

End of Year Report: 2024

Delivering Impact for APIDT

End of Year Report Content



- ▶ Executive Summary with Key Impacts
- ▶ Budget Management
- ▶ Project Performance Summary
- ▶ APNIC Foundation Performance
- ▶ Impact in the Region
- ▶ Key Year-on-Year Trends (Non-financial)
- ▶ Key Learnings and Actions to Address



2024 Overview

- ▶ 82% of EOY targets met or exceeded
 - Overall, 32% of targets exceeded
 - 70.59% of Switch! targets exceeded
- ▶ 5 projects within budget variance of 5%, 3 projects overspent, 4 underspent
- ▶ Risk is being well managed and the overall risk to APIDT has decreased, especially in relation to high and very high-risk categories
- ▶ 21 ISIF Asia grants awarded across 17 economies
 - Inclusion: 12; Infrastructure: 6 (including IPv6: 4); Knowledge: 3
- ▶ Total number of individual courses undertaken by Foundation-led capacity building projects (Switch! & DLSA): 1875 with 89% completion rate
 - 205 participants across 9 economies
- ▶ APNIC Training Team delivered 169 courses for 4,754 attendees across 29 economies.
 - 92 delivered online (2,652 attendees) and 77 in-person (2,102 attendees)
 - Exceeded instructor-led training hours by over 50% (1830 hours against a target of 1200)

APIDT Goals – Relieving poverty, advancing education and social welfare through increased availability, accessibility, and affordability.

In 2024, the Foundation focused on delivering impactful projects to expand education, enhance social welfare, and promoting inclusion through its three focus areas of *Inclusion, Infrastructure, and Knowledge*.

- **Expanding Educational Access:** Several projects improved education availability and affordability across developing economies. Some challenges with the SOI Asia project impacted targets, and steps are being taken to build stronger academic partnerships between institutions.
- **Building Sustainable Learning Pathways:** The APNIC Academy's virtual training exceeded targets, demonstrating the demand for accessible, affordable education. Instructor-led training also saw high engagement. The Switch and DLSA programs helped upskill Internet professionals in key economies needing support in the region, particularly on cybersecurity and network operations.
- **Supporting Community-Led Learning:** Initiatives supported under the Foundation Community Assistance (FCA) program helped support key localised training initiatives, including network operations, cybersecurity, and Internet governance. The APNIC Community Trainer program faced some challenges due to trainer availability with steps being taken to review needs and requirements.
- **Advancing Social Welfare & Inclusion:** The ISIF Asia grants prioritised inclusion, particularly environmental and community development, including wildfire detection, landslide monitoring, access for senior citizens, persons with disabilities and schools.
- **Strengthening Cybersecurity Capabilities:** The miniSOC (Mini Security Operations Centre) pilot project through the Foundation FCA program helped towards building institutional and technical capacity in CERTs in three small developing economies.

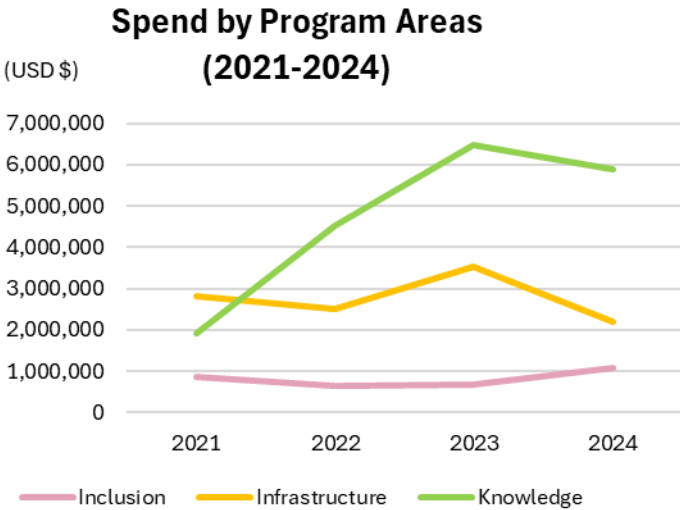
How APIDT's money was spent on projects



From 1 January 2024 to 31 December 2024
(Reporting Currency: USD)

Managed and Implemented by	Project Names	2024 Full Year Overview				Explanations of Material Matters (>5%)
		Budget	Actuals	Change (\$)	Change (%)	
APNIC	APNIC Academy Platform and Curriculum Development	979,469	924,105	-55,364	-6%	Due to staff movement, no project delivery impact.
	Training Delivery and Community Trainers	1,106,168	1,085,610	-20,558	-2%	
	Curriculum Development for Non-technical Audiences	48,116	47,415	-701	-1%	
	Cybersecurity: Honeynet and Threat Sharing	46,900	57,417	10,517	22%	More sensors were deployed due to higher demand.
	M-Root Deployment	504,227	414,534	-89,693	-18%	Fewer anycast nodes have been purchased (7 out of the 11 targets); challenges of procurement and WIDE manpower hire.
	Research and Internet Measurement	174,401	89,843	-84,558	-48%	Pricing negotiation with vendor resulted in the underspend.
Foundation	ISIF Asia (incl. IPv6)	2,396,472	2,160,075	-236,397	-10%	Less than expected grants were approved in 2024 as some applications did not meet expectations.
	Foundation Community Assistance	302,308	304,027	1,719	1%	
	Switch!	1,010,704	963,537	-47,167	-5%	
	Digital Leap South Asia	263,780	283,972	20,192	8%	Extra funding was needed for community engagement event to amplify the project impact.
	Trust Discretionary Fund	250,000	397,114	147,114	59%	Overspend was pre-approved by Trust.
Keio University (Japan)	AI3 & SOI Asia	2,482,505	2,455,440	-27,065	-1%	
Total		9,565,050	9,183,090	-381,960	-4%	

Year-on-Year Financials



Project Performance – 82% of EoY Targets met



The below table summarises the performance of funded initiatives against targets. Our goal is to improve our performance each year.

Project name	Target status	If no, explanation
APNIC: Training Delivery	<p>Training & Events Engagement: Targets exceeded.</p> <p>Internet Infrastructure Support and Technical Assistance: User satisfaction high but SME availability below goals. Targets met for new CERTs but only one out of 2 IXPs set up with ROV.</p> <p>Technical/Security Community Support: All targets met.</p> <p>Community Trainers Network: RCTs did not meet targets.</p>	<p>Challenges were encountered with IXP deployment due to external factors impacting the preparedness of local hosts.</p> <p>Not all RCTs delivered training 20% of their contracted time, due to a combination of availability, skillset, and opportunity constraints. A priority going forward is to review and evolve the CT program.</p>
APNIC: Research and Internet Measurement	All targets met.	
APNIC: Cybersecurity and Honeynet Threat Sharing	All targets met.	
APNIC: M-Root Deployment	<p>Streamline M-Root Deployment: All targets met. Ongoing.</p> <p>M-Root instances: Deployment targets not met.</p>	Delays in installation due to lack of engineering resources and migration work such as IP address renumbering & DC relocation of Cambodia and OS major upgrade. Some external factors as well e.g. equipment supply lead times.
APNIC: APNIC Academy	All targets met: Usage and satisfaction scores exceeded.	
APNIC: Curriculum Development for Non-Technical Audiences	Project closed. Interim report data shows course completion issues.	Substantial work on this project ended in 2023 with the 2024 activities focused on winding down the support provided through Trust funding. The project was fully transitioned to APNIC mid-year and is now closed from our perspective.
Foundation: Digital Leap South Asia	All targets met. Community engagement exceeded targets.	
Foundation: Switch!	All targets met or exceeded except one target about Orbit engagement.	Use of Orbit as an engagement medium is being reviewed to ascertain if it is useful to participants or if there are better alternatives Participants do not appear to find Orbit appropriate based on feedback.
Foundation: ISIF Asia	<p>Granting processes: Selection committee gender target not met.</p> <p>Alumni network: Targets met.</p> <p>Strengthen partner network: Targets met.</p>	ISIF processes are being reviewed across a number of dimensions to improve efficiency and relevance.
Foundation: Foundation Community Assistance	All targets met.	
Foundation: Trust Discretionary Funding	All targets met.	
Keio: Asian Interconnection Initiatives	5 out of 11 targets were not met. Delays in both deployment and proposals cascaded to cause delays around presentations and communications outputs.	Research proposal delays often arise from changes in strategy due to fluctuating internal and partner resources. Longer funding commitments would allow partners to secure those resources (human resources, in particular).
Keio: SOI Asia	6 out of 14 targets not met, and one was N/A. Lower university participation than anticipated, and lower certification and issuance of badges. 9 courses adopted E-portfolio system instead of 23.	Micro-credentials require greater implementation guidelines for universities. Enhanced advocacy through regional outreach and case studies to drive broader adoption is being planned.

APNIC Foundation Performance



One of the Foundation's goals is that it will be 'High Performance'. In line with this, it monitors its own performance as a grants & programs manager to ensure it is delivering services effectively, efficiently, and to a high standard. Below is a summary of the actions by the Foundation, across its systems and processes, this year to ensure we are delivering well for APIDT.

Efficiency

- ISIF Asia: Grantee feedback suggested strong sentiment that they feel well-supported, despite resource constraints. For the 2025 cycle and onward, we are reviewing and optimising the application, grant process, and selection criteria.
- Foundation Community Assistance: Record number of grantees in 2024, twice compared to 2023. Targeted interventions in areas of need in the region helped improve the Foundation's relevance.

Effectiveness

- Doubled LinkedIn followers due to new communications strategy. Revamped communications approach includes weekly project highlights, showcasing the Foundation's work and impact in the region.
- Professional Development Platform (PDP) developed in-house for use by both Switch! and DLSA participants to track their learning activities, providing better participant and program management.
- The Foundation Metrics app is now automating the reporting of aggregated performance metrics using Looker Studio, enhancing data-driven decision-making and oversight of program effectiveness.

Quality

- Historical ISIF Asia grant data entered into Salesforce enabling a dashboard view of past investing in grants across economies and programme areas, supporting better decision-making.
- The Foundation, in collaboration with the APNIC Development Team, conducted the first evaluation of APNIC's training delivery since its inception in the early 2000s. This report assesses the effectiveness, impact, and sustainability of training content, curriculum, and delivery methods from 2019 to 2023, providing insights for future improvements.

Impact in the Region: Highlights



South Asia

- Digital Leap helps reboot AFNOG, AFIGF, AFSIG.
- Support for PKN OG and SAN OG to strengthen institutional capacity
- Five Foundation sessions at the IGF in Riyadh, with strong representation from Digital Leap South Asia. The Foundation-organised sessions included a session on the role of NOGs (for the first time in the IGF's history) and another that brought together development partners and donors to explore investment and funding options for connectivity projects.

South-East Asia

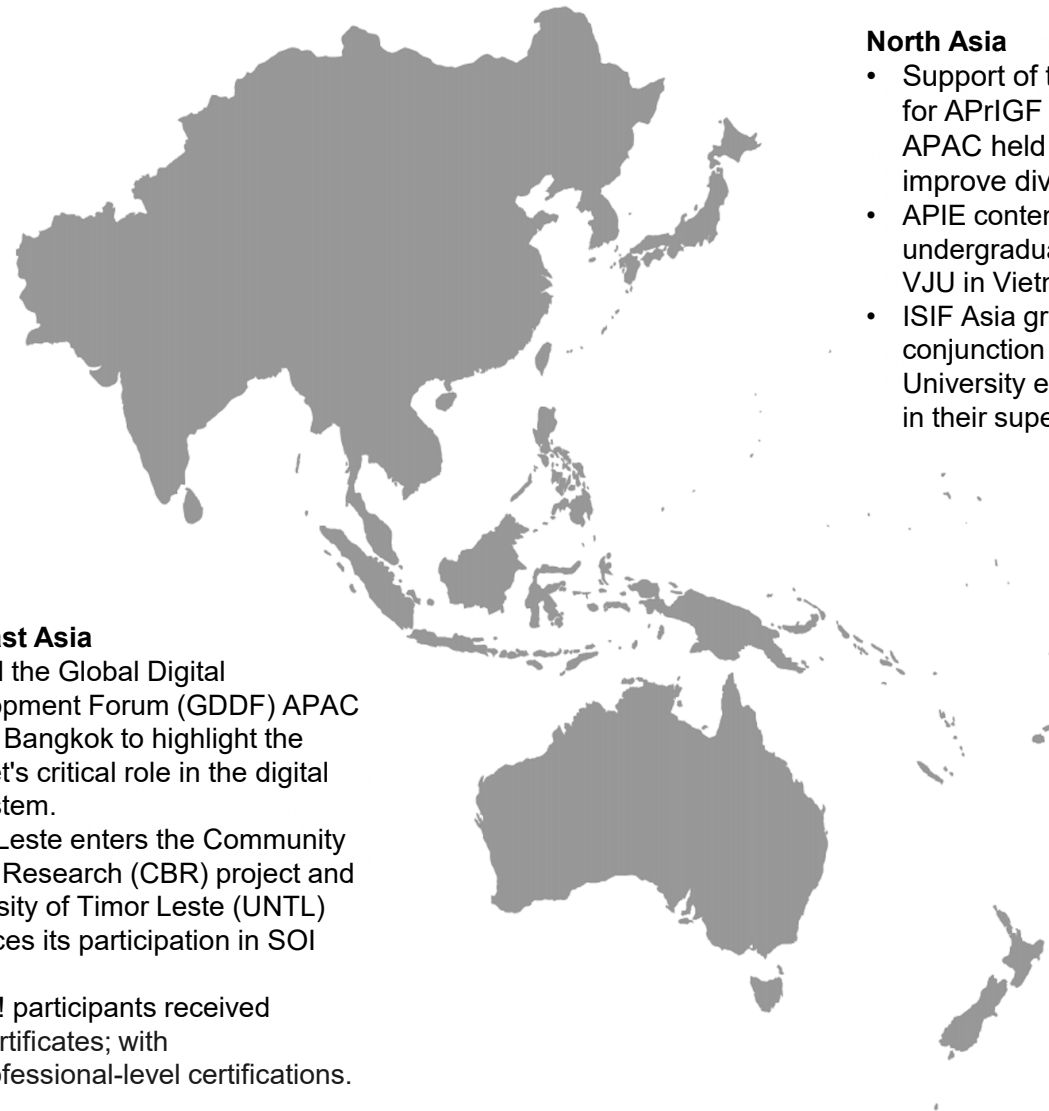
- Hosted the Global Digital Development Forum (GD DF) APAC Hub in Bangkok to highlight the Internet's critical role in the digital ecosystem.
- Timor Leste enters the Community Based Research (CBR) project and University of Timor Leste (UNTL) advances its participation in SOI Asia.
- Switch! participants received 712 certificates; with 52 professional-level certifications.

North Asia

- Support of the fellowship program for APriGF and Digital Rights APAC held in Taiwan helped improve diversity and participation.
- APIE content was integrated into an undergraduate curriculum – at VNU-VJU in Vietnam.
- ISIF Asia grantee CERNET in conjunction with Tsinghua University examined the use of IPv6 in their supercomputer network.

The Pacific

- The Foundation's IETF APAC Ambassador program helped improve diversity and participation at the IETF Brisbane Meeting.
- Nine ISIF Asia awards, focusing on work in the Pacific, granted at a ceremony in APNIC 58 in Wellington, NZ.
- ISIF Asia awardees worked together on projects boosting connectivity in Samoa. Bluewave Wireless worked with Code Avengers, and another awardee, Jon Brewer, arranged for unused equipment to be sent there from New Zealand after meeting them at the awards ceremony.
- Two CERTs in the Pacific provided with assistance to build miniSOCs.

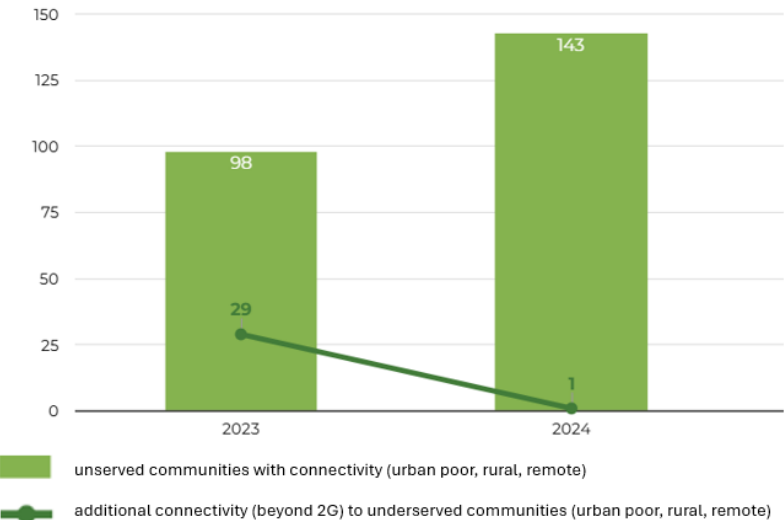


Year-on-Year Trends (Non-Financial)



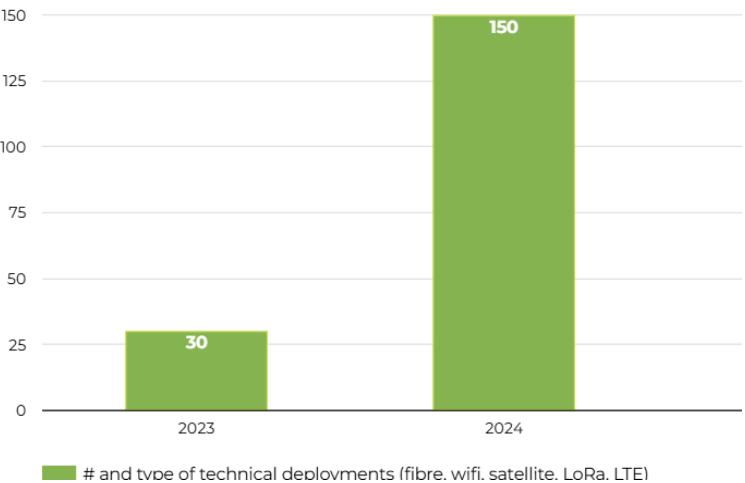
Availability

and distribution of locations providing.....



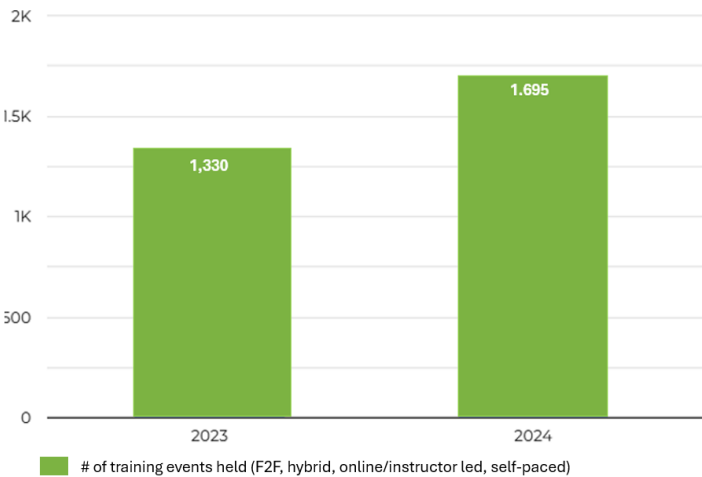
Affordability

and type of technical deployments (fibre, Wi-Fi, satellite, LoRa, LTE)



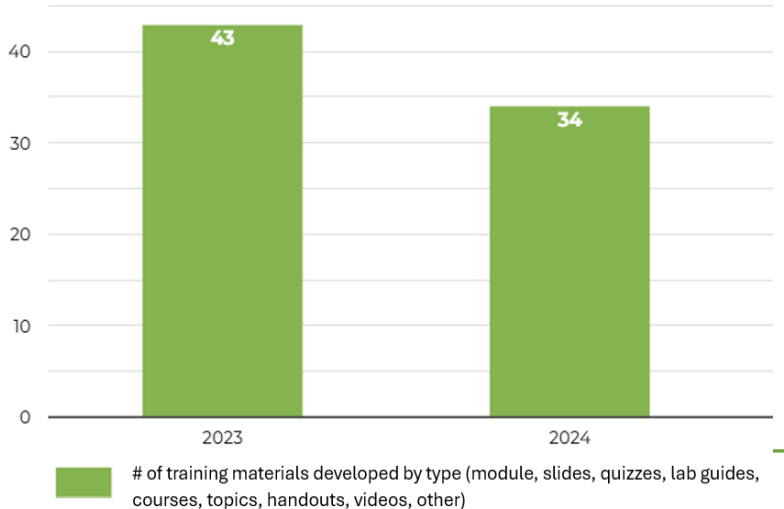
Outreach

of training events supported/sponsored



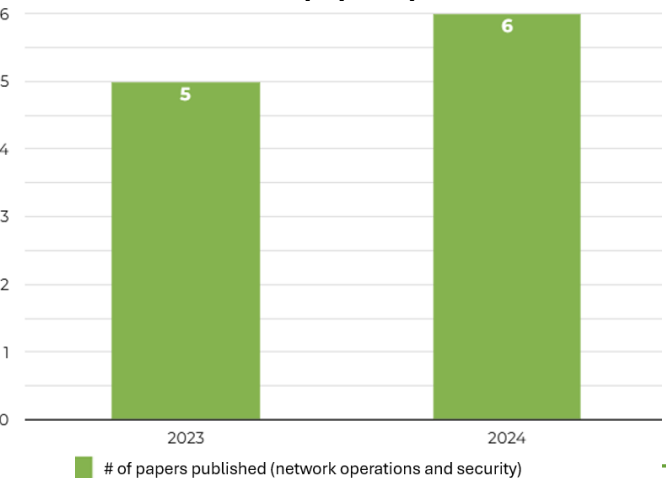
Access

of training materials developed by type



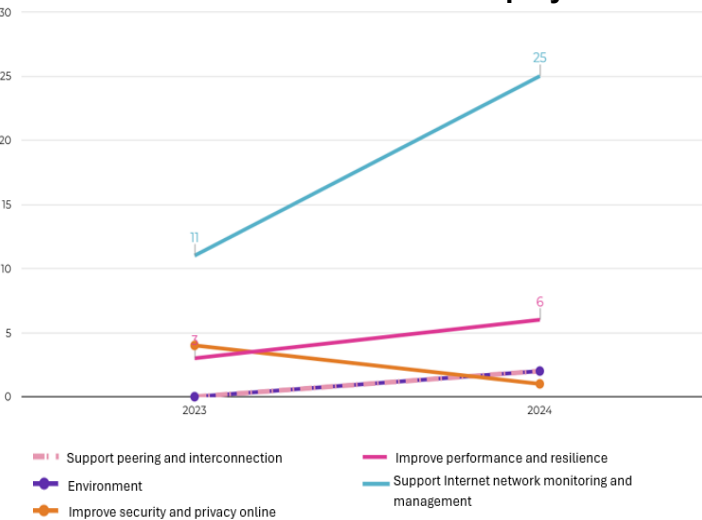
Research

of papers published



Technology

of hardware and software deployment solutions



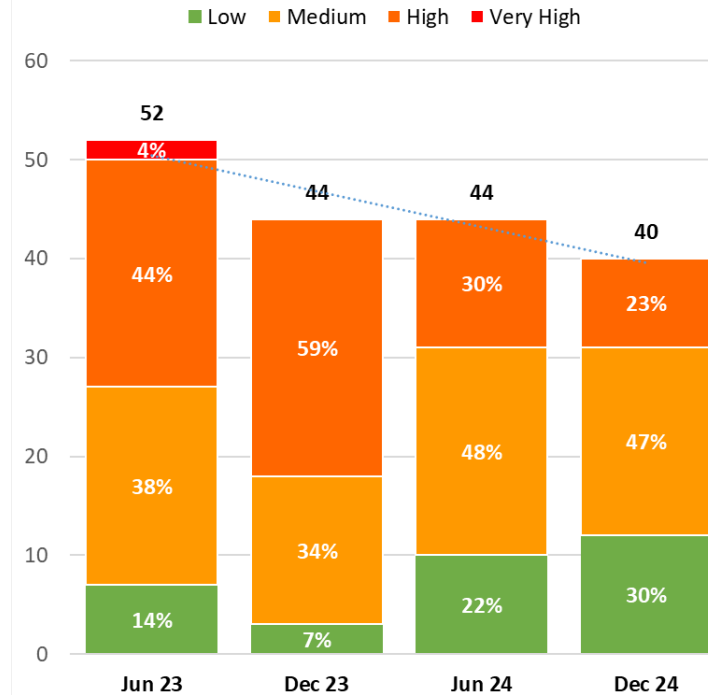
Year-on-Year Trends (Non-Financial) - continued



From January 2023 to December 2024:

- **Total number of risks** identified across all trust projects has decreased from 52 to 40.
- **High / Very High risk categories:** Decrease in these categories due to improved practices. Political instability (notably in Afghanistan) is an ongoing high risk. Vigilant due diligence on terrorism financing remains a priority.
- **Low / Medium risk categories:** Increase in these categories, attributed to the downgrading of some high risks.
- Successful risk mitigation and proactive risk management are in place for continuous risk monitoring and improvements.

Numbers of Risk Identified and Rating Distribution



Risk Category	No. of Risks	Notes
Financial	11	Currency exchange rates fluctuation impacted project funding; terrorism financing risks which have been mitigated by appropriate risk framework and guidelines.
Political	2	Political issues and international sanctions in certain regions, such as Afghanistan, Myanmar.
Reputational	3	Reputational damage if projects are not delivered effectively, or do not meet community expectations.

Key Learnings and Actions to Address: Highlights



Key learnings that could significantly impact the Foundation's performance:

Project (if relevant)	Key Learning	Action	Action Status
Switch!	Shorter period of financial support increases anxiety among participants around their ability to complete their plans and the training they can undertake within the timeframe.	Project would benefit from multi-year financial support to better support programmatic and learning outcomes.	The Trust is requested to consider multi-year support for some programs to help facilitate and shape better programmatic outcomes.
Digital Leap South Asia and SOI Asia	Reasons for dropout rates for online courses are complex and multi-dimensional, including cultural.	Maintain active engaged learners through regular outreach and set and reinforce expectations.	Review onboarding processes, set clear participant expectations and outreach cycle, provide translation support where appropriate.
APNIC Training	Learning outcomes depend on the skills and delivery expertise of the trainer. Participants' cultural factors also come into play.	Develop a train-the-trainer program to better support trainer skills.	Work on establishing a program for continuous learning and improvement for trainers.
APNIC Foundation	The grant programs have human resource capacity constraints due to the number and types of grants being supported.	Continue organisational, process and efficiency changes.	Consider additional human resources to support effective program management.

APIDTT Grant Agreement 2024 End of year report: Appendices 1-4

This file provides additional background information on the End of Year Report for the 2024 Grant Agreement between the Asia Pacific Internet Development Trust (APIDTT, the Trust) and the APNIC Foundation.

Appendix 1 : Project detailed status indicators	3
1-1 Project statistics	3
1-2 Training Delivery and Community Trainers	4
1-3 Research and Internet measurement	6
1-4 Cybersecurity: Honeynet and Threat Sharing	7
1-5 M-Root Deployment	7
1-6 APNIC Academy	8
1-7 Curriculum Development for Non-technical Audiences	9
1-8 Digital Leap South Asia	11
1-9 Switch! Gender and Diversity Project	13
1-10 Information Society Innovation Fund (ISIF Asia)	15
1-11 Foundation Community Assistance	17
1-12 Trust Discretionary Funding	18
1-13 Asian Internet Interconnection Initiatives (AI3)	18
1-14 School on Internet Asia (SOI Asia)	19
Appendix 2: Lessons learned	22
1-15 Target status and outcomes	22
1-16 Training Delivery and Community Trainers	23
1-17 Research and Internet measurement	23
1-18 Cybersecurity: Honeynet and Threat Sharing	24
1-19 M-Root Deployment	24
1-20 APNIC Academy	25
1-21 Curriculum Development for Non-Technical Audiences	25
1-22 Digital Leap South Asia	26
1-23 Switch! Gender and Diversity Project	27
1-24 Information Society Innovation Fund (ISIF Asia)	27
1-25 Foundation Community Assistance	28
1-26 Trust Discretionary Funding	29
1-27 Asian Internet Interconnection Initiatives (AI3)	30
1-28 School on Internet Asia (SOI Asia)	30
Appendix 3: Project Risk Report	31
Appendix 4: Recipients of 2024 ISIF Asia, FCA and TDF funding	32
New ISIF Asia Grants in 2024	32
2024 Foundation Community Assistance	33
2024 Trust Discretionary Funding	34

Appendix 1 : Project detailed status indicators

1-1 Project statistics

Project	Exceeded expectations	Met expectations	Below expectations	Significantly below expectations
APNIC: Training delivery (15)	6	5	3	1
APNIC: Research and Internet Measurement (6)*	2	4	0	0
APNIC: Cybersecurity and Honeynet threat sharing (3)	0	3	0	0
APNIC: M-Root Deployment (5)	0	3	2	0
APNIC: APNIC Academy (7)	3	4	0	0
APNIC: Curriculum Development for Non-technical audiences (6)*	0	5	1	0
Foundation: Digital Leap South Asia (6)	2	4	0	0
Foundation: Switch! (19)	12	6	1	0
Foundation: ISIF Asia (11)	3	7	1	0
Foundation: Foundation Community Assistance (5)	3	2	0	0
Foundation: Trust Discretionary Funding (4)	0	4	0	0
Keio: Asian Interconnection Initiatives (11)	2	4	5	0
Keio: SOI Asia (14)**	3	4	6	0
Total (111)	36 (32.4%)	55 (49.5%) Exceeded + met = 91 (82%)	19 (17.1%)	1 (0.9%)

*Data from interim report.

**One target is N/A for 2024, so 13 targets are counted in the totals.

1-2 Training Delivery and Community Trainers

Project outputs	Indicators	Annual target	Annual actual	Variations to planned proposal
Output 1: Training Events & Engagement Relevant, best practice instructor-led technical training delivered at the community level, with a focus on deployment and operations of Internet infrastructure technologies	Conduct at least 1200 hours of instructor-led training	1200 hours	1,830 hours	Exceeded. Please note the actual figure is training funded by Foundation only
	Conduct at least 4 workshops / tutorials for each core topic: - SDN / Segment Routing - Network Automation - IPv6 - Routing Security - IXP and Peering - Cyber Security	SDN / Segment Routing - 4 Network Automation - 4 IPv6 - 4 Routing Security - 4 IXP and Peering - 4 Cyber Security - 4	14 SDN Segment Routing; 8 Network Automation; 38 IPv6; 8 Routing Security; 3/4 IXP and Peering; 39 Cybersecurity	Exceeded overall. 1 fewer for IXP and peering, but more than double on all other categories.
	Achieve average training satisfaction survey rating of 80% on instructor-led training delivery	80% on average	98.2%	Satisfaction exceeded
Output 2: Internet Infrastructure Support and Technical Assistance Provide technical assistance and advice on deployment and operations of Internet infrastructure technologies on an individual, operator /community basis	Support deployment of at least two new or upgraded IXPs.	Two new / upgraded IXPs deployed	2/2	
	Support at least two IXPs to deploy ROV	Two IXPs to deploy ROV	1 deployed out of 2	
	Support development of at least four new or existing CERTs/CSIRTs (if needed)	Four new or existing CERTs/CSIRTs	4/4	
	At least one availability slot per month per SME on the Technical Assistance Platform	SMEs available at least 12 times on the Technical Assistance Platform	Ongoing	
	Minimum overall satisfaction rating of 80% for technical assistance	80% on average	100%	Exceeded.

Project outputs	Indicators	Annual target	Annual actual	Variations to planned proposal
Output 3: Technical/Security Community Support Support and participate in technical community activities	Support (program committee, technical talks, training) at least 35 technical/security community events	35 technical/security community events supported	68 events supported	Exceeded.
	Support at least one new/revived community events (if required and opportunity permitting)	Two new/ revived community events in two subregions	2 events	
Output 4: Sustainability and Scalability (Community Trainers Network) Develop and maintain a sustainable, scalable model to support the delivery of a Hybrid Flexible training model	Maintain VCTs levels at 30 across all regions	30 VCTs maintained across all regions	35 VCTs	Exceeded.
	Maintain RCTs levels at 10 across all regions (as per priority list)	10 RCTs maintained across all regions	9 RCTs	10 RCTs until 31 August 2024. 1 RCT moved to CT from September.
	RCTs deliver training 20% of their contracted time	20%	5 out of 10 RCTs delivered training 20% of their contracted time	
	Conduct 6 train-the-trainer sessions for CTs	6 train-the-trainer sessions conducted for CTs	6 conducted	
	Develop tailored professional development plans and goals for RCTs	Develop tailored professional development plans and goals for RCTs	Paused	CT program review scheduled for 2025 to re-evaluate and evolve the program

1-3 Research and Internet measurement

The below data comes from the interim report

Project outputs	Indicators	6-month target	6-month actual	Annual target	Variations to planned proposal
Output 1: Accurate measurements of IPv6 uptake, IPv6 performance, IPv6 fragmentation, DNSSEC validation, DNS resolver use, use and stability of RPKI route origin validation (ROV)	Individual measurements conducted each day	A minimum of 15M individual measurements conducted each day.	A minimum of 20M individual measurements were conducted every day https://stats.labs.apnic.net/ads	A minimum of 15M individual measurements conducted each day	Exceeded
	Measurements developed to cover all national communities	Measurements developed to cover all national communities with a national population of in excess of 100,000	Measurement scripts were placed on user systems that were located in all "significant" national economies where "significant" is a population of the national economy of the threshold of 10,000 people https://stats.labs.apnic.net/ads	Measurements developed to cover all national communities with a national population of in excess of 10,000	
	Measurement data processed and results openly published on a daily basis	All measurement data processed and openly published on a daily basis with 24 hours of the data collection	All measurements processed and published on a daily basis within 24 hours of the data collection on the APNIC Labs Measurements and Data https://labs.apnic.net/measurements/	All measurement data processed and openly published on a daily basis with 24 hours of the data collection	
	Measurements to cover the deployment of: a) IPv6, b) DNSSEC Validation c) DNS Resolver Use	Deployment measurements include: a) IPv6, b) DNSSEC Validation c) DNS Resolver Use	Deployment measure developed and made available on the APNIC Labs Measurements and Data website https://labs.apnic.net/measurements/	Deployment measurements include: a) IPv6, b) DNSSEC Validation c) DNS Resolver Use	
Output 2: Positive community feedback and citation of published measurements	Positive blog analytics	Rated 4 stars out of 5	4.1 star rating 21 blogs Jan-June 2024 https://blog.apnic.net/author/geoff-huston/	Rated 4 stars out of 5	

Project outputs	Indicators	6-month target	6-month actual	Annual target	Variations to planned proposal
Output 3: Reference to measurements in policy-making forums	# of presentations made	8	21 research presentations made: https://labs.apnic.net/presentations/	15 presentations made	Exceeded

1-4 Cybersecurity: Honeynet and Threat Sharing

Project outputs	Indicators	Annual Target	Annual Actual	Variations to planned proposal
Output 1: Sensor Deployment Maintain and grow the APNIC Community Honeynet and Security Threat Sharing Platform	Increase the number of honeypot sensors to 400 from 200 (+100% on 2023).	400 sensors	400 sensors	
Output 2: Collaboration Engage with partners to host sensors for the project	Organise quarterly honeynet & threat sharing community events (workshops, talks, seminar)	4 events conducted	4 events conducted	
Output 3: Data Analysis and Sharing Provide data feeds to DASH and share research findings via events and the Blog	Provide data feeds to DASH and share research findings via events and the Blog	Ongoing	Ongoing – daily feeds to DASH. Presentations in Hong Kong, Thailand, Bangladesh, Pakistan and Brunei	

1-5 M-Root Deployment

Project outputs	Indicators	Annual target	Annual Actual	Variations to planned proposal
-----------------	------------	---------------	---------------	--------------------------------

Output 1: Streamline M-Root Deployment Streamline M-Root deployment and operations by improving process and automation	Implement system to monitor all M-Root instances continuously	Ongoing	Ongoing	
	Shorten the lead time of each deployment	Ongoing	Ongoing	
	Handle more traffic for M-Root overall	Ongoing	Ongoing	
Output 2: M-Root Instances Identify and prepare new M-Root instances across the Asia Pacific Region and beyond in partnership with the WIDE Project and JPRS	28 M-Root instances deployed worldwide by end of 2024	28 M-Root instances deployed	27/28 M-Root instances deployed (including pre-existing instances)	
	Identify and prepare additional 11 M-Root server sites for future	11 additional M-Root servers identified and prepared	6/11 additional M-Root servers identified and prepared	

1-6 APNIC Academy

Project outputs	Indicators	Annual target	Annual actual	Variations to planned proposal
Output 1: Provide high quality, advanced training content, curriculum and certification.	Achieve at least 12,000 hours of usage in self-paced online courses and virtual labs in 2024	12,000	43,625 hours	Exceeded Significant increase in usage was intentional due to continuation of online Open Lab sessions utilising virtual labs and preference to use the virtual labs for face-to-face trainings as a quality resource.
	Achieve average satisfaction survey rating of 80% on training content	>80%	98.42%	Exceeded
	Rollout the Minimum Viable Product (MVP) for APNIC's first Training Certification Program.	MVP rolled out	Delivered two IPv6 certification workshops in Nepal and the Philippines, 62 out of 75 participants have been certified.	

Project outputs	Indicators	Annual target	Annual actual	Variations to planned proposal
Output 2: Develop and maintain the APNIC Academy as a cohesive platform that serves the training needs of the technical community in Internet-related technologies and best practices.	Maintain Academy Platform availability of at least 99.95%	99.95%	100%	
	Achieve a total of 38,000 registered users on the Academy platform in 2024	38,000 registered users	45,245 registered users	Exceeded
	Achieve all 2024 goals, according to the Academy Products Roadmap	As per roadmap	3/3 goals complete	
	Commence work on the next evolution of APNIC's Academy Platform	As per roadmap	Work has been progressed well. Planning phase and design phase are complete.	

1-7 Curriculum Development for Non-technical Audiences

The below data is drawn from the interim report, due in part to the departure of the project lead late in the project cycle. The project had already been scheduled to cease and was winding down, so very little new data was expected.

Project outputs	Indicators	6-month target	6-month actual	Annual target	Variations to planned proposal
Implementation	Reach >3000 downloads (to generate enough user volume to glean meaningful data from analytics)	1500 downloads	1757 downloads	>3000 downloads	N/A
	Establish user group/fan base of >100 users (to call upon for Evaluation and build further awareness of app)	50 users	85 users	>100 users	Given that Evaluation activities are not likely to occur on the project within the next 2 years, focus of remaining campaigns can shift away from needing to establish a user base and can focus on other priorities.

Project outputs	Indicators	6-month target	6-month actual	Annual target	Variations to planned proposal
	Satisfaction app ratings of at least 3 out of 5	> 3	Apple App store rating: 4.1 Google Play store rating: 4.33	> 3	N/A
	15-20% completion rates (based on industry averages of 15-20% for single player games)	15-20%	13%	15-20%	Substantial work on this project ended in 2023 with the 2024 activities focused on winding down the support provided through Trust funding. The project was fully transitioned to APNIC mid-year and is now closed from Foundation's perspective.
	Continued user and technical support provided	Continued user and technical support provided	Ongoing user and technical support provided	Ongoing user and technical support provided	None – Project transitioned to APNIC
	A succession plan is developed and implemented following the end-of-warranty period to ensure transition of assets and maintenance of code base from Chaos Theory to APNIC.	A succession plan is developed and implemented following the end-of-warranty period to ensure transition of assets and maintenance of code base from Chaos Theory to APNIC.	Succession plan is developed Majority of assets and code base transitioned to APNIC control.	Succession plan is developed Assets and code base have been transitioned to APNIC control/accounts	None – Project transitioned to APNIC

1-8 Digital Leap South Asia

Project outputs	Indicators	Annual target	Annual actual	Variations to planned proposal
Output one Increase awareness about APNIC and its initiatives and resources	Indicator 1: # of technical/ Internet Industry leaders informed per economy about APNIC services and products through online information sessions	5 technical/ Internet leaders per economy informed about APNIC services and technical best practices through online information session	700+ community members were engaged or informed about APNIC services and technical best practices through 21 different sessions across the year: <ul style="list-style-type: none"> • 6 AFNOG monthly sessions supported by the project, online: 128 • Afghanistan IG initiatives in 2024 (AFIGF, AFyIGF, AFSIG, AFNOG 2): 230 • SANOG 2024, Islamabad: 30 • Five sessions at the IGF 2024, Riyadh: 264 • APriIGF- Asia Pacific Regional IGF, Taipei: 104 • APNIC presentation at the welcome event: 32 	Exceeds expectations
	Indicator 2 # of web project profile page updated providing links to these services and products	1 Project profile page created	Web project profile page updated, and number of social media and email outreach conducted.	
Output two Develop technical knowledge and skills	Indicator 1 # of participants enrolled in online professional development activities (training courses) disaggregated by gender	60 participants onboarded: Afghanistan: 24 Maldives: 10; Pakistan: 26 Male: 42 Female: 18 (30% of total)	60 participants enrolled in online professional development activities (training courses) disaggregated by gender	

	Indicator 2 % of professional development plans completed and % of progress reported	100% professional development plans completed, and 80% progress reported by the participants	100% professional development plans completed thus far.	
Output three Cross-border interactive dialogue and initiatives and engagement	Indicator 1 # alumni engagement activities to introduce alumni into the forums, webinars, panels, and sessions on regional dialogue	100% professional development plans completed, and 80% progress reported by the participants	100% professional development plans completed thus far with 83% progress reporting and completion rate.	
	Indicator 2 # of community-led initiatives, events, and discussions on Internet governance (e.g. IGFs/NOGs) issues supported in the region	3 community engagement initiatives supported in Afghanistan, Pakistan, and Maldives	<ul style="list-style-type: none"> • 4 national events of Afghanistan IGF, yIGF, NOG, SIG received support. • Activities at SANOG in Islamabad, including an alumni meeting was held to introduce alumni into the forums, webinars, panels, and sessions on regional dialogue. • Consultation and advise was provided to the local community in Maldives on its NOG formation. • 19 of participants were supported to attend IGF 2024 to participate the Foundation sessions and various other learning and policy workshops. 	Exceeded expectations

1-9 Switch! Gender and Diversity Project

Project outputs	Indicators	Annual target	Annual actual	Variations to planned proposal
Output 1: Project management: Foundation staff and National Coordinators strengthened project management and M&E, design and planned project activities effectively, and review project strategy based on lessons learned	Project team satisfaction reported	80%	100%	All project staff reported they are satisfied.
	Participants record outcomes against approved PDPs	100%	100%	All participants recorded their plans, progress, and proof of accomplishment (i.e. certificates) using the PD Management App.
	Switch! project team members participate in GESI training provided and report an increase in knowledge after training is provided	90%	100%	All National Coordinators and relevant APNIC Foundation staff attended two training conducted by GESI Advisor
Output 2: Participant recruitment: Project participants signed Agreements to join the project and submit their Professional Development Plans	Participants recruitment completed	100%	100%	150 participants recruited and signed agreements
	Participants structure their PDPs and submit for approval	100%	100%	100% of participants PD Plans structured and sent for approval.
Output 3: Professional development: Project participants make progress against the PD Plans (training/certification and coaching)	Participants report greater confidence in their abilities related to the technical subjects they chose for their PDPs	70%	100%	Exceeded expectations 116/116 participants reported greater confidence in technical skills (82 strongly, 34 somewhat agree)
	Most Significant Change stories analysed include reports of increased confidence	80%	89%	Exceeded expectations 112/126 MSC stories analysed include report of increased confidence
	Participants reported monthly progress in the PDPs	70%	78%	Exceeded expectations 117/150 participants reported monthly progress in the PDPs
	Participants completed 65% or more of all courses/activities in their plan (certificate of achievement)	70%	74%	Exceeded expectations 74% of participants completed 65% or more of all courses/activities in their plan.

	Participants in coaching program complete program.	65%	74%	Exceeded expectations 40/54 participants attended at least 5 coaching sessions and submitted the completion tool survey.
	Participants report positive changes in their roles as a result of the support received	10%	69%	Exceeded expectations 80/116 participants reported in the end of year survey that they have experienced positive changes in their roles.
	Participants recognise the importance of defining and a PDP and engaging in professional development opportunities	70%	97%	Exceeded expectations 113/116 (97%) participants in the end of year survey agreed defining their own PDPs was empowering.
Output 4: Visibility & Networking: Project participants are better prepared to share their technical knowledge and expertise with the community	Participants report improved communication skills (including English proficiency, public speaking)	15%	98%	Exceeded expectations 114/116 (98%) participants in the end of year survey reported that they have improved the communication skills since their involvement in the project (including English proficiency, and public speaking)
	Participants report engagement with community activities	25%	31%	Exceeded expectations Of 116 participants that responded to the end of year survey reported that they are actively participating in local and regional Internet forums.
	At least 60% attendance from confirmed participants to National Welcome events and 80% satisfaction after welcome event survey	60%	83% attended 100% reported at least satisfied	Exceeded expectations 124 of 150 participants attended National Event. 109 participants answered the survey with 100% reporting they are satisfied with the event.
	Participants report they feel actively engaged with an inclusive and supportive community	25%	97%	Exceeded expectations 113/116 (97%) participants in the end of year survey to confirm that they intend to actively support and promote professional development opportunities that work to improve diversity and inclusion within their industry"

	Participants signed up for Orbit mailing list with at least 30% contributing online	80%	100% signed up for Orbit 29.3 % contributing online	150 participants to sign-up for Orbit since the Project Onboarding. 44/150 to contribute online via Orbit by posting and replying email on this channel (end of year survey)
Output 5: Partnerships & Collaborations: National Coordinators identify, engage and liaise with new and existing APNIC partners and other stakeholders to strengthen or develop partnerships and collaborations	At least 2 meetings, presentations or proposals are undertaken in each economy in 2024, with new or existing stakeholders	12 (2 per economy)	15	Exceeded expectations 15 meetings, presentations, and proposals conducted
	2 new partnerships or collaborations are identified for the project in 2024	2	2	ICT Watch Indonesia coordination to expand Switch! In Indonesia and USAID BEACON for future event collaborations

1-10 Information Society Innovation Fund (ISIF Asia)

Project outputs	Indicators	Annual target	Annual actual	Variations to planned proposal
Output 1: Deliver strong and efficient grant application, selection and implementation processes	# of grant proposals received	Minimum of 100 grant proposals received	Received 144 applications	Exceeded expectations No variation
	# of projects funded	Up to 20 projects selected for funding across the three program areas seeking diversity across stakeholder groups and economies	21 Grants executed across the program areas	No variation
	% of budget allocated and spent	At least 90% of grants and awards budget utilised	95% of budget utilized	Exceeded expectations No variation
	% of gender diversity in selection committees Selection committee continuation rate	50% gender diversity within Selection Committee	43% of the selection committee was female. Still waiting on selection committee participants for 2025.	As we expanded the selection committee from groups of 4 – groups of 6, there were two groups that did not have a 50% split.

	# weeks needed for processing from confirmation to first disbursement	30 day payment terms	Fluxx reports average 30 days from approval to payment for 2024	There was a significant delay in some grant payments across Sept/Oct/Nov due to pending Trust disbursement of funds. There has also been challenges outside our control with the banking system and payments to various economies.
	# weeks needed for approvals of reports	10 working days	Fluxx average less than 10 working days	No variation
	# improvements identified, documented and implemented	1 Per Quarter (based on steps in grants lifecycle)	25 Significant CI changes Based on 4 feedbacking mechanisms (SC, New Grantees, Existing Grantees, SLT requirements)	SLT requested a review and recommendation for changes in 2025. Commencement of this work in Q3. Termination process, Fellowship Process, Banking Information Form, Capacity Building Model, Travel support + grant system changes, notification, application and reporting
Output 2: Strengthen the alumni network	# knowledge sharing sessions	3 Per Quarter	50 Engagements with ISIF (Grantees, Alumni) Includes welcome and onboarding session for Selection Committee and New Grantees	
	# of social media or blog posts where appropriate	2 per Month	46 blog posts (including both APNIC and Foundation blog) related to ISIF Asia	Exceeded expectations Regular weekly posts on LinkedIn also usually focused on a completed ISIF Asia project.
Output 3: Strengthen network of partners supporting APAC Internet development	# of salesforce touchpoints to document potential partner support	Foundation in 2024 began process of moving away from Salesforce as a primary means of documenting contacts.	Discussed one partnership opportunity with KISA (with DFAT) this did not materialise in 2024, but EOI was submitted in early 2025	
	# of sessions/meetings attended by APNIC Foundation representatives in the region to showcase work	Foundation to present at events that maximize engagement across the region.	7 Presentations by AF sharing about ISIF /Projects	Key exposure occurred at CNX conference in Hyderabad and APNIC 58 in Wellington.

			9 Field visits to ISIF Grantees	ISIF Asia awards involved discussions on-site at APNIC 58 in Wellington with the 9 Award winners. Video interviews with 5 grantees at CNX in Hyderabad. Video footage gathered from 10 other grantees across course of year.
--	--	--	---------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

1-11 Foundation Community Assistance

Project outputs	Indicators	Annual target	Annual actual	Variations to planned proposal
Output 1: Fund and support Internet development activities in APAC	# of new grants allocated		29 FCA funded initiatives	Exceeded expectations Significantly higher than expected for same funding amount (from 2023 comparison)
	# of reports		9 completed reports received in 2024 20 reports expected to be completed in 2025	
	% of budget allocated	At least 90% of budget utilised (USD \$306,750)	\$308,138 granted 100%	Exceeded expectations
	# weeks needed for processing from confirmation to first disbursement	30 day payment terms	Average 32 days	
Output 2: Communications products shared with the community where appropriate	# of social media or blog posts where appropriate	As needed to promote key FCA projects- minimum of 20 social media posts per year relating to FCA activities.	29 posts on linkedin, primarily around FCA supported events such as IGF, APriGF, CNX, Pakistan Cybersecurity workshops. 7 Blog posts related to FCA including guides to events / wraps	Exceeded expectations

1-12 Trust Discretionary Funding

Project outputs	Indicators	Annual target	Annual actual	Variations to planned proposal
Output 1: Fund and support activities that advance Internet knowledge and education in the Asia Pacific in a timely manner	# of activities funded	As advised by the Trust	8 activities funded (1 publication, 5 Information Service Sponsor, 1 event and 1 other)	
	6-week processing time from confirmation from the Trust for a specific initiative to the execution of funding agreement	6 week processing	Differs	As majority of the TDFs we approved in the earlier part of the year, this indicator has become irrelevant as some were not due to be processed until the later half of the year. There were no delays.
Output 2: Promote outcomes of sponsorships on relevant outlets such as Foundation social media accounts, or blog where appropriate	# of times APNIC Foundation logo included as a sponsor/supporter	As required	7	APNIC Foundation logo displayed as sponsor/patron on 7 publications/websites/events
	# of social media or blogs posts where appropriate	0	0	A project page for each TDF was created on the Foundation website, this is updated annually. TDF projects did not involve widespread promotion in 2024.

1-13 Asian Internet Interconnection Initiatives (AI3)

Project outputs	Indicators	Annual target	Annual actual	Variations to planned proposal
Output 1: Development of a Non-Terrestrial Network (NTN) in the Asia Pacific	NTN research and development conducted by 2024	As per plan	As per plan	
	# of hardware and software deployment solutions (Foundation Metric)	5	2 (ID)	MY and PH proposals delayed (MY draft proposal done). MY/PH postponed to Q2.
Output 2: Development of inclusion, emergency-ready, disaster response network	# of emergency systems for Internet network operations deployed (Foundation Metric)	4	2 (ID)	same as above

Output 3: Promotion of Internet emergency readiness to REN communities and strategic partners	# of disaster network drills conducted	3	2 (JP and ID)	Drill in JP on track (2024 1st half). 2nd Drill in ID was postponed to Q1 2025
	# of presentations in REN meetings	3	1	Drill was postponed, so were the results for research presentations.
Output 4: Development of inclusive network among poorly served institutions	# and type of sites providing additional connectivity (beyond 2G) to underserved communities (poor neighbourhood rural) (Foundation Metric - Inclusion)	1	1 (TL)	
Output 5: Support Research and Education Network (REN) technology development and collaboration	# of installed dynamic network nodes	4	4 (ID, MY)	
	# of installed IoT nodes	25	39 (25 ID, 14 MY)	Exceeded expectations
	# of installed network sensors	5	5 (MY, ID, BD)	ID-3, BD-1, MY-1
	Research data platform installed at Keio	4	2 (JP)	Keio (JP) proposal delayed (designing new methodology)
	# of internal collaboration meetings with research and education partners	12	22	Exceeded expectations Includes monthly seminars and AI3 and SOI Asia meetings.

1-14 School on Internet Asia (SOI Asia)

Project outputs	Indicators	Annual target	Annual actual	Variations to planned proposal
Output 1: EBA (Evidence-based Approach) program EBA program redesigned, implemented and operationalized among SOI Asia community	EBA engagement activities (fieldwork programs, reviews meetings, faculty workshops, etc) implemented according to annual plan	8 (5 fieldwork programs, 2 reviews and 1 faculty meeting)	9 (2 x Minamata, Kalimantan and Vietnam FWs, 2 online courses and 3 review meetings)	Online courses introduced in Q2. One fieldwork in Japan was replaced by review activities. Other two were replaced for smaller activities. Production of a booklet with a review of EBA activities 2021-2024 started in Q3 and expected to be released in Q1 2025.
	# of students from SOI Asia partner universities participating in the program	75	39	New programs and requirements impacted the initial the number of participants.

	# of SOI Asia partner universities able to operate the program	3	2 (JP, ID)	JP (Keio), ID (ITB). Change of plans for 2024 impacted this indicator
	# of certificates issued	75	47	Includes new online courses certificates. Change of plans for 2024 impacted this indicator
Output 2: APIE program Asia Pacific Internet Engineer program developed and implemented in the SOI Asia community	APIE course components (Online, e-Workshop, Camp, and Internship) implemented as annual plan	As per plan (2 online core course runs, 2 e-Workshop series, 3 camps, 1 advanced camp, 6 internship programs)	As per plan (2 online core course runs, 2 e-Workshop series, 3 camps, 1 advanced camp, 6 internship programs)	
	# of economies from where SOI Asia students are participating in the program	8	9 (BD, ID, JP, MY, NP, PH, VN, MM, TL)	Exceeded expectations
	# of SOI Asia universities and research institutions served	12	15 (UNSRAT, BUET, HUST, TU, UB, UNHAS, KEIO, USC, USK, ITB, USM, UCSM, UCSY, UNTL, VNU-VJU)	Exceeded expectations
	High satisfaction rates and feedback	70% of certifications issued for each course with high satisfaction rates and feedback	95% (4.76 out of 5)	Exceeded expectations Result from online survey conducted after APIE Camps (UNHAS, USK, Advance)
Output 3: Portfolio system	Development of an E-portfolio platform for credential issuing for SOI Asia provided courses in partnership with AI3/SOI Asia community members and maintained/improved annually	Maintained/ improved	Maintained/ improved	

Development of a common blended learning platform	# of badges issued	1105	774	Changes in program delivery schedules and issuing criteria impacted the number of badges issued.
	# of activities (courses, fieldworks, camps, internships, etc) that offered badges for their respective accomplishees	32	13	Changes in program delivery schedules and issuing criteria impacted the number of badges issued.
	# of SOI Asia universities which accessed and had e-platform's micro-credentials issued	12	12 (UNSRAT, BUET, HUST, TU, UB, UNHAS, KEIO, USC, USK, ITB, USM, UCSM)	
	23+ new courses that adopted the E-portfolio system	23	9	2024 Plans changed to concentrate in the platform development, slowing down the increase of new courses adopting Inxignia.
	100 badges shared for job hunting and in social media	100	N/A	Due to system updates, this data cannot be properly retrieved. The team is reviewing this indicator for 2025.

Appendix 2: Lessons learned

1-15 Target status and outcomes

Project name	Target status	If no, explanation
APNIC: Training delivery	<p>Training & Events Engagement – targets exceeded.</p> <p>Internet Infrastructure Support and Technical Assistance – User satisfaction high but SME availability below goals. Targets met for new CERTs but only one out of 2 IXPs set up with ROV.</p> <p>Technical/Security Community Support – all targets met.</p> <p>Community Trainers Network - RCTs did not meet targets.</p>	<p>Challenges were encountered with IXP deployment due to external factors impacting the preparedness of local hosts.</p> <p>Not all RCTs delivered training 20% of their contracted time, due to a combination of availability, skillset, and opportunity constraints. A priority going forward is to review and evolve the CT program.</p>
APNIC: Research and Internet Measurement*	All targets met	*Data from interim report, as final report not available at time of submission.
APNIC: Cybersecurity and Honeynet threat sharing	All targets met	
APNIC: M-Root Deployment	<p>Streamline M-Root Deployment - all targets met. Ongoing.</p> <p>M-Root instances – Deployment targets not met.</p>	Delay in installation due to lack of engineering resources and migration work such as IP address renumbering & DC relocation of Cambodia and OS major upgrade.
APNIC: APNIC Academy	All targets met – usage and satisfaction scores greatly exceeded.	
APNIC: Curriculum Development for Non-technical audiences*	Project wrapped up. Interim report data shows course completion issues.	*Data from interim report, as final report not available at time of submission. Project was concluding in 2024.
Foundation: Digital Leap South Asia	All targets met. Community engagement exceeded targets.	
Foundation: Switch!	All targets met or exceeded except one target about Orbit engagement.	Orbit engagement being reviewed as to whether it is the most fitting engagement moving forward.
Foundation: ISIF Asia	<p>Granting processes –selection committee gender target not met</p> <p>Alumni network –targets met</p> <p>Strengthen partner network –targets met</p>	Proposed variation to gender representation to an average for the last 3 years to have a more realistic target.
Foundation: Foundation Community Assistance	All targets met.	
Foundation: Trust Discretionary Funding	All targets met.	
Keio: Asian Interconnection Initiatives	5 out of 11 targets were not met. Delays in both deployment and proposals cascaded to cause delays around presentations and communications outputs.	Research proposal delays often arise from changes in strategy due to fluctuating internal and partner resources. Longer fund commitments allow partners to secure those resources (human resources, in particular).
Keio: SOI Asia	6 out of 14 targets not met, and one was N/A. Lower university participation than anticipated, and lower certification and issuance of badges. 9 courses adopted E-portfolio system instead of 23.	Micro-credentials require greater implementation guidelines for universities. Enhanced advocacy through regional outreach and case studies to drive broader adoption is needed.

1-16 Training Delivery and Community Trainers

Key Learning	Action	Action Status
Scaling training programs to meet the diverse needs and growing demands of the community is crucial for effective capacity building. This requires flexible delivery methods and continuous program evaluation to ensure ongoing relevance and impact.	Develop current and accurate training content with standardised modular design to support blended learning (instructor-led and self-paced)	<ul style="list-style-type: none"> In progress - starting with implementing training content lifecycle management process, the establishment of a content review committee for increased governance and transparency in content creation and maintenance, plus the item from the 2025 Activity Plan to modularise 10 days of content in two specific topic areas. Develop open-access train-the-trainer program to support community-led training
Enhanced visibility of technical assistance (TA) expert availability, case types, and a clear definition of TA scope can increase expert participation and improve data collection, ultimately supporting more informed program decision-making	Explore improvement of data collection and reporting of TA with Salesforce and Academy Product teams	In progress
Regular review and improvement of the CT program will maximize its efficiency and effectiveness, ensuring its long-term sustainability and contribution to APNIC goals.	Review the CT program and make adjustments	In progress. Development is conducting a full review of the RCT program with an outlook to make significant changes. This includes how to move the program closer to the goals in respect to Community-Led Training.

1-17 Research and Internet measurement

The below data comes from the 2024 interim report.

The project has effectively met its targets, with individual measurements consistently exceeding the daily goal of 15 million, reaching a minimum of 20 million each day. Measurement scripts have been successfully deployed in national economies with populations over 10,000, and data processing and publication have adhered to the 24-hour turnaround requirement. Community feedback has been positive, with a blog rating of 4.1 stars out of 5, surpassing the target. Additionally, the number of research presentations made has significantly exceeded expectations, with 21 presentations delivered compared to the target of 15. Overall, all project outputs are on track and no significant variations from the planned proposal have occurred.

Successes	Effect on project	
Exceeding the daily measurement target	This positively impacted the project by providing more comprehensive data and enhancing the accuracy and reliability of our measurements across national economies.	
Challenges	Effect on project	Actions taken for challenges
Scaling and maintaining consistency in script deployment	While the project has managed to deploy scripts effectively, doing this across diverse national economies with varying network conditions can be complex.	This challenge requires continuous adaptation and monitoring to ensure uniform measurement quality and reliability.

Lessons learned and recommendations

Reliable large-scale measurements continue to be a critical aspect of the Internet, informing all stakeholders of the true nature of network infrastructure and its behaviours. This lesson highlights the importance of having adaptable measurement tools and processes to handle diverse and evolving network environments. Future projects should incorporate scalable and adaptable measurement solutions, with mechanisms in place for ongoing monitoring and adjustment to ensure consistent data quality.

1-18 Cybersecurity: Honeynet and Threat Sharing

Key Learning	Action	Action Status
This project relies on many free and open-source software. In the future there might be a risk that some of the software is no longer maintained. This may affect our Honeynet infrastructure.	Think of possible options to mitigate this risk. It could be in the form of funding/support for some of the projects or reduce dependencies.	In progress

1-19 M-Root Deployment

Identified sites under negotiation and preparation	MoU Signed	Equipment delivered and deployment in progress	In operation starting 2024
Papua New Guinea (PNGIX)	Myanmar/Mandalay (MMIX)	Philippines/Quezon City (PhOpenIX)	Nepal/Kathmandu (NPIX)
Samoa (Samoa IX)	China/Wuhan (CERNET)	China/Jinan (CNNIC)	Pakistan/Lahore
Saudi Arabia/Jeddah (Equipment procured by Center3) - identified in 2024	Kazakhstan (Kazakh Telecom)	New Zealand (REANNZ) - identified in 2024	India/Mumbai
India/Ctrls (Equipment procured by Ctrls) - identified in 2024	Bhutan (BTIX) - identified in 2024	Lao PDR (LANIC)	Bangladesh/Dhaka
Vanuatu (TBD) - identified in 2024	Tuvalu (Tuvalu Communications)	Sri Lanka/(DIALOG)	Brazil/Sao Paulo (Equipment procured by NIC.br)
Timor-Leste (TBD) - identified in 2024			Maldives/Malé (MVIX)
Fiji/FJIX			India/Kolkata (IIFON)

Key Learning	Action	Action Status
Delay in installation due to lack of engineering resources and various migrations work such as IP address renumbering & DC relocation of Cambodia and OS major upgrade.	Recruit an undergraduate student to help WIDE Project for deployments	Completed
Australian government DEC permit requirements caused significant delays in procurement and project progress.	Investigate relevancy of DEC permit for this project	Completed – DEC Permit no longer required after legal review (but sanctioned economies will require other permits)
Sanctioned economies will require sanctions permit and brokering permit from the Australian Government.	Apply for permits for sites in those sanctioned economies when identified	In progress for Myanmar
Project progress in Pacific Island countries was hampered by limited local engineering resources, competing project priorities, and challenges in securing equipment vendors.	New Deployment of Local Root especially for low population countries/economies that are simple and scalable	In progress

1-20 APNIC Academy

Key Learning	Action	Action Status
Training Delivery has exceeded expectations to date, and usage of the APNIC Academy has mirrored this success, surpassing the projected targets. Note [shared goals for success]	Continue to serve the training needs of the technical community	Academy Platform availability has been maintained at 100% in 2024
High demand for IPv6 certification workshops, we have received over 200 expressions of interest, while only two workshops can accommodate a maximum of 80 participants.	Increase the number of IPv6 certification workshops planned in 2025	Four IPv6 certification workshops have been included in 2025 Activity Plan

1-21 Curriculum Development for Non-Technical Audiences

The below data is drawn from the interim report, due in part to the departure of the project lead late in the project cycle. The project had already been scheduled to cease and was winding down, so very little new data was expected.

Funding constraints meant the first part of 2024 focused on maintenance to give more emphasis to key events in the second part of the year. The Minimum Viable Product (MVP) remains available on the Google Play and Apple App store and has remained updated and periodically tested to ensure it functions as it did at release. Feedback is being monitored to ensure any user issues are addressed. Reviews and anecdotal feedback suggest a positive reception. Since March 2024, there has been a handover process for assets and code from the external development company Chaos Theory Games, to APNIC. There has been investigation of maintenance requirements moving forward, and it was determined Chaos Theory Games was the best value to continue providing these services beyond the end of warranty in late August. The team have focused on promotional activities for the app, including a comms plan and key messaging, as well as a merchandise plan. A campaign was run as part of APIGA to a limited cohort that fits the target audience. This yielded good participation rates with the app and an overall a completion rate of 25% of attendees.

Plan of action for next six months

The familiarization of APNIC staff with the inner workings of the app and the actions to be taken to monitor and ensure the health of the app for ongoing availability on the app stores, and the creation of a blueprint that outlines the preparatory steps and implementation plans for the various promotional campaigns that should be run each year (for example, 'how to run the promotional competition at APIGA').

Successes and challenges

Successes	Effect on project	
Promotional activities and limited campaigns implementation have run smoothly and have yielded positive results	Promotional activities to date have all resulted in positive outcomes for the project. During and following each campaign there is a clear uptick in new-user downloads. Aside from monitoring download figures, we also closely monitor reviews and ratings on both distribution platforms as a result of campaigns. With each campaign, new reviews and ratings are added to each store and have, thus far, been overwhelmingly positive.	
Have transitioned from external to internal technical support for the identification of user issues	Internal APNIC IT-based resources are now assisting with monitoring the health of the app on the Google Play Store and the Apple App Store. These individuals are engaged. They are identifying and immediately reporting technical issues to external project resources. This is enabling the team to rapidly respond and manage issues.	
Challenges	Effect on project	Actions taken for challenges

Successes	Effect on project	
As internal communications, graphic design and education resources are not responsible or accountable for this project in their roles, there is limited engagement from these stakeholders.	It has been difficult to engage stakeholders when the app isn't their immediate priority, or they don't have capacity. This situation is exacerbated because the need to engage with these stakeholders is directly tied to events, they are preparing that take up their capacity. This limited support is restricting our ability to achieve project outcomes by creating delays in merchandise design and procurement, increased costs for timely delivery, and limiting activities possible in promotions.	Improvise alternative (and possibly less effective) merchandising options, reallocate remaining budget (resulting in fewer items available for promotions in FY2024), reprioritizing immediate activities, including allocating additional time to building relationships with stakeholders.

1-22 Digital Leap South Asia

Key Learning	Action	Action Status
Shorter period of support increases anxiety among employees and participants around their ability to complete plans.	<ul style="list-style-type: none"> Extensions, on case-by-case basis, were approved in 2024 for the courses activities that required longer duration to complete. Continue project and organizational, process and efficiency changes for 2025. 	Completed
A multi-year approach for the project can alleviate stress and anxiety from short-term funding.	Expanding the project's collaborative network, continue building partnerships on local levels, diversifying funding, mobilize more resources on local and regional levels to ensure long term sustainability.	Recommendation for the project for 2025 and beyond.
Course completion rates are complex and require research and improvement.	Plan enhancements in 2025 which may include more coaching and mentorship activities, trainers and peer support groups improving quality, completion rates, particularly in regions facing digital access challenges.	Recommendation for the project for 2025 and beyond.
Continued skill demand analysis and allocating resources to cybersecurity, network management and other future skills will address the demand and skills gap in these areas.	Expand offerings in high-demand fields such as network operations, cybersecurity, data analytics and future tech to ensure relevance and adaptability in an evolving digital landscape.	Recommendation for the project for 2025 and beyond.
Resource limitation in the project causes burnout, in times, impacts employee production and productivity and project milestone delivery and work quality.	Utilizes local volunteer force from within the DLSA alumni to help with the operational and community aspects of the project, as well as to offer a career development and recognition opportunity to the participants.	Recommendation for the project for 2025 and beyond.
Providing community members with tools and resources empowers them to create local partnerships, expand the project impact and reach (across many regions, industries and vertical sectors) and contribute to its long-term sustainability.	Strengthen collaborative networks, supporting community-led initiatives like local IGFs, NOGs and SIGs, build more partnerships (including facilitating PPPs) with and empower the local emerging centers by enhancing	Recommendation for the project for 2025 and beyond.

	their access to global learning and certification platforms.	
Naming conversion improvement has a direct impact on clarity on expectation and alignment of various project components.	Use the term “scholarship” for the skill building support and “fellowship” for more hands-on/ aspects of the project, e.g. conducting research and local projects (e.g. national NOGs and IGFs), and communities of practice for the community-led initiatives (e.g. IGFs, NOGs etc).	Recommendation for the project for 2025 and beyond.

1-23 Switch! Gender and Diversity Project

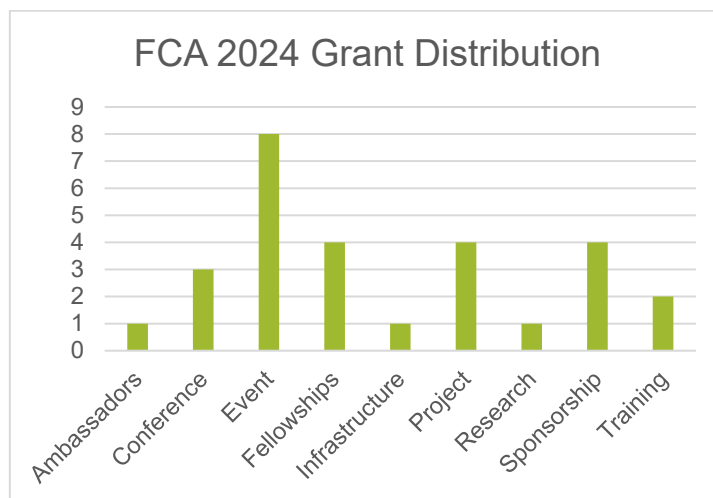
Key Learning	Action	Action Status
Shorter period of financial support increases anxiety among participants around their ability to complete their Plans	Project would benefit from multi-year financial support to alleviate stress and anxiety from short-term funding	This is a recommendation to the Trust.
Cross-project meeting with Digital Leap proved helpful to explore more ways to synchronize timelines and vendors, share lessons learned, collaborate and achieve more alignment between projects.	Continue monthly Projects Portfolio meeting.	Monthly meeting scheduled for the year.
Planning of project activities and timeline in advance and meeting face to face as a team to finalise has improved project opening activities for 2025	Planning strategies implemented	OKR, Activity Management Plan, and Travel Plan to be completed EOY
National Coordinators regular monitoring of participants progress to has helped participants keep motivation up	Assign target for National Coordinators to monitor progress across project	KR for 2025 was added (70% of project participants are actively engaging in the project activities by reporting progress regularly on their PDP)

1-24 Information Society Innovation Fund (ISIF Asia)

Key Learning	Action	Action Status
The three-week timeline for application review was insufficient, given other Foundation demands. Future planning and alternative resourcing support will ensure more realistic timelines	Investigate access to a small selection of technical experts to support the application review and progress,	Will commence in 2025
Technical review resources provide valuable insights into project impact, outputs, and outcomes, informing recommendations for sharing stories and expertise with the broader technical community	Re-engage technical review contractors. Ensure they are active in the industry and at key conferences and/or run Internet development project.	Will commence in 2025
Project reporting, summarisation, and sharing of information to amplify our impact has been constrained.	Review and refining the Comms strategic plan	Will commence in 2025

<p>This could be attributed to limited resources and alternative platforms on offer.</p> <p>Technical reports are published on the A-F website, and a blog/social media response is posted.</p>	<p>with a dedicated focus on ISIF</p> <p>Developing a comprehensive communications schedule with defined outcomes</p> <p>Strengthening internal and external collaborations to leverage key messaging and position statements</p> <p>Outline measurement to impact</p>	<p>Fluxx system now has basic capabilities to commence pilot.</p> <p>Integrate and pilot Fluxx automated summaries to help improve communication and promotion strategy.</p> <p>Communication targets and measurement review – not yet started.</p>
<p>Attending philanthropy events (e.g. Philanthropy Australia/FluxxCon) provided valuable insights into what other funders are doing and their strategic approach including networking opportunities. Would be value add for Board and /or Trust.</p>	<p>Table with CEO</p>	<p>Not yet started</p>

1-25 Foundation Community Assistance



Key Learning	Action	Action Status
<p>Ambassador funding (inclusive of travel) requires different grant management needs. Fluxx requirements were drafted and pilot, but further investment and testing is needed. Currently the process is overly cumbersome and integration with finance is limited to only USD\$ (where sometimes we need to pay in AUD).</p>	<p>Adequate time for development and testing of Fluxx modules to be used during the following year should be accommodated as part of the annual planning, so that modules can be fully developed, tested and adjusted before going live.</p>	<p>On hold</p>

	Review requirements and the utilisation of Fluxx.	
Direct sponsorship arrangements and T&C have different grant management requirements than projects and initiatives (which the system has historically been built for).	Review requirements and the utilisation of Fluxx and associated reporting.	Not yet started
Increased demand for support requires clearer criteria for selection and carefully crafted communications so that organizations that are rejected remain positive about the engagement with the Foundation and consider partnerships in other possible areas of work. At the same time, there is a need to ensure that organizations do not look at the Foundation for a constant source of funding or assume that they will always get funding on request. There is also a need to diversify the organizations funded so funding does not only go to a select few.	New leadership review across strategic intent.	Commenced
Investigation and analysis of the current state of the region should be undertaken. There is a need to see which economies are underperforming or lack the Internet infrastructure foundations to effectively operate. In addition further investment into key topics of research to share with the community to help raise the awareness and elevating decision making for technical policies and procedures	Analysis of the region on core operating needs (and where each economy sits) Prioritise key research topics for technology policy makers (FCA Bond Uni Law Clinic 2022 as an example) Strategic roadmap	Not yet started

1-26 Trust Discretionary Funding

Key Learning	Action	Action Status
Organizational contacts are important to maintain, changes lead to delay in processing time.	Having more than one contact on applications	Recommend making it a requirement to have at least 2 different contacts not the same person for all.
Having all TDFs pre-approved by the Trust instead of case by case, made processing more efficient	Pre-approval of all TDFs early in the year.	Follow process from 2024 for 2025

1-27 Asian Internet Interconnection Initiatives (AI3)

Key Learning	Action	Action Status
Research proposal delays often arise from changes in strategy due to fluctuating internal and partner resources. Longer fund commitments allow partners to secure those resources (human resources, in particular).	Develop flexible project timelines and contingency plans to mitigate the impact of resource constraints, ensuring consistent progress despite unforeseen delays.	To continue in 2025
Buy-in from local stakeholders, such as governments or enterprises, is essential for implementing projects with broader social impacts, like the CBR3a sensor installations at bus stops.	Foster early collaboration with local authorities and stakeholders, integrating their feedback into project design and execution to secure their support and ensure scalability.	To continue in 2025
Recruiting additional partners for collaborative projects can be challenging without tailored strategies that address their specific needs and incentives.	Expand targeted outreach and incentive programs to attract new partners with aligned goals, while ensuring flexibility in collaboration models to accommodate diverse capabilities.	To continue in 2025

1-28 School on Internet Asia (SOI Asia)

Key Learning	Action	Action Status
Strong engagement boosts the success for partnership commitment and collaboration improvements	Strengthen partnerships by providing customized support for each partner. Cases like better participation of TL (AI ³), TH (EBA) and VN (APIE), NP (OS)	To continue in 2025
Improved learner engagement leads to higher completion rates on online courses	Better onboarding and structured learner support to sustain the increase online courses completion rates (APIE and EBA)	To continue in 2025
Micro-credentials are gaining recognition but require more robust investments to attend to the needs of programs and partners, and to allow expansion.	Provide implementation guidelines for universities and enhance advocacy through regional outreach and case studies to drive broader adoption.	To continue in 2025

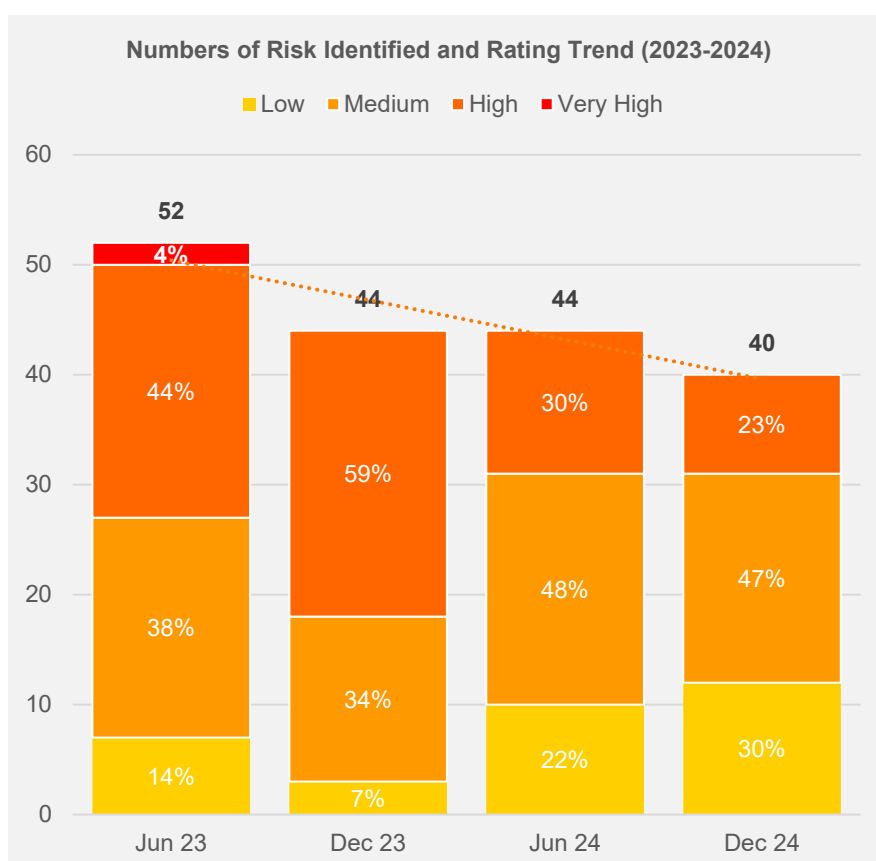
Appendix 3: Project Risk Report

The APNIC Foundation has implemented an effective project risk management framework to proactively identify, assess and mitigate potential challenges. A structured approach—combining risk identification, analysis, and response planning—helps minimize disruptions, and enhance the project delivery and maximize impact. Quarterly risk assessments, clear accountability, and proactive mitigation strategies ensures projects can navigate risks effectively to achieve their goals. A comprehensive risk register is maintained to track evolving risks, refine strategies and strengthen resilience, safeguarding long-term project success.

The below table and graph illustrate a steady decline in the total number of identified risks over the two-year period from 2023 to 2024, decreasing from 52 in June 2023 to 40 in December 2024. This trend reflects the effectiveness of the enhanced risk management practices. Notably, high and very high risks have declined, with no very high risks recorded since December 2023. While medium-risk cases have fluctuated, low-risk cases have increased, indicating a positive shift toward more manageable risk levels. These trends highlight the impact of ongoing mitigation strategies and reinforce the Foundation's commitment to proactive risk management.

Identified Risk Table (2023-2024):

Assessment Date	Low	Medium	High	Very High	Total
Jun 23	7	20	23	2	52
Dec 23	3	15	26	0	44
Jun 24	10	21	13	0	44
Dec 24	12	19	9	0	40



Appendix 4: Recipients of 2024 ISIF Asia, FCA and TDF funding

New ISIF Asia Grants in 2024

Program Area	Grant size	Economy	Project title and link
Inclusion: Environment	USD 30,000	India	Unboxing Internet Infrastructures: The environmental costs of the Internet and what you can do about it
Inclusion: Environment	USD 85,000	Thailand (orgs in Vietnam, Singapore)	FIREfly 2.0: Enhancing Forest Fire Monitoring and Biodiversity Conservation with an UAV-Based IoT System
Inclusion: Environment	USD 30,000	Thailand	Empowering Communities, Mitigating Risks in Nakhon Si Thammarat: An AIoT System for Real-Time Landslide Monitoring
Inclusion: Environment	USD 85,000	India	Scale-up of DASH: AI/ML and IoT-powered unified system for wildfire prediction, detection and mitigation
Inclusion: Environment	USD 150,000	Indonesia	Light to Sumba – Small Scale Solar and Wi-Fi Hubs from Repurposed Lithium-Ion Batteries
Inclusion	USD 30,000	India	Manipur CAN: Internet Resilience for Rebuilding Lives in Conflict-Affected Zones in Northeast Himalayan Region
Inclusion	USD 150,000	Samoa, Tonga, Fiji, Cook Islands, New Zealand (org)	Safe Silver Surfers in the Pacific
Inclusion	USD 30,000	Bangladesh	Online Accessible E-Book for school-going children including children with disabilities
Inclusion	USD 30,000	Philippines	Improved quality of education through meaningful and efficient access to the Internet
Inclusion	USD 85,000	Bangladesh	Digital Literacy for the Masses
Inclusion	USD 30,000	Nepal	Bridging the Digital Divide: Empowering Rural Schools with ICT
Inclusion	USD 85,000	Pakistan	Digital Taleem Apki Dehliz Per (Digital Education on Your Doorstep)
Infrastructure: IPv6	USD 150,000	Indonesia	Empowering Rural ISPs in Indonesia with IPv6 through 464XLAT Technology
Infrastructure: IPv6	USD 250,000	Solomon Islands	Solomon Islands IPv6 Readiness Project
Infrastructure: IPv6	USD 30,000	Indonesia	Unlocking the Potential of IPv6: Empowering Schools, Hospitals, and Citizens in City Wide South Tangerang's Digital Transformation
Infrastructure: IPv6	USD 45,000	Cook Islands	Vakanet IPv6 Deployment
Infrastructure	USD 85,000	Myanmar	Internet Exchange for a Remote City
Infrastructure	USD 85,000	Mongolia	MISPA-IX 2nd location
Knowledge	USD 30,000	Bhutan	Enhancing Digital Literacy and Security Awareness in Eastern Bhutan
Knowledge	USD 150,000	Sri Lanka	AP-GAINED: Asia Pacific – Generative AI Integration for NREN Enhancement and Development

Knowledge	USD 30,000	Malaysia, Taiwan, Singapore, Thailand, Laos	Design, Development and Transfer of Technology of a P4-based SDN Security Playground across multiple economies
-----------	------------	---------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------

2024 Foundation Community Assistance

Program area	Grant size	Economy	Project title and link
Inclusion	USD 10,000	India	FCA: CNX and DCS Summit 2024
Inclusion	USD 5,000	Dubai / Asia Pacific	FCA: Connecting the Unconnected (CTU) Challenge 2024
Inclusion	USD 17,500	Thailand	FCA: Global Digital Development Forum - APAC Hub 2024
Inclusion	USD 2,500	Bangladesh	FCA: bdNOG18 support 2024
Inclusion	USD 30,000	Taiwan, Hong Kong, Asia Pacific	FCA: APriGF Fellowships and logistics support 2024
Inclusion	USD 22,180	Asia Pacific	FCA: APAC Internet Standards Ambassadors
Infrastructure	USD 2,403	Samoa, New Zealand	FCA: Facilitating LTE equipment donation to Samoa 2024
Knowledge	USD 13,800	Saudi Arabia, Asia Pacific	FCA: Participation in IGF 2024
Knowledge	USD 7,000	Pakistan	FCA: Cyber Awareness Bootcamps 2024
Knowledge	USD 15,000	Japan	FCA: IXP Research 2024
Knowledge	USD 2,425	Australia	FCA: Sponsorship of aulGF 2024
Knowledge	USD 1,700	Sri Lanka	FCA: Sponsorship of IGF Sri Lanka 2024
Knowledge	USD 5,000	India	FCA: WSA Grand Jury Meeting 2024-2025
Knowledge	USD 15,000	Japan	FCA: IXP Research 2024
Knowledge	USD 15,000	Tonga	FCA: Establishing a SOC for Tonga 2024
Knowledge	USD 15,000	Vanuatu	FCA: Establishing a SOC for Vanuatu 2024
Knowledge	USD 15,000	Bhutan	FCA: Establishing a SOC for Bhutan 2024
Knowledge	USD 7,500	Japan	FCA: Preparation for APNG Camp 2025 (2024)
Knowledge	USD 5,000	Laos	FCA: LANOG Fellowships 2024
Knowledge	USD 10,000	Pakistan	FCA: Deliver high-quality, accessible training programs tailored to meet local NOG needs in Pakistan 2024
Knowledge	USD 5,000	United States, Australia	FCA: ACM SIGCOMM Bronze Sponsorship 2024

Knowledge	USD 17,300	Australia	FCA: Digitizing the Ian Peter Archive 2024
Knowledge	USD 10,000	Singapore	FCA: SANOG Strategic Planning Event 2024
Knowledge	USD 10,000	Korea	FCA: APIGA Event 2024
Knowledge	USD 10,000	Taiwan	FCA: Preparation for RightsCon 2025 (2024)
Knowledge	USD 20,000	Taiwan	FCA: FIRST Asia-Pacific Regional Symposium 2024
Knowledge	USD 10,000	Taiwan	FCA: Asia-Pacific Digital Rights Assembly 2024 (DRAPAC24)
Knowledge	USD 10,000	India, South Asia	FCA: SANOG Fellowships 2024
Knowledge	USD 7,500	Thailand	FCA: APNG Camp 2024

*There was one additional payment under Foundation Community Assistance via an invoice of USD 4,800 for a dinner event organised with the APT Telecommunication/ICT Development Forum (ADF) that was not included above.

2024 Trust Discretionary Funding

Program area	Grant size	Economy	Project title and link
Knowledge	USD 10,000	US, Asia Pacific	Support for PeeringDB 2024
Knowledge	USD 75,000	Japan, Indonesia, Thailand, Singapore, Malaysia	Support for WCAP 2024
Knowledge	USD 17,000	UK, Asia Pacific	Support for IXPDB 2024
Knowledge	USD 100,000	US, Asia Pacific	Support for CyberGreen Institute 2024
Knowledge	USD 100,000	US, Asia Pacific	Support for Shadowserver 2024
Knowledge	USD 29,000	Ireland, Asia Pacific	Support for IXP Manager 2024
Knowledge	USD 8,500	Thailand	Support for AINTEC conference 2024
Knowledge	USD 50,000	US, Asia Pacific	Support for the Internet Protocol Journal 2024