Annual Report 2021

Thai Network Information Center Foundation

THNiC

มูลนิธิศูนย์สารสนเทศเครือข่ายไทย
THAI NETWORK INFORMATION CENTER FOUNDATION

Our projects

1. Promote and facilitate the domain name registration and management of the database

1.1 Review and update policies related to domain name registration

- Domain name policy subcommittee meeting
- Reserved names and specific words working group meeting
- SLD subcommittee meetings
- Domain name registration policies and practices working group review meeting

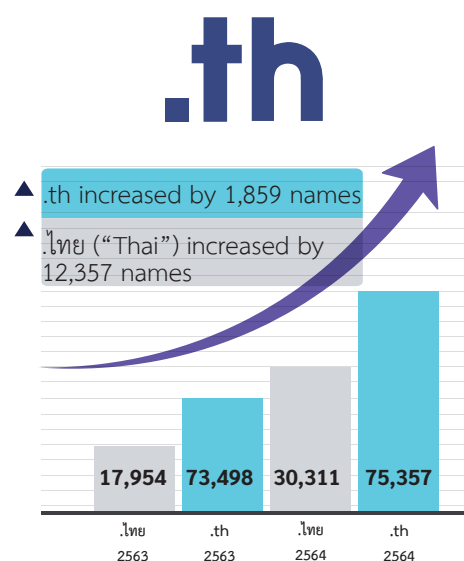### 1.2 Management of the domain name database

THNIC Foundation has authorized Thai Name Server Co., Ltd. to serve as an official .th and .ไทย ("Thai") domain name registry. They will be responsible for managing domain name databases, host computer for domain name registration data maintenance, data backup, and providing DNS services. Thai Name Server Co., Ltd. operates in accordance with generally accepted standards while continuously updating the news and accepting suggestions to improve the system.
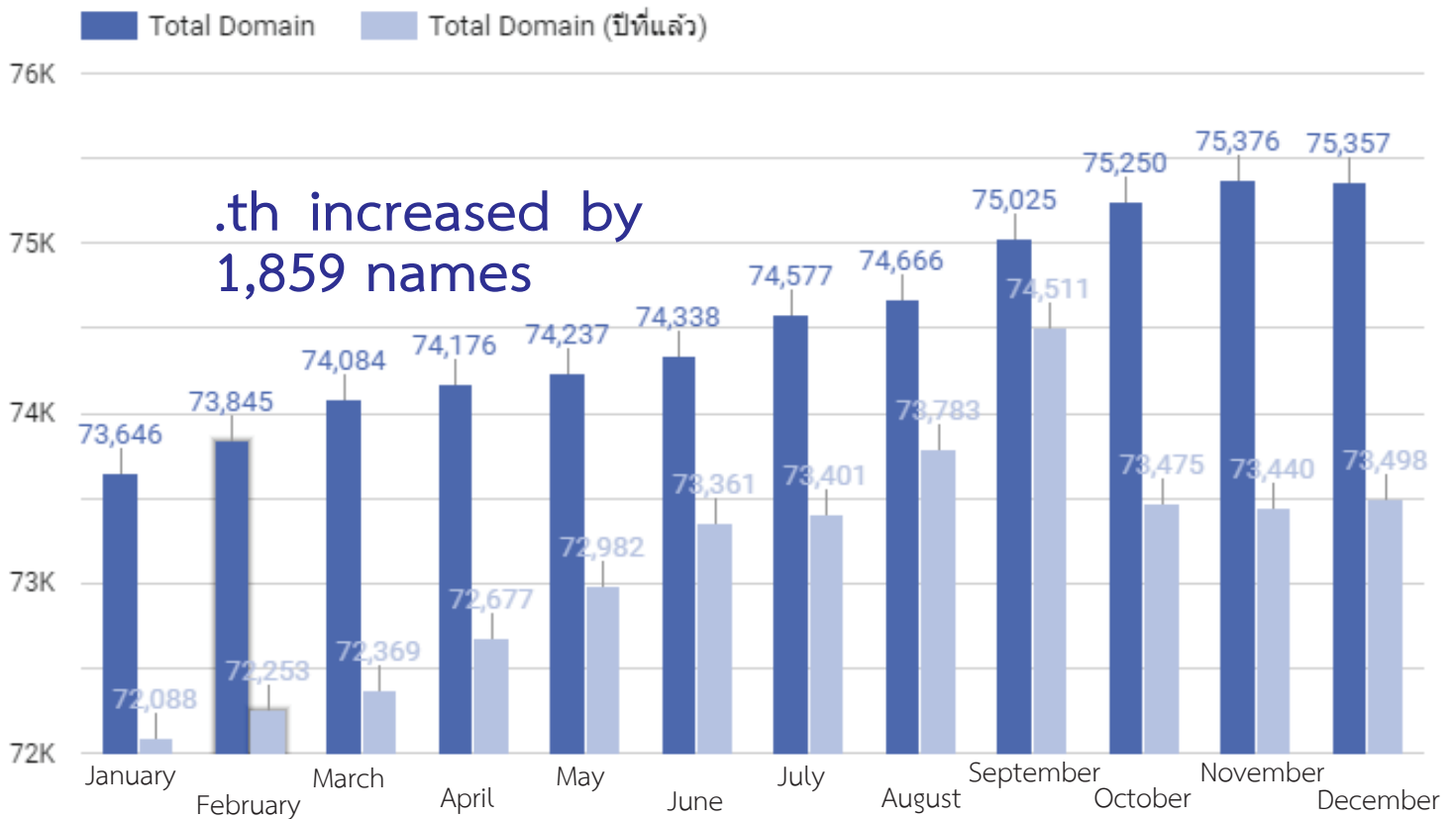
1.3 .th and .ไทย domain name registration

THNIC Foundation has authorized T.H.NIC Co., Ltd. to serve as an official registrar responsible for .th and .ไทย domain name registration. T.H.Nic Co., Ltd. operates according to the rules and policies of domain name policies stipulated by the subcommittee.
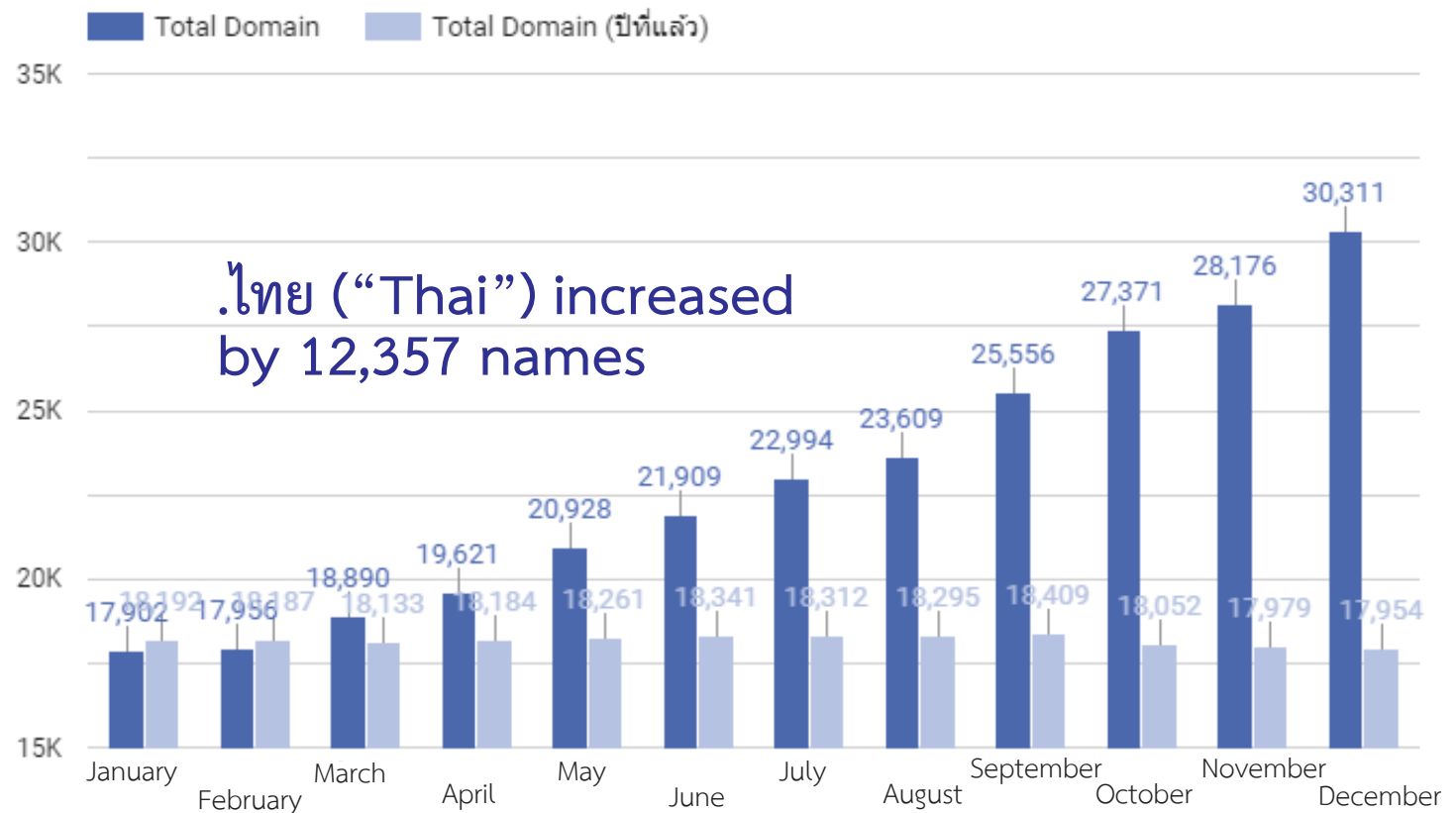
In 2021, T.H.NIC Co., Ltd. registered, deleted and renewed domain names as requested by the registrants. The number of .th domain names increased by 1,859 names while .ไทย ("Thai") domain names increased by 12,357 names.

▲ .th increased by 1,859 names

▲ .ไทย ("Thai") increased by 12,357 names

.ไทย 2563	.th 2563	.ไทย 2564	.th 2564
17,954	73,498	30,311	75,357

Bar chart 1: .th domain statistics

.th increased by 1,859 names

Bar chart 2: .ไทย ("Thai") domain statistics

.ไทย ("Thai") increased by 12,357 names

Bar chart 3: .th and .ไทย ("Thai") domain statistics

ปี	เดือน	ac.th ศึกษา.ไทย	co.th ธุรกิจ.ไทย	go.th รัฐบาล.ไทย	in.th ไทย	mi.th ทหาร.ไทย	net.th เน็ด.ไทย	or.th องค์กร.ไทย	SLD.th	รวม
2564	December	7,772	45,297	9,429	11,303	21	21	1,318	196	75,357
		3,909	14,291	5,987	5,594	11	9	510		30,311
2564	November	7,742	45,271	9,410	11,403	21	21	1,320	188	75,376
		3,756	13,037	5,626	5,268	11	8	470		28,176
2564	October	7,663	45,210	9,398	11,432	20	21	1,317	189	75,250
		3,645	12,588	5,522	5,137	11	8	460		27,371
2564	September	7,574	45,180	9,384	11,345	21	21	1,312	188	75,025
		3,356	11,735	5,242	4,779	12	8	424		25,556
2564	August	7,416	45,052	9,360	11,306	21	22	1,302	187	74,666
		3,102	10,630	5,020	4,458	11	8	380		23,609
2564	July	7,313	45,085	9,351	11,296	21	22	1,311	178	74,577
		2,987	10,355	4,940	4,315	11	8	378		22,994
2564	June	7,303	44,789	9,328	11,390	21	22	1,306	179	74,338
		2,877	9,659	4,818	4,175	11	8	361		21,909
2564	May	7,259	44,678	9,317	11,445	21	22	1,316	179	74,237
		2,747	9,089	4,696	4,030	11	8	347		20,928
2564	April	7,253	44,586	9,302	11,505	21	22	1,313	174	74,176
		2,639	8,552	4,183	3,895	11	8	333		19,621
2564	March	7,230	44,482	9,263	11,595	22	22	1,305	165	74,084
		2,584	8,139	4,058	3,770	12	8	319		18,890
2564	February	7,226	44,333	9,206	11,571	22	23	1,299	165	73,845
		2,545	7,557	3,953	3,575	12	7	307		17,956
2564	January	7,108	44,221	9,185	11,629	22	23	1,293	165	73,646
		2,541	7,550	3,935	3,553	11	7	305		17,902

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

In 2021, THNIC Foundation held 3 rounds of .th Second-Level Domain registration with T.H.NIC Co., Ltd. as the registration operator.

Round	Date	Number of approved domain names
1/2021 (SLD#14)	1 February - 31 March 2021	17
2/2021 (SLD#15)	1 June - 31 July 2021	13
3/2021 (SLD#16)	1 October - 30 November 2021	11

1.5 Promoting Thai businesses using E-commerce to improve business competitiveness

THNIC Foundation ran a project to promote the use of Ecommerce by Thai businesses to improve competitiveness in collaboration with the Department of Business Development, Ministry of Commerce; Thai Webmaster Association; Thai e-Commerce Association; Thai Digital Technology Association and the Electronic Transactions Development Agency (ETDA). This project aims to promote the use of domain names .co.th, online.th and shop.th.

Entrepreneurs who registered as juristic persons or entrepreneurs with the 'DBD Registered' mark can apply to join the project. Each accepted participant will receive a .co.th, online.th or shop.th domain name and website to start their online business. Each participant is also able to join the three partner associations as an extraordinary member.

The project provided basic digital marketing courses for entrepreneurs on three topics as follows:

1. **Online training course on**
"Ways to increase sales professionally by Live Commerce"
Event date: 30 September 2021
Speaker: Mr. Pej Prapakittikun, Managing Director, Reconomy Global Co., Ltd.

2. **Online training course on**
"How to launch your business with a bang using SEO"
Event date: 28 October 2021
Speaker: Mr. Kornkrit Leelhaphunt, SEO Specialist, Yeeraf Co., Ltd.

3. **Online training course on**
"Sale Page: Launch your online shop with a single webpage"
Event date: 25 November 2021
Speaker: Mr. Chakkrisn Talawat, Managing Director, Seed Webs Co., Ltd.

1.6 Activities to promote .ไทย domain name registration in conjunction with the 10th anniversary of .ไทย ("Thai") event

- Promote the use of .ไทย ("Thai") domains with several organizations

Domain name: ส่งเสริมวัฒนธรรม.ไทย (culture.go.th) and
                        ศิลปินแห่งชาติ.ไทย (art.culture.go.th)
Organization: Department of Cultural Promotion

Domain name: เนคเทค.ไทย (nectec.or.th) and
                        นวนุรักษ์.ไทย (navanurak.in.th)
Organization: National Electronics and Computer Technology Center

Domain name: ทัวร์เที่ยวไทย.ไทย (tourtravelthai.in.th)
Organization: Electronic Transactions Committee
                        and Tourism Authority of Thailand

- Build awareness of .ไทย ("Thai") domain by publicizing domain names through Facebook Page "Dotthai"

- Provide a digital platform service, "สมุดเยี่ยม.ไทย (guestbook.in.th)", to promote the use of digital technology during social distancing to prevent the spread of Covid-19. Users could choose their own website name from the "สมุดเยี่ยม.ไทย (guestbook.in.th)" webpage

- Promote .ไทย ("Thai") Thai domain registration and Thai e-mail usage. Owners of .th domain names in all categories are able to register their .ไทย domain name without cost. As a result, the number of .ไทย domain names increased by 12,357 names compared to 2020.

- Allow the general public to apply for Thai email service: @คนไทย (@kon.in.th) for free

- Seek cooperation with local organizations to promote the use of Thai email for identification and verification to access system services such as Thaimooc.org, วีคลาส.ไทย (vclass.in.th), Dek-d.com, สมุดเยี่ยม.ไทย (guestbook.in.th) etc.

• Collaborate in Dotthai for Community Projects and publicize the use of Thai domains by launching เมืองเก่าไชยปราการ.ไทย (muangkaochaiprakarn.in.th), พาไปกิน.ไทย (take-to-eat.in.th) and พาไปเที่ยว.ไทย (take-a-trip.in.th). Currently, THNIC Foundation provides support for 15 community websites, as shown below:

1. วัดไทยสามัคคี.ไทย (watthaisamakkhee.in.th)
2. บ้านโคกเมือง.ไทย (bankokmuang.in.th)
3. ฮักนะแม่กาษา.ไทย (hugnamaekasa.in.th)
4. หายโศก.ไทย (haisok.in.th)
5. บ้านผือ.ไทย (banphue.in.th)
6. จำปาโมง.ไทย (jampamong.in.th)
7. ท่าก๊อ.ไทย (thakho.in.th)
8. ห้างฉัตร.ไทย (hangchat.in.th)
9. กระเบื้องใหญ่.ไทย (krabuangyai.in.th)
10. กาแฟเมืองปาน.ไทย (muangpancoffee.in.th)
11. เที่ยวทุ่งหว้า.ไทย (thungwatour.in.th)
12. สินธุ์แพรทอง.ไทย (sinpraethong.in.th)
13. เมืองเก่าไชยปราการ.ไทย (muangkaochaiprakarn.in.th)
14. พาไปกิน.ไทย (take-to-eat.in.th)
15. พาไปเที่ยว.ไทย (take-a-trip.in.th)

• Publicize the use of Thai domain names through print media such as booklets and souvenirs; then distribute these among individuals and agencies.

• Publicize the use of Thai domains through the website 'รู้จัก.ไทย (knows.in.th)'

2. Support studies, research and development on the internet in Thailand

- Support a research project on "Internet users' recognition and acceptance of the use of Thai domain names" to study users' perception, understanding and acceptance of Thai domains. The research was conducted by Assistant Professor Pimonpan Chainan, Ph.D., Faculty of Mass Communication, Chiang Mai University.

Read the executive summary

https://www.thnic.or.th/wp-content/uploads/2021/12/thnic64-pimonpan-th-executive-summary.pdf

- Support the AINTEC academic conference

Event date: 14-16 December 2021

3. Develop human resources to have knowledge and competency in internet technology

Organize educational activities and training workshops about Internet technology under the THNIC Academy project

4. Provide advice to society about internet development in Thailand

Mr. Chaya Limchitti, the foundation advisor, was invited to speak at a seminar on "Information Security in Domain Name System" where he introduced the benefits of DNS Security to increase user engagement. This seminar was a part of Thailand National Cyber Week 2021 and held on 19 November 2021.

5. Cooperate with government agencies, academic institutions, private organizations and other internet organizations
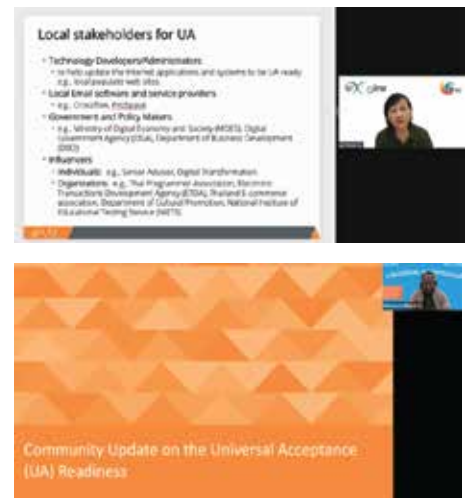
Dr. Pensri Arunwatanamongkol, the executive director of the THNIC Foundation, participated in a talk on "ETDA Live Ep.6: Why should we use a Thai domain name? Answers to questions you may not know" on 17 June 2021.

6. Coordinate and cooperate with international internet organizations

Join as a speaker in collaboration with ICANN and APTLD as follows:

- SEA IGF 2021 webinar, "Universal Acceptance: Domain Names and Email Addresses for a More Linguistically Inclusive and Diverse Internet"

- UA regional training program webinar: "Universal Acceptance: Its Impact and Next Steps"

- ICANN 70 session: "Community Update on Universal Acceptance Readiness"

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

- Publish an article on "Legal Status of Domain Names in Thailand" by Associate Professor Dr. Bhumindr Butr-indr and Mr. Kanon Teiantrong
- Publish information about Internet technology on https://wiki.thnic.or.th

8. Operate and cooperate with charity and public benefit organizations and social, or community, enterprises for charitable purposes and public benefit

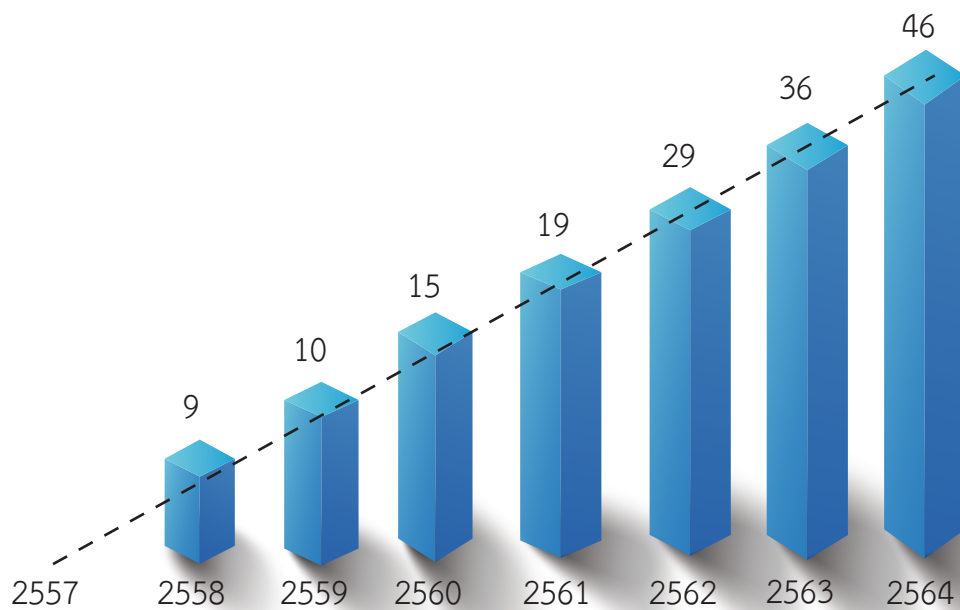Donate money to Thammasat Hospital to buy oxygen concentrators

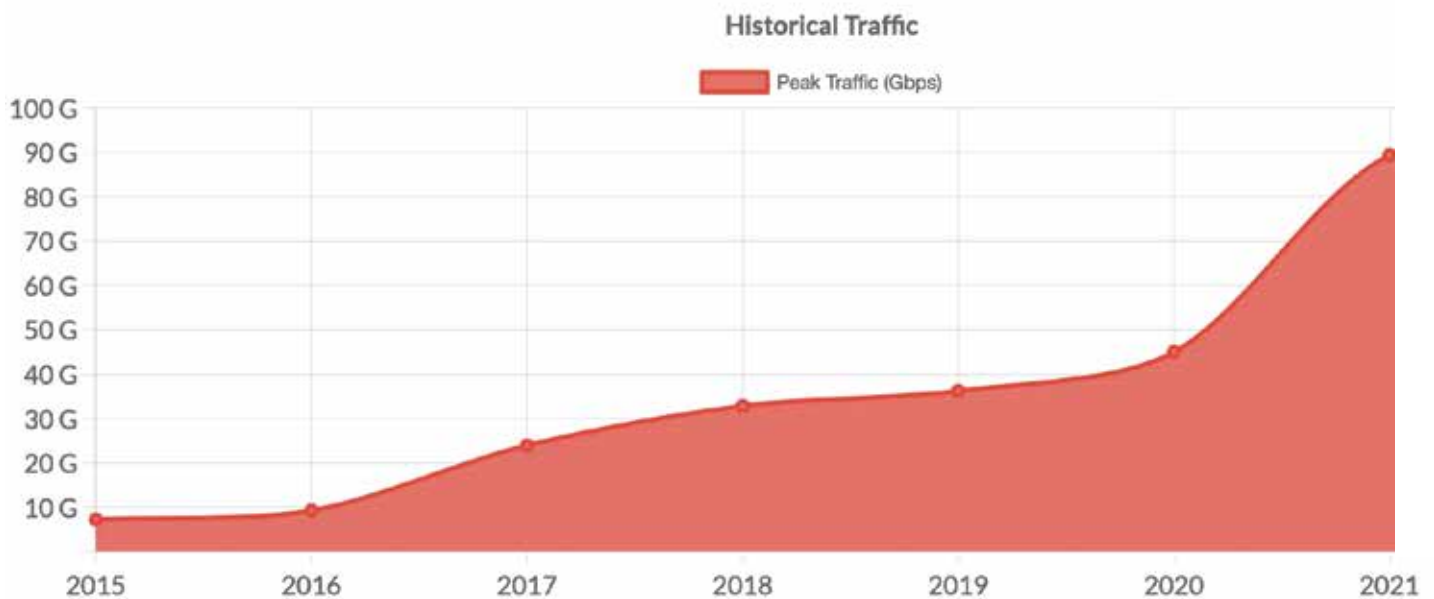# BKNIX (Bangkok Neutral Internet eXchange)

Member of Internet Information Exchange Center in 2022

THNIC Foundation has authorized BKNIX to manage and develop the Internet Information Exchange Center to provide services to 46 ASNs users connected to the center with a maximum exchange traffic of 89.38 Gbps.

Chart: Center expansion in proportion to the number of members from 2014 to 2021

Year	Members
2557	9
2558	10
2559	15
2560	19
2561	29
2562	36
2563	46
2564	

Traffic

Historical Traffic

Peak Traffic (Gbps)

Net2Home

1. Current operation areas:

1.1 2 sub-districts in Mae Sot district, Tak province

1.2 Chiang Dao sub-district in Chiang Dao district, Chiang Mai province

1.3 2 sub-districts in Bang Pla Ma district, Suphan Buri province

1.4 Rom Klao Community in Khlong Toei district, Bangkok

2. Membership expansion

Active sites as of 31 December 2022

Total: 426 households at 45 sites as listed below:

1) Mae Kasa sub-district, Mae Sot district, Tak province — 336 households

2) Mae Ku sub-district, Mae Sot district, Tak province — 11 households

3) 2 sub-districts in Bang Pla Ma district, Suphan Buri province — 46 households

4) Chiang Dao district, Chiang Mai province — 9 households

5) Khlong Toei district, Bangkok — 24 households

Summary of 2021 operations: Registration increased by 10 sites, members increased by 130 households and total number of member cancellations was 73 households.

3. Project information

CWMN Khlong Toei (Community Wireless Mesh Network) is a project to support the Internet for students who need to study online during the COVID-19 pandemic. The objective of the project is to solve families' equipment shortages and internet connection issues.

Khlong Toei slum community is divided into 18 communities. Each has one 1Gbps NT outlet once used in the Google Station project. Initially, Romklao community, which contains 360 households, was selected as the first community to join the project. 24 households registered to Net2home with daily traffic of approximately 80 Gb. The foundation is now coordinating with Nongmai community to provide free of charge service.

THNIC Academy

1. THNIC Academy

A Learning Center was established at Rahaeng sub-district, Mueang Tak district, Tak province. Their first activity center was to organize the "Baengpun Camp" in March 2021

2. Baengpun Camp

Baengpun Camp was a camp to develop website-development skills for junior and senior high school students. The camp was held for the first time in 2019 and then, again, in 2021. In 2021, Baengpun Camp comprised seven training sessions held only on Saturdays. Training topics included Domain Name System Hosting, WordPress Usage, Website Design and content creation, media production and a camp 'hackathon', a two-day website competition where camp participants were divided into seven groups to compete with each other.

The camp period was from 13 March to 6 June 2021. The first three sessions were held at the Learning Center while the remainder were held online due to the Covid-19 situation. A total of 26 students participated in this camp. Websites created from the competition of all seven groups are กระเช้าโอ๋ทอป.ไทย (grachaootop.in.th), บ้านป่าไร่เหนือ.ไทย (banparainuea.in.th), กาดต้าตง.ไทย (kattatong.in.th), โมบายช้อปตาก.ไทย (mobileshoptak.in.th), ทูคาร์.ไทย (twocar.in.th), พาไปกิน.ไทย (take-to-eat.in.th) and วิสด้อมฟิลด์.ไทย (wisdomfield.in.th)
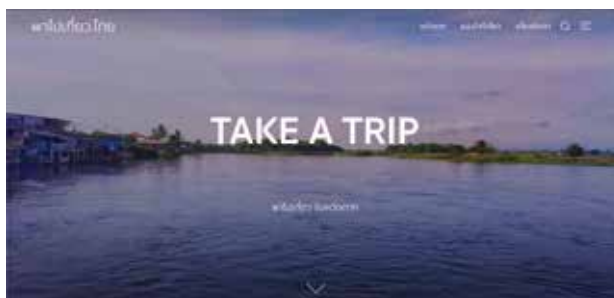
3. Website development (continuing from the Baengpun Camp)

The committee selected two groups'; websites for further development, providing financial support to both groups. The chosen websites are: the restaurant review site "พาไปกิน.ไทย (take-to-eat.in.th)" and the travel review site "กาดต้าตง.ไทย (kattatong.in.th)" (its name later changed to "พาไปเที่ยว.ไทย (take-a-trip.in.th)") Currently, both websites are up and running.

The restaurant review site:

"พาไปกิน.ไทย (take-to-eat.in.th)"

The travel review site:

"พาไปเที่ยว.ไทย (take-a-trip.in.th)"

4. Computational Thinking workshop

This workshop was an activity to develop logical thinking processes and teach how to write a basic program. This pilot workshop was comprised five sessions held weekly (or biweekly) on Saturdays or Sundays. The classes began 4 December 2021, and there were three classes held In December 2021. The workshop taught how to use AppLab, a tool from code.org. The curriculum was developed by programming professors of Naresuan University and King Mongkut's University of Technology North Bangkok, who also conducted the classes.
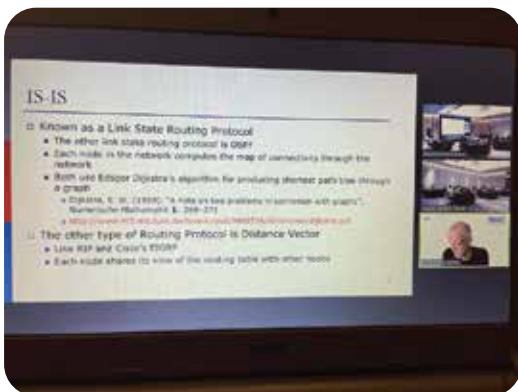
5. BGP Peering Workshop 2021

The BGP Peering Workshop was a technical workshop comprising lectures and hands-on lab work to teach the IS-IS and BGP skills required for the configuration and operation of large-scale networks that make up the Internet.

Participants were Internet Service Providers (ISP) and fellowship students.

The workshop was held on 22-24 November 2021. The speakers comprised experts from many organizations such as Network Startup Resource Center, Asian Institute of Technology and BKNIX.

6. Human resource development activities to gain knowledge and expertise in Internet technology under the Thailand Universal Acceptance Local Initiative project funded by ICANN

In 2021, there were five activities to educate and promote understanding about Universal Acceptance, which included:

6.1 Online Workshop: Setting up an email server with EAI support

This workshop trained participants to set up an email server that supports Thai e-mails (such as your name@surname.Thai, etc.) in a comprehensible and effective manner. The event was held on 17 March 2021 via a teleconference system.

6.2 Online Workshop: Universal Acceptance (UA) for Developers

This workshop trained participants in website development that can be used in both Thai and English emails as well as the principles of Universal Acceptance (UA). The event was held on 12 June 2021 via a teleconference system.

6.3 Online Training: Developing programs with Java to support UA

This course trained participants in application system design and development to support Thai domain names and email usage to receive, verify, process, store and correctly display top-level domain names (TLDs), new domain names (new gTLDs), localized domain names and localized email addresses. Participants could also apply their knowledge to develop programs in other languages. The event was held on 21 August 2021.

6.4 GitHub Pull Request Hackathon .ไทย Universal Acceptance

The Virtual Hackathon was a seven-day competition to modify a repo in GitHub to become UA-Ready and open a Pull Request to inform the GitHub project owner. Total scores in the competition were calculated from the number of Pull Requests and Merge Pull Requests along with the significance of the repo that was selected to be modified.

The event was held from 21 August - 18 September 2021. The hackathon started at midnight (12.00 am) 9 September and ended 11:59 pm, 15 September 2021.

6.5 WebPresso: Create Business Digital Identity

This event, a discussion on promoting SME Marketing 5.0 E-Commerce and Thailand UA Local Initiative activities, was held on 30 October 2021.