

# Annual Report 2022

## Thai Network Information Center Foundation



มูลนิธิศูนย์สารสนเทศเครือข่ายไทย  
THAI NETWORK INFORMATION CENTER FOUNDATION

## Activities of Thai Network Information Center Foundation

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# Activities of Thai Network Information Center Foundation

## 1 Promote and facilitate domain name registration and database management

### 1.1 Review and update policies related to domain name registration

- 1.1.1 Domain name policy Subcommittee Meeting
- 1.1.2 Working Group Meeting to Review Policies and Practices for Domain Name Registration
- 1.1.3 Drafting revised version of the .th and .ไทย Domain Name Registration Policy, effective from 2022

### 1.2 Domain Name Database Management

THNIC Foundation has authorized Thai Name Server Co., Ltd. to serve as an official .th and .ไทย domain name registry. Thai Name Server Co., Ltd. has been managing the domain name maintenance for domain name registration data storage and data backup as well as providing DNS services. The company continuously adheres to accepted standards and follows news and recommendations for system improvement. In 2022, Thai Name Server Co., Ltd. received the ISO/IEC 27001:2013 Certificate No: IS 763878.

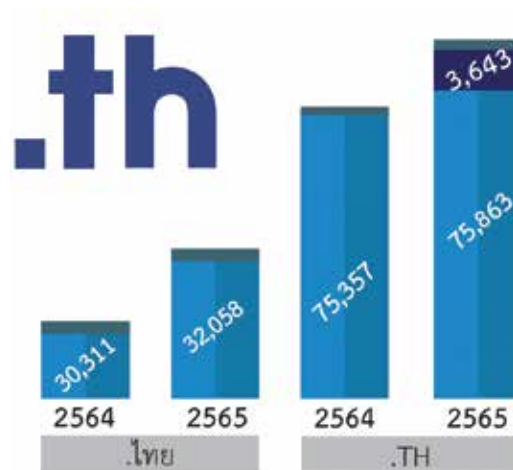


### 1.3 .th and .ไทย Domain Names Registration

THNIC Foundation has authorized T.H.NIC Co., Ltd. to serve as an official registrar responsible for .th and .ไทย domain names. T.H.NIC Co., Ltd. operates according to the criteria and policies of the foundation's Domain Name Policy Subcommittee.

In 2022, T.H.NIC Co., Ltd. processed domain name registrations, transfers and deletions as requested by registrants. The number of registered domain names increased to 533 for .th and 1,747 for .ไทย. As of the end of 2022, the number of registered IDN.th domain names was 3,643. (<https://thnic.co.th/stats>)

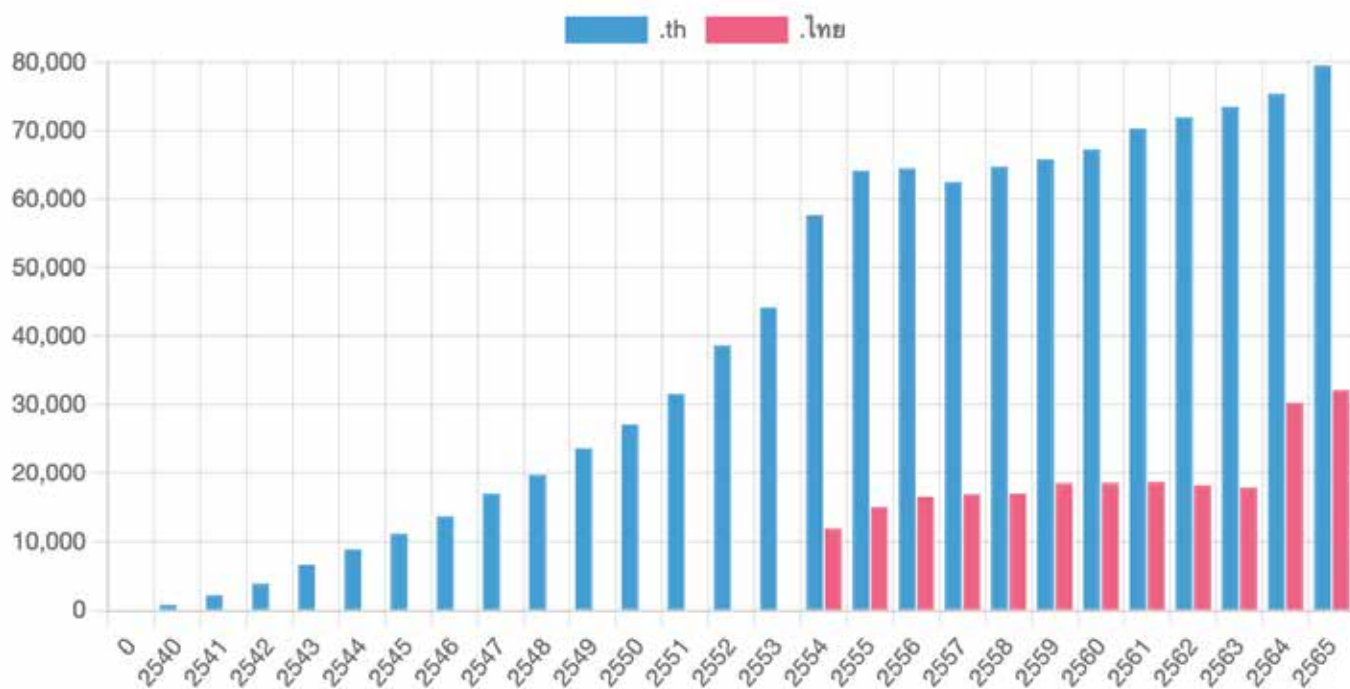
Additionally, premium IDN.th registrations were opened in 2022, which contributed to the increase in the number of IDN.th domain names.



▲ .th increased to 79,506

▲ .ไทย increased to 32,058

Table 1: .th and .ไทย Domains Statistics



ปี	เดือน	.ac.th ศึกษา.ไทย	co.th ธุรกิจ.ไทย	go.th รัฐบาล.ไทย	in.th ไทย	mi.th ทหาร.ไทย	net.th เน็ต.ไทย	or.th องค์กร.ไทย	IDN.th	SLD.th	รวม
2565	December	8,045	45,823	9,446	10,962	19	19	1,332	3,643	217	79,506
		4,021	15,378	6,500	5,568	11	8	536			32,058
2565	November	8,051	45,833	9,437	10,988	19	20	1,336	3,652	212	79,548
		4,066	15,431	6,482	5,581	11	9	538			32,153
2565	October	8,074	45,743	9,433	10,968	19	20	1,338	3,647	213	79,455
		4,078	15,389	6,468	5,570	11	9	540			32,099
2565	September	8,116	45,702	9,429	10,973	19	20	1,332	3,656	212	79,459
		4,133	15,411	6,462	5,579	11	9	537			32,176
2565	August	8,074	45,816	9,432	11,006	19	20	1,339	0	209	75,915
		4,122	15,624	6,443	5,644	11	9	537			32,424
2565	July	8,014	45,710	9,451	10,954	19	21	1,331	0	199	75,699
		4,111	15,613	6,434	5,652	11	9	529			32,393
2565	June	8,014	45,693	9,529	10,917	19	21	1,334	0	200	75,727
		4,123	15,580	6,437	5,681	11	9	530			32,371
2565	May	7,951	45,602	9,516	10,929	19	21	1,334	0	202	75,574
		4,089	15,429	6,420	5,682	11	9	528			32,168
2565	April	7,906	45,603	9,521	11,027	19	21	1,330	0	201	75,628
		4,044	15,349	6,390	5,706	11	9	525			32,034
2565	March	7,924	45,623	9,515	11,097	19	21	1,334	0	198	75,731
		4,036	15,271	6,365	5,730	11	9	527			31,949
2565	February	7,801	45,526	9,482	11,170	19	21	1,324	0	199	75,542
		3,987	15,047	6,291	5,729	11	9	522			31,596

## 1.4 .th Second-Level Domain Name (SLD) Project

In 2022, THNIC Foundation held 3 rounds of .th Second-Level Domain Name (SLD) registration with T.H.NIC Co., Ltd. as the registration operator.



Round	Date	Number of approved domain names
1/2022 (SLD#17)	1 February 2022 – 31 March 2022	5
2/2022 (SLD#18)	1 June 2022 – 31 July 2022	15
3/2022 (SLD#19)	1 October 2022 – 30 November 2022	9

## 1.5 Thai Business Promotion Project for Enhancing E-commerce Competitiveness



THNIC Foundation, in collaboration with the Department of Business Development, Ministry of Commerce; Thai Webmaster and Online Media Association; Thailand E-Commerce Association; Thai Digital Trade Association and Electronic Transactions Development Agency (ETDA), organized a project to promote Thai businesses' capabilities in e-commerce competition. This initiative encouraged

the use of domain names such as .co.th, online.th, or shop.th. Registered corporate entities or entrepreneurs with a DBD Registered trademark were eligible to apply for participation in the project. Participants received domain names ending in .co.th, .online.th, or shop.th, as well as a basic business website.

In the year 2022, training was conducted in collaboration with partner organizations. The training focused on providing a basic online marketing curriculum for businesses participating in the project. There were a total of nine topics covered, as follows:

### 1. Online Training on "Accelerating Online Store Creation with WooCommerce"

Event Date: February 24, 2022

Speaker: Mr. Chakkrin Talawat



### 2. Online Training on "Sales Boosting Strategies with Website Content in 2022"

Event Date: March 24, 2022

Speakers: Ms. Maytapriya Kumnuanwoot, Ms. Oravee Smithiphol and Mr. Inthanon Panyasopa



### 3. Online Training on "PDPA: Personal Data Protection Act Summary for Entrepreneurs"

Event Date: April 28, 2022

Speaker: Mr. Krithapon Srirasa



#### 4. Online Training on "Zavanna Sale Page: Helping Online Merchants Close Sales on a Single Page"

Event Date: June 23, 2022

Speaker: Ms. Wanwipa Boonphiset



#### 5. Online Seminar on "Knowing, Understanding, and Accessing Customers with Online Tools"

Event Date: July 21, 2022

Speakers: Mr. Nakamol Asawayonchai, Ms. Orawan Jitrassa and Mr. Inthanon Panyasopa



#### 6. Online Training on "Line OA Shortcut for Beginners"

Event Date: August 25, 2022

Speaker: Mr. Worawut Saibua



#### 7. Online Training on "Online Marketing from Basics to Professional Level"

Event Date: September 22, 2022

Speaker: Mr. Weera Chearanaipanit



#### 8. Online Training on "PDPA: Personal Data Protection Act Summary for Entrepreneurs"

Event Date: October 27, 2022

Speaker: Mr. Krithapon Srirasa



#### 9. Online Training on "Unveiling Tricks to Create Engaging Content that Generates Sales"

Event Date: November 24, 2022

Speaker: Ms. Tanaporn Mahattheeranangkun



## 1.6 Activities to promote the use of .th and .ไทย domain names

- Asst. Prof. Dr. Pimonpan Chainan, Faculty of Mass Communication, Chiang Mai University, was interviewed on the topic: Awareness and Acceptance of Thai Language Domain Name Usage by Internet Users, on the program "Meuang Baan Yarn Thin" aired on Chula Radioplus FM 101.5 M-2 on February 17, 2022, from 10:05 to 10:30 a.m. [Link to the radio program: <https://www.thnic.or.th/radio-demand-domain-thai/>]



- Dr. Pensri Arunwatanamongkol, executive director of the THNIC Foundation, participated in a discussion on Clubhouse titled "Domain Name System: The Heart of the Internet". The event was organized by the Thai IoT Association, and during the discussion, Dr. Pensri provided information on the importance of the domain name system in IoT and why domain names are crucial to the internet system. The conversation also highlighted the significance of developing domain name and email systems that support local languages such as Thai or Universal Acceptance. Several experts, including Dr. Monsak Socharoentum, Dr. Panita Pongpaibool, Mr. Chaya Limchitti and Mr. Sura Ganintanasilp, joined the discussion. The session was moderated by Dr. Rasmimarn Keawsrikul and took place on March 23, 2022.



- In collaboration with the National Press Council of Thailand, council members were invited to register domain names in the Thai language. There were a total of 28 council members who registered domain names with .ไทย and .in.th extensions. Additionally, the council began using a website under the domain name "สภาการสื่อมวลชนแห่งชาติ.ไทย".



- THNIC Foundation participated in an exhibition at the 41st WUNCA (Workshop on UniNet Network and Computer Application), which took place from 3 to 5 August 2022 at Rajamangala University of Technology Rattanakosin Wang Klai Kangwon Campus, Hua Hin district, Prachuap Khiri Khan.





- THNIC Foundation led by Dr. Pensri Arunwatanamongkol, executive director of the THNIC Foundation, and Dr. Wilas Chamlerwat, an online marketing expert and lecturer, along with others shared knowledge about bringing products to the online market using websites and domain names as well as lectured about online marketing from basic to professional levels. A workshop on creating online stores using Zavanna Sale Page was conducted by a group of local herbal soap and roasted chili paste with peanuts producers from Pak Nam Pran community and students from Pak Nam Pran Witthaya School, located in Pak Nam Pran sub-district, Prانبuri district, Prachuap Khiri Khan province, on August 30, 2022.



- Dr. Pensri Arunwatanamongkol and Mr. Anawin Pongsaboripat jointly provided knowledge on the topic "How to Create a Website" to Master degree students in Knowledge and Innovation Managementn progra, College of Arts, Media and Technology, Chiang Mai University (KIM CAMT Alumni 2022) on December 11, 2022.



- THNIC Foundation promoted Thai language domains through print media and .ไทย websites for the community, including the publication "เมืองเก่าไชยปราการ.ไทย" and "ย่านเมืองเก่าเชียงใหม่.ไทย" as well as handed over the website "ย่านเมืองเก่าเชียงใหม่.ไทย" to the community. Currently, THNIC Foundation supports and maintains a total of 16 community websites.



- THNIC Foundation created awareness about .th and .ไทย domains through continuous promotion on online social media platforms such as the Facebook Page "ดอทไทย" (dotthai) and the website "รู้จัก.ไทย" .



- THNIC Foundation prmoted .th through an event supporting a seminar on "Electronic and Electrical Waste Management" organized by the Thai-Australian Technological Services Center on June 10, 2022.



- THNIC Foundation promoted .th through a donation to the College of Music, Mahidol University, to support the Thai Philharmonic Orchestra in their European tour.



## 2 Supporting research and development related to the internet in Thailand

THNIC Foundation provided support for the organization of the academic conference, AINTEC, held on December 14-16, 2022.



## 3 Development of human resources to have knowledge and competency in internet technology

THNIC Foundation provided knowledge-sharing activities and hands-on training in internet technology through the THNIC Academy's activities.

## 4 Advice about internet development in Thailand



Mr. Chaya Limchitti presented the topic, "Understanding Domain Name Systems for Safer Cyber Exploration", at the 21st Cyber Security Knowledge Sharing Seminar on the topic, "DNS (Domain Name System): Answer for fraud prevention", on September 7, 2022.

## 5 Cooperation with government agencies, academic institutions, private organizations and other internet organizations



- The "Thai Business Promotion Project for Enhancing E-commerce Competitiveness" presented at the "Thailand e-Commerce Expo 2022", organized by the Department of Business Development, Ministry of Commerce, on July 7, 2022



- "Thai Business Promotion Project for Enhancing E-commerce Competitiveness". Participated in the "e-Commerce Platform Sharing" event organized by the Department of Business Development, Ministry of Commerce, on July 25, 2022
- Member of working group to establish a centralized blockchain system for managing electronic documents at the Electronic Transactions Development Agency (ETDA).



- THNIC Foundation signed a Memorandum of Understanding (MoU) with the Department of Intellectual Property and World Intellectual Property Organization (WIPO) to enhance cooperation in the development of best practices and relevant procedures for the online protection of intellectual property under the .th and .ไทย domain names.

## 6 Coordinate and cooperate with international internet organizations

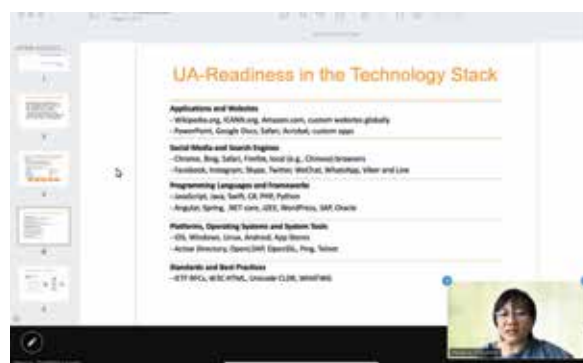
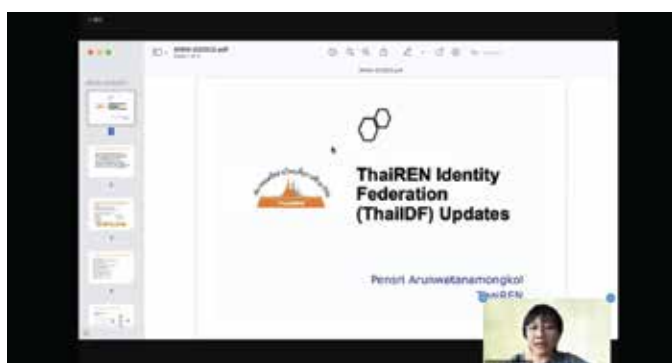
Participated in conferences and served as a speaker in collaboration with ICANN, APTLD and APAN53



- “THNIC updated Thailand UA Readiness” ICANN73 session



- APTLD81Outreach



- APAN53: On March 7, 2022, Dr. Pensri Arunwatanamongkol, executive director of the THNIC Foundation, was a speaker at APAN53. She discussed the importance of developing systems that allow domain names and email addresses to support local languages, such as the Thai language, or Universal Acceptance. She also emphasized the significance of using email for personal verification. In her presentation, Dr. Pensri provided recommendations, including promoting the importance of developing systems for Universal Acceptance.



- ICANN75: THNIC Foundation was invited by the Universal Acceptance Steering Group (UASG) to participate in the ICANN75 conference. Mr. Anawin Pongsaboripat, assistant director of the THNIC Foundation, represented THNIC Foundation as a delegate and served as a speaker in the session titled "Driving Local Change for UA Adoption Globally". The session aimed to present and exchange perspectives on driving the UA project for local languages in each country. Mr. Anawin presented the development of local language UA projects in Thailand, including the Thai language domain name (.ไทย) and Thai language email address (@คน.ไทย). A panel discussion included representatives from various countries, including China, Russia, India and Thailand.

Additionally, Dr. Pensri Arunwatanamongkol, executive director of the THNIC Foundation, also spoke at the "ccNSO and Universal Acceptance" session. The ICANN75 conference took place from September 17-22, 2022, in Kuala Lumpur, Malaysia. (Source: <https://75.schedule.icann.org/>)



- APNIC54 conference in Singapore

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Enhance public knowledge and understanding of the internet, domain names and internet technologies



- Disseminated information on Internet technology on the website <https://wiki.thnic.or.th>

### แนวทางกำกับดูแลเทคโนโลยีปัญญาประดิษฐ์ในประเทศไทย

ณ ๑๓ กุมภาพันธ์ ๒๕๖๖ โดย นวรัตน์

ผู้เขียน: ดร.บม. บุษมินทร์ บุตรอินทร์ และ นวรัตน์ ไชยบัง



- Published article on "Guidelines for Supervising Artificial Intelligence Technology in Thailand" by Assoc. Prof. Dr. Bhumindr Butr-indr and Mr. Sirawat Chaibang

- Donated funds for the procurement of educational materials and equipment for the Thailand Philharmonic Orchestra



- Received donation of 4 EV batteries from the B-Quick for Society Foundation, presented by Mr. Henk Johan Kicks, CEO, and Ms. Busararat Assaratanakul, B-Quick Co., Ltd CEO. The donation was presented at the B-Quick Co., Ltd. Company headquarters and will be used for solar cell equipment in research for the stability of the CWMN network service in the Net2Home project.



- Received donation of 31 used servers and 31 decommissioned servers that are still in good working condition from Metrabyte Cloud Co., Ltd. The donation was presented by Mr. Pantawat Artsirimanachai, Managing Director of Metabyte Cloud Co., Ltd. The donated servers will be used by the foundation for various projects, research and social activities that the foundation operates or is involved in.



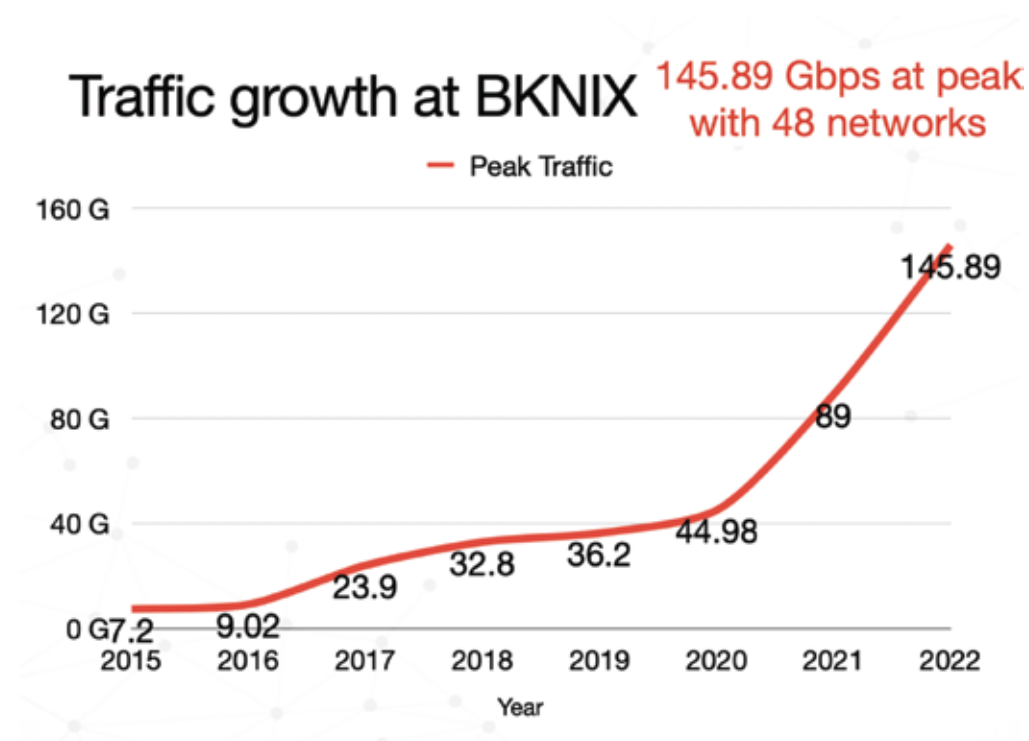
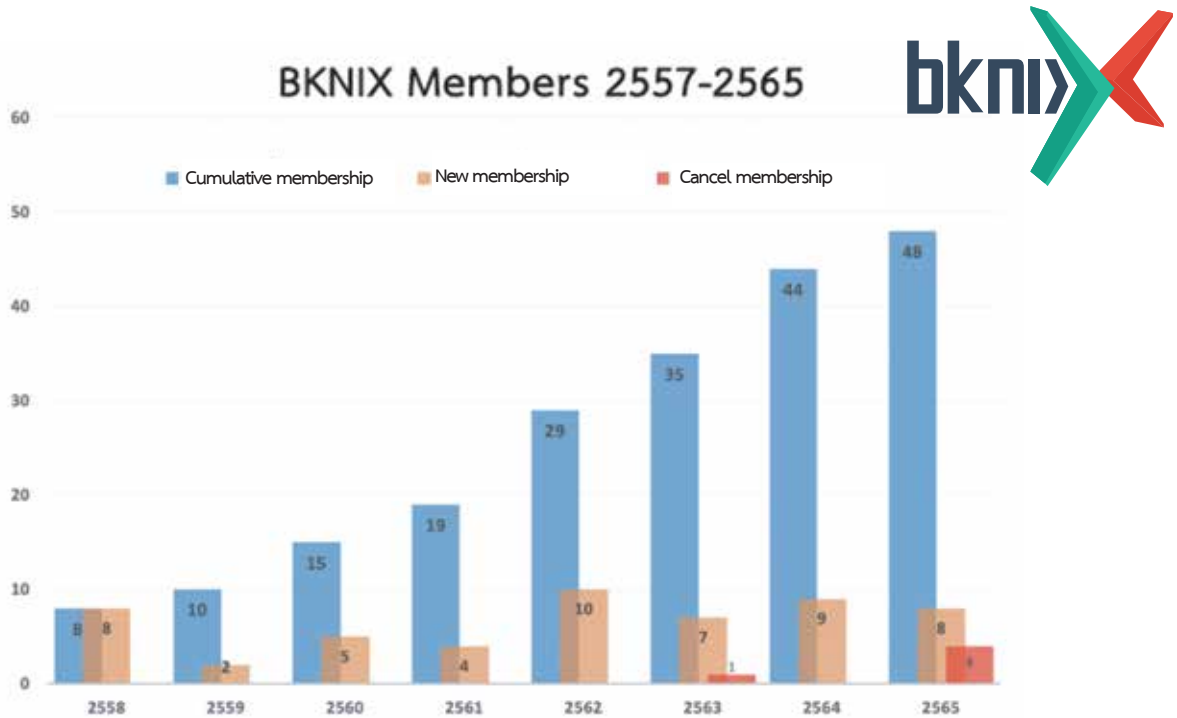
- Received a donation of 6 laptops from T.H.NIC Co., Ltd.
- Received a donation of 10 laptops from Thai Name Server Co., Ltd.
- Received a donation of 5 desktop computers with monitors and 5 laptops from Marigot Jewellery (Thailand) Co., Ltd.
- Received a donation of 9 laptops, 9 sets of ATK examination kits, 26 jackets, and 10 sets of Siladaondan glasses from MBK Guarantee Co., Ltd.
- THNIC Foundation donated computer equipment and various items to Maeramatwitthayakhom School in Tak Province to support the student computer lab project.



# Activities of BKNIX

## Member of Internet Information Exchange Center in 2022

THNIC foundation has authorized BKNIX Co., Ltd. to manage and develop the Internet Information Exchange Center to provide services. Currently, there are 48 ASNs connected to the center with a maximum traffic of 145.89 Gbps.





# Activities of Net2Home

## 1. Current operation areas

Mae Kasa Subdistrict, Mae Sot District, Tak Province • Includes Moo 1, 2, 3, 4, 5, 6, 9, 10, 11, 12, 14, 15, and 16

Mae Ku Subdistrict, Mae Sot District, Tak Province • Includes Moo 8

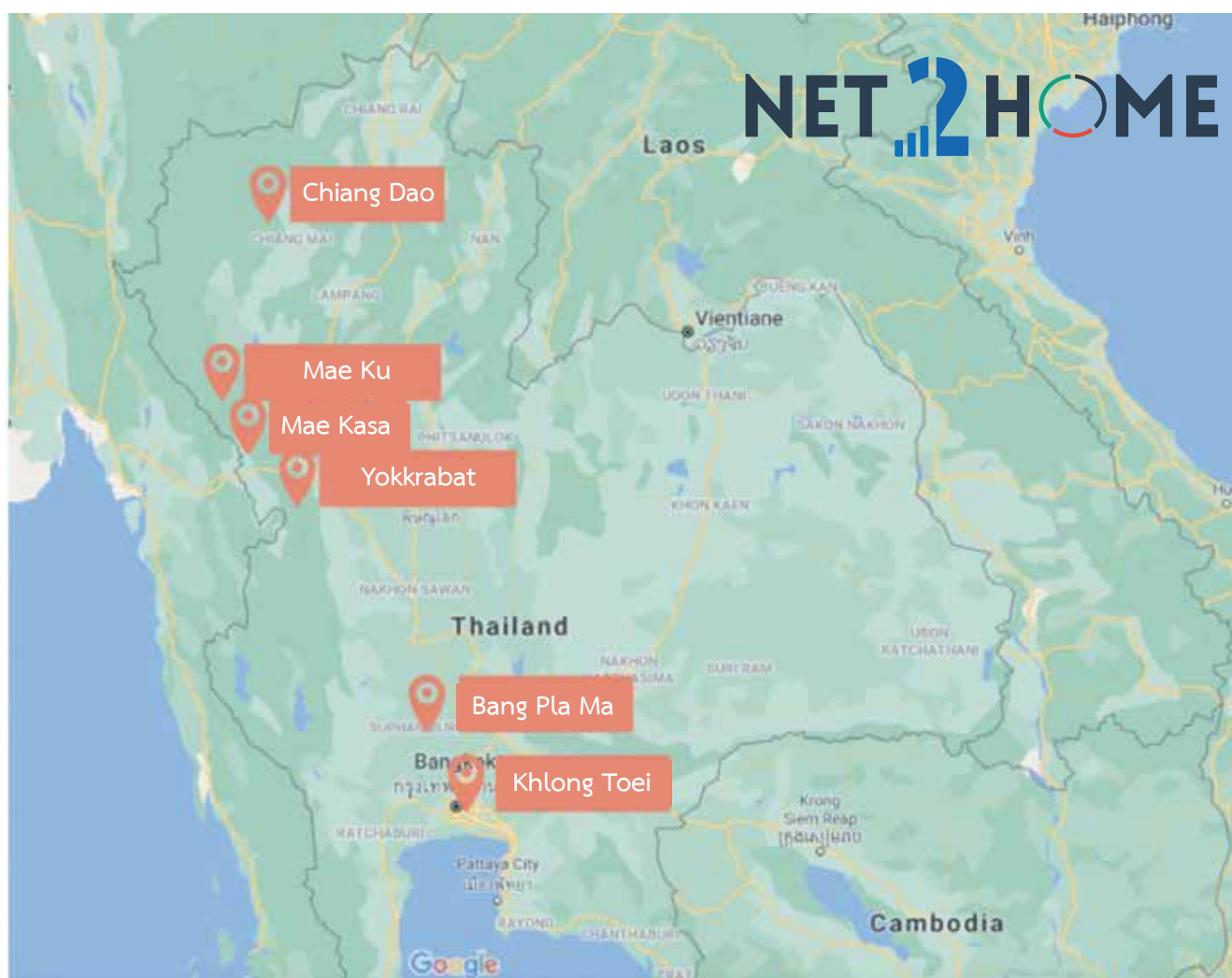
Chiang Dao Subdistrict, Chiang Dao District, Chiang Mai Province • Includes Moo 16

Makhamlom Subdistrict, Bang Pla Ma District, Suphan Buri Province • Includes Moo 6 and 10

Watbost Subdistrict, Bang Pla Ma District, Suphan Buri Province • Includes Moo 9

Khlong Toei District, Bangkok • Covers the Rom Klao community.

Yokkrabat Subdistrict, Sam Ngao District, Tak Province • Includes Moo 12



## 2. Membership expansion

Active Sites: 48 active sites

Total Membership: 376 households as listed below:

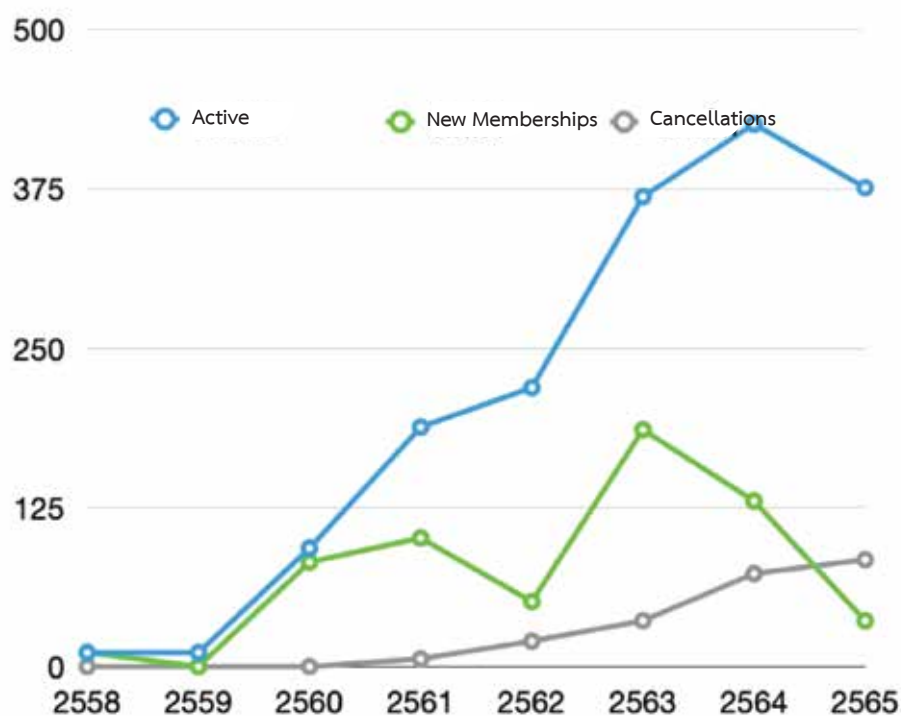
Mae Kasa Subdistrict, Mae Sot District, Tak Province	289 households
Mae Ku Subdistrict, Mae Sot District, Tak Province	7 households
Bang Pla Ma District, Suphan Buri Province	41 households
Chiang Dao District, Chiang Mai Province	8 households
Khlong Toei District, Bangkok	24 households
Yokkrabat Subdistrict, Sam Ngao District, Tak Province	7 households

In 2022, there were additional installations and changes in membership

Additional Sites: 2 new sites

New Memberships: 36 households

Cancellations: 84 households



# Activities of THNIC Academy

Human resources development activities to enhance knowledge and expertise in internet technology under the THNIC Academy.

## 1. Baengpun Camp

The 3rd Baengpun Camp: High school and Vocational Certificate (Voc. Cert.) students from schools within Tak Province participated in the activity that took place from July 28 to 31 and August 12 to 14, 2022. There were 28 participants in the Hackathon activity who competed in creating 5 websites: ตลาดแม่สอด.ไทย ตลาดวินเทจ.ไทย กาดโหล้งต้าไทย and ตะลุยตากกาดนั้งยอง.ไทย.



## 2. Training at THNIC Academy, Tak Province

- Computational Thinking for Middle school students held on December 4, 2021 - February 28, 2022.



- Computational Thinking & Programming Skill for high school, Vocational Certificate (Voc. Cert.) and Diploma/High Vocational Certificate (Dip./High Voc. Cert.) students held on March 25 - April 3, 2022.



- Computational Thinking Workshop for teachers and educational personnel affiliated with the Office of Basic Education Commission, Tak Area Educational Service Area 1 (OBEC Tak Area 1), Tak Municipality, and Maeramatwitthayakhom School, held on May 4 - 6, 2022.



- Problem-Oriented Programming training course with scholarship opportunities for high school and Vocational Certificate (Voc. Cert.) students in Tak province, held on October 14-16 and October 23-24, 2565.



- Network Training for Technicians on Internet Network Systems held on November 24-25, 2022.



### 3. Routing Infrastructure and Security Operations Workshop

- Routing Infrastructure and Security Operations Workshop held on May 25-27, 2022.



### 4. Human resources development in internet technology under the Thailand Universal Acceptance Local Initiative project, which received financial support from ICANN.

- THNIC Foundation supported the "Botnoi Chatbot Mara-Hackathon 2022" competition, which encouraged participants and developers to create chatbots that meet business needs, including the ability to understand and support Thai language domains and emails. The teams "THE FUTURABLE," "dy/dx," "Code Cool," "JAPPP!," "My beloved job," "วัยรุ่งนมนมพง," "Athena," "พารวย," "ปิดเทอมว่างมากๆ," and "DevFinite" successfully developed chatbots that recognize and support Thai language domains and emails. Prizes were provided by the THNIC Foundation. The event took place on April 25, 2022.



- An article, “The importance and necessity of Internationalized Domain Names (IDN) and Email Address Internationalization (EAI) as well as the development of systems to support Thai language domain names and emails” was published by Tecktalkthai through various channels such as websites and Facebook.

- The website, "รู้จัก.ไทย" by KhongPangKhongKwan: Codind Competition clip, a coding challenge! Faster means winning!”, was promoted on the facebook page of KhongPangKhongKwan (at 2:20-minute mark) to introduce Thai language domain names, Thai language emails and the website "รู้จัก.ไทย".



- Mr. Anawin Pongsaboripat spoke at the THNIC Reseller Meeting on July 21, 2022, and invited resellers to join seminars and workshops on supporting local languages that THNIC Foundation organized in 2022. This included promoting online courses on setting up email servers to support the Thai language on Ubuntu.



- Mr. Anawin Pongsaboripat spoke at the THNIC Reseller Meeting on December 8, 2022, and invited resellers to join seminars and workshops on developing systems that support local languages, which THNIC Foundation will organize in 2023.



- Online Workshop: Developing Email Servers to Support Thai Language Emails (EA) held on January 15, 2022



- Online Workshop: Developing PHPMailer Program to Support Thai Language Emails (EA) held on April 2, 2022



- To support the 11th YWC Reunion, held on December 5, 2022, at Maruay Garden Hotel, information about developing systems that support local language domain names and emails was shared with members of the YWC (Young Webmaster Camp), Thai Webmaster and Online Media Association.



- Mr. Anawin Pongsaboripat, assistant director of the THNIC Foundation, and Mr. Titipong Pak-insri, Operation and Support manager of Thai Name Server Co., Ltd., were speakers at the practical training workshop, "Developing EAI-Compliant Email Servers", for Computer Engineering Department students from the Faculty of Engineering, Thammasat University.

The workshop aimed to provide students with a comprehensive understanding of email server installation in an easy-to-understand and efficient manner, supporting the use of Thai language emails. Participants were able to set up their own email servers and develop email server systems on the Ubuntu operating system. The workshop took place on October 19, 2022.



- Mr. Anawin Pongsaboripat, assistant director of the THNIC Foundation, and Mr. Titipong Pak-insri, Operation and Support manager of Thai Name Server Co., Ltd., delivered a lecture to third-year students majoring in Computer Science at the Faculty of Science and Technology, Thammasat University. The purpose of the lecture was to provide students with knowledge about domain systems, the UASG organization and preparation of systems to support the .ไทย domain. They also provided an overview of the main content of the curriculum for developing EAI-compliant email servers, essential knowledge and preparation prior to the practical training. The lecture took place on November 4, 2565.



- THNIC Foundation organized a practical training on "Setting up an Email Server with EAI Support" for third-year students majoring in Computer Science at the Faculty of Science and Technology, Thammasat University. The training aimed to enable students to have their own email servers and develop email server systems on the Ubuntu operating system as well as to develop emails that support the Thai language. The training was conducted by Mr. Anawin Pongsaboripat, assistant director of the THNIC Foundation, and Mr. Titipong Pak-insri, Operation and Support manager of Thai Name Server Co., Ltd. It took place on November 21, 2022.

