

# IPv6 Landscape in the Arab Region: Where Are We Now?

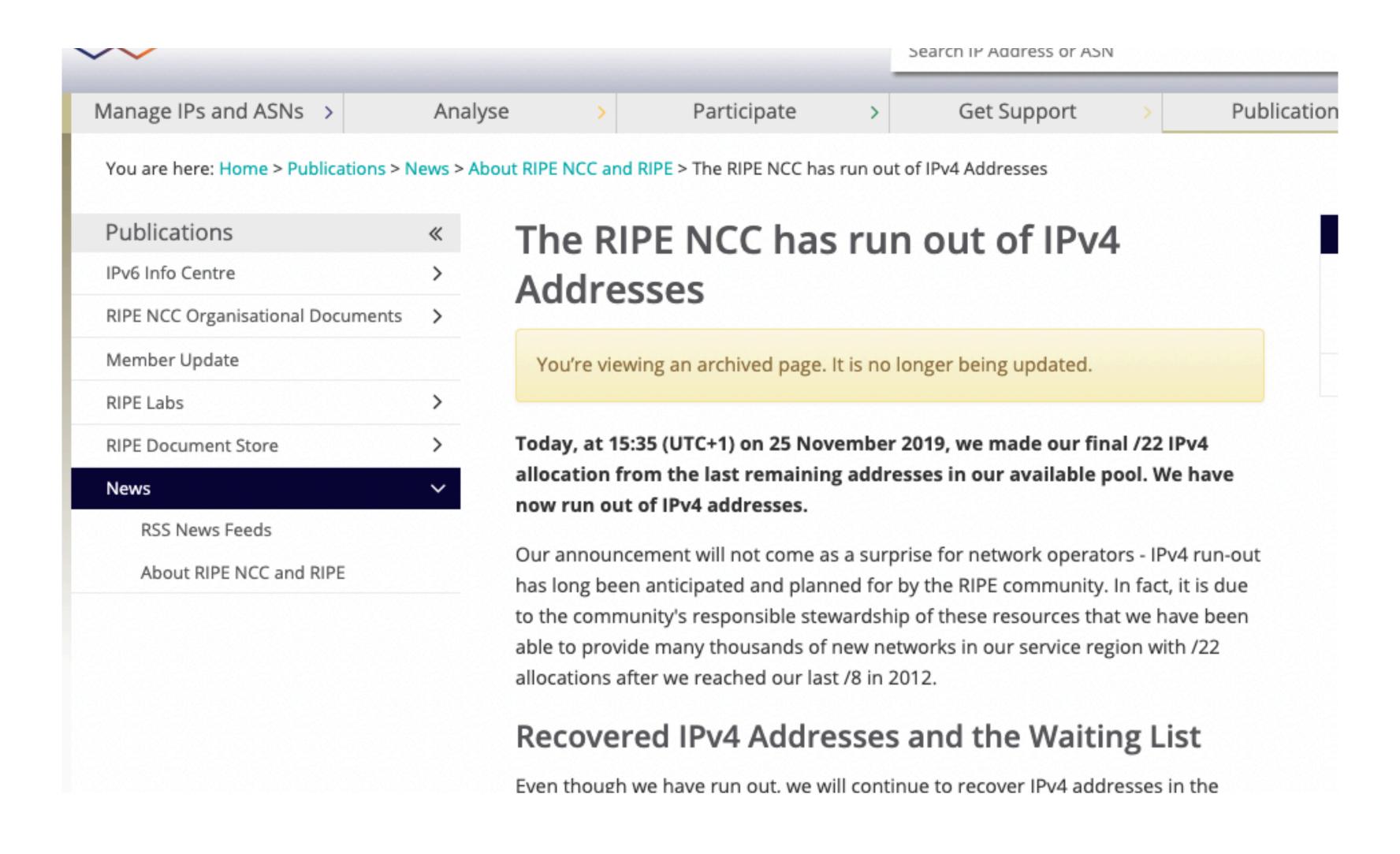
## The RIPE NCC Service Region





### IPv4 Address Exhaustion





## IPv4 Allocation: Before 29 November 2019



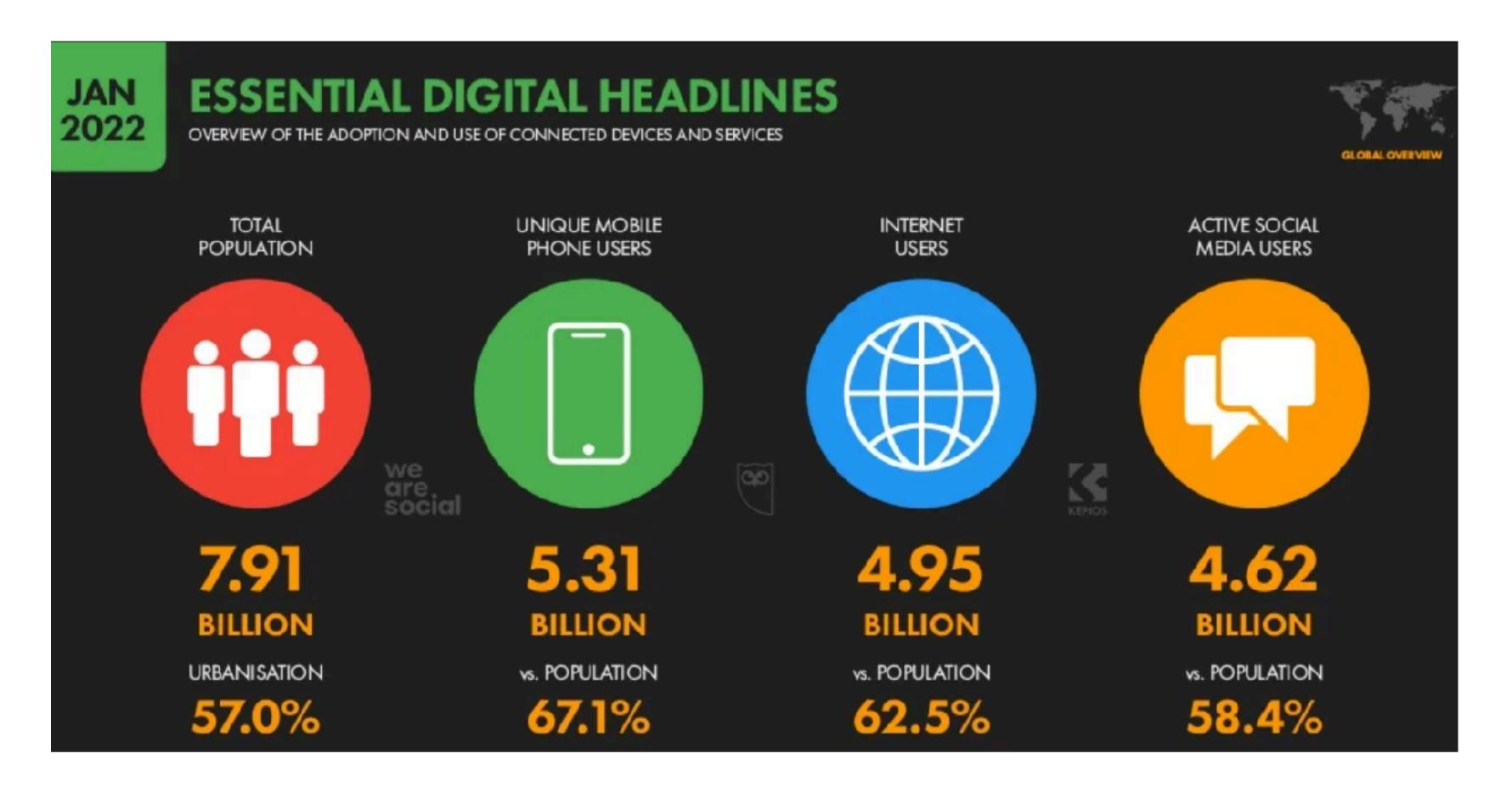
- Each LIR can get one /22 block
- = 1024 IPv4 addresses
- Cannot be transferred for 24 months after receiving it

## IPv4 Allocation: The Waiting List



- Each LIR is put on the first-come, first-served waiting list to get one /24 block
   = 256 IPv4 addresses
- Cannot be transferred for 24 months after receiving it





Source: Digital 2022 - Global Overview Report <a href="https://www.hootsuite.com/resources/digital-trends">https://www.hootsuite.com/resources/digital-trends</a>

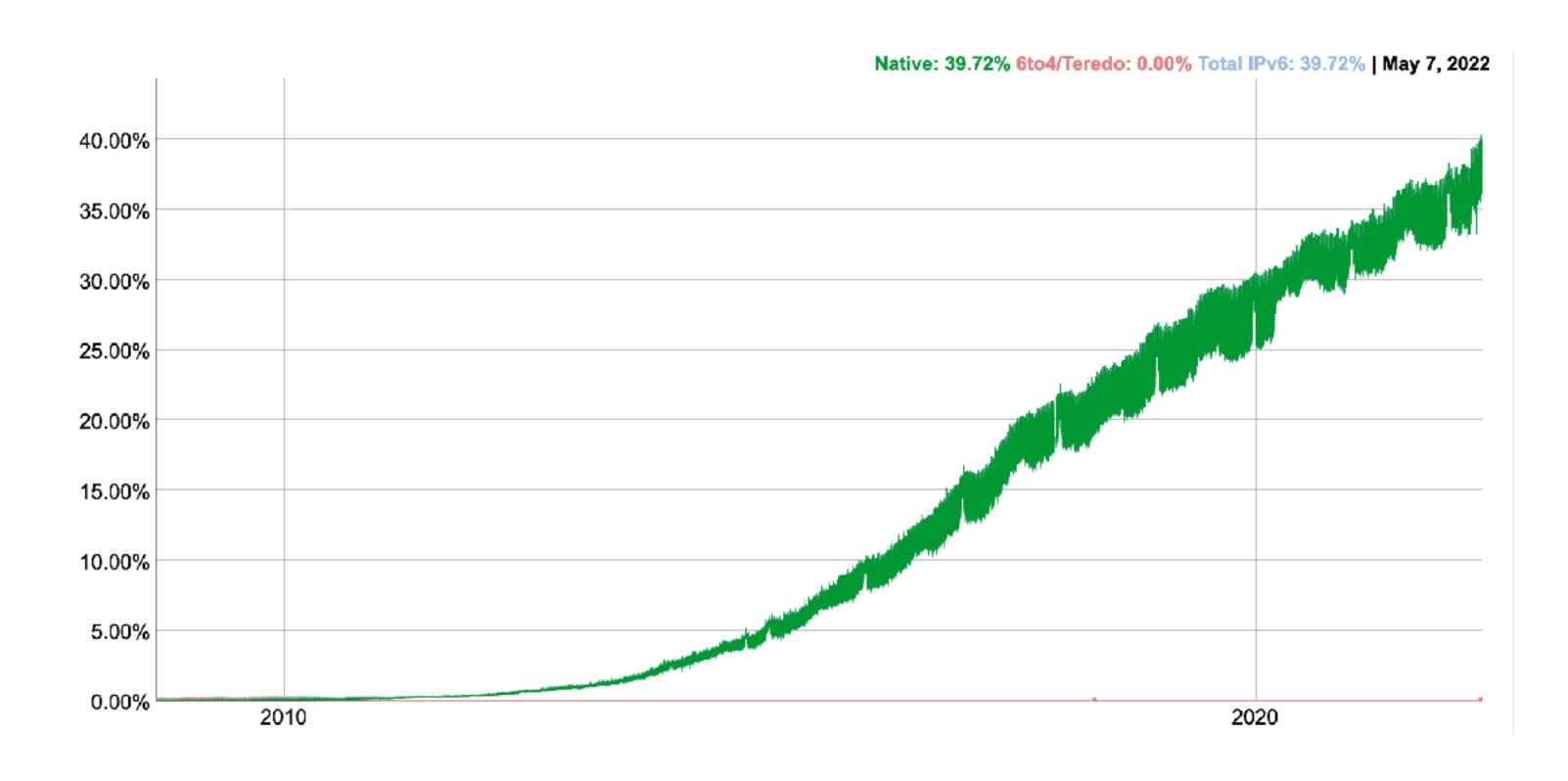


# IPv4 Can No Longer Sustain Growth? IPv6 Status in the MENA Region

## IPv6 Statistics - Google



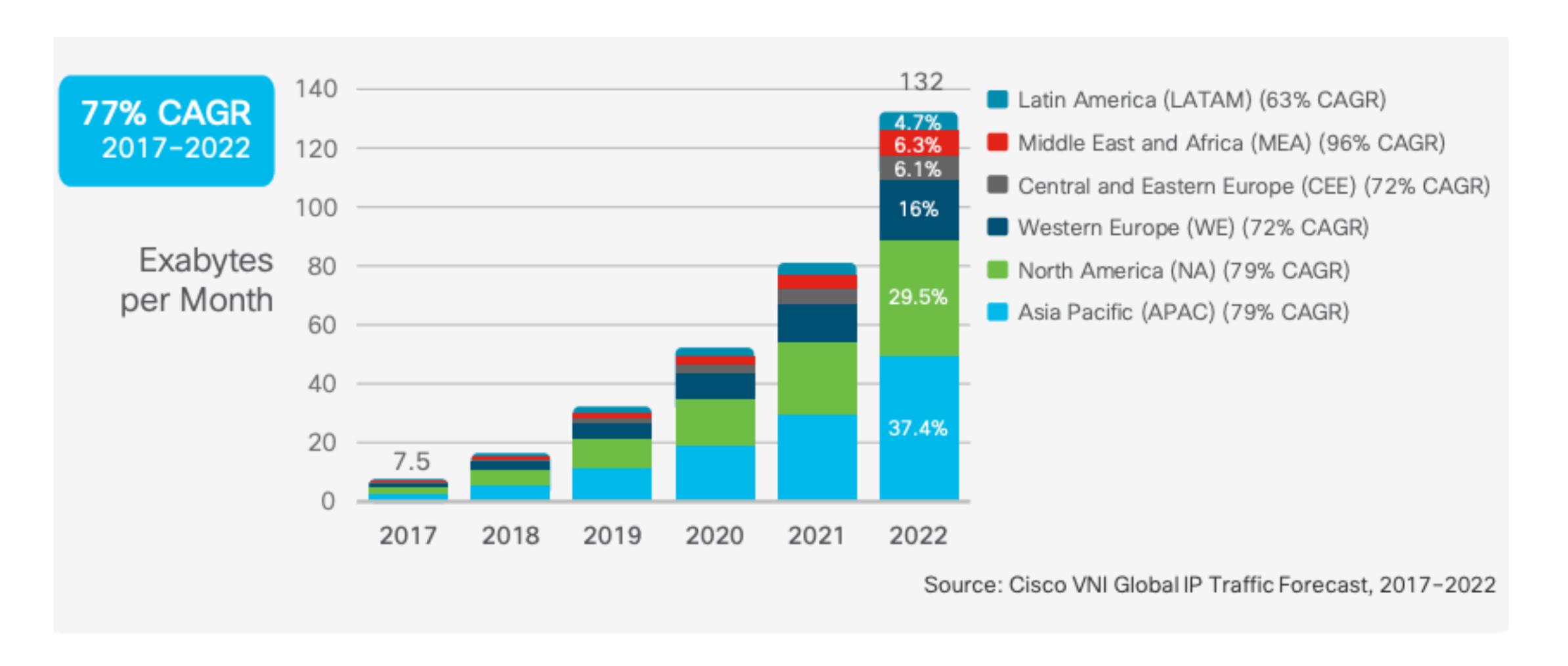
Percentage of IPv6 users that access Google over IPv6



Source: <a href="https://www.google.com/intl/en/ipv6/statistics.html">https://www.google.com/intl/en/ipv6/statistics.html</a>

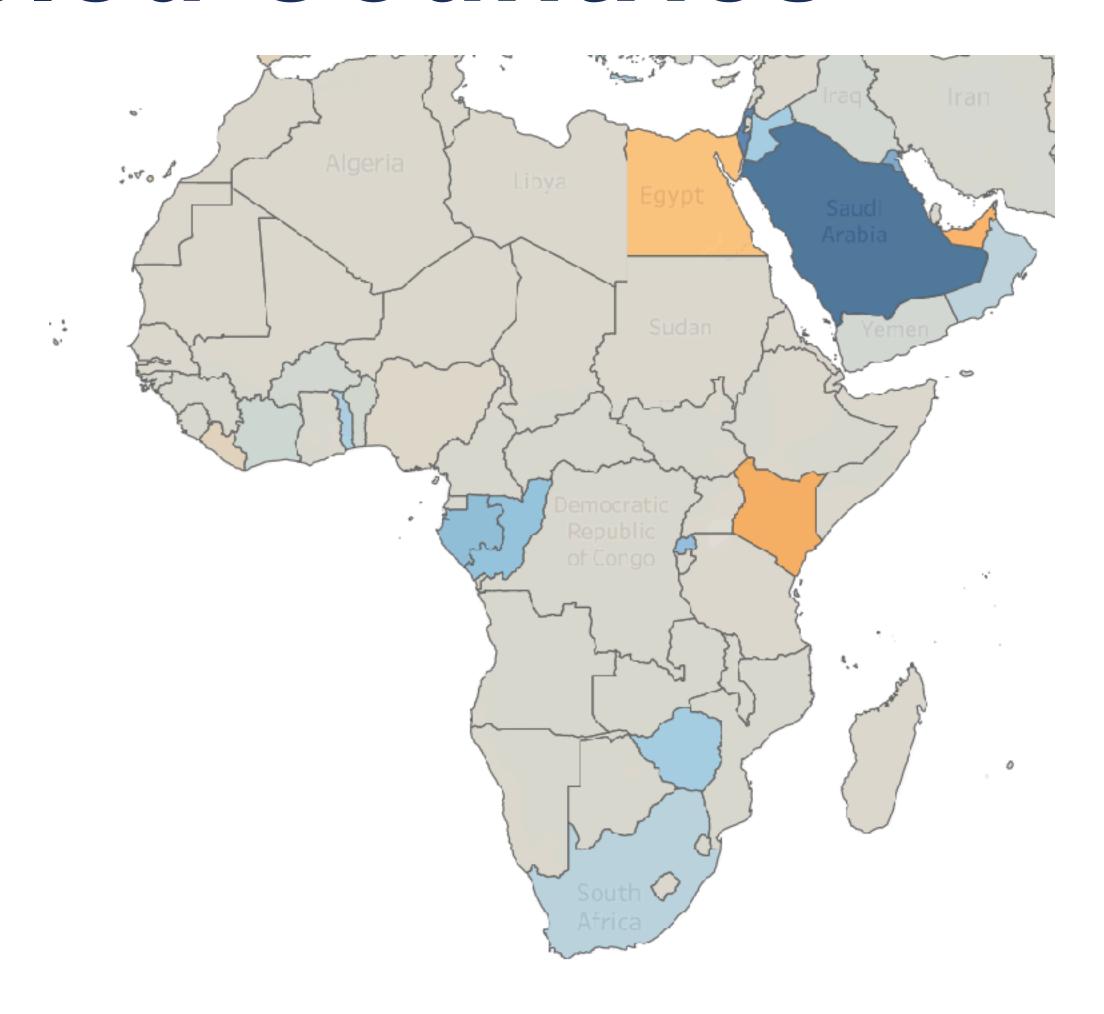
## Global IPv6 Traffic Forecast, 2017-2022





## IPv6-Enabled Countries

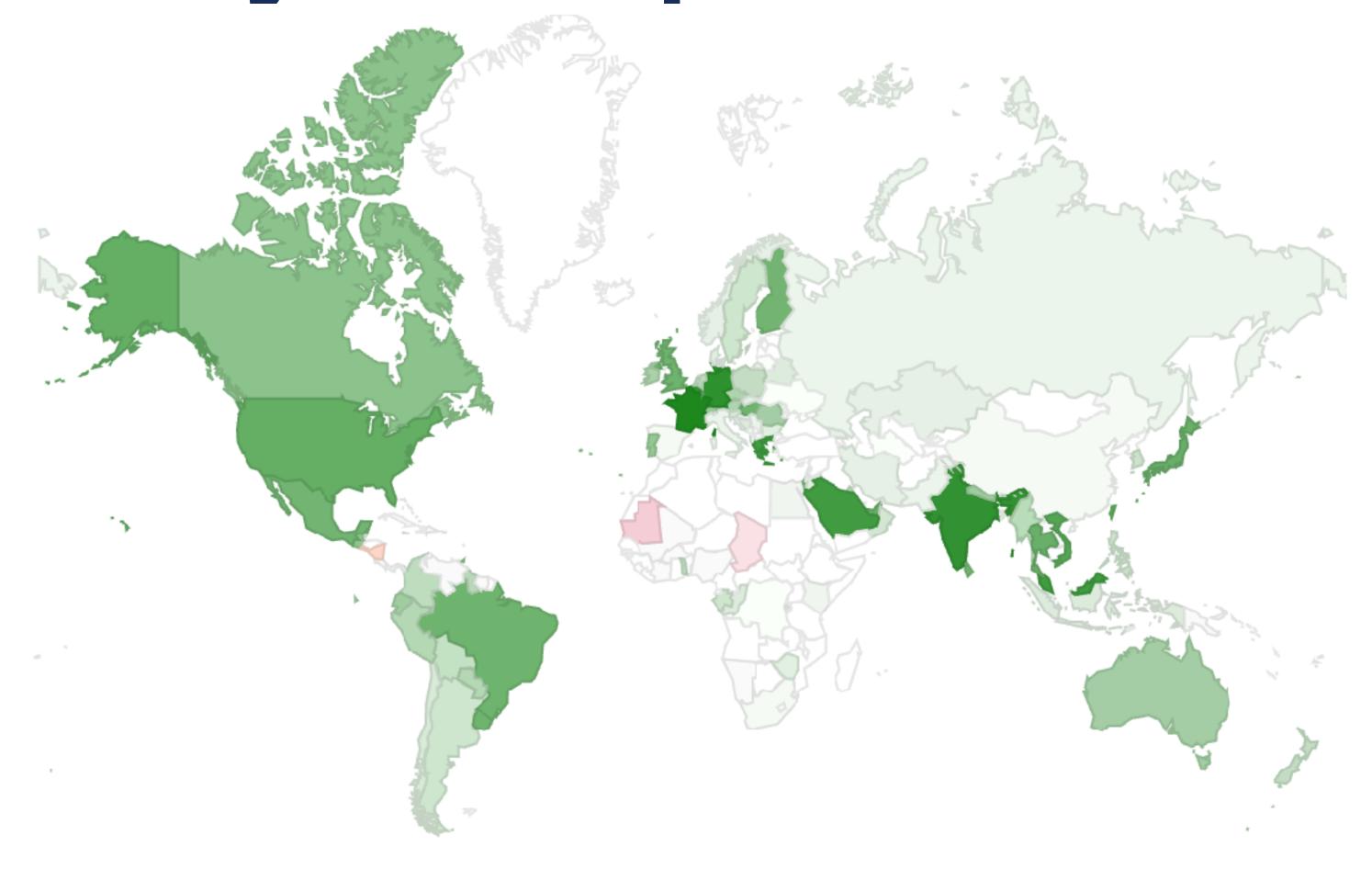




Map of IPv6 capability per country: 2020 vs 2021

## IPv6 Today's Adoption





Source: https://www.google.com/intl/en/ipv6/statistics.html#tab=per-country-ipv6-adoption

## Arab Countries Ranking in IPv6



Country	IPv6 Capable APNIC	IPv6 Capable Google	#Arab Region	#Worldwide
Saudi Arabia, Western	58.65%	57.63%	1	3
United Arab Emirates,	40.53%	45.81%	2	20
Kuwait, Western Asia, Asia	18.11%	18.43%	3	54
Oman, Western Asia, Asia	12.55%	13.1%	4	65
Jordan, Western Asia, Asia	11.96%	8.99%	5	66
Egypt, Northern Africa, Africa	4.22%	3.39%	6	94
Lebanon, Wester n Asia, Asia	1.63%	2.51%	7	109

Source: <a href="https://stats.labs.apnic.net/ipv6">https://stats.labs.apnic.net/ipv6</a>

Source: <a href="https://www.google.com/intl/en/ipv6/statistics.html">https://www.google.com/intl/en/ipv6/statistics.html</a>



# IPv6 for Sustainable Development

Leave No One Behind

## RIPE NCC Engagements and Activities &



### Government and Regulator Engagements

(Meetings and Roundtables)

## Law Enforcement Agency Engagements

(Trainings and webinars)

### **Sectorial Engagements**

(Banking, Academic and Community Projects Fund)

#### **Internet Measurements**

(Country Reports, RIPE Atlas and RIPEstat)

### **Capacity Building**

(Technical training, workshops, webinars, RIPE NCC Academy, elearning, Certified Professionals)

### **MENOG & Peering Forum**

(Sharing knowledge and best practices)

## The Challenges Ahead...



- IPv6 for Digital Transformation and Digital Economy: Develop Internet infrastructure that provides security and efficiency and bridges the digital gap
- Routing: Keep data traffic inside the region
- Capacity Building: Gain know-how and technical expertise
- Adaptive Regulation: Ensure regulation to meet technology advancements
- Data and Analysis: Deploy more Internet measurement tools



## Questions



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