APNIC Update for ARIN 51

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Services Director

APNIC Region

South Asia

Afghanistan
Bangladesh
Bhutan
British Indian Ocean Territory
India
Maldives
Nepal
Pakistan
Sri Lanka

South-eastern Asia

Brunei Darussalam
Cambodia
Christmas Island
Cocos (Keeling) Islands
Indonesia
Lao People's Dem. Republic
Malaysia
Myanmar
Philippines
Singapore
Thailand
Timor-Leste
Vietnam

Australia & New Zealand

Australia
New Zealand
Norfolk Island

Eastern Asia

China
Dem. People's Rep. of Korea
Hong Kong SAR
Japan
Macau
Mongolia
Republic of Korea
Taiwan

Micronesia

Fed. States of Micronesia
Guam
Kiribati
Marshall Islands
Nauru
Northern Mariana Islands
Palau

Melanesia

Fiji
New Caledonia
Papua New Guinea
Solomon Islands
Vanuatu

Polynesia

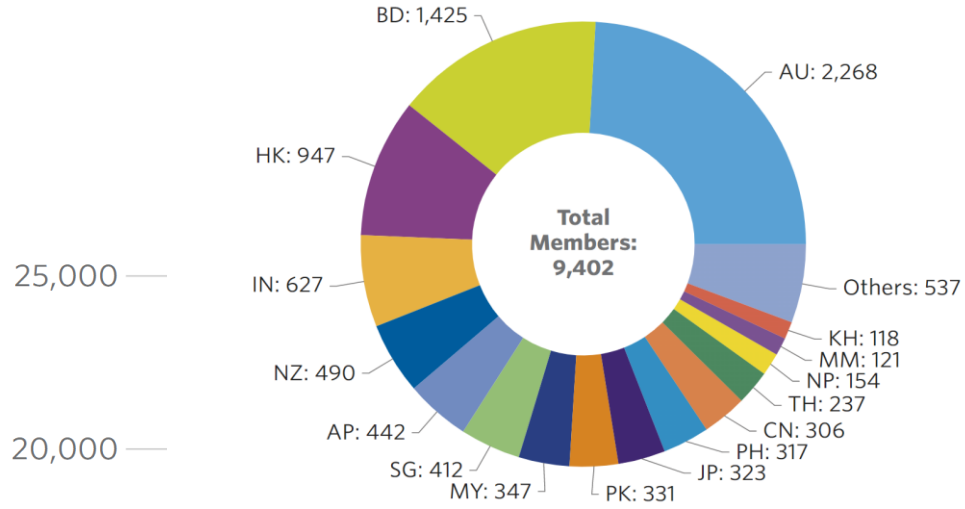
American Samoa
Cook Islands
French Polynesia
Niue
Pitcairn
Samoa
Tokelau
Tonga
Tuvalu

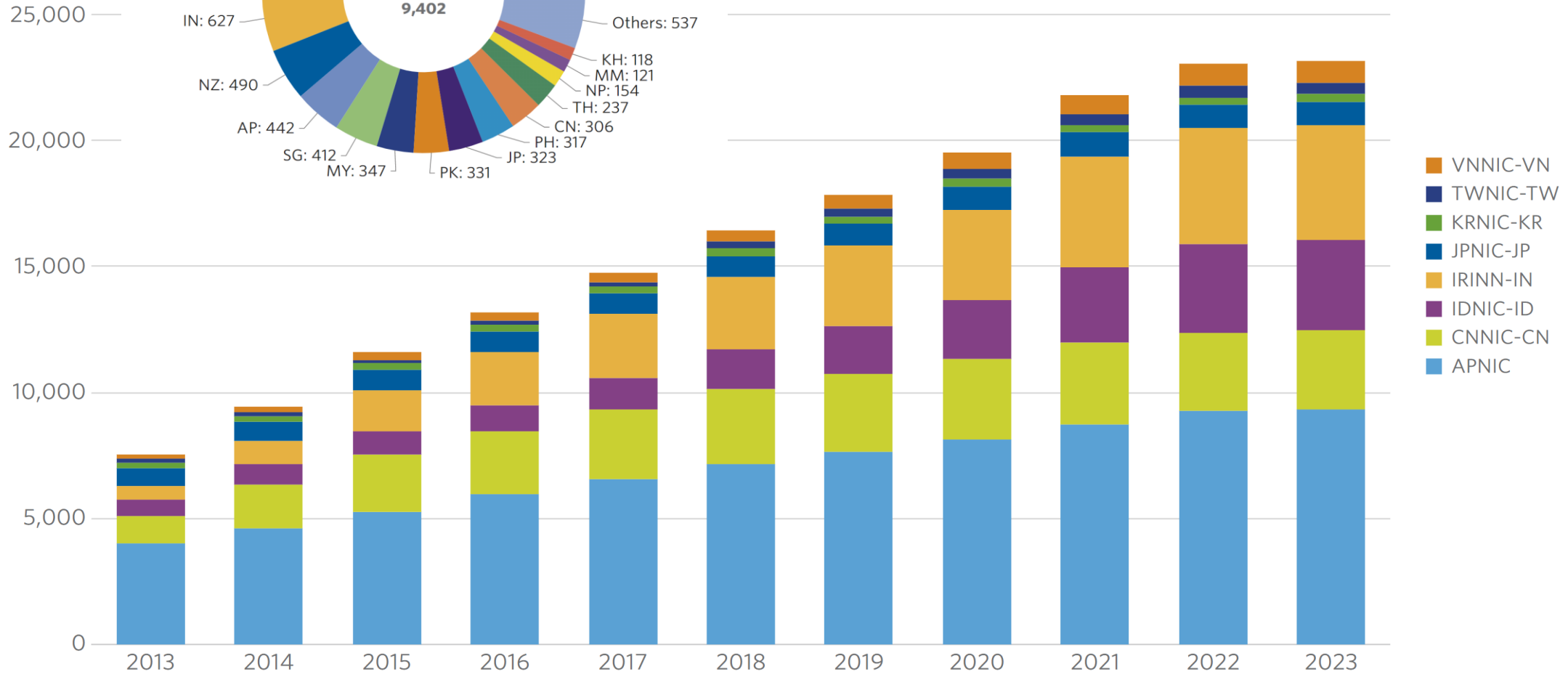
National Internet Registries (NIR)

- IDNIC (Indonesia)
- CNNIC (China)
- IRINN (India)
- JPNIC (Japan)
- KRNIC (Republic of Korea)
- TWNIC (Taiwan)
- VNNIC (Vietnam)

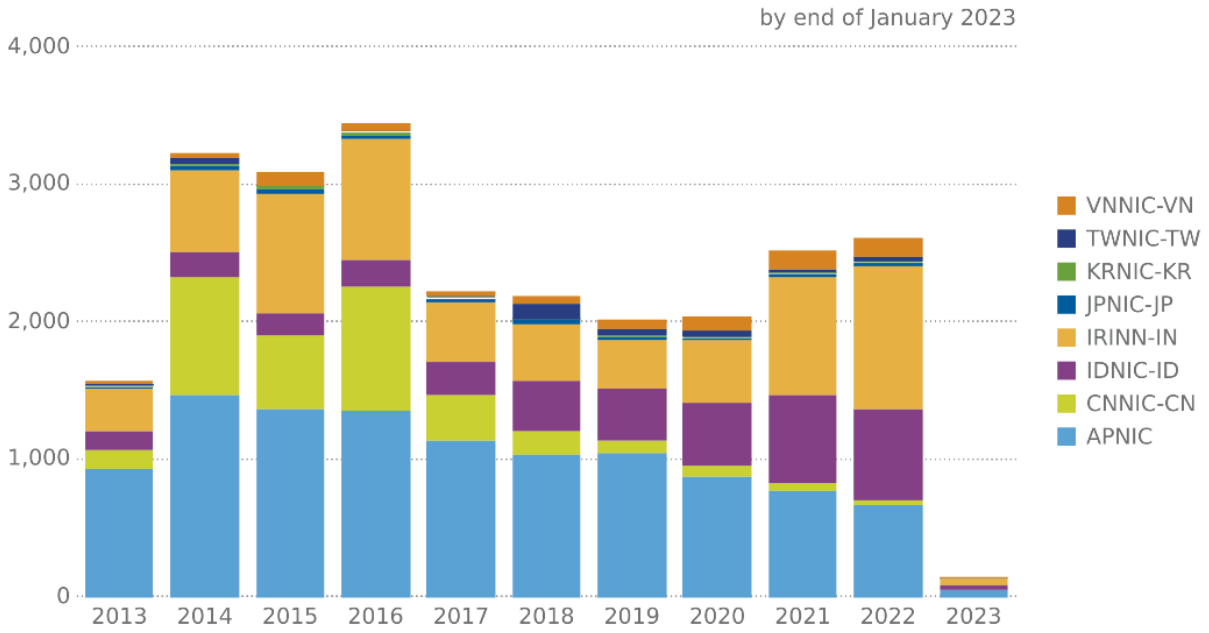
Membership

Membership breakdown by end of February 2023

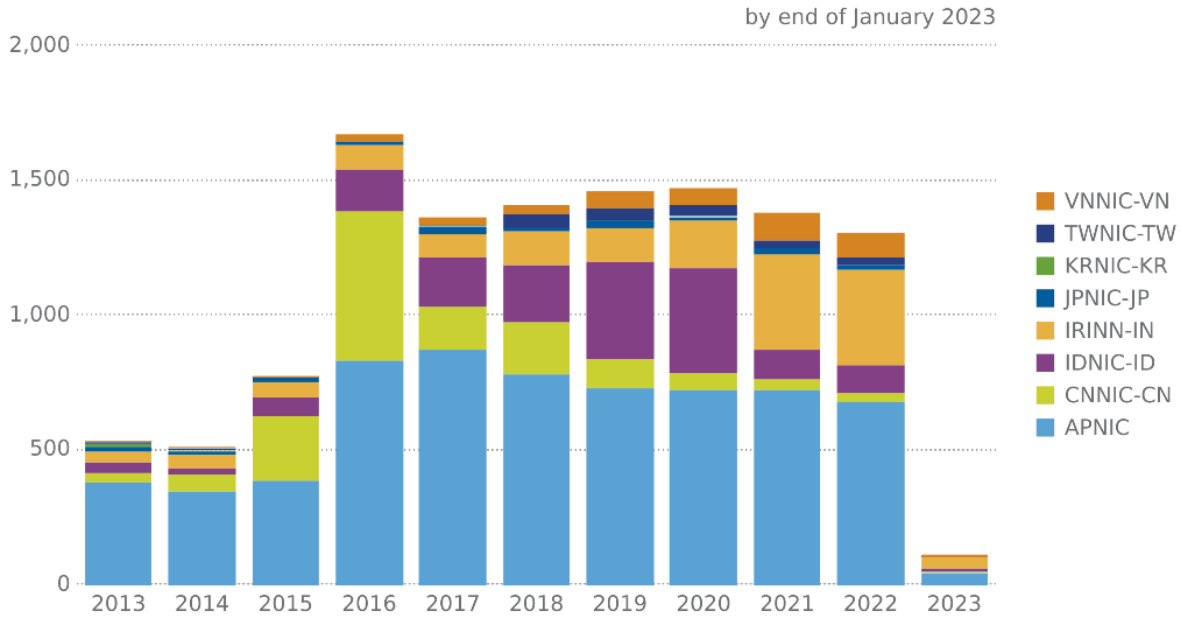




IP address delegation including NIR (10 Years)

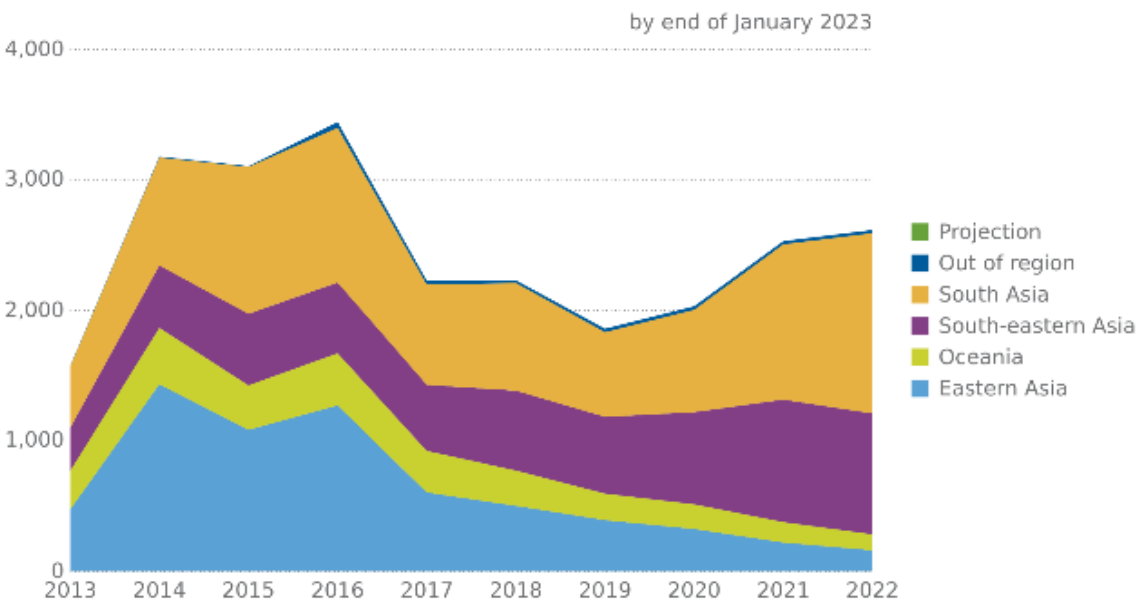


IPv4

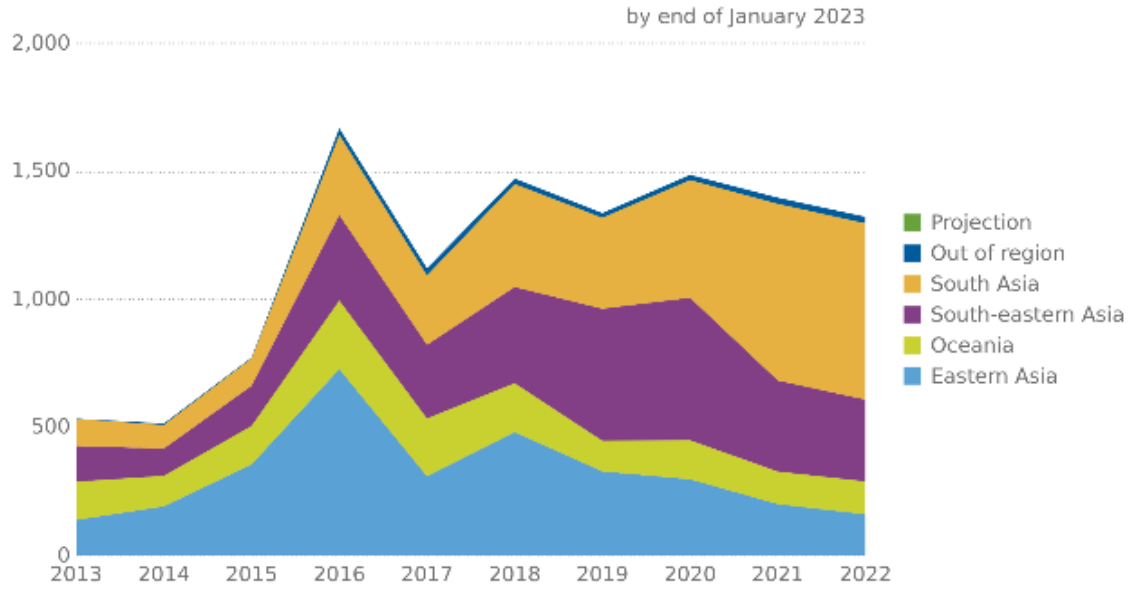


IPv6

Resource delegations by region (10 Years)



IPv4



IPv6

IPv4 transfers (10 Years)

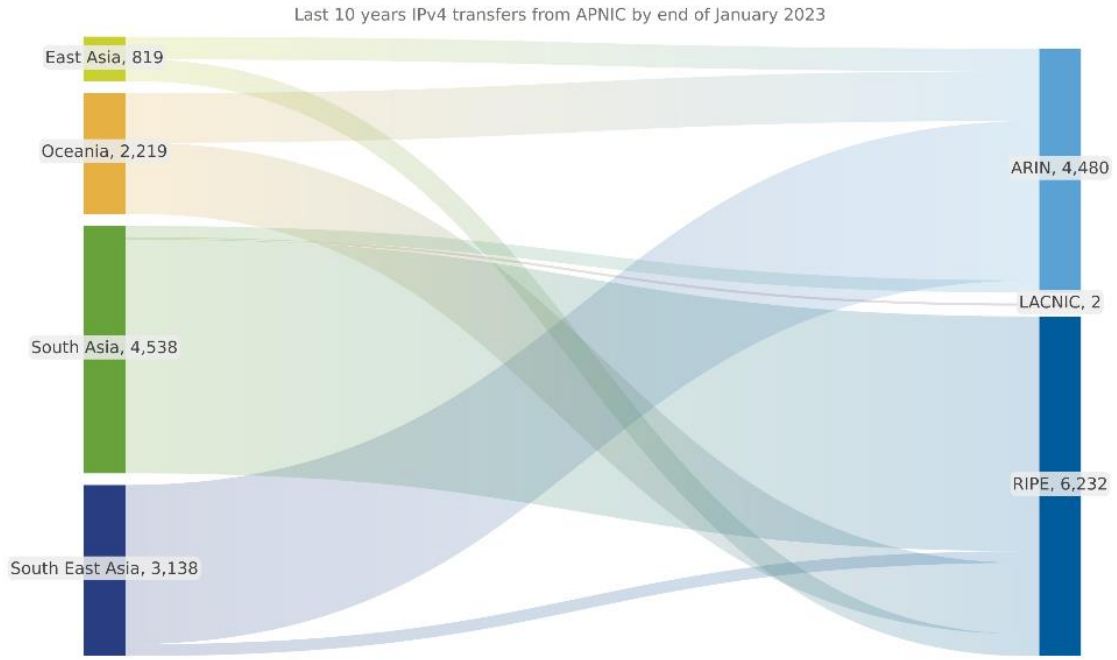
Sources → Recipients

Out of the AP region

Within the AP region

From other regions

Transfers out vs transfers in



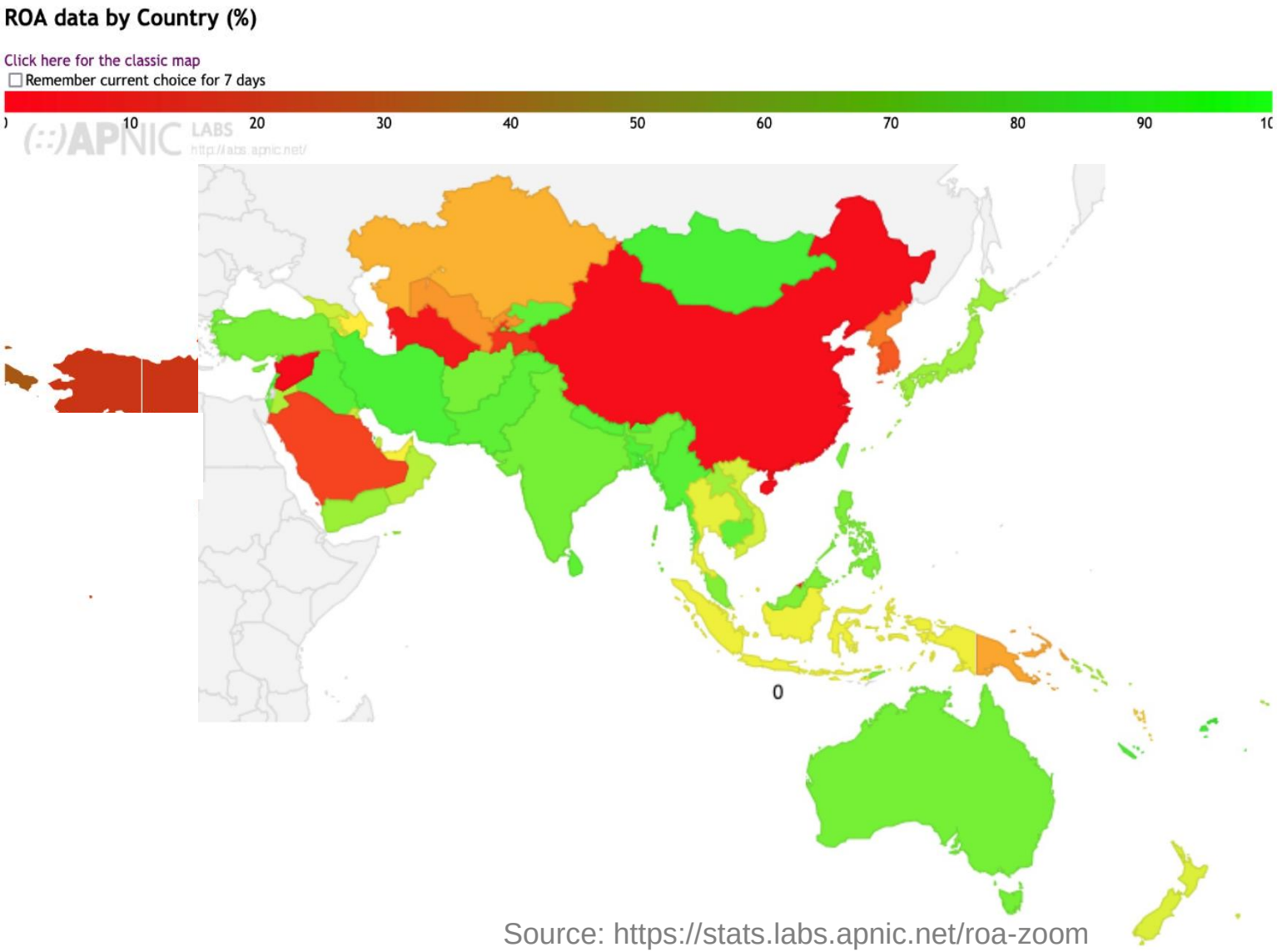
Sources

Recipients

Out of the AP region

From other regions

ROA Asia Pacific coverage



Source: https://stats.labs.apnic.net/roa-zoom

- 60% of respondents from 2022 APNIC Survey indicated their organization had not deployed RPKI
- 38% said they did not have the knowledge and expertise to deploy it
- Registry requires continued investment to meet the architecture, availability, and robustness requirements of RPKI

IPv6 uptake in the AP region

- In 2022, 8 economies are above average, 8 average and 9 significantly below average, for a total of 25 from 56
- 44% of the region's economies are now visible in IPv6 capability (above 1%)

BL	77.97%	IN	75.90%	BE	69.30%	FR	66.39%	SA	64.54%	DE	62.55%	GR	60.96%	UY	60.40%	IL	57.46%	MY	57.17%
MS	54.45%	US	54.10%	PR	54.08%	AX	49.52%	MX	48.67%	NL	48.53%	FI	48.30%	VN	47.98%	GB	47.46%	TW	47.14%
HU	46.95%	BR	45.85%	LK	44.83%	JP	44.83%	LU	44.71%	AE	44.01%	CH	41.82%	PT	41.37%	CA	40.59%	MM	39.42%
TH	39.14%	GT	38.15%																
World Average is 38%																			
EE	37.04%	AU	35.68%	NP	34.01%	PY	33.15%	AT	32.59%	RO	32.39%	NO	31.92%	PE	31.02%	MO	29.39%	CN	28.87%
SX	28.29%	CO	27.86%	MF	27.44%	SR	26.84%	TT	25.98%	EC	25.37%	IE	25.22%	GA	24.14%	NZ	23.75%	TG	23.66%
BT	22.16%	AR	22.06%	LI	21.82%	CZ	21.31%	KW	19.86%	BO	18.63%	CG	18.61%	CL	18.23%	NI	17.41%	JO	17.29%
PL	17.18%	BM	16.65%	GY	16.56%	OM	16.31%	KR	16.10%	LV	16.01%	SI	15.67%	GE	15.60%	SG	14.36%	BY	14.34%
IS	13.62%	SE	13.24%	PH	12.73%	JM	12.59%	LC	12.44%	MD	12.42%	RW	12.41%	ID	10.96%	ZW	10.48%	KZ	10.30%
SK	10.10%	VG	9.60%	BG	9.59%	BA	9.50%	DK	9.08%	UA	9.05%	SV	8.76%	RE	8.74%	PF	8.68%	VC	8.47%
RS	7.71%	IT	7.61%	AL	7.19%	KE	7.03%	RU	6.66%	BD	6.03%	HR	5.91%	BF	5.89%	BZ	5.81%	HN	5.29%
GD	5.20%	ES	5.00%	CR	4.91%	ZA	4.70%	MN	4.70%	GP	4.53%	PK	4.46%	HK	3.98%	AM	3.97%	DO	3.94%
EG	3.80%	VI	2.66%	TR	2.56%	PA	2.10%	PG	1.92%	NC	1.88%	CD	1.70%	CI	1.68%	SC	1.48%	LB	1.19%
VE	1.18%	CW	1.18%	MQ	0.97%	TO	0.92%	ML	0.83%	MC	0.71%	IR	0.61%	JE	0.54%	GF	0.51%	TZ	0.49%

Open Policy Meeting at APNIC 55

The following policy proposals reached consensus at the Policy SIG and AGM:

- prop-147: Historical Resources Management
  - Historical resources that are no longer published in the APNIC Whois Database and are placed in reserved status having been reclaimed under the HRM project will be placed in the free pool for re-delegation after 12 months
- prop-150: ROA/whois object with Private, Reserved and Unallocated (reserved/available) Origin ASN
  - guideline to advise it is unnecessary not to create ROA with Private, Reserved and unallocated ASN ranges
- prop-151: Restricting non-hierarchical as-set
  - restrict APNIC account holders from creating a non-hierarchical as-set, and notify all Members who already have non-hierarchical as-set that it is recommended they move to a hierarchical as-set

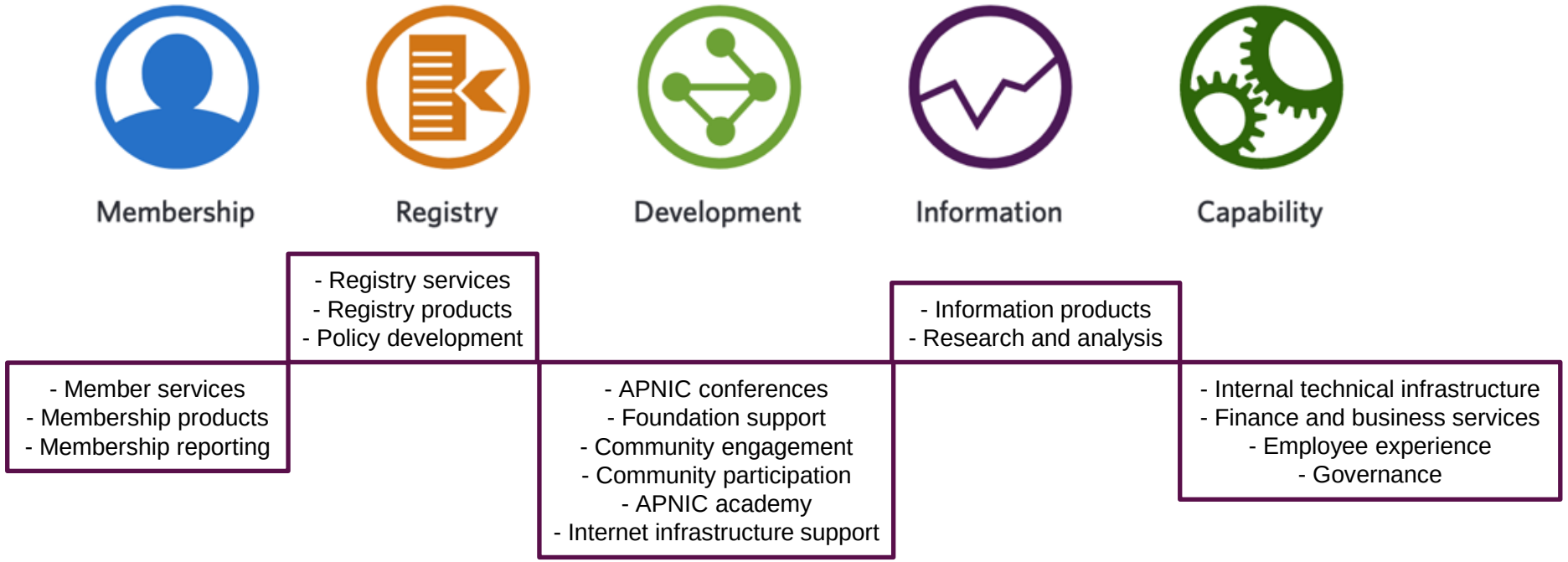
The following proposal was not put for consensus and will go back to the mailing list:

- prop-149: Change of maximum delegation for less than /21 total IPv4 holdings
  - increasing the maximum IPv4 delegation size for new APNIC account holders from a /23 to a /22

https://www.apnic.net/community/policy/

2023 APNIC Activity plan

- Structured under **five pillars** and **18 workstreams**
- 2023 plan is the last of four-year planning cycle
- New planning cycle starts from 2024

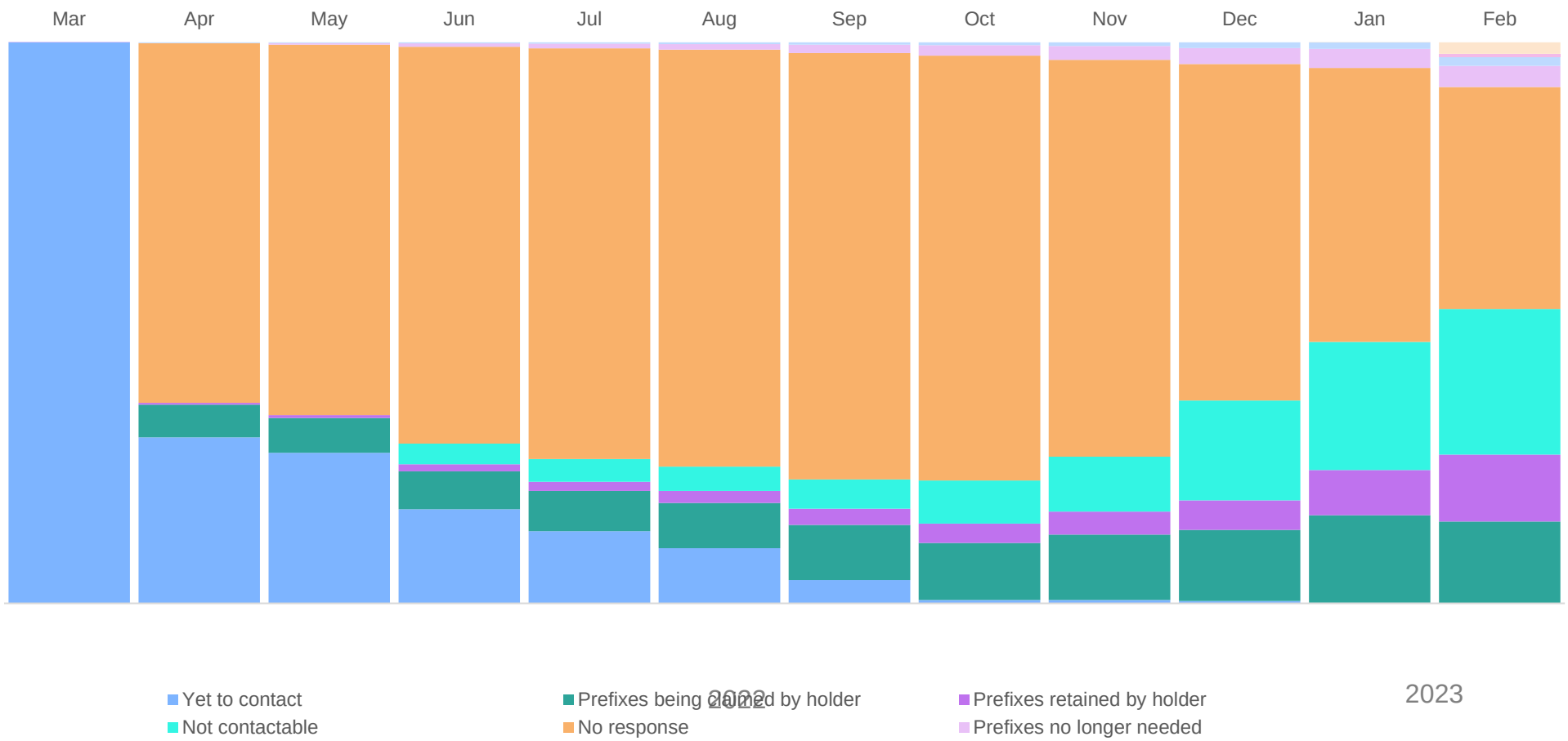


2022/23 Highlights

- APNIC Survey — 37 interviews in 26 economies – 1,622 respondents, 61% new: www.apnic.net/survey
- Historical Resource Management (HRM) project
- New MyAPNIC dashboard and overhauled the architecture
- Route management pre-validation
- Orbit, our community platform supporting and enabling community discussion: orbit.apnic.net
- 30 tech community events
- 22 NOGs — sponsorship, speakers, training and technical support

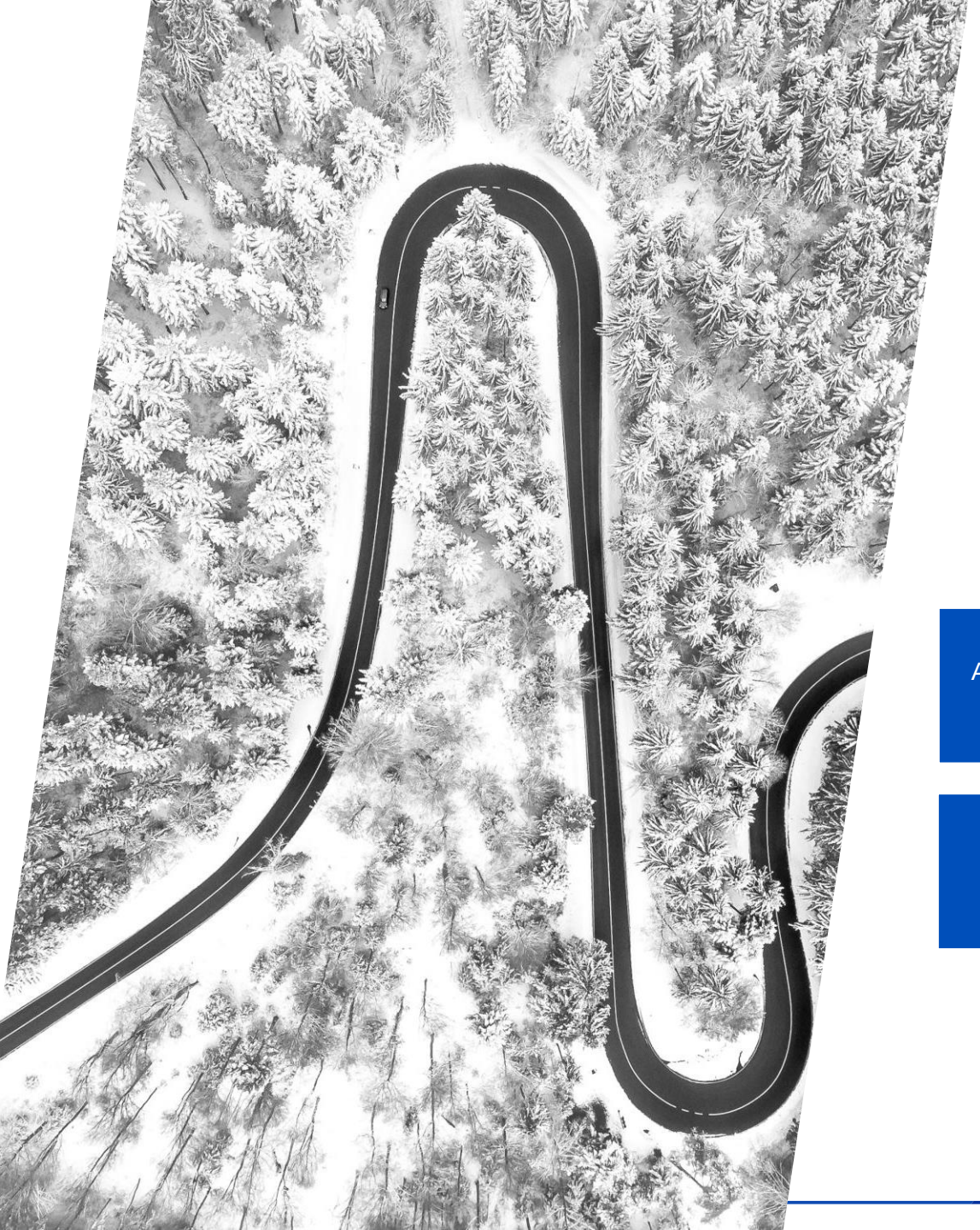
Historical Resource Project case outcome

March 2022 to Feb 2023



- 7.3 million IPs
- 3,932 prefixes
- 3,355 cases

www.apnic.net/historical-about



Roadmap

https://roadmap.apnic.net

- Website refresh – 23/24
- Alternative Whois Authorization
- RPKI Signed Checklists (RSCs)
- 2FA mandatory from June 23
- Registry API
- Changes to Account Contacts to improve Identity & authentication
- Implement new payment gateway