

IPv6 Adoption in the

Philippines



Challenges, Opportunities, and Multistakeholder Collaboration

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Objectives:

- Understand why IPv6 is important for the continued growth and sustainability of the Internet.
- Describe the current state of IPv6 adoption in the Philippines.
- Identify the key challenges limiting wider IPv6 adoption.
- Recognize the roles of government, industry, academe, and the technical community in promoting IPv6.
- Explain how ICANN can support awareness, knowledge-sharing, and collaboration related to IPv6.

Why IPv6 Matters?



IPv4 Limitation

Only ~4.3 billion addresses — insufficient for rapid growth of connected devices



IPv6 Solution

Vastly larger address space supporting continued Internet growth, scalability, and security



APNIC Role

Supports Internet development across the Asia-Pacific region

IPv6 in the Philippines: 20+ Years of Effort



DOST-ASTI

IPv6 research since the
late 1990s



PREGINET

IPv6 testbed established

OG No. 32, 4393 (Aug. 9, 2010)

[EXECUTIVE ORDER NO. 893, June 18, 2010]

PROMOTING THE DEPLOYMENT AND USE OF INTERNET PROTOCOL VERSION 6 (IPv6)

WHEREAS, Section 24, Article II (Declaration of Principles and State Policies) of the 1987 Constitution states that "The State shall recognize the vital role of communication and information in nation-building";

WHEREAS, advanced internet services are now widely used and have become an enabler to social and economic development of all countries, as these services have increased worker productivity and connected local business and international markets;

WHEREAS, there is a need to promulgate policy directives to promote investment in internet-based infrastructures and services; and to enable continued improvements in various sectors and enhance government operations and services such as but not limited to health care, national security, public safety, education, environment, and the economy;

Executive Order No. 893

Promoting the
deployment and use of
IPv6

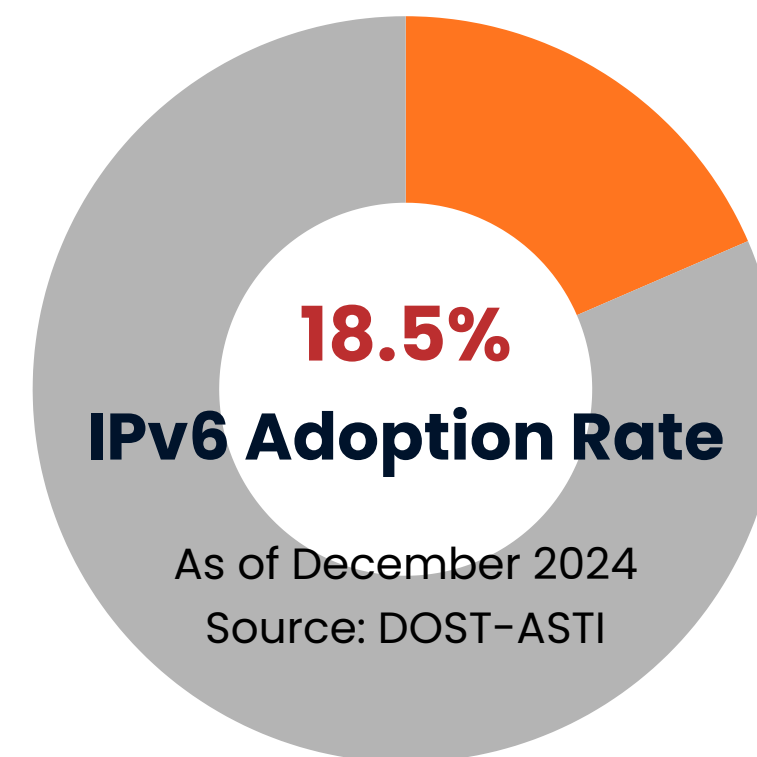
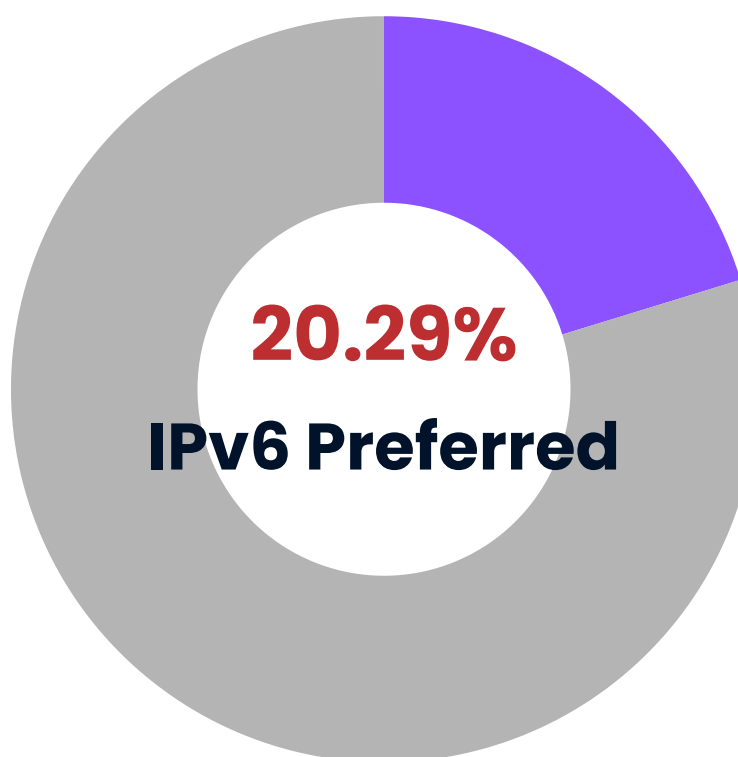
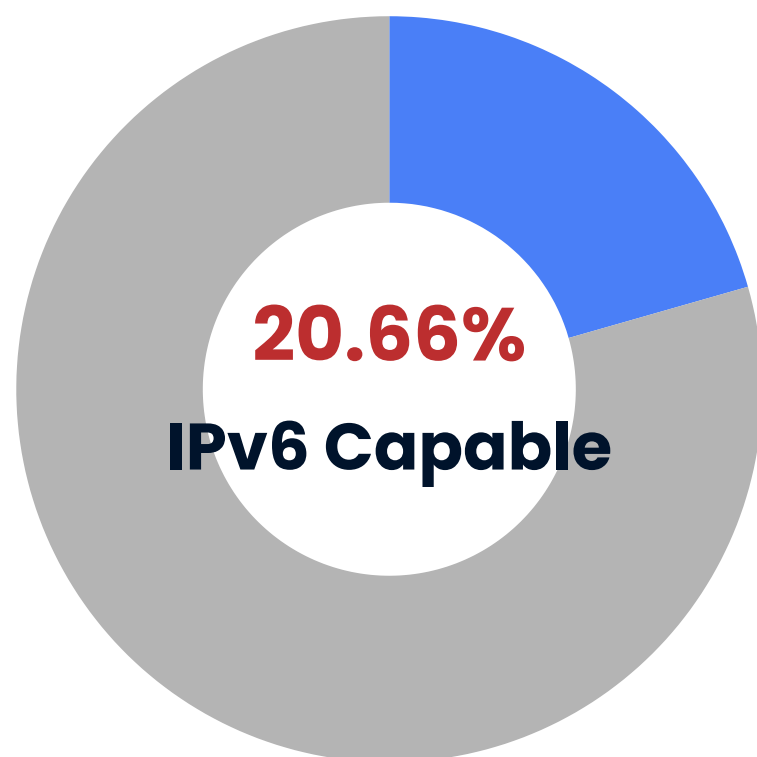


ON-IDLE Project

Capacity building,
research, advocacy, and
deployment

Where Are We Now?

- Latest APNIC Labs measurements show IPv6 adoption is progressing — but significant room remains for wider deployment.



What Is Limiting Wider Adoption?

- Legacy IPv4 infrastructure
- Migration and operational costs
- Skills and awareness gap
- Limited immediate business incentives
- Coordination across organizations



IPv6 Is More Than a Technical Issue

“IPv6 is 10% Technical, 90% Political”

- Technical
 - Infrastructure
 - Skills
 - Deployment
 - Security
- Adoption
 - Awareness
 - Leadership
 - Policy
 - Cooperation

IPv6 Is a Multistakeholder Effort

Stakeholder	Role
Government	Policy and Leadership
ISPs/Telcos	Network Deployment
Academe	Education and Research
Technical Community	Training and Expertise
Businesses	IPv6-enabled services



ICANN and the Path to Action

- Coordinate Internet identifiers
- Support a stable and interoperable Internet
- Provide a multistakeholder platform
- Facilitate dialogue and knowledge-sharing

From Awareness to Action



Why Now?

- Bring the Philippines perspective to the global Internet community.
- Share our experiences and challenges.
- Learn from other countries and stakeholders.
- Encourage awareness and collaboration.
- Connect local initiatives with the global Internet ecosystem.

***The Philippines is already moving toward IPv6.
The next challenge is to scale that progress.***

THANK YOU!

Mabuhay!



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