications of Lai Chau Province

Address: 7th Floor, D building, Lai Chau
Administrative and Political Center,
Lai Chau, Lai Chau
Tel: (84-213) 379 1558;
Fax: (84-213) 379 1559
Website: www.sotttt.laichau.gov.vn

Department of Information and Communications of Lang Son Province

Address: 01 Mai The Chuan, Lang Son city,
Lang Son
Tel: (84-205) 381 4918;
Fax: (84-205) 381 4614
Website: www.langson.gov.vn/bcvt

Department of Information and Communications of Lao Cai Province

Address: Tran Hung Dao Boulevard,
Lao Cai city, Lao Cai
Tel: (84-214) 382 8666;
Fax: (84-214) 382 8667
Website: www.stttt.laocai.gov.vn/

Department of Information and Communications of Lam Dong Province

Address: 36 Tran Phu, Da Lat city, Lam Dong
Tel: (84-263) 354 1546;
Fax: (84-263) 354 1547
Website: www.stttt.lamdong.gov.vn

Department of Information and Communications of Long An Province

Address: 01A Huynh Viet Thanh, Tan An city, Long An
 Tel: (84-272) 382 4888,
 Fax: (84-272) 352 3567
 Website: www.stttt.longan.gov.vn

Department of Information and Communications of Nam Dinh Province

Address: 250 Hung Vuong, Nam Dinh city, Nam Dinh
 Tel: (84-228) 363 1115;
 Fax: (84-228) 363 1330
 Website: www.sotttt.namdinh.gov.vn

Department of Information and Communications of Nghe An Province

Address: 06 Le Hoan, Vinh city, Nghe An
 Tel: (84-238) 359 9522;
 Fax: (84-238) 359 9522
 Website: www.tttt.nghean.gov.vn

Department of Information and Communications of Ninh Binh Province

Address: 04 Pham Van Nghi, Ninh Binh city, Ninh Binh
 Tel: (84-229) 388 9238,
 Fax: (84-229) 388 9239
 Website: www.ttttninhbinh.gov.vn

Department of Information and Communications of Ninh Thuan Province

Address: 17 Nguyen Trai, Phan Rang city - Thap Cham, Ninh Thuan.
 Tel: (84-259) 392 0292;
 Fax: (84-259) 392 0292
 Website: www.ninhthuan.gov.vn/chinhquyen/sottt

Department of Information and Communications of Phu Tho Province

Address: Nguyen Tat Thanh, Viet Tri city, Phu Tho
 Tel: (84-210) 381 2494;
 Fax: (84-210) 381 1485
 Website: www.stttt.phutho.gov.vn

Department of Information and Communications of Phu Yen Province

Address: 10 Tran Phu, Tuy Hoa city, Phu Yen
 Tel: (84-257) 381 9958;
 Fax: (84-257) 381 9958
 Website: www.sotttt.phuyen.gov.vn/wps/portal/sotttt

Department of Information and Communications of Quang Binh Province

Address: 02 Huong Giang, Dong Hoi, Quang Binh
 Tel: (84-232) 384 4303;
 Fax: (84-232) 384 4456
 Website: www.stttt.quangbinh.gov.vn

Department of Information and Communications of Quang Nam Province

Address: 50 Hung Vuong, Tam Ky, Quang Nam
 Tel: (84-235) 381 1758;
 Fax: (84-235) 381 1759
 Website: www.dptqnam.gov.vn

Department of Information and Communications of Quang Ngai Province

Address: 118 Hung Vuong, Quang Ngai city, Quang Ngai
 Tel: (84-255) 371 1570;
 Fax: (84-255) 371 1577
 Website: www.stttt.quangngai.gov.vn

Department of Information and Communications of Quang Ninh Province

Address: Inter-agency Headquarters, 02 Nguyen Van Cu, Ha Long, Quang Ninh
 Tel: (84-203) 363 8468;
 Fax: (84-203) 363 8822
 Website: www.quangninh.gov.vn/vi-VN/So/sothongtintt

Department of Information and Communications of Quang Tri Province

Address: 51 Tran Hung Dao, Dong Ha city, Quang Tri
 Tel: (84-233) 355 4715;
 Fax: (84-233) 355 4711
 Website: www.quangtri-ict.gov.vn

Department of Information and Communications of Soc Trang Province

Address: 56 Le Duan, Soc Trang city, Soc Trang
 Tel: (84-299)362 1090;
 Fax: (84-299) 362 1171
 Website: www.sottrt.soctrang.gov.vn

Department of Information and Communications of Son La Province

Address: 20, Hoang Quoc Viet str, Son La city,
 Son La
 Tel: (84-212) 375 0983;
 Fax: (84-212) 375 0926
 Website : www.sottrt.sonla.gov.vn

Department of Information and Communications of Tay Ninh Province

Address: 06 Tran Quoc Toan, Tay Ninh, Tay Ninh
 Tel: (84-267) 382 4666;
 Fax: (84-267) 381 2878
 Website: www.sottrt.tayninh.gov.vn

Department of Information and Communications of Thai Binh Province

Address: 09 Tran Hung Dao, Thai Binh city,
 Thai Binh
 Tel: (84-227) 374 3787;
 Fax: (84-227) 374 3787
 Website: www.sottrt.thaibinh.gov.vn

Department of Information and Communications of Thai Nguyen Province

Address: 05 Nha Trang, Thai Nguyen city,
 Thai Nguyen
 Tel: (84-208) 365 5369;
 Fax: (84-208) 365 5336
 Website: www.sottrt.thainguyen.gov.vn/

Department of Information and Communications of Thanh Hoa Province

Address: 32 Le Loi Boulevard, Thanh Hoa city,
 Thanh Hoa
 Tel: (84-237) 371 3988;
 Fax: (84-237) 371 3985
 Website: www.stttt.thanhhoa.gov.vn

Department of Information and Communications of Thua Thien Hue Province

Address: 36 Pham Van Dong, Hue city,
 Thua Thien Hue
 Tel: (84-234) 388 2333;
 Fax: (84-234) 388 2444
 Website: www.stttt.thuathienhue.gov.vn

Department of Information and Communications of Tien Giang Province

Address: 02 Le Van Duyet, My Tho city,
 Tien Giang
 Tel: (84-273) 3888880;
 Fax: (84-273) 388 8881
 Website: www.stttt.tiengiang.gov.vn

Department of Information and Communications of Tra Vinh Province

Address: 06 Trung Nu Vuong, Tra Vinh city,
 Tra Vinh
 Tel: (84-294) 385 0856;
 Fax: (84-294) 385 0850
 Website: www.travinh.gov.vn

Department of Information and Communications of Tuyen Quang Province

Address: 274 Tan Trao, Tuyen Quang city,
 Tuyen Quang
 Tel: (84-207) 6251 858
 Website: www.stttttuyenquang.gov.vn

Department of Information and Communications of Vinh Long Province

Address: 35, 2-9 Road, Vinh Long city, Vinh Long
 Tel: (84-270) 383 6333;
 Fax: (84-270) 383 6444
 Website: www.stttt.vinhlong.gov.vn

Department of Information and Communications of Vinh Phuc Province

Address: 396 Me Linh, Vinh Yen, Vinh Phuc
 Tel: (84-211) 384 6464;
 Fax: (84-211) 384 6488
 Website: www.sottrt.vinhphuc.gov.vn

Department of Information and Communications of Yen Bai Province

Address: Group 55, Dong Tam ward, Yen Bai city,
 Yen Bai
 Tel: (84-216) 385 8959;
 Fax: (84-216) 385 8929
 Website: www.sottrt.yenbai.gov.vn

4. UNITS IN CHARGE OF ICT IN CENTRAL AGENCIES

Office of the Party Central Committee

Center for Cypher and IT

Address: 01A Hung Vuong, Ba Dinh, Ha Noi

Tel: (84) 8045 028

Office of National Assembly

Department of Informatics

Address: 22 Hung Vuong, Ba Dinh, Ha Noi

Tel: (84) 80 46206

Website: www.quochoi.vn

Office of the Government

Viet Nam Government Portal

Address: 16 Le Hong Phong, Ba Dinh, Ha Noi

Tel: (84) 80 43162

Fax: (84) 80 48924

Website: www.vpcp.chinhphu.vn

Ministry of National Defense

Authority of Information Technology

Address: 02 Nguyen Tri Phuong, Ba Dinh, Ha Noi

Website: www.mod.gov.vn

Ministry of Public Security

Authority of Information Technology

Address: 44 Yet Kieu, Hoan Kiem, Ha Noi

Tel: (84) 69 47801

Website: www.mps.gov.vn

Ministry of Foreign Affairs

Information Center

Address: 01 Ton That Dam, Ba Dinh, Ha Noi

Tel: (84-24) 3799 3721

Website: www.mofa.gov.vn

Ministry of Justice

Department of Information Technology

Address: 60 Tran Phu, Ba Dinh, Ha Noi

Tel: (84-24) 6273 9715

Fax: (84-24) 6273 9730

Website: www.cntt.botuphap.vn

Ministry of Finance

Department of Financial Informatics and Statistics

Address: 28 Tran Hung Dao, Hoan Kiem, Ha Noi

Tel: (84-24) 2220 2828

Fax: (84-24) 2220 8091

Website: www.mof.gov.vn

Ministry of Industry and Trade

Viet Nam E-Commerce and Information Technology Agency

Address: 25 Ngo Quyen, Hoan Kiem, Ha Noi

Tel: (84-24) 2220 5396

Fax: (84-24) 2220 5397

Website: www.vecita.gov.vn

Ministry of Labor - Invalids and Social Affairs

Information Center

Address: 12 Ngo Quyen, Hoan Kiem, Ha Noi

Tel: (84-24) 6270 3621

Fax: (84-24) 6270 3609

Website: www.molisa.gov.vn

Ministry of Transport

Information Technology Center

Address: 80 Tran Hung Dao, Hoan Kiem, Ha Noi

Tel: (84-24) 3942 4243

Fax: (84-24) 3822 1066

Website: www.mt.gov.vn

Ministry of Construction

Information Center

Address: 37 Le Dai Hanh, Hai Ba Trung, Ha Noi

Tel: (84-24) 3821 5137

Fax: (84-24) 3974 1709

Website: www.moc.gov.vn

Ministry of Information and Communications

Information Center

Address: 18 Nguyen Du, Hai Ba Trung, Ha Noi

Tel: (84-24) 3556 3457

Fax: (84-24) 3556 3458

Website: www.mic.gov.vn

Ministry of Education and Training

Authority of Information Technology

Address: 35 Dai Co Viet, Hai Ba Trung, Ha Noi

Tel: (84-24) 3869 5144

Fax: (84-24) 3869 3712

Website: www.e-ict.gov.vn

Ministry of Agriculture and Rural Development**Center for Digital Transformation and Agricultural Statistics**

Address: 02 Ngoc Ha, Ba Dinh, Ha Noi
 Tel: (84-24) 3734 1635
 Fax: (84-24) 3823 0381
 Website: www.mard.gov.vn

Ministry of Planning and Investment**Informatics Center**

Address: 6B Hoang Dieu, Ba Dinh, Ha Noi
 Tel: (84) 80 43485
 Fax: (84) 80 48473
 Website: www.mpi.gov.vn

Ministry of Home Affairs**Information Center**

Address: 08 Ton That Thuyet, Cau Giay, Ha Noi
 Tel: (84-24) 6282 1016
 Fax: (84-24) 6282 1020
 Website: www.moha.gov.vn

Ministry of Health**National Center for Health Information**

Address: Alley 135, Nui Truc, Ba Dinh, Ha Noi
 Tel: (84-24) 3736 8315
 Fax: (84-24) 3736 8319
 Website: www.ehealth.gov.vn

Ministry of Science and Technology**Information Technology Center**

Address: 113 Tran Duy Hung, Cau Giay, Ha Noi
 Tel: (84-24) 3943 9061
 Fax: (84-24) 3943 6706
 Website: www.ictc.most.gov.vn

Ministry of Culture - Sports and Tourism**Information Technology Center**

Address: 20, Alley 2, Hoa Lu, Van Ho, Hai Ba Trung, Ha Noi
 Tel: (84-24) 3974 5846
 Fax: (84-24) 3974 5846
 Website: www.cntt.gov.vn

Ministry of Natural Resources and Environment**Department of Digital Transformation and Natural Resources and Environment Data**

Address: 28 Pham Van Dong, Cau Giay, Ha Noi
 Tel: (84-24) 3754 8925
 Fax: (84-24) 3754 8925
 Website: www.dinte.gov.vn

Government Inspectorate**Information Center**

Address: Block D29, New Urban Area - Tran Thai Tong, Cau Giay, Ha Noi
 Tel: (84) 80 48114
 Website: www.thanhtra.gov.vn

The State Bank of Viet Nam**Authority of Information Technology**

Address: 64 Nguyen Chi Thanh, Ba Dinh, Ha Noi
 Tel: (84-24) 3834 3784
 Fax: (84-24) 3834 5180
 Website: www.sbv.gov.vn

Committee for Ethnic Minority Affairs**Digital Transformation Center**

Address: 349 Doi Can, Ba Dinh, Ha Noi
 Điện thoại: (84-24) 3823 1122
 Website: www.cema.gov.vn

Viet Nam Academy of Science and Technology**Center for Informatics and Computing**

Address: 18 Hoang Quoc Viet, Cau Giay, Ha Noi
 Tel: (84-24) 3791 6938; (84-24) 3791 4773
 Fax: (84-24) 3791 6938
 Website: www.cic.vast.vn

Viet Nam Academy of Social Sciences**Center for Information Technology Application**

Address: 01 Lieu Giai, Ba Dinh, Ha Noi
 Tel: (84-24) 6273 0552
 Fax: (84-24) 6273 0552
 Website: www.vass.gov.vn

State Audit Office of Viet Nam**Informatics Center**

Address: 111 Tran Duy Hung, Cau Giay, Ha Noi
 Tel: (84-24) 6282 2158
 Fax: (84-24) 6282 2159
 Website: www.sav.gov.vn

The Supreme People's Court**Informatics Center**

Address: 48 Ly Thuong Kiet, Hoan Kiem, Ha Noi
 Tel: (84-24) 6274 1133
 Website: www.toaan.gov.vn/portal/page/portal/tandtc/trungtaminhoc

The Supreme People's Procuracy of Viet Nam**Authority of Crime Statistics and Information Technology**

Address: 44 Ly Thuong Kiet, Hoan Kiem, Ha Noi
 Tel: (84-24) 3825 5058
 Website: www.vksndtc.gov.vn

5. ORGANIZATIONS AND ASSOCIATIONS ON ICT

Viet Nam Association for Information Processing (VAIP)

Address: 06th Floor, 14 Tran Hung Dao, Hoan Kiem, Ha Noi
 Tel: (84-24) 3821 1725
 Fax: (84-24) 3821 1708
 Website: www.vaip.org.vn

Viet Nam Software and Information Technology Services Association (VINASA)

Address: 11th Floor, Cung Tri Thuc Building, Tran Thai Tong, Cau Giay, Ha Noi
 Tel: (84-24) 3577 2336
 Fax: (84-24) 3577 2337
 Website: www.vinasa.org.vn

Viet Nam Electronic Industries Association (VEIA)

Address: 11th Floor, MIPEC TOWER Building, No. 229 Tay Son, Dong Da, Ha Noi
 Tel: (84-24) 933 2845
 Fax: (84-24) 3933 2846
 Website: www.veia.org.vn

Viet Nam Information Security Association (VNISA)

Address: No. 155 An Trach, Dong Da, Ha Noi
 Tel: (84-24) 6290 1028
 Website: www.vnisa.org.vn

Viet Nam Internet Association (VIA)

Address: 04th Floor, No. 82 Duy Tan, Cau Giay, Ha Noi
 Tel: (84-24) 3633 0355
 Fax (84-24) 3633 0481
 Website: www.via.org.vn

The Radio and Electronics Association of Viet Nam (REV)

Address: 02nd Floor, No. 57 Vu Thanh, Dong Da, Ha Noi
 Tel: (84-24) 6295 9849
 Fax: (84-24) 3512 3614
 Website: www.rev.org.vn

Viet Nam E-commerce Association (VECOM)

Address: Room 702, 07th Floor, HKC Building, No. 285 Doi Can, Lieu Giai, Ba Dinh, Ha Noi
 Tel: (84-24) 6278 4479
 Website: www.vecom.vn

Viet Nam Digital Communication Association (VDCA)

Address: 08th Floor, Nong thon ngay nay Building, 68 Duong Dinh Nghe, Yen Hoa, Cau Giay, Ha Noi
 Tel: (84-24) 3633 8833
 Fax: (84-24) 3633 9933
 Website: www.vdca.org.vn

Ho Chi Minh City Computer Association (HCA)

Address: 9th Floor, 224 Dien Bien Phu, Dist. 3, Ho Chi Minh City
 Tel: (84-28) 3932 0999
 Website: www.hca.org.vn

Ha Noi Association of Information and Communications Technology Association (HANICT)

Address: 98 Hoang Quoc Viet, Cau Giay, Ha Noi
 Tel: (84) 91633 2286
 Website: hanict.org.vn

Pay-TV Association of Viet Nam (VNPAYTV)

Address: 11th Floor, VTC Tower, 23 Lac Trung Street, Hai Ba Trung, Ha Noi
 Tel/Fax: (84-24) 3211 5993
 Website: vnpaytv.com.vn



XII ICT ENTERPRISE DEVELOPMENT



1. TOP 20 PROVINCES/CITIES LEADING IN THE NUMBER OF IT ENTERPRISES IN 2022

No.	Provinces/cities
1	Thai Nguyen
2	TP Ho Chi Minh
3	Ha Noi
4	Hai Phong
5	Bac Giang
6	Vinh Phuc
7	Bac Ninh
8	Dong Nai
9	Binh Duong
10	Hai Duong

No.	Provinces/cities
11	Ha Nam
12	Da Nang
13	Ninh Binh
14	Phu Tho
15	Hung Yen
16	Hoa Binh
17	Long An
18	Binh Phuoc
19	Can Tho
20	Nghe An

Source: General Department of Taxation and Reports from provinces

2. TOP 20 PROVINCES/CITIES LEADING IN REVENUE OF HARDWARE AND ELECTRONICS INDUSTRY IN 2022

No.	Provinces/cities
1	Thai Nguyen
2	Hai Phong
3	Bac Giang
4	Vinh Phuc
5	TP Ho Chi Minh
6	Ha Noi
7	Bac Ninh
8	Dong Nai
9	Binh Duong
10	Hai Duong

No.	Provinces/cities
11	Ha Nam
12	Ninh Binh
13	Phu Tho
14	Hung Yen
15	Hoa Binh
16	Da Nang
17	Long An
18	Binh Phuoc
19	Ba Ria - Vung Tau
20	Nghe An

Source: General Department of Taxation and Reports from provinces

3. TOP 20 PROVINCES/CITIES LEADING IN REVENUE OF SOFTWARE INDUSTRY IN 2022

No.	Provinces/cities
1	Ho Chi Minh City
2	Ha Noi
3	Da Nang
4	Bac Ninh
5	Binh Dinh
6	Khanh Hoa
7	Dong Nai
8	Long An
9	Hai Phong
10	Nghe An

No.	Provinces/cities
11	Ba Ria - Vung Tau
12	Tien Giang
13	Bac Giang
14	Thua Thien Hue
15	Thai Binh
16	Can Tho
17	Vinh Long
18	Lam Dong
19	Binh Duong
20	Thanh Hoa

Source: General Department of Taxation and Reports from provinces

4. TOP 20 PROVINCES/CITIES LEADING IN REVENUE OF IT SERVICE IN 2022

No.	Provinces/cities
1	Ha Noi
2	Ho Chi Minh City
3	Hai Phong
4	Thai Nguyen
5	Binh Duong
6	Bac Ninh
7	Dong Nai
8	Da Nang
9	Thua Thien Hue
10	Nghe An

No.	Provinces/cities
11	Ha Giang
12	Hai Duong
13	Tra Vinh
14	Gia Lai
15	Hung Yen
16	Thanh Hoa
17	Ba Ria - Vung Tau
18	Dak Lak
19	Binh Phuoc
20	Binh Dinh

Source: General Department of Taxation and Reports from provinces

5. TOP 20 PROVINCES/CITIES LEADING IN THE NUMBER OF IT ENTERPRISES IN 2022

No.	Provinces/cities
1	Ho Chi Minh City
2	Ha Noi
3	Da Nang
4	Binh Duong
5	Dong Nai
6	Bac Ninh
7	Hai Phong
8	Can Tho
9	Bac Giang
10	Khanh Hoa

No.	Provinces/cities
11	Nghe An
12	Thanh Hoa
13	Ba Ria - Vung Tau
14	Hai Duong
15	Quang Ninh
16	Vinh Phuc
17	Thua Thien Hue
18	Long An
19	An Giang
20	Hung Yen

Source: General Department of Taxation and Reports from provinces

6. TOP 20 PROVINCES/CITIES LEADING IN NUMBER OF IT EMPLOYEES IN 2022

No.	Provinces/cities
1	Ha Noi
2	Ho Chi Minh City
3	Bac Giang
4	Bac Ninh
5	Thai Nguyen
6	Vinh Phuc
7	Hai Phong
8	Binh Duong
9	Hai Duong
10	Da Nang

No.	Provinces/cities
11	Dong Nai
12	Ha Nam
13	Phu Tho
14	Hung Yen
15	Ninh Binh
16	Hoa Binh
17	Nghe An
18	Tien Giang
19	Long An
20	Ba Ria - Vung Tau

Source: General Department of Taxation and Reports from provinces

7. TOP 20 PROVINCES/CITIES LEADING IN IT EXPORT IN 2022

No.	Provinces/cities	No.	Provinces/cities
1	Thai Nguyen	11	Ha Nam
2	Hai Phong	12	Ninh Binh
3	Bac Giang	13	Phu Tho
4	Ho Chi Minh City	14	Hoa Binh
5	Vinh Phuc	15	Da Nang
6	Ha Noi	16	Hung Yen
7	Bac Ninh	17	Ba Ria - Vung Tau
8	Binh Duong	18	Long An
9	Hai Duong	19	Tien Giang
10	Dong Nai	20	Tra Vinh

Source: General Department of Taxation and Reports from provinces

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