



NATIONAL INTERNET REGISTRY OF INDIA

IRINN Update

Indian Registry for Internet Names and Numbers | A National Internet Registry under NIXI

NIR SIG | APNIC 62 Conference | Mumbai, India | 8–10 September 2026

A multi-year review of affiliate growth, IPv4/IPv6 allocation and India's IPv6 leadership

Presented by NIXI | Hosted by NIXI and ISPAI

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About IRINN

IRINN — the Indian Registry for Internet Names and Numbers — is India's National Internet Registry (NIR), recognized by APNIC in March 2012 and operating within the APNIC framework to manage and fairly distribute Internet number resources to affiliates across India.

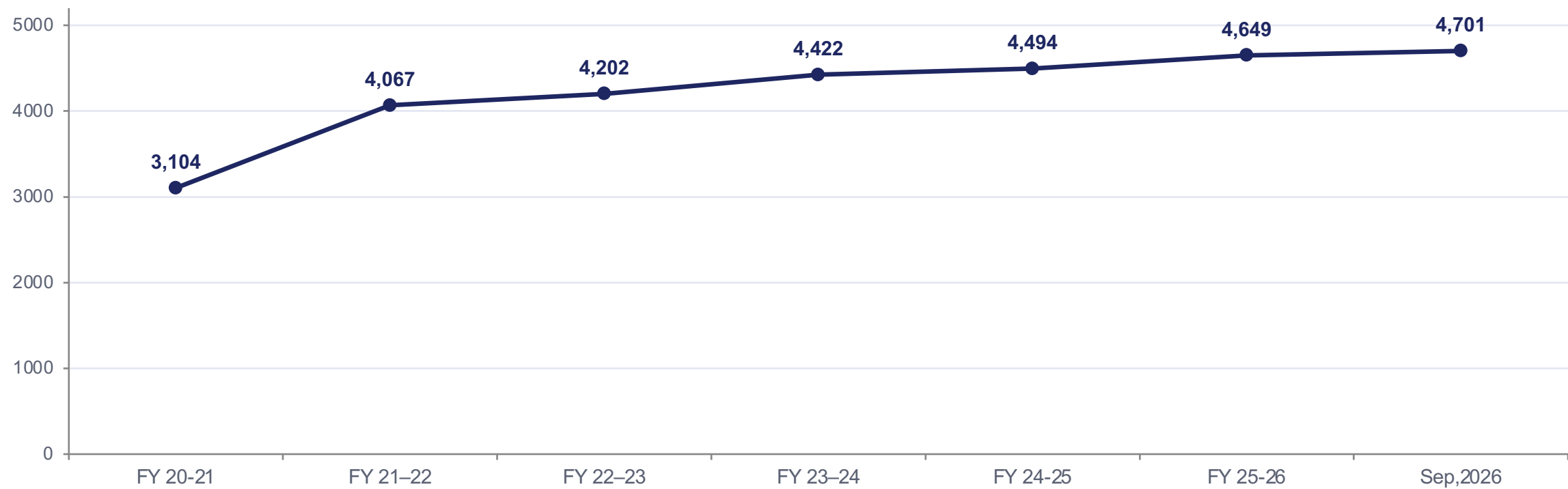
- **Operated by:** NIXI (National Internet Exchange of India), a Section 8 not-for-profit company under MeitY
- **Primary role:** Delegation and fair distribution of IPv4, IPv6 and ASN resources to Indian affiliates
- **Secondary role:** Coordination with global policy bodies, training, and outreach to build Internet resource capacity in India

Core Mandate

- **IPv4 Address Delegation**
Management and fair distribution of IPv4 address space
- **IPv6 Address Delegation**
Future-proofing India's address space for next-generation networks
- **ASN Delegation**
Allocation of Autonomous System Numbers for routing
- **Policy & Capacity Building**
Coordination with APNIC and outreach across Indian stakeholders

Affiliate Growth Trajectory — FY 2020–21 to Date

IRINN’s affiliate base has grown every year since FY 2020–21, reaching 4,701 affiliates as of Sep 2026 — a 64% increase over six years.



Source: IRINN NIR SIG updates — APRICOT 2025 / APNIC 59 (points through 22 Feb 2025) and APNIC 61 (31 Jan 2026 point).

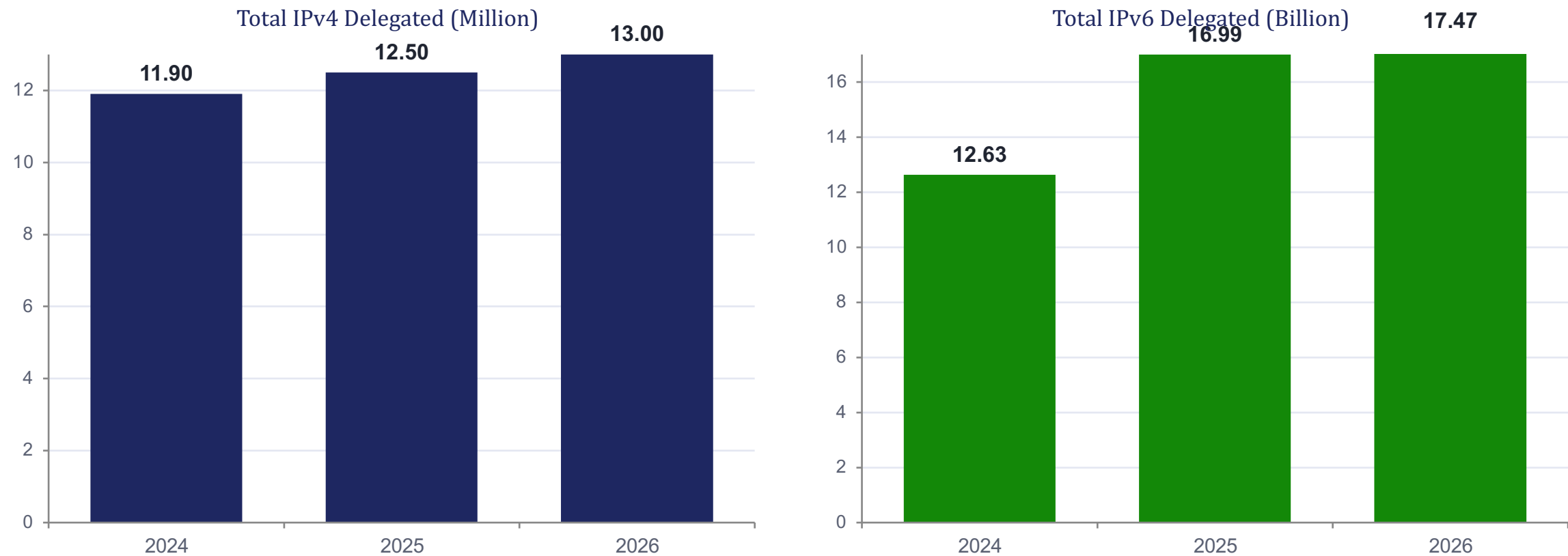
FY 2026–27 Affiliate Growth — April 2026 to Date

This section is intended to show affiliate growth for the current financial year (April 2026 – date of presentation). Live monthly figures could not be retrieved for this deck.



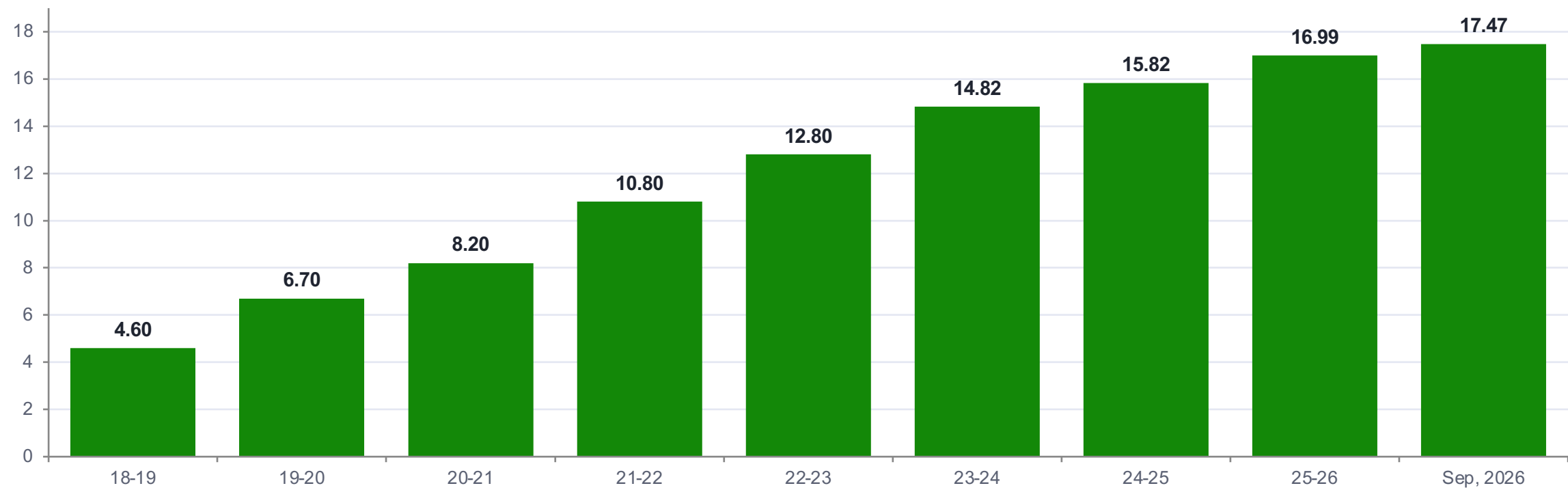
IPv4 & IPv6 Allocation — Three-Year Comparison

Comparing the last three published financial years: IPv6 delegations grew ~17% while IPv4 holdings contracted ~9%, consistent with global IPv4 exhaustion and India’s continuing shift to IPv6.



Long-Term IPv6 Delegation Trend

IPv6 delegation has grown every year since FY 2018-19 without exception — the clearest single indicator of India’s sustained shift to IPv6.



Source: IRINN NIR SIG updates — APRICOT 2025 / APNIC 59 (17–18 through 22 Feb 2025) and APNIC 61 (31 Jan 2026). All figures as officially published by IRINN.

Autonomous System Number (ASN) Growth

ASN delegations have evolved significantly. From 2025 All allocations now use the direct ASN allocation method via MyAPNIC, and the continuing shift from 2-byte to 4-byte ASNs reflects the growing scale of India’s routing infrastructure.

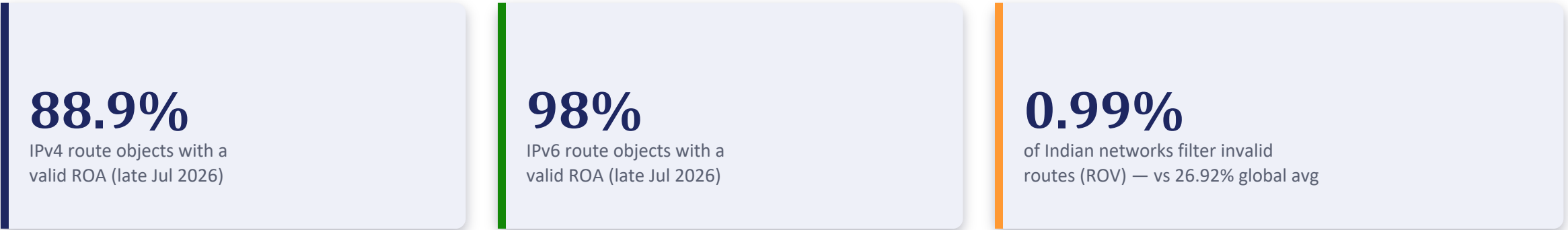
100%

From 2025 ASN allocations used the direct allocation method



RPKI / ROA Adoption in India

India's ROA coverage has climbed sharply — one of the largest year-on-year gains of any APNIC economy — though enforcement (ROV filtering) still lags well behind signing.



ROA Coverage Over Time (overall)

Mar 2025	82.95%
Mar 2026	86.20%

The gap between ROA signing (near-universal) and ROV enforcement (under 1%) is the key routing-security priority for India — most networks publish ROAs but few filter on them.

Source: [rex.apnic.net](https://www.apnic.net/reports/statistics/roa/)

IPv6 Deployment and Development in India

India has emerged as a global leader in IPv6 adoption, driven by strong government policy, active ISP participation, and integration with future digital infrastructure. Continued focus is placed on bridging gaps in enterprise and government adoption.



Leading Global Adoption

IPv6 capability in India stood at 78.59% in early 2026 per APNIC Labs — among the highest in the world, with over 600 million IPv6 users.



DNS Service & Delegation

NIXI runs the Indian Public DNS Service at 2409::1, serving more than 2.6 billion queries per day.



Massive IPv6 Rollout

IRINN has delegated a total of 17.36 billion IPv6 addresses to Indian affiliates, ensuring future scalability.

Driving IPv6 Adoption Nationwide



Affiliate Engagement

IRINN actively encourages affiliates to deploy IPv6 through regular webinars and targeted email campaigns, building technical capacity across the network.



Educational Outreach

Major initiatives with educational institutes across India aim to implement IPv6 adoption schemes, creating a foundation for next-generation internet infrastructure in academic settings.

NIXI Academy — Digital Learning Platform

NIXI Academy (training.nixi.in) is IRINN's digital learning platform, built in partnership with a specialist training agency and APNIC, offering structured courses, recorded webinars and curated third-party content — 203 videos in total.

13

Online Courses
(124 videos, 15–20 hrs each)

56

Training Videos
(IPv6, DNS, BGP, security, Linux)

23

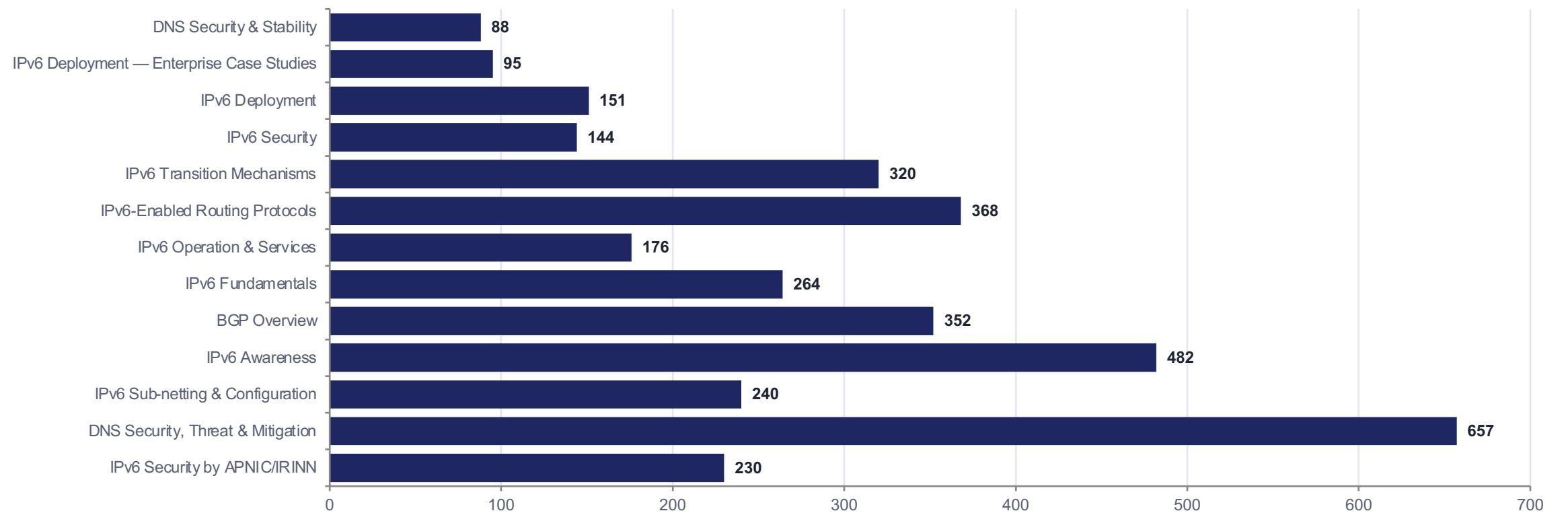
Curated YouTube Videos
(from industry contributors)

203

Total videos on
NIXI Academy

IPv6 Webinar Series — Reach and Impact

Thirteen webinars run between January 2024 and February 2025 reached over 3,560 attendees, covering the full IPv6 lifecycle from fundamentals to enterprise deployment.



Total attendees across all 13 sessions: 5000 plus..

Internet Governance Internship Programme — Structure

NIXI's Internet Governance Internship & Capacity Building Scheme gives Indian citizens practical experience in Internet governance and introduces them to bodies such as ICANN, APNIC, APTLD, the IGF, SANOG, IETF and IEEE.

Programme Design

- Biannual, in two 6-month terms
- Two parallel tracks: 6-month and 3-month
- 10 interns per parallel track

Mentorship

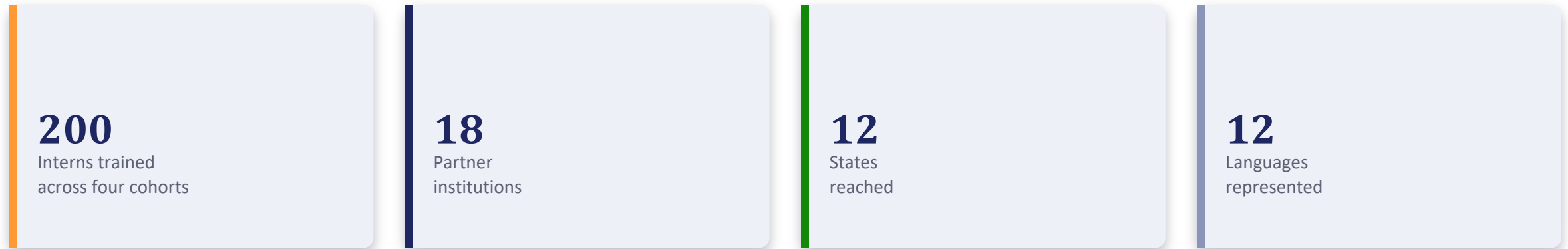
- Subject-matter experts from ICANN, APNIC or APTLD
- Nominated MeitY Internet Governance SIG members
- Senior retired government officials (Director rank+)
- Faculty advisors from partner institutions

Governance

- Monitored by CEO NIXI, one NIXI board director and one MeitY representative
- Graduates recognized as “NIXI Internet Influencers” to lead outreach

Internship Programme — One-Year Impact

NIXI recently marked one year of the scheme. Four cohorts of interns have been trained, shaping the next generation of Internet governance leaders.



One-year milestone — Internet Governance Internship & Capacity Building Scheme. Source: IRINN NIR SIG update, APNIC 61.

Strategic Impact and Global Engagement

Global Engagement

Interns participated in prestigious programmes including NextGen, APNIC, ICANN, APAC IPv6, the ISEA Cyber Program, Knowledge 2 Action Academy, and APAN60 — building international networks and expertise.

Tangible Outcomes

- 60+ Reports and notes submitted
- 35 Research papers initiated across various topics
- 7+ National and global events participated in



HOSTED BY NIXI AND ISPAI

Welcoming APNIC 62 to Mumbai

NIXI is proud to co-host APNIC 62 with ISPAI, bringing the Asia Pacific Internet community to India. On behalf of IRINN and NIXI, we thank APNIC and all delegates for joining us.

3–6 Sep 2026

Workshops

7 Sep 2026

Partner events — APIX, AP*, APCERT

8–10 Sep 2026

APNIC 62 Conference



Mumbai, India

Venue city for APNIC 62

“Gateway to India, host to the Asia Pacific Internet community.”



Thank You

IRINN — Indian Registry for Internet Names and Numbers

helpdesk@irinn.in | www.irinn.in | www.nixi.in