

Increasing investment in Internet development in the Asia Pacific

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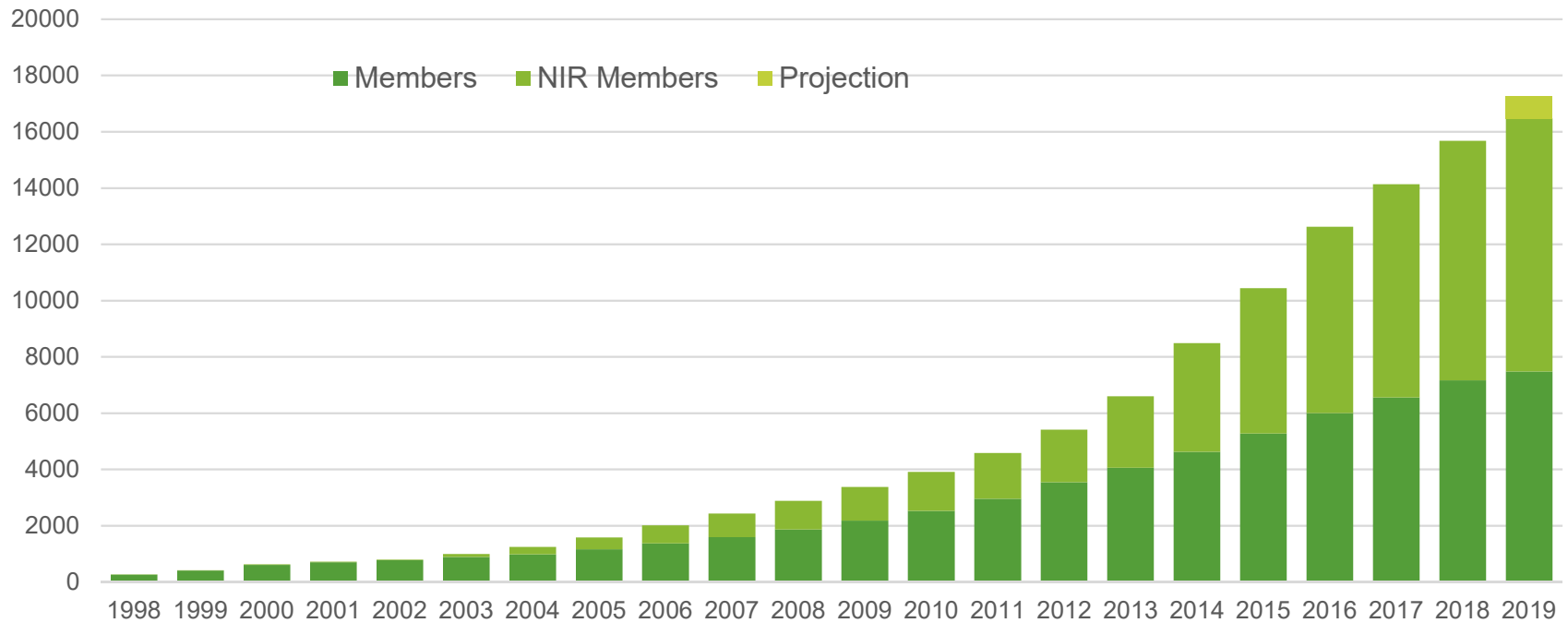


Who is APNIC?

- One of five regional Internet address registries globally
- Managing Internet number resources
 - IPv4, IPv6 and ASNs
- Supports training, education and internet development
- A neutral, independent, not-for-profit, membership-based organization (1993)



Membership



Who is the APNIC Foundation?

VISION

To have a global, open, stable and secure Internet that is affordable and accessible to the entire Asia Pacific community.

MISSION

To increase investment in Internet development in the Asia Pacific region, through education and training, human capacity building, community development, research, and related projects and activities.

How the Foundation Works

We support these activities



Training

Building critical operational skills and knowledge to help engineers grow, manage and secure Internet infrastructure.



Technical Assistance

Project-based technical advice to assist Asia Pacific organizations maintain scalable, secure and resilient networks.



Security Readiness

Fostering community development of CERTs/CSIRTs to better manage and respond to cybersecurity risks and building cybersecurity awareness among law enforcement agencies.



Fellowships

Providing opportunities for individuals from diverse backgrounds to attend Internet events to develop their skills and represent their communities.



Internet Infrastructure

Guiding and sponsoring the deployment of critical Internet infrastructure and advocating best practice to maximise its benefits.



Sponsorships

Providing funding to community groups such as NOGs and CERTs/CSIRTs to encourage knowledge sharing and training.



Events

Staging the Asia Pacific's two largest technical events for the Internet networking industry to share experience and learn from world experts.



Grants and Awards

Supporting ISIF Asia, in providing grants and awards to organisations to research, design and implement Internet-based solutions to achieve the SDGs.



Internet Governance and Cooperation

Building a better understanding of the multistakeholder Internet governance ecosystem.



Research

Supporting world-class research initiatives which help networking professionals to make better decisions and solve Internet operational issues.

To strengthen these communities

Network Engineers

NOGs, IXPs, peering forums

Security Professionals

CERTs/CSIRTs and LEAs

Internet Governance Specialists

Government officials, regulators

Openness
Neutrality
Best Practice
Diversity

To achieve these goals

GLOBAL

An Internet which connects directly and freely all corners of the world

OPEN

An Internet which is accessible to all, with the lowest possible barriers

STABLE

An Internet which is as reliable, available and efficient as possible

SECURE

An Internet which can be trusted with our most important information and services

Projects

Project: Technical training to support CERT development

Donor: DFAT (Australia)

Economies supported: Cook Islands, Fiji, Kiribati, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu, Vanuatu.

Funding: USD 169,000 for 24 months implementation.

Status: COMPLETED June 2019

Outcomes:

1. 3 regional workshops held (Tonga, New Caledonia, Samoa)
2. Support to strengthen CERT Tonga, and support the establishment of PNG CERT and Vanuatu CERT
3. Teams for 10 countries trained.

Projects

Project: Technical training for network operators, and support for IXP and CERT development

Donors: Australia, New Zealand and Asia Foundation (United States)

Economy supported: Papua New Guinea

Funding: USD 443,323 for 18 months implementation.

Status: ONGOING. Project finishes in March 2020

Outcomes:

1. Community consultation, 13 training workshops, engagement and technical assistance activities in the last semester of 2018
2. Reviewed community consultation, up to 6 training workshops/assistance activities to d by March 2020.

Projects

Project: Training and support for Law Enforcement Agencies (LEAs)

Donor: DFAT (Australia)

Economies supported: Pacific Island economies

Funding: USD 73,000 for 12 months implementation

Status: COMPLETED June 2019

Outcomes: 4 regional workshops

Projects

Project: Technical training for university networks

Donors: KDDI Foundation

Economy: Myanmar

Funding: Cost recovery

Status: ONGOING

Outcomes: Two workshops in 2019

ISIF Asia

Grants and awards program empowering communities in the Asia Pacific region to **research, design and implement Internet-based solutions** for their own needs, placing particular emphasis on the positive role the Internet has in social and economic development in the region.

- Established in **2008**, is now a program of the APNIC Foundation
- **97 innovative initiatives supported** by July 2019: 69 grants and 28 awards
- **USD 3.2 million allocated** through a funding partnership with APNIC, IDRC, Sida, The Dot Asia Organization, ICANN and APIA.
- **24 economies** supported
- **WSIS Champion 2018 & 2019, Action line 11** International and regional cooperation
- **2019 winners will be announced today** on two funding categories: Powering Internet infrastructure & Network Operations Research



ISIF Asia 2019

USD 100,000 to be allocated across two funding categories:

Powering Internet Infrastructure

Two small grants of USD 20,000 USD (totalling USD 40,000) supporting research and development of software and/or hardware solutions that can improve the stability and reliability of **how Internet infrastructure is powered**

Network Operations Research

Three small grants of USD 20,000 (totalling USD 60,000) supporting research focused on the availability, reliability, and security of the Internet, with a particular **focus on focus on operational stability and security.**

Powering Internet Infrastructure

The grants will be allocated around the following focus areas:

1. Technical innovation in the provision of **efficient, reliable power for Internet infrastructures**, particularly in challenging situations such as off-grid, intermittently supplied, or disaster afflicted environments;
2. Creative **organizational/partnership arrangement(s) and incentives** for development of alternative and renewable energy sources for use in powering Internet infrastructure;
3. Creative **technical and business solutions** involving provision of power in tandem with Internet access, to expand connectivity to underserved areas;
4. Enabling **regulatory frameworks** that support innovative technical and business models for power access provision.

ISIF Asia 2019 winners

We are investing USD 120,000 across two categories for 6 projects in 5 AP economies!

Powering Internet Infrastructure

Telemetering the telltale signs of power issues of wireless internet relays. India. Rural Broadband – AirJaldi.
USD 20,000

Network Remote Powering through Quasi-Passive Optical Nodes. Australia. Royal Melbourne Institute of Technology (RMIT University)
USD 20,000

Network Operations Research

Modelling and identifying IP address space fragmentation pressure points. Australia. Curtin University
USD 20,000

Honeynet Threat Sharing Platform. Indonesia. SGU, BSSN (Badan Siber & Sandi Negara) and Indonesia Honeynet Project (IHP)
USD 20,000

Implementation and Utilities of RDAP for wider usability among Internet Stakeholders. Malaysia. University of Malaya.
USD 20,000

Network coding over satellite links: scheduling redundancy for better goodput. New Zealand. The University of Auckland.
USD 20,000

Thanks!