

UK IPv6 Council in 2026 / Enterprise & IPv6

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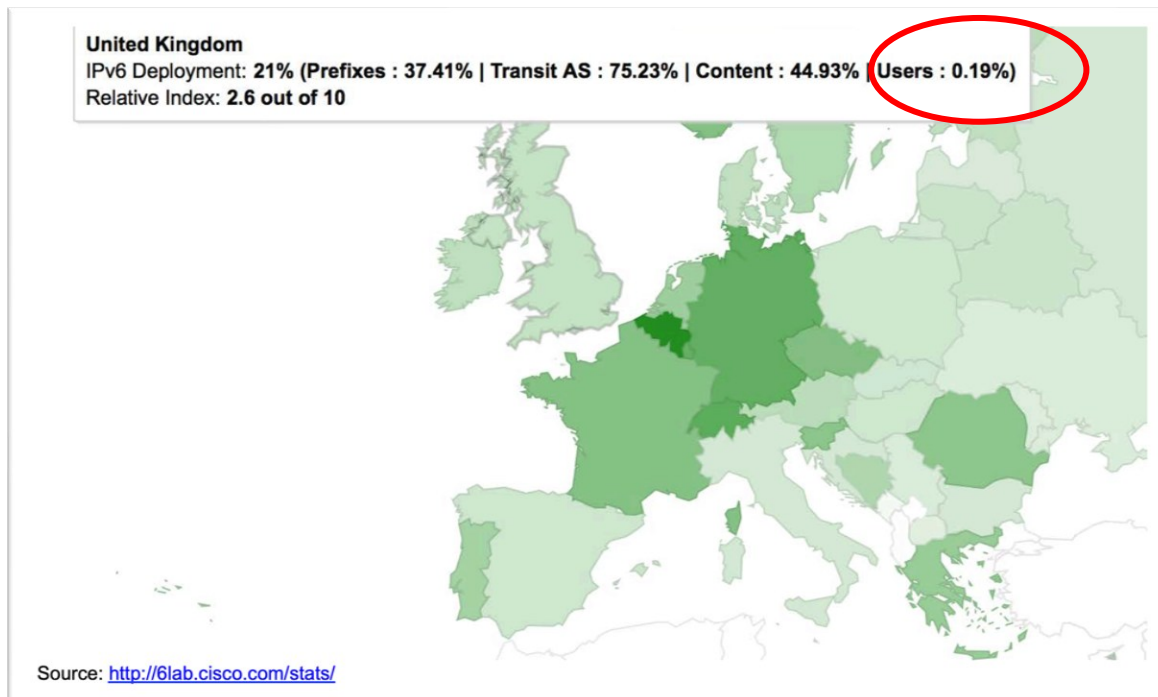
IPv6 2030 : Les conditions d'un future de l'Internet en IPv6

L'ARCEP, Paris, 27 January 2026



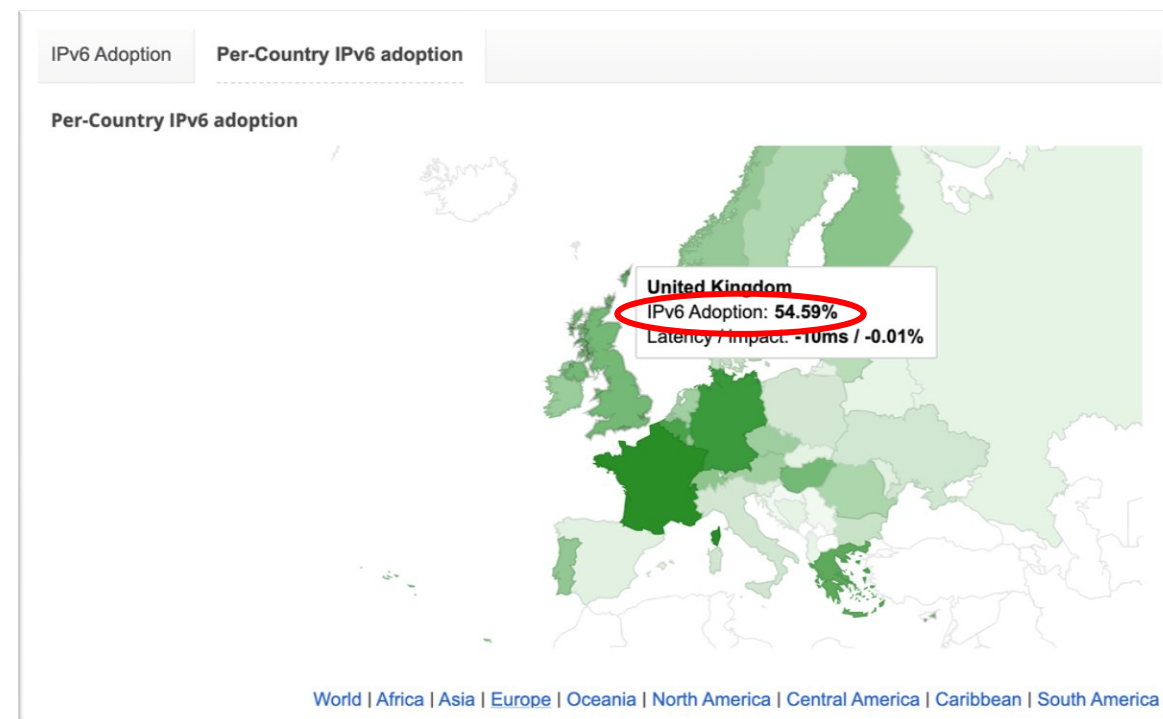
Who is the UK IPv6 Council?

- In existence since **2014**
- **Mission** – to be the place for sharing experience with IPv6 & to enable different groups to deploy IPv6 with confidence
- **Annual meeting** each year
- **Roundtable meetings** to support small group discussion
- Themed workshops:
 - Applications (2016)
 - Security (2017)
 - Transition Technologies (2018)
 - Cloud (2019)
 - Enterprise (2023)
- Everything we do is **free**

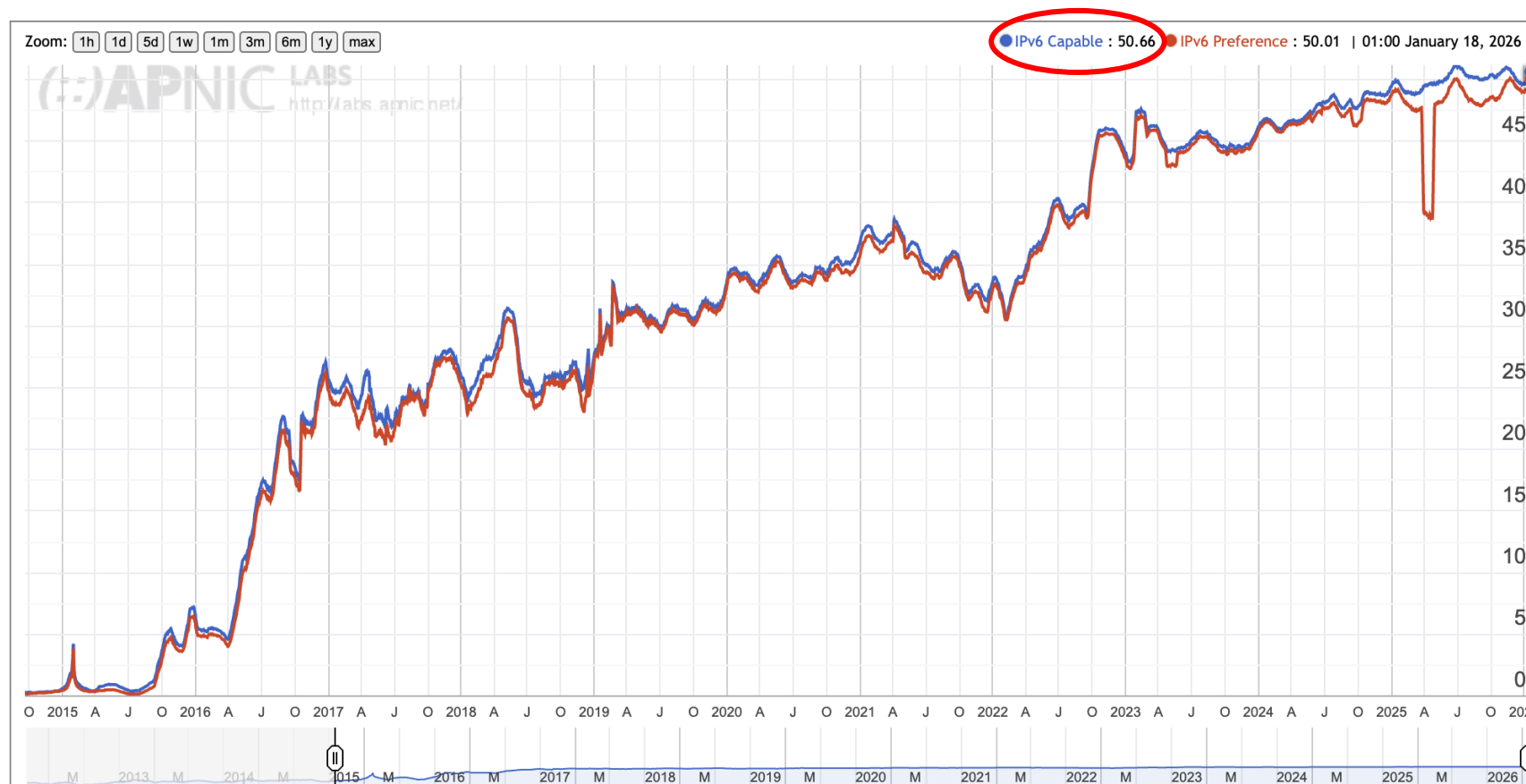


← UK IPv6 status in
spring 2014

UK IPv6 status in
January 2026



UK IPv6 Adoption level – January 2026



Source: [APNIC](#)
– 50.66%

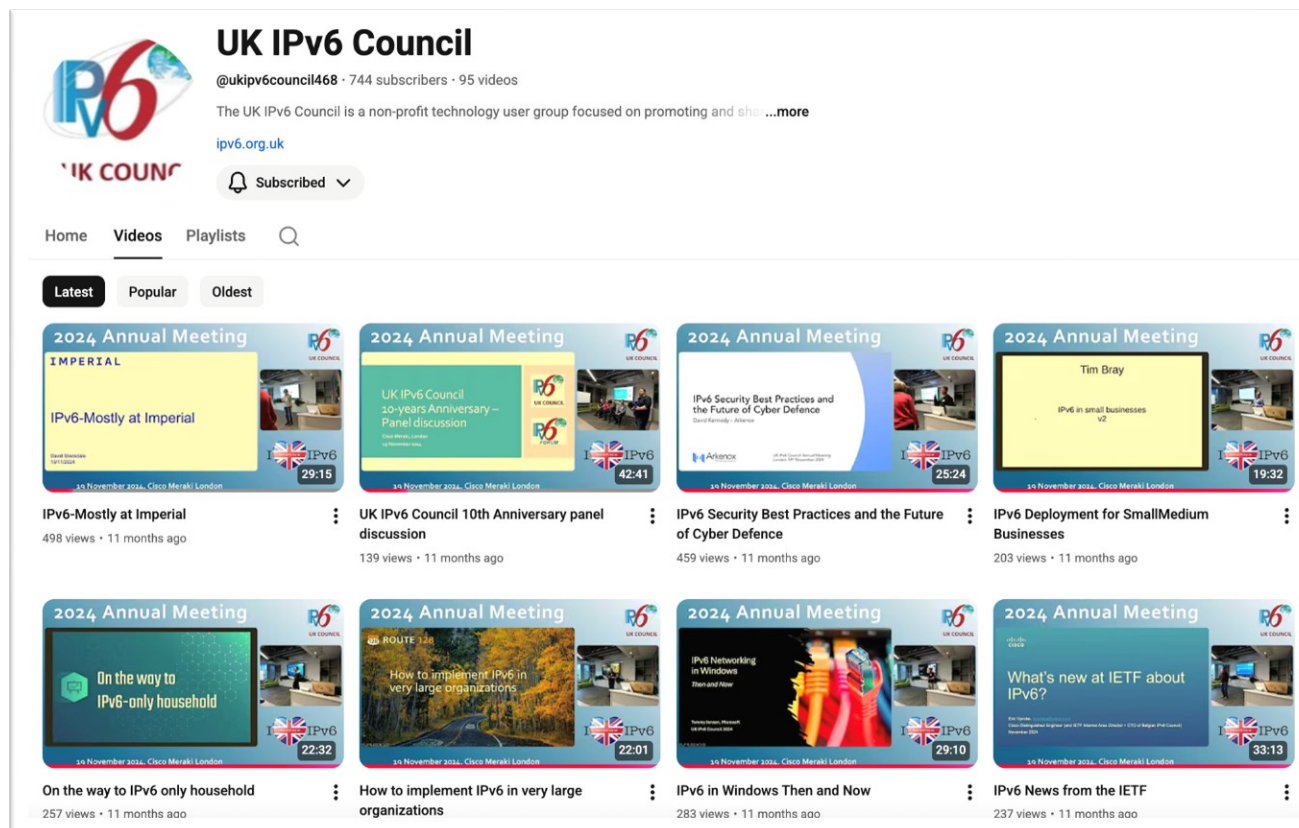
[Meta](#) –
45.05 %

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...
- **No interest by OFCOM** (the UK communications industry regulator)

UK IPv6 Council - Resources for you

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



Enterprise & IPv6 - Observations

Enterprise & IPv6 – Game of Multidimensional Choice

- Type of deployment – Dual-stack / IPv6-mostly / IPv6-only
 - **Dual-stack** well known
 - Test in IPv6-only to uncover bugs
 - **IPv6-mostly** describes DEVICE environment (CLAT)
 - Dual-stacked network with addition of PER64/NAT64 & DHCP 108
 - **IPv6-only** is an APPLICATION/device problem
 - CLAT availability SHOULD help
 - Networks carry IPv6-only traffic for > 10 years
- IPv6 addressing – Provider Independent vs Provider Aggregatable
 - Use of NAT66 is real
- IP Address Assignment Method – SLAAC vs DHCPv6
 - DHCPv6 PD is NOT what enterprises want
 - [Enterprise Implementation view of Android & DHCPv6 PD](#)
- To profit from IPv6, the end-to-end path must be IPv6
 - Many environments to touch
- Monitor your deployment!

Enterprise & IPv6 – Security Angle

- “Usual” mindset: no IPv6 deployed = safety => **WRONG!**
- IPv6 not deployed, YET not secured = **DANGER**
 - Rogue RA attacks already happening
- Network vendors poorly support standards (e.g. IPv6 FHS)
 - Multilayer approach necessary (host, network, security systems etc.)
 - RFC9099 based on experience
- SIEM tools don’t monitor IPv6 as well as IPv4
 - InfoSec teams don’t want to “fly blind”
- Security auditors audit only IPv4 – the standards don’t EXPLICITLY mention IPv6
- Does your RED team test against IPv6?

Enterprise & IPv6 – Business / Political Angle

- IT organisations have “million” priorities – where does IPv6 fit?
- Do we understand the dynamic of enterprises?
 - Not-IT-centric companies outsource IT to an IT services company (=> zero/low knowledge of IPv6)
 - Central IT has little say over regions
 - Business Units with IT budgets drive their own agendas
 - IT/Networking teams are waiting for BUs to ask for IPv6
 - Top-level management support and budget allocation is a MUST
- Enterprises rely on vendors for updates and guidance
 - They can't go to the IETF or RIPE NCC (RIR) meetings
- Industry days / pressure from law / regulators / Cloud charging for IPv4 helps with prioritization
 - Doing business in Asia makes IPv6 necessary

Enterprise & IPv6 – “On & Off” Game

- A bug in an OS/application?!? Switch IPv6 off!
- On-prem solutions when moved to Cloud drop IPv6 support
- Zero-Trust security solutions deprioritize IPv6 addresses
- SD-WAN solution doesn't support IPv6
- Enterprises are lobbied to disable IPv6/not use it, “protect” everything with NAT
 - IT services/cybersecurity companies/consultants have NO understanding of IPv6
- Do we need another RFC / Security standard saying switching off IPv6 is NOT an option?
- These concerns come from real deployments = **we are advancing!** 😊



& deploy IPv6