

# IPv4.GLOBAL

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## The Future is IPv6

September 2021

TRANSPARENT.

EXPERIENCED.

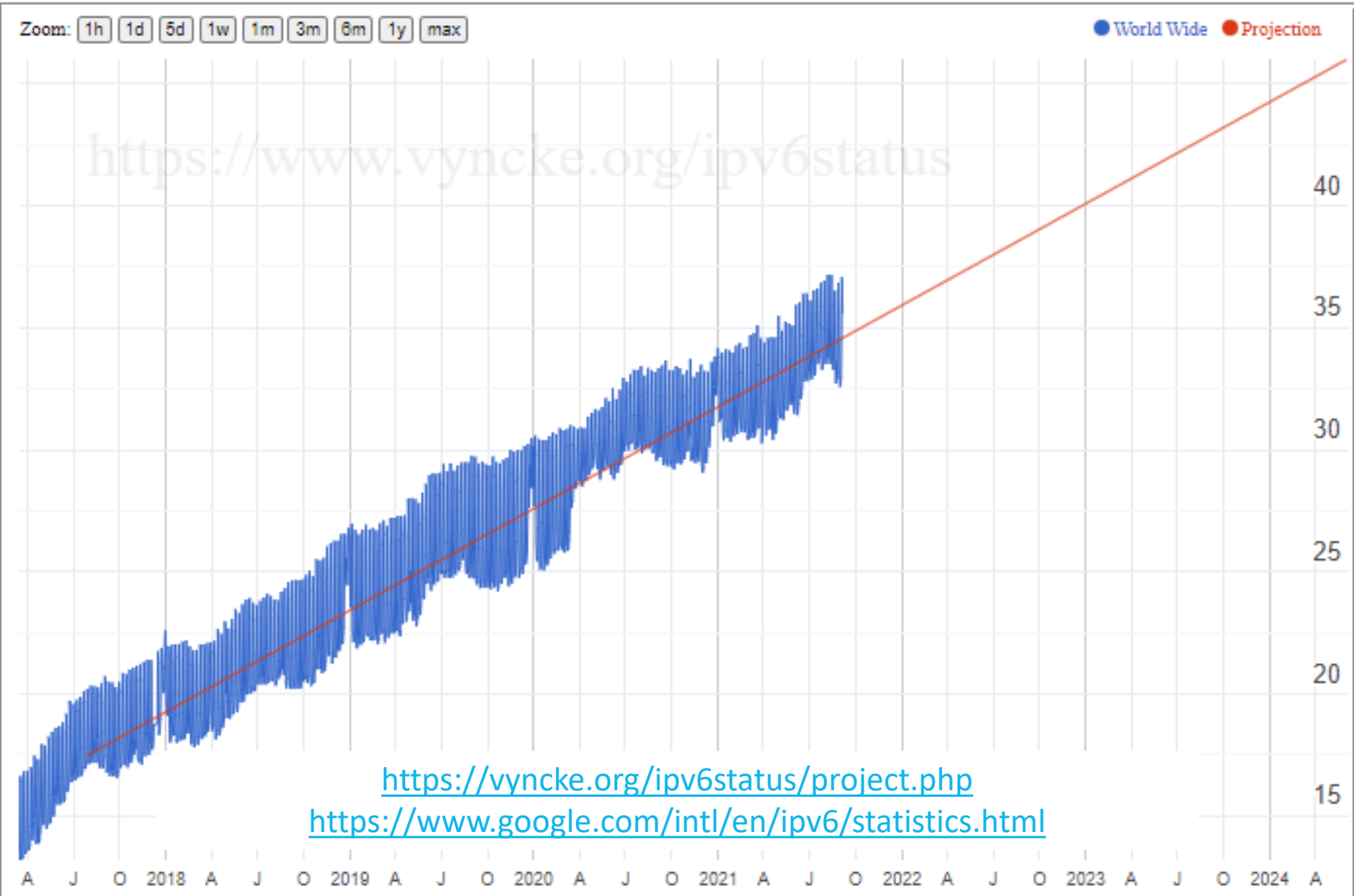
RELIABLE.

In less than ten years,  
*some advantage*  
will only be available over IPv6

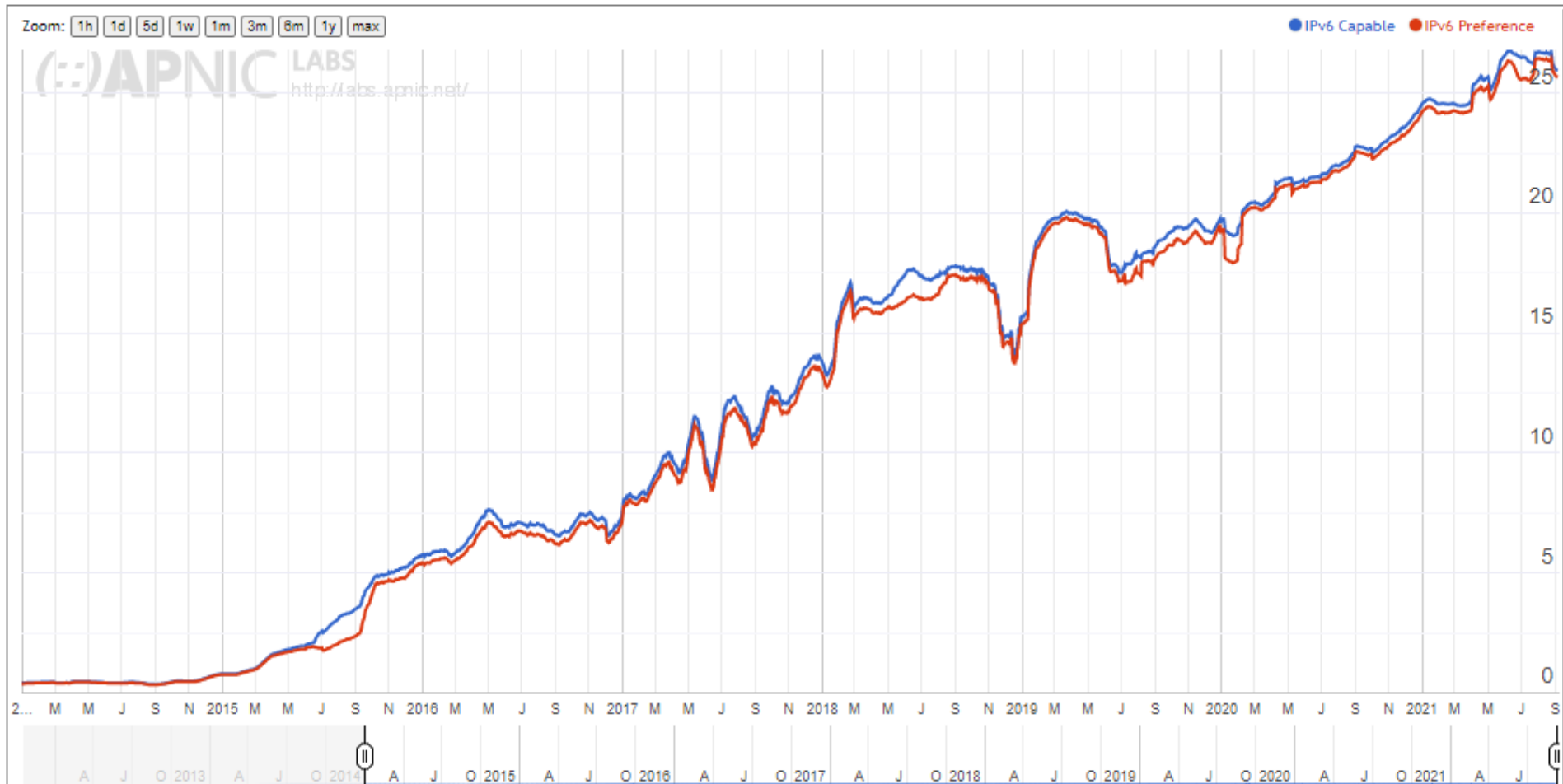
- Content
- Service
- Feature

or will be much cheaper over IPv6  
as providers pass costs to customers.

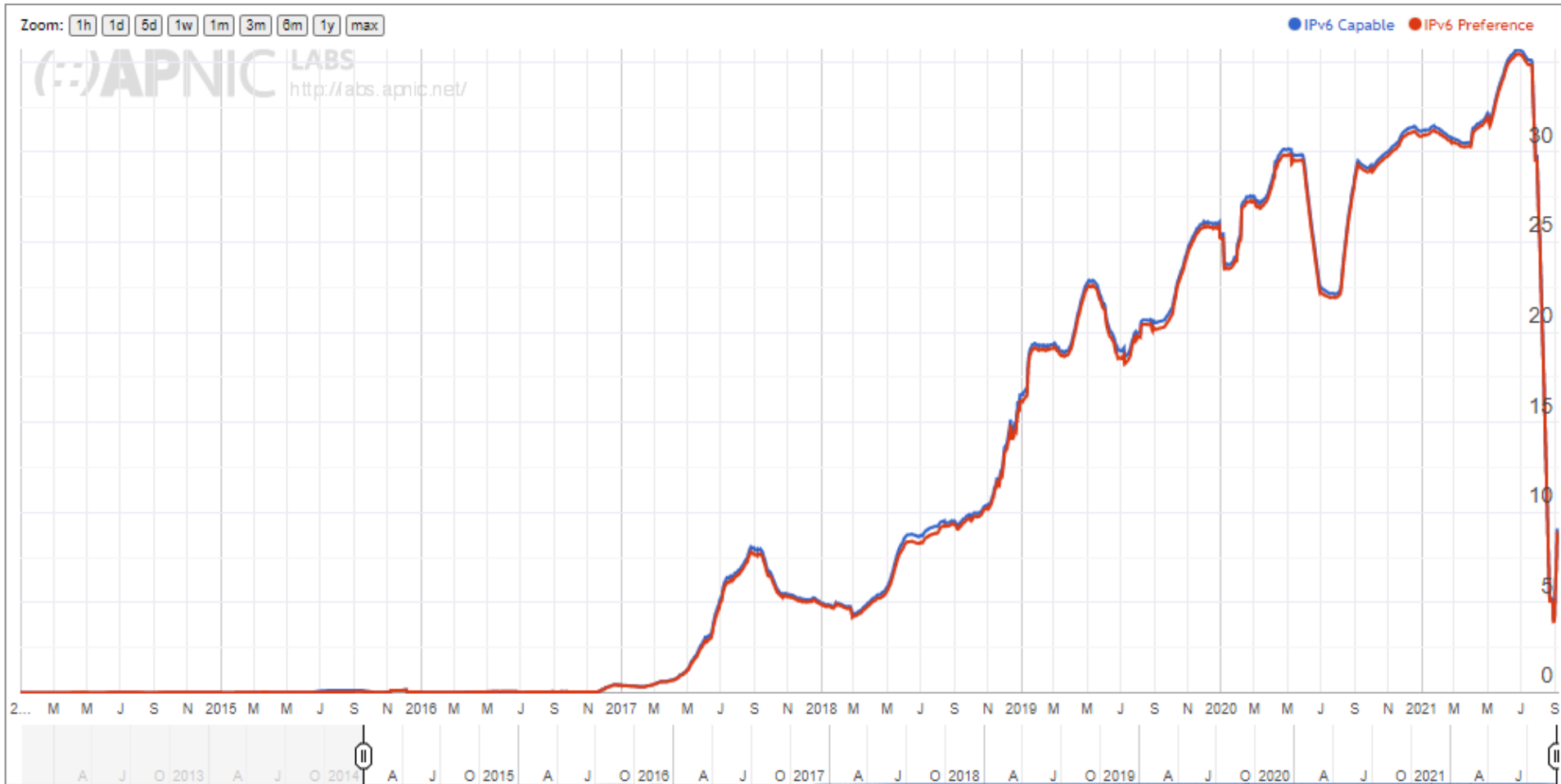
# The Present is IPv6!



# Use of IPv6 for South America (XP)



# Use of IPv6 for Central America (XO)



# Use of IPv6 for Caribbean (XN)



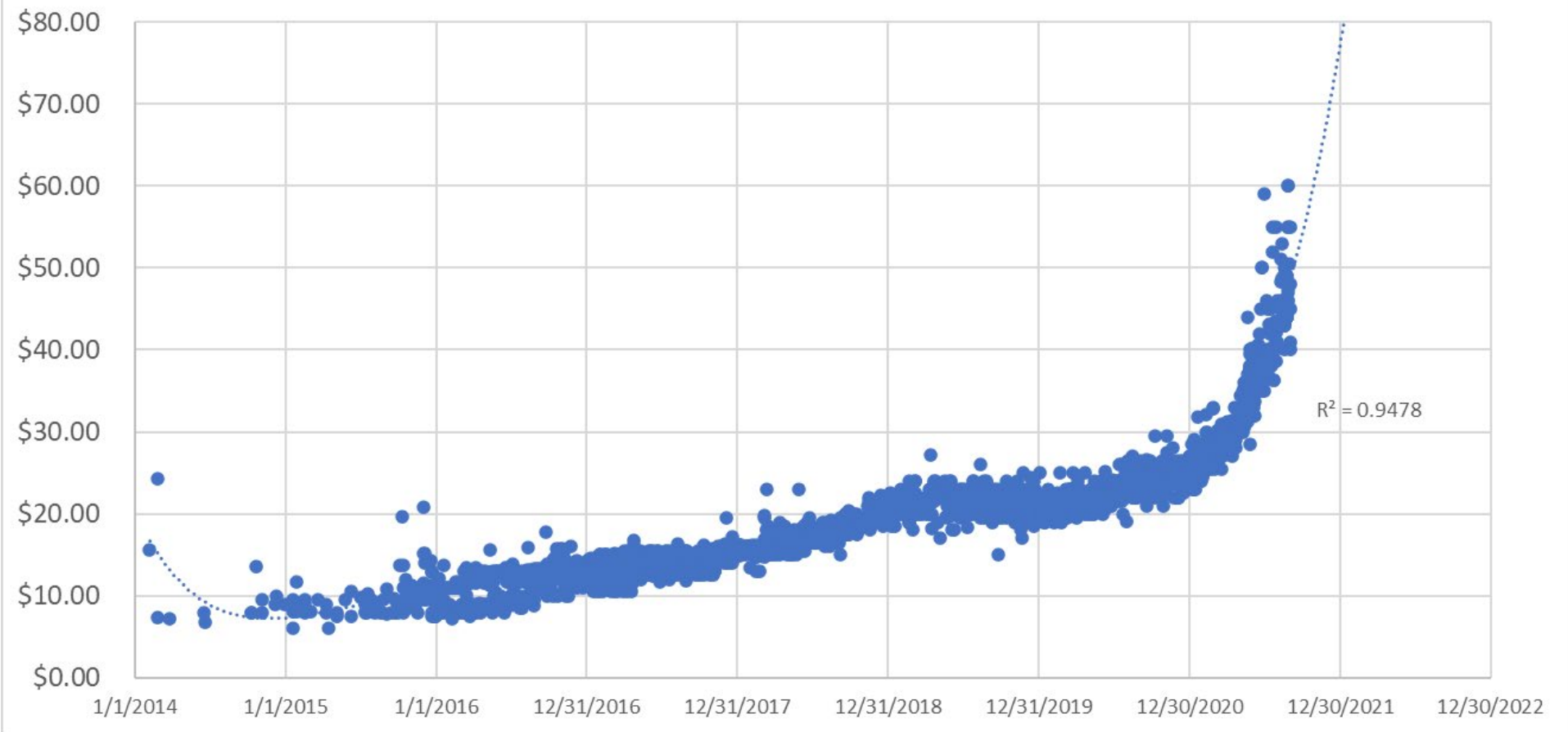
## Incumbent

- Has IPv4 addresses
- Doesn't need to peer with others on IPv6

## New ISP/Mobile Carrier/Web Host

- Needs IPv4 addresses
- Needs connectivity
- May also need NAT
- High cost to entry

Price per Address (USD)  
 Source: <https://auctions.IPv4.Global/prior-sales>



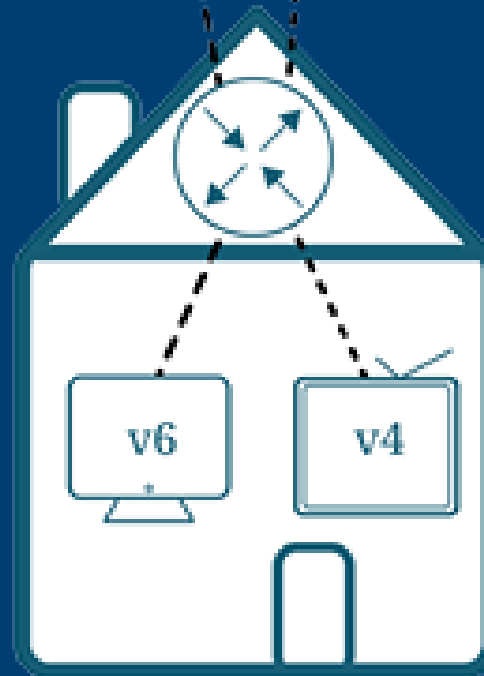






IPv6:IPv4 translation works as well/poorly as CGN.

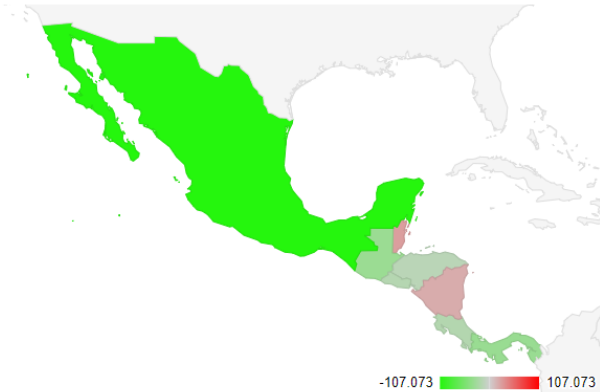
Native IPv6 just works!



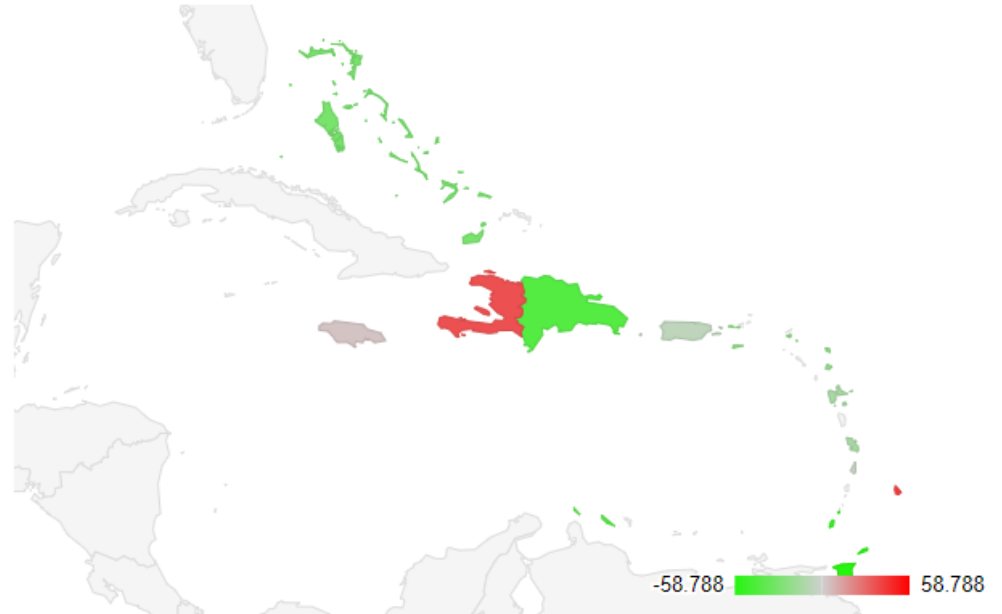
The more traffic uses IPv6, the less cost and trouble with CGN over time.

# IPv6 is Faster

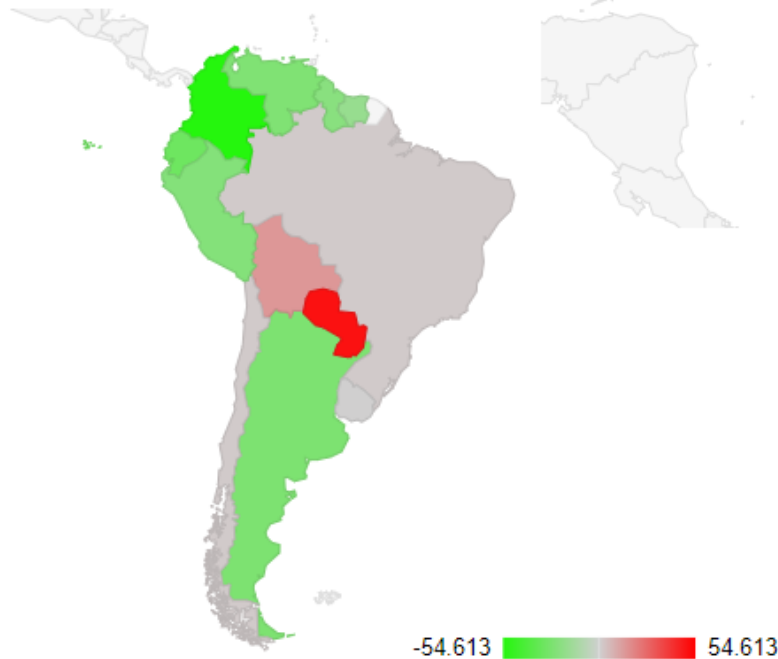
Region Map for Central America (013)



Region Map for Caribbean (029)



Region Map for South America (005)



Round Trip Time in IPv6  
minus Round Trip Time in IPv4.  
Measured in milliseconds (ms).  
Green is much faster over IPv6.

# What Advantage Would IPv6 Have?

- Faster
- Higher search ranking
- Spend less on addresses
- Spend less on NAT
- Better forensics
- Performance Diagnostic Metrics
- Easier container numbering
- Increased competition
- Segment Routing v6
- Easier security policy
- Easier routing policy
- Finer geolocation
- Harder host scanning
- Harder DDoS
- Privacy Extensions
- Extension Headers for things we haven't thought of yet!



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