



Why IPv6 and Applications now?

Veronika McKillop
UK IPv6 Council President
02/06/2016

UK IPv6 Council

- Technology User group
 - started in April 2014
 - 401 members
- The aim: Bring people together to share information, experience and knowledge about IPv6 deployments
- Website: www.ipv6.org.uk

Core team



J.P.Morgan



Microsoft[®]

janet

Imperial College
London

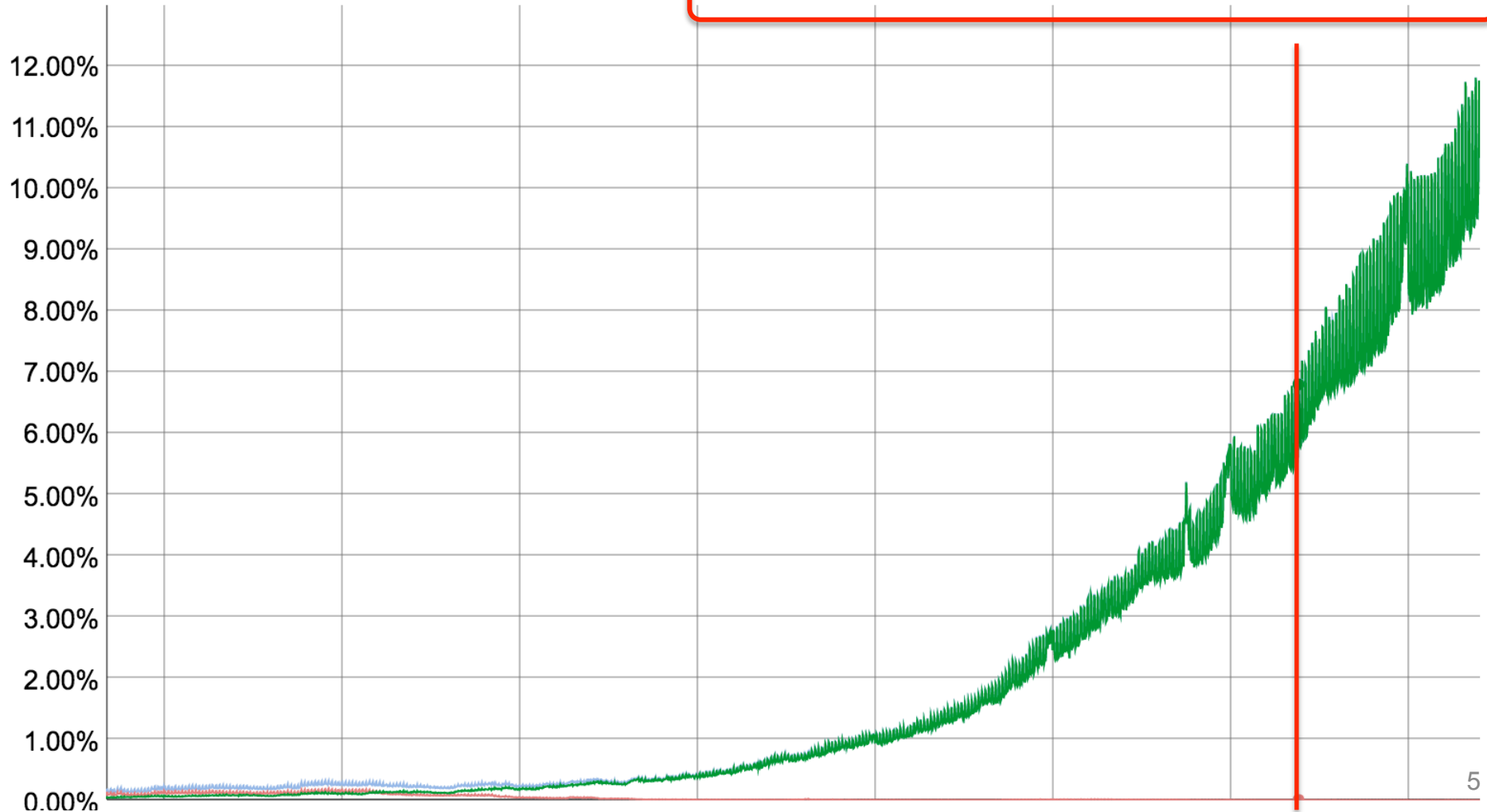


 NCC
Networks

STEP 1: IPV6 CONNECTIVITY

IPv6 World – The Past...

Native: 6.79% 6to4/Teredo: 0.01% Total IPv6: 6.80% | May 23, 2015

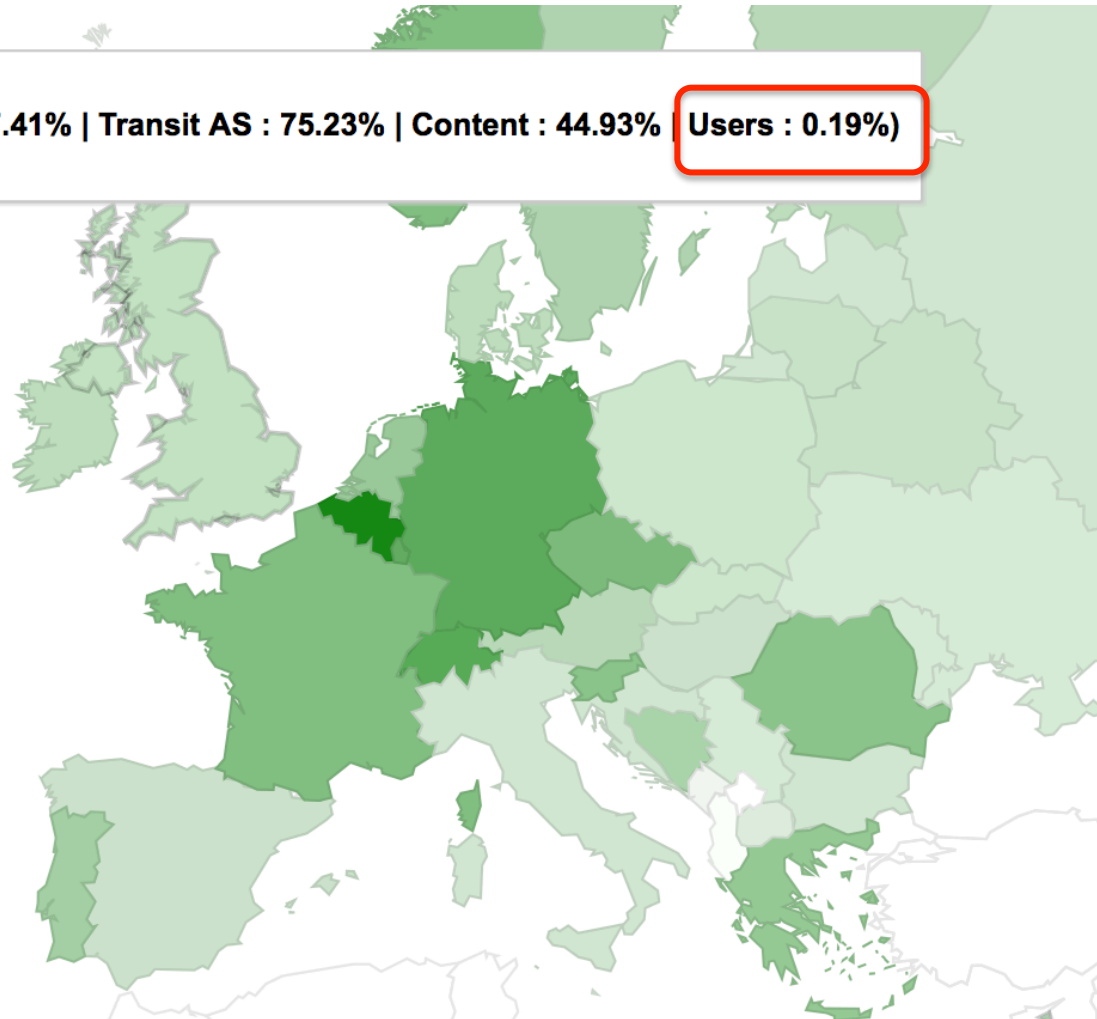


Where was the UK – 05/09/2014

United Kingdom

IPv6 Deployment: 21% (Prefixes : 37.41% | Transit AS : 75.23% | Content : 44.93% | **Users : 0.19%**)

Relative Index: 2.6 out of 10



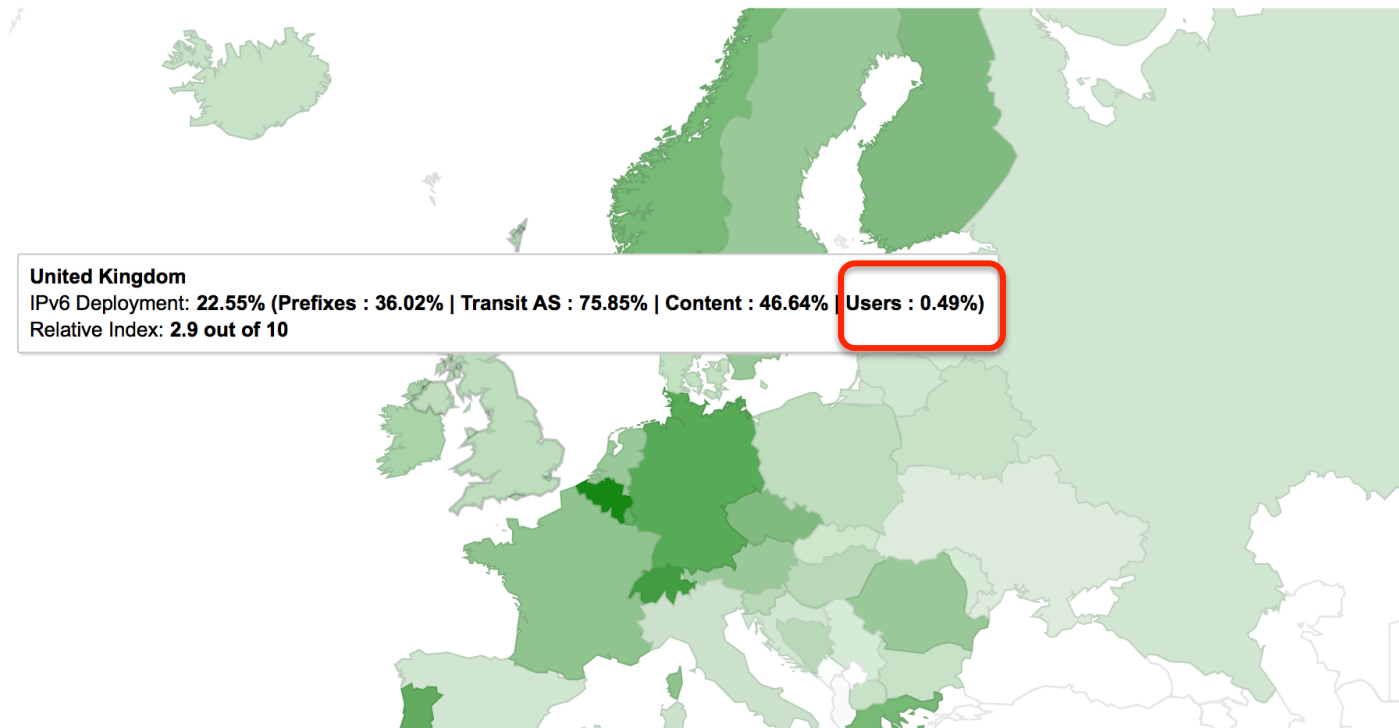
Where was the UK – 12/08/2015

Updated on 2015-8-12

Display global data

World | Africa | Asia | America | **Europe** | Oceania

Northern Europe | Western Europe | Eastern Europe | Southern Europe

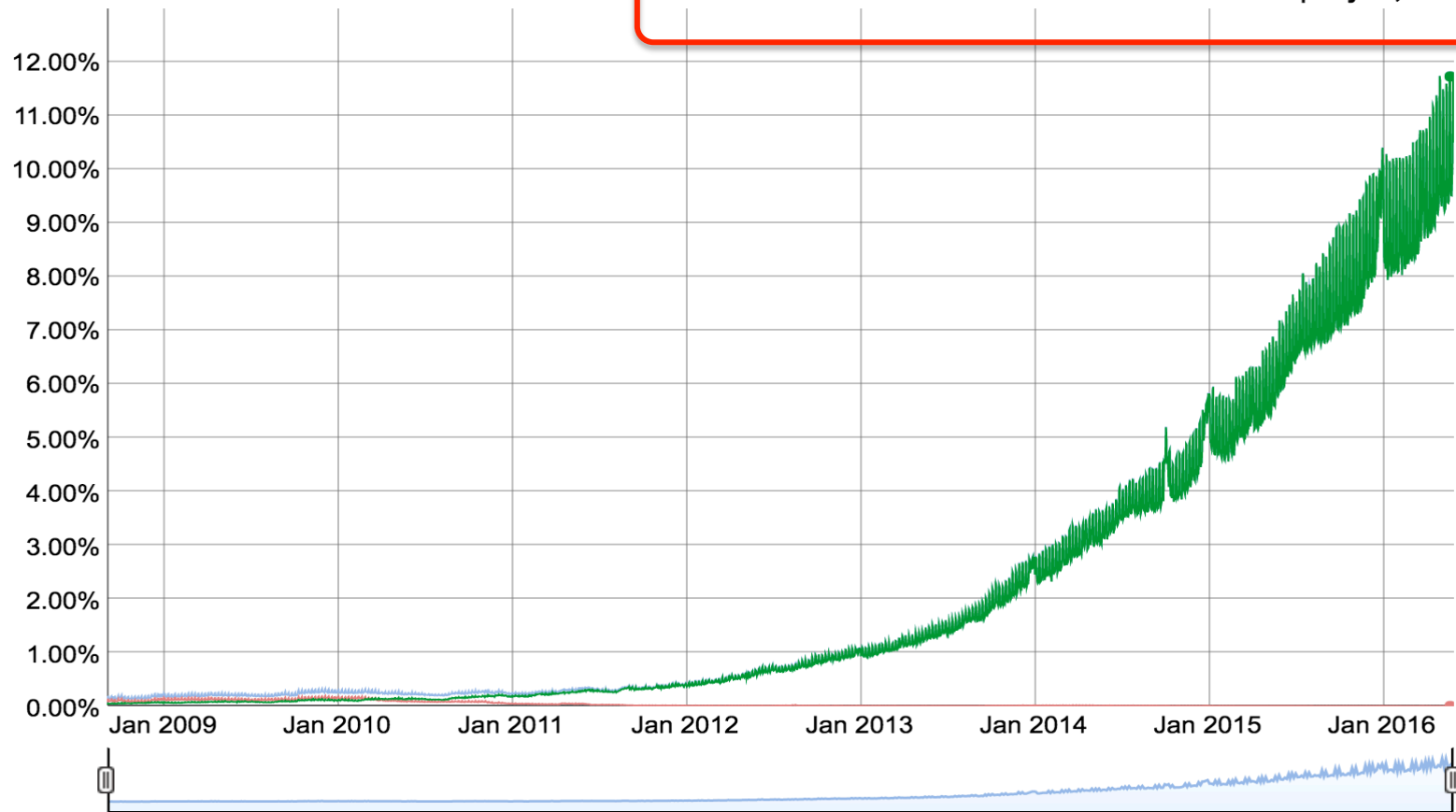


IPv6 World – ... and the Present

IPv6 Adoption

We are continuously measuring the availability of IPv6 connectivity among Google users. The graph shows the percentage of users that access Google over IPv6.

Native: 11.72% 6to4/Teredo: 0.01% Total IPv6: 11.73% | May 22, 2016



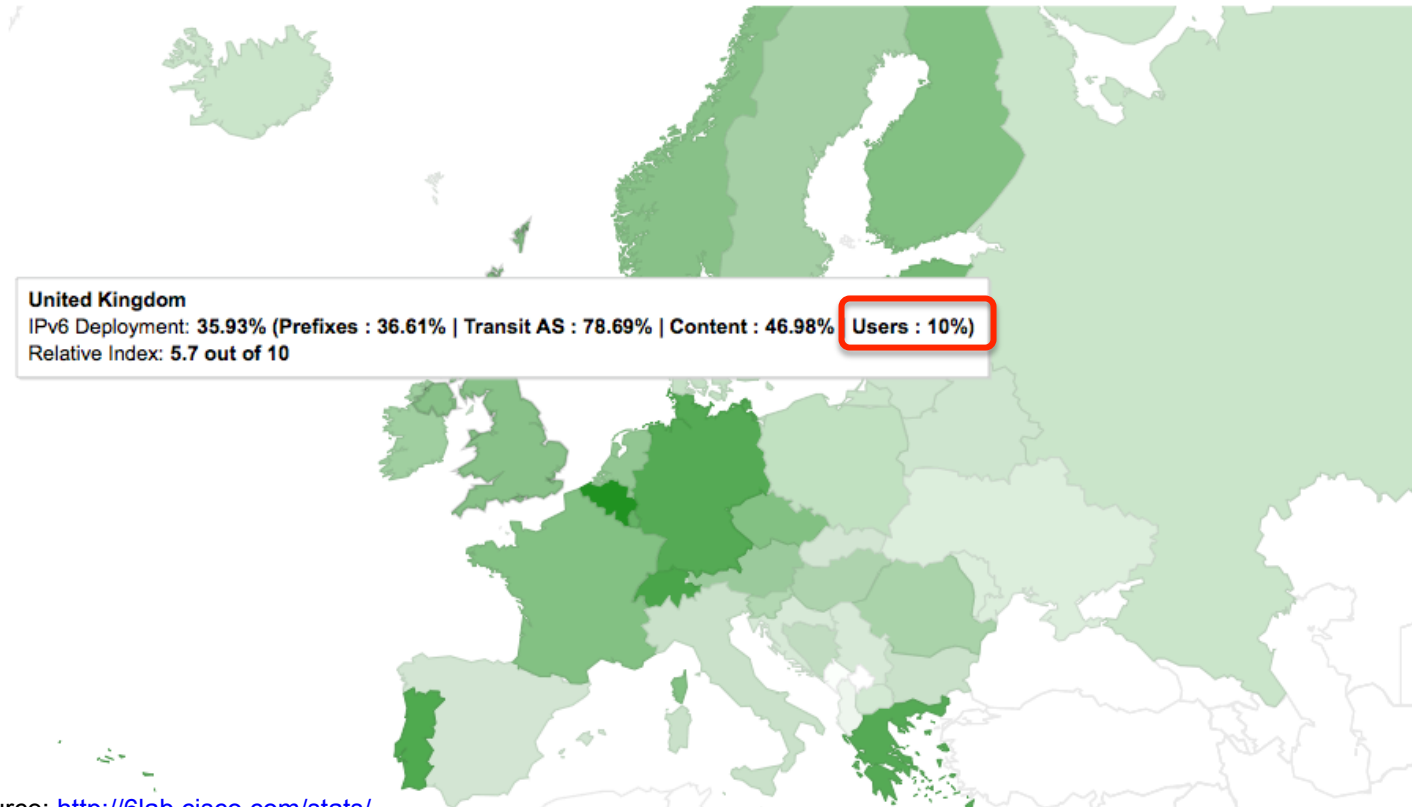
Where is the UK now?

Updated on 2016-6-2

Display global data

World | Africa | Asia | America | **Europe** | Oceania

Northern Europe | Western Europe | Eastern Europe | Southern Europe



APNIC Labs:
GB is #15
globally –
12.59% user
traffic is IPv6
[http://
labs.apnic.net/
dists/v6dcc.html](http://labs.apnic.net/dists/v6dcc.html)

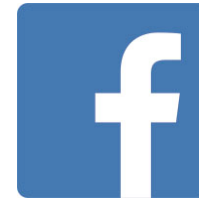
STEP 2: APPLICATIONS USING IPV6

Why care about IPv6 in SW?

- Currently majority of the networks are dual-stack
 - Good old IPv4 is there with IPv6
 - You have a fallback on IPv4 if things don't go well

Why care about IPv6 in SW?

- The world keeps changing



- IPv6-only Datacenters and offices

- IPv6-only wifi-hotspots



- Goggle offering public DNS64 (as of 26th May 2016)

- <https://developers.google.com/speed/public-dns/docs/dns64#introduction>



- Apple AppStore apps for iOS9 must work **IPv6-only** (as of 1st June 2016)

- <http://9to5mac.com/2016/05/04/apple-will-require-ios-app-store-apps-to-support-ipv6-only-networks-from-june-1/>

- Sunsetting IPv4 discussions





THE FUTURE IS FOREVER.

WE ARE READY. ARE YOU?

Thank you.

