

# UK IPv6 Council Roundtable

Hosted by Sky UK

23 April 2024



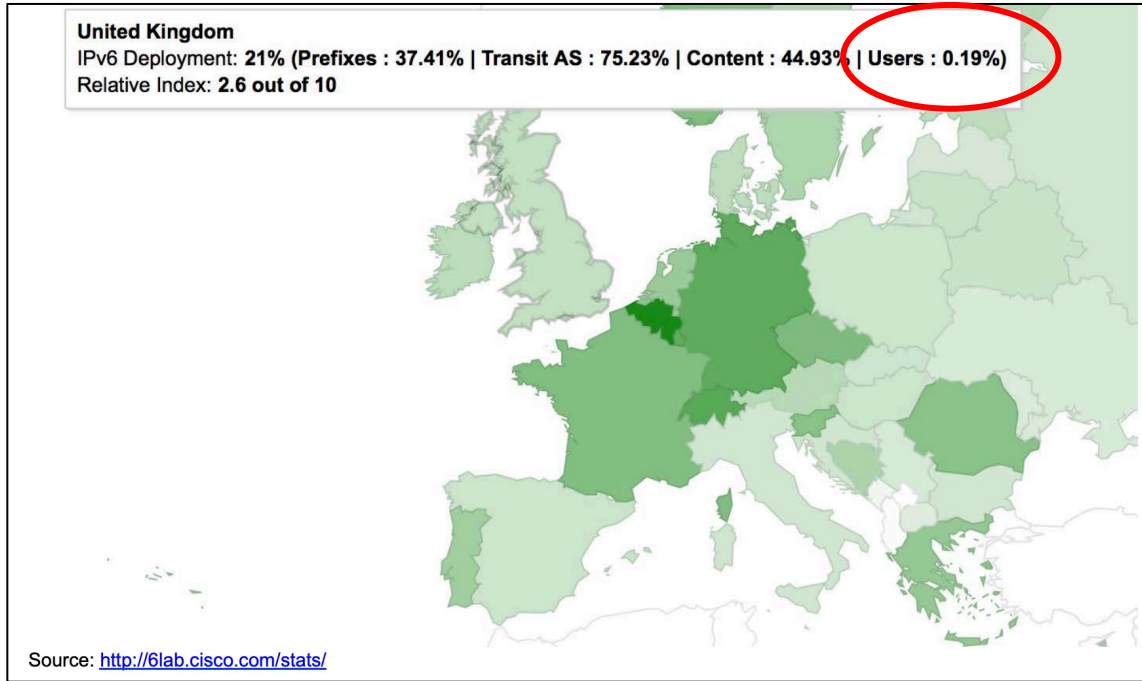
**UK COUNCIL**

# Agenda

- 13:30 - 15:00 – Session 1
  - Welcome & opening
  - How to overcome the Lack of IPv6 Knowledge
  - Transition Mechanisms beyond Dual-stack
- 15:00 – 15:30 – Tea & Coffee break
- 15:30 – 17:00 – Session 2
  - IPv6 in Consumer Electronics
  - Annual Meeting 2024 – topics

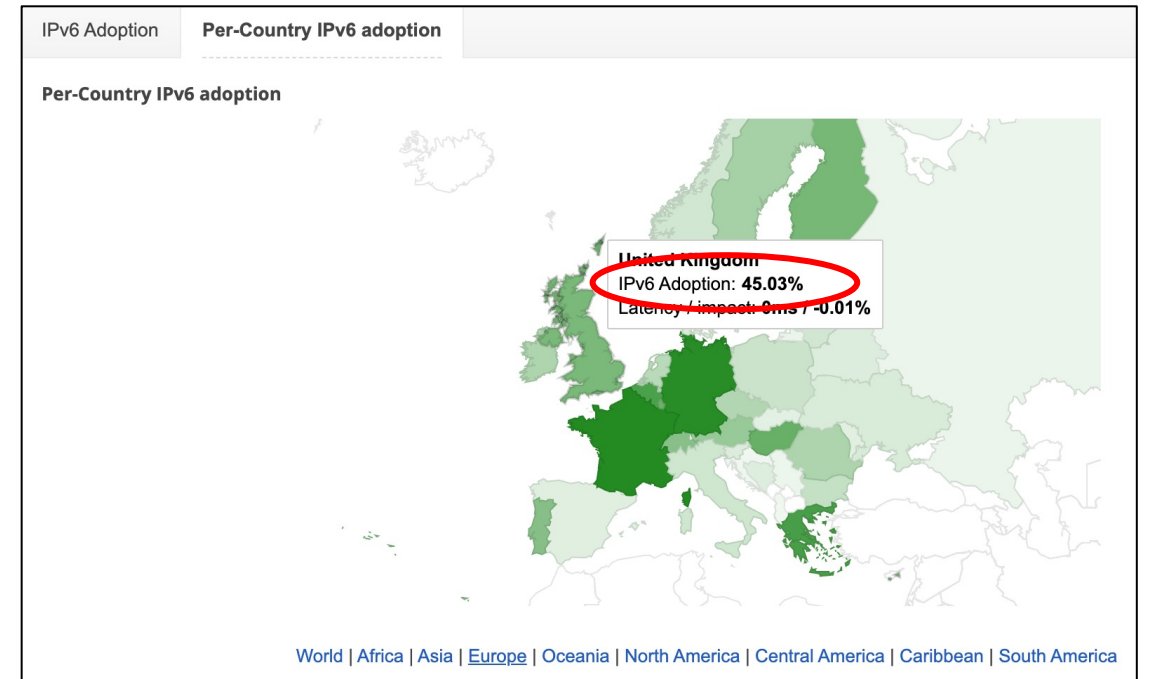
# Opening

- UK IPv6 Council celebrates **10 years** in 2024
  - Mission – be the place for sharing experience, by bringing them together, enable different groups to deploy IPv6 with confidence
  - First public announcement at [UKNOF29](#) in Belfast
  - Annual meeting each year (also during the pandemic)
  - Roundtable meetings to support small group discussion
  - Themed workshops
    - Applications (2016)
    - Security (2017)
    - Transition technologies (2018)
    - Cloud (2019)
    - Enterprise deployment (2023)
  - Dozens of speakers from the UK and abroad
  - LinkedIn [group](#) has 866 members



UK IPv6 status in  
spring 2014

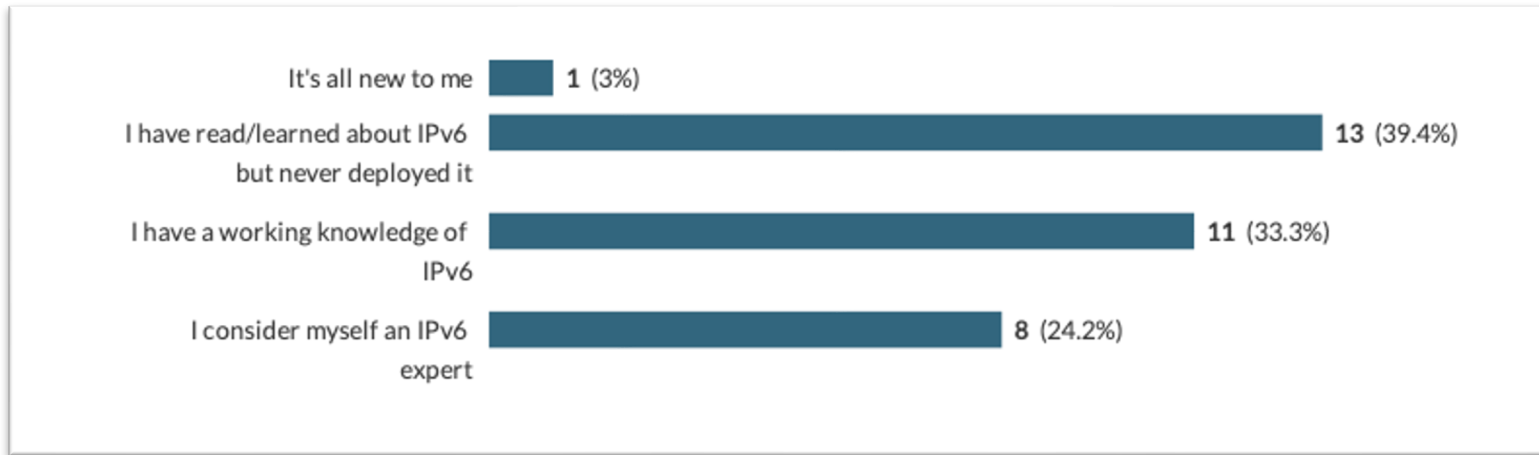
UK IPv6 status in  
spring 2024



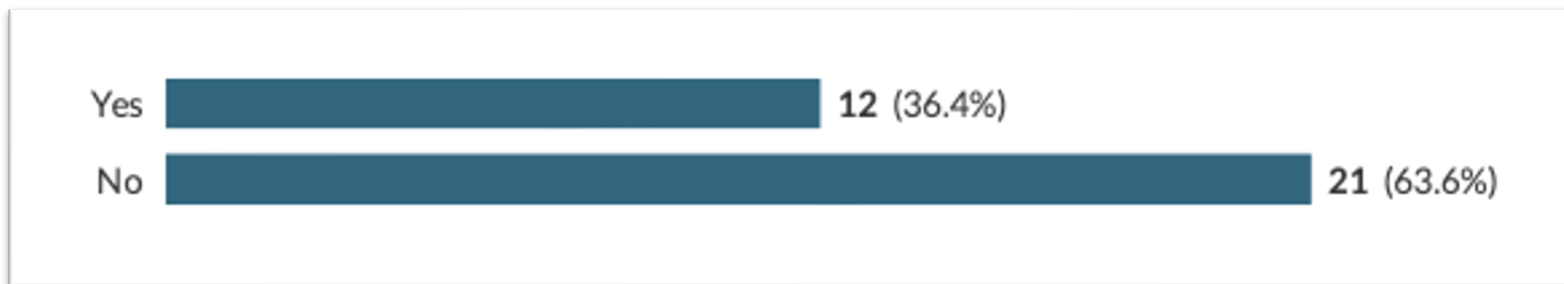
# How to overcome the Lack of IPv6 Knowledge

- Lack of IPv6 knowledge is the biggest obstacle to deployment

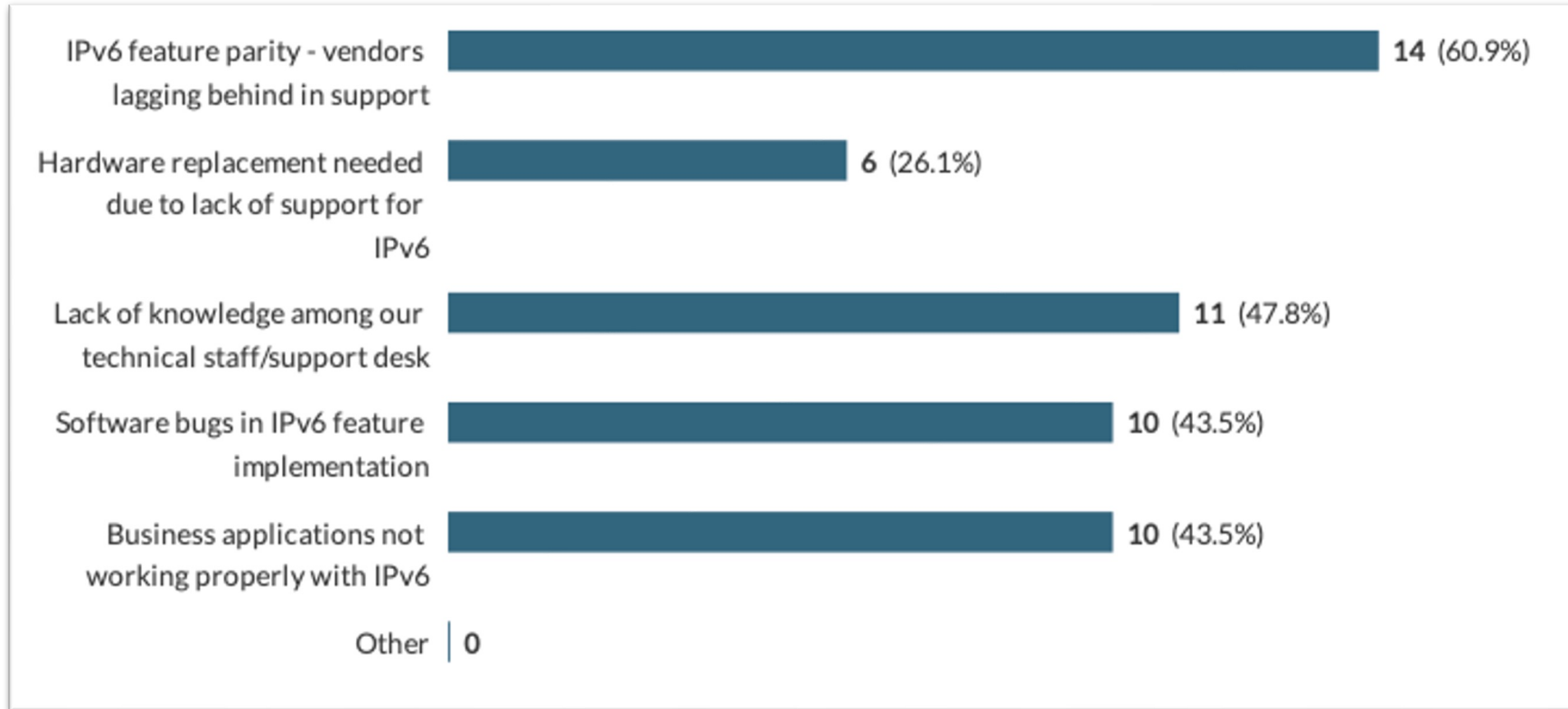
# 1. What is your level of knowledge of IPv6?



# 2. Have you received any formal IPv6 training?



#### 4. What were the most impactful issues you have come across in your IPv6 deployment? (multi-choice)



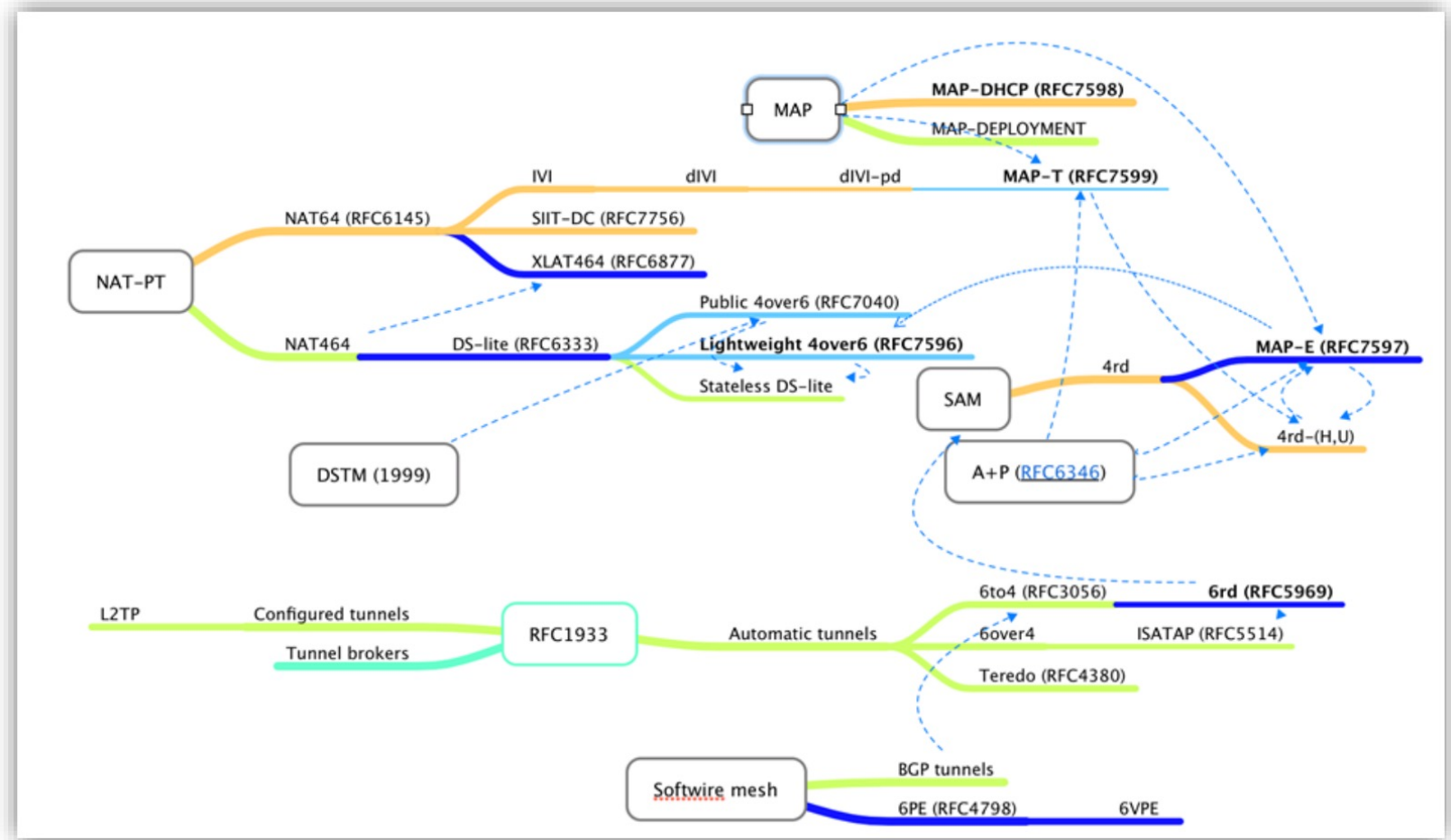
# How to overcome the Lack of IPv6 Knowledge

- Lack of IPv6 knowledge is the biggest obstacle to deployment
- Resources: Online IPv6 book ([book6](#) in GitHUB), Route 128 ([IPv6 SmartKit](#)), others?
- Training companies: Hexabuild, others?
- ARCEP France/Task Force IPv6 [Enterprise: How to deploy IPv6](#)
- Others?



# Transition Mechanisms beyond Dual-Stack

- How times have changed...



IPv6 Transition Technologies Evolution Mind-map, courtesy of Ole Troan, Cisco

# Transition Mechanisms beyond Dual- Stack

- How times have changed...
- Dual-Stack – the original “go to” transition technology
- “Used-to-be-considered” technologies:
  - 6rd deployed by Free in France (the envy of 2014! With 5% user adoption),
  - 4rd (radical, was there a production deployment?)
  - DS-lite
  - Tunneling
- Technologies deployed have “boiled down” to the ones which solve the REAL IPv4 address shortage:
  - MAP-T/E, 464XLAT, IPv6-mostly (& NAT64/DNS64)
- New ISP market entrants: dual-stack + CGN and start to deploy MAP-T/E as soon as there’s support in the home GWs
- Enterprises usually deploy Dual-stack and if pressed by lack of IPv4 then IPv6-mostly is attractive (and 464XLAT is debated too)

# IPv6 in Consumer Electronics

- Project “Matter” is changing the playing field (IPv6 inside the home but not outside towards the services as ISP IPv6 offering isn’t ubiquitous)
- Traditional IOT: Samsung, SONY, Philips, LG, Schneider Electric (their core business)
- Non-traditional IOT: Amazon, Apple, Google – they are driving the change (IOT is just another way to sell and embed themselves with their users more)

# Annual Meeting 2024 - Topics

- 11<sup>th</sup> meeting hosted by Cisco Meraki, November 2024
- 10 years since the start of the UK IPv6 Council
- Topics and potential presenters