

# UK IPv6 Council 11th Annual Meeting

Cisco, London

19 November 2024



# Agenda – Morning Block

- 10:00 - 10:30 – Opening - Veronika McKillop (UK IPv6 Council)
- 10:30 – 11:00 – IPv6-only with IPv4aaS using MAP-T - Richard Patterson (Sky)
- 11:00 - 11:15 – Vodafone IPv6 deployment for Consumer Broadband – Kester Paine (Vodafone)
- 11:15 - 11:45 – Hosting the UK IPv6 Council: IPv6 Operations Tale – Jeffry Handal (Cisco)
- 11:45 - 12:00 – IPv4 Market Update – Paulius Judickas (IPXO)
- 12:00 - 13:00 – Lunch

# Agenda – Afternoon Block 1

- 13:00 - 13:30 – IPv6 News from the IETF – Eric Vyncke (IETF)
- 13:30 - 14:00 – IPv6 in Windows Then and Now – Tommy Jensen (Microsoft)
- 14:00 - 14:30 – IPv6-mostly at Imperial College London – David Stockdale (Imperial College London)
- 14:30 - 15:00 – How to implement IPv6 in very large organizations – Wilhelm Boeddinghaus (Route 128)
- 15:00 - 15:30 – Tea & Coffee

# Agenda – Afternoon Block 2

- 15:30 – 15:45 – On the way to IPv6-only household – Pavel Odintsov (FastNetMon)
- 15:45 - 16:15 – IPv6 Deployment for Small/Medium Businesses – Tim Bray
- 16:15 - 16:45 – IPv6 Security Best Practices and the Future of Cyber Defense – David Kennedy (Arkenox)
- 16:45 - 17:30 – UK IPv6 Council 10<sup>th</sup> Anniversary Panel
- Closing
- After-meeting social at [Finch's Pub](#), 12A Finsbury Square, London

## Wireless & Housekeeping

- **SSID: Meraki-Guest**
  - **Dual-stack enabled**
- No fire alarms scheduled
- To take a call – step out into Neptune room
- Bathroom – visitor badges to get back



# 10 Years of the UK IPv6 Council

- First public announcement at [UKNOF29](#) in Belfast in September 2014
- **Mission** – be the place for sharing experience, by bringing them together, enable different groups to deploy IPv6 with confidence
- Everything we do is **free**
- **Annual meeting** each year (virtual during the pandemic)
- **Roundtable meetings** to support small group discussion

# 10 Years of the UK IPv6 Council

- **Themed workshops**
  - Applications (2016)
  - Security (2017)
  - Transition technologies (2018)
  - Cloud (2019)
  - Enterprise deployment (2023)
- Around 200 speakers participated
  - From the UK and abroad – coming for free
- LinkedIn group has 904 members
  - <1% is active but the posts are seen and shared beyond our group



# Hosts of Annual meetings

2014 **IDEA**

2015 

2016  **IET** The Institution of  
Engineering and Technology

2017 &  
2018 **BT** 

2019 &  
2022 &  
2023  **Meta**

2020 &  
2021 

2024  **CISCO**  
**Meraki**

# Hosts of Roundtables

2015



2016



2018



2019 - 2024



2024



# Hosts of Workshops

2016

rise  
london  
#homeoffintech

2017

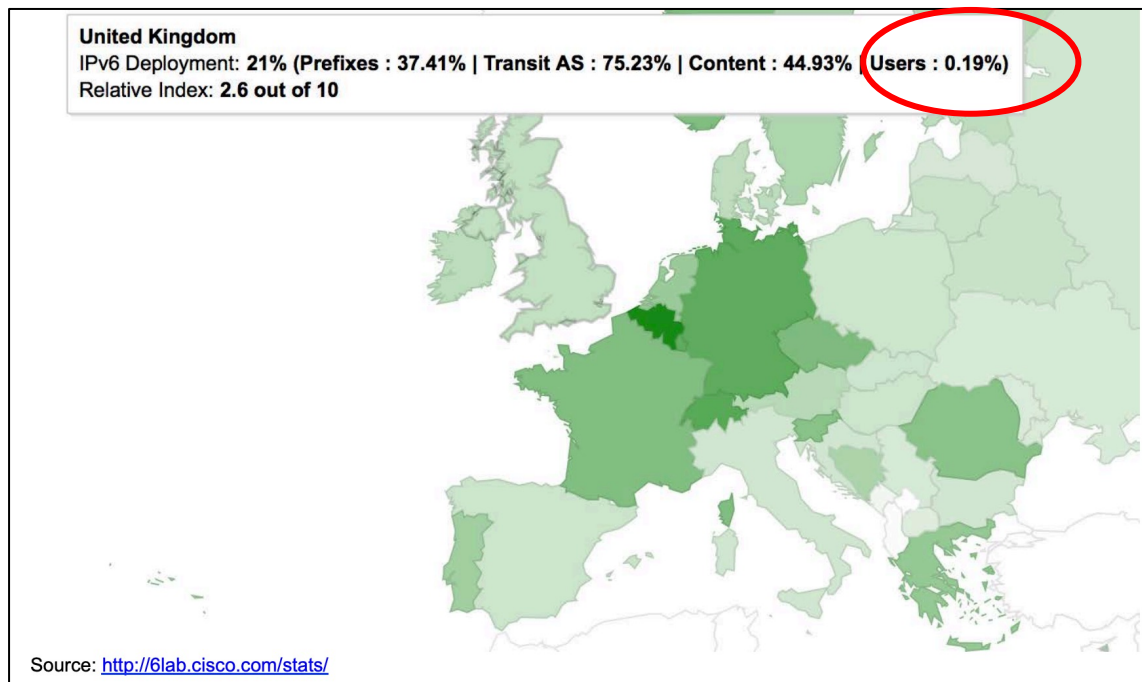


2018 & 2019

**I M P E R I A L**

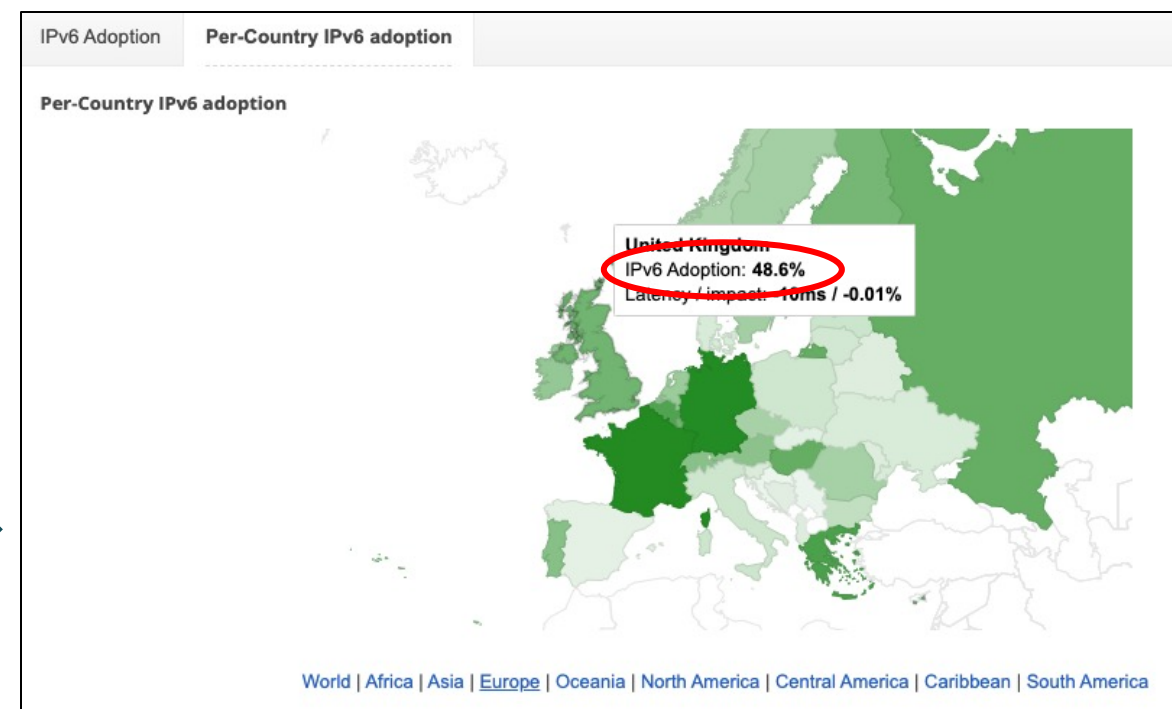
2023

Morgan Stanley

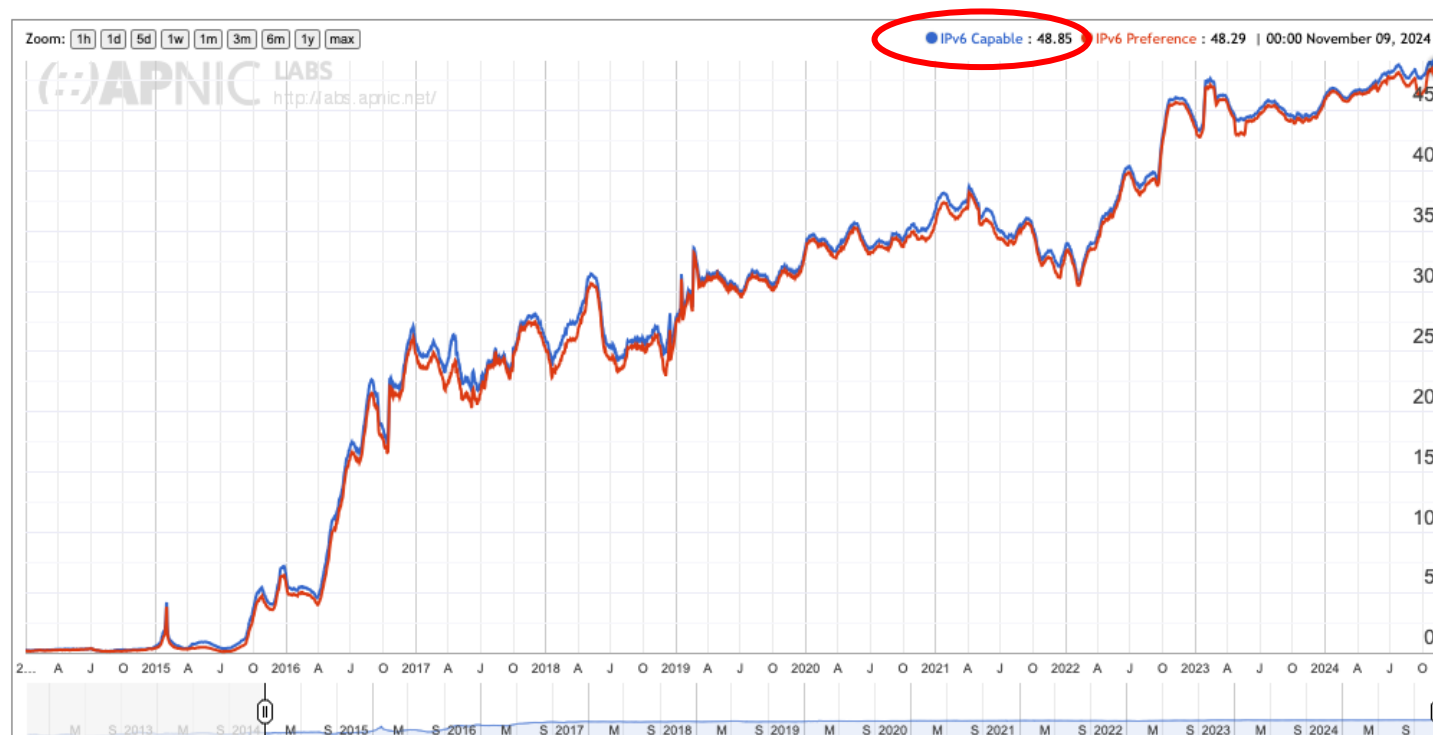


UK IPv6 status in  
spring 2014

UK IPv6 status in  
autumn 2024



# UK IPv6 Adoption level – November 2024



Google –  
48.72%

Meta –  
42.1%

Source: [APNIC](http://labs.apnic.net/)

# What are we (the UK) still missing?

- **Operators lagging** – Virgin Media, Talk Talk, and majority of mobile operators not doing IPv6 (still!)
- **Universities** produce graduates who don't know (almost) anything about IPv6 (there are rare exceptions e.g. University of Southampton)
- **No government IPv6 program** – unlike the USA, China, Vietnam, Germany, India, Sweden, Netherlands...

# Czech Republic sets IPv4 end date

On 17 January 2024, the Government of the Czech Republic approved the material "Restarting the implementation of DNSSEC and IPv6 technologies in the state administration". On the basis of this decision, the Czech state administration will stop providing its services over IPv4 on 6 June 2032. Thus, the Czech Republic knows its IPv4 shutdown date.

[Download the resolution](#)

Source: [CZ.NIC](#)

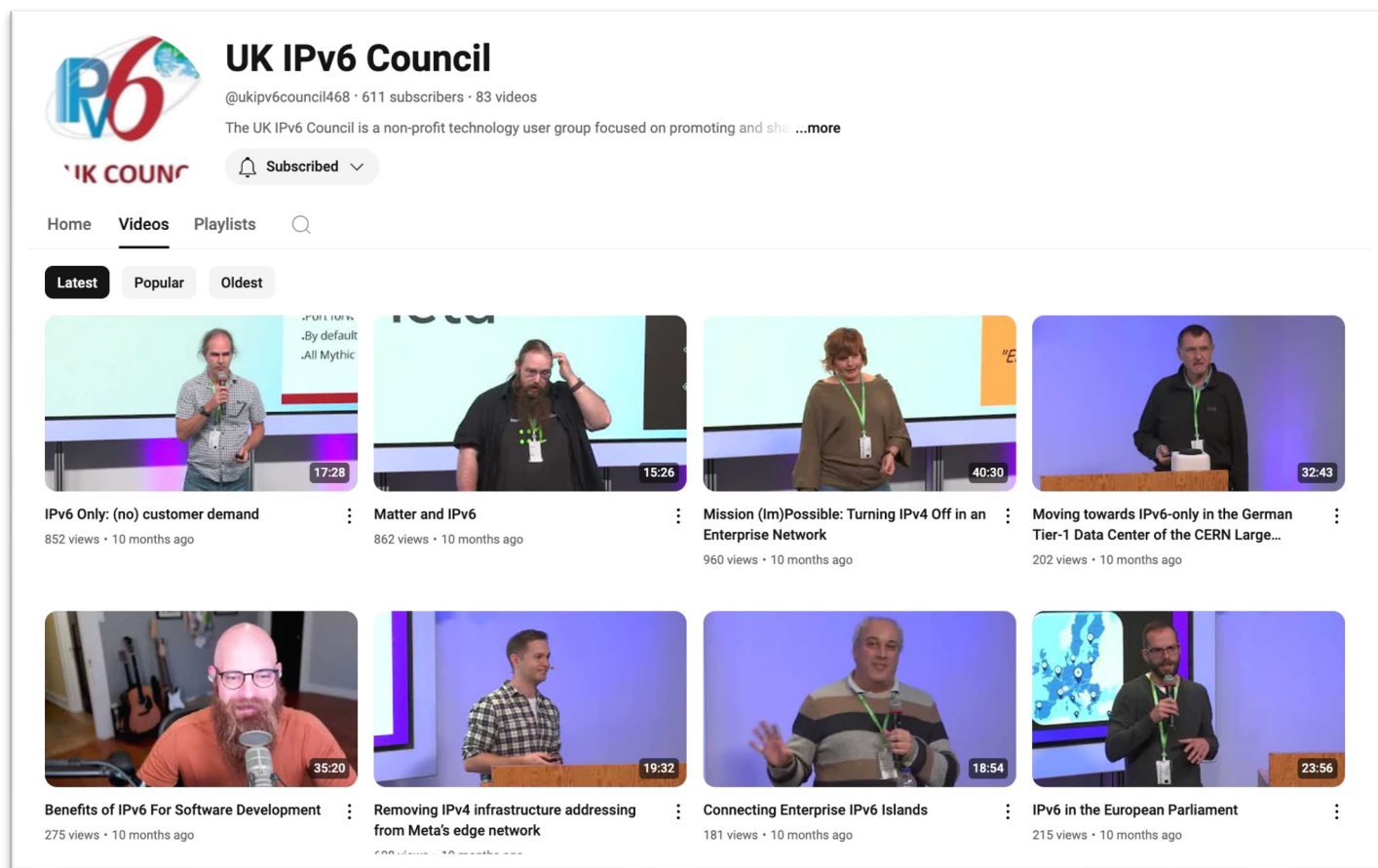
# IPv6 News in the Council

- RFC 9637 Documentation prefix
  - Ed Horley spoke about the need for a larger documentation prefix at our meeting in 2021
- [IETF draft](#) to update RFC 6724 Source address selection for IPv6
  - Prioritizing known-local IPv6 ULAs through address selection policy
  - Use of ULA has been repeatedly debated at our meetings and especially at the [Enterprise workshop](#) 2023
- Free plug – IPv6spot
  - IPv6-only Captive portal created by [Abdulkader Alrezej](#)
  - Open source
  - [GitHub repo](#)



# UK IPv6 Council - Resources for you

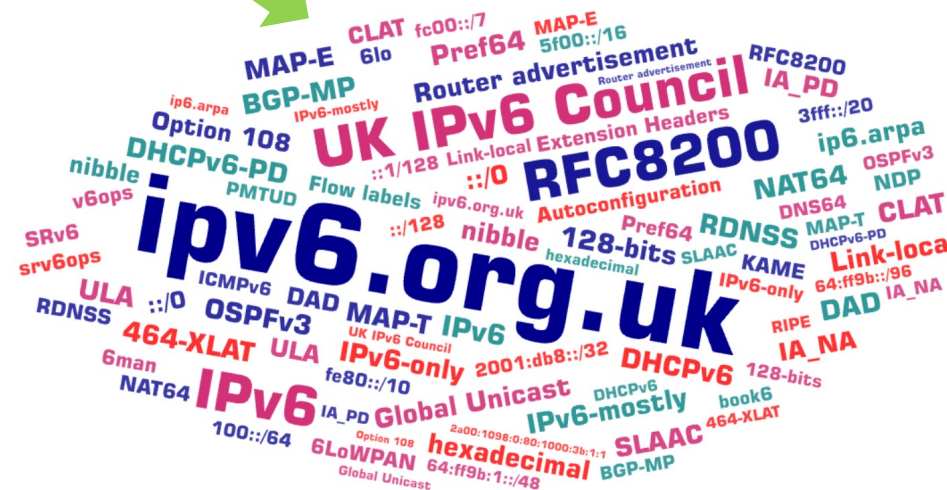
- [www.ipv6.org.uk](http://www.ipv6.org.uk) – all presentations since 2014
- LinkedIn [group](#) – all upcoming events
- YouTube [channel](#) since 2017



# Stickers



## !!NEW!!



# T-Shirts are coming!



- T-shirts will be available to order directly from Cafepress
  - With our design
  - Announcement in the LinkedIn group

# Future Activities

- Roundtable in Spring 2025?
  - Small group discussion
- A workshop in 2025?
  - What theme and who can host?
- Annual Meeting 2025?
  - Similar format as today, always looking for a host

Please note: All presentations are **being recorded** and will be made available online.





& deploy IPv6