

HOW FAST IPv6 CAN GROW

Large increases in IPv6 can happen in a short time...

COMMON VIEWS ABOUT IPv6

- Many organisations seem to think:
 - We have plenty IPv4 so we don't need IPv6
 - IPv4 NAT is good enough for our users
 - IPv6 deployment is slow
 - We have plenty of time
 - Etc...

FIRST BIG MISTAKE

- “We have plenty IPv4 so don’t need IPv6”
- It doesn’t matter how much IPv4 you have
 - There is a global shortage of IPv4 addresses
 - The rest of the world is deploying IPv6
 - Your IPv4 supply is irrelevant: world is moving to IPv6
 - You will miss new developments like the Internet of things

SECOND BIG MISTAKE

- “IPv4 NAT is good enough for our users”
- Are you really really sure?
 - Nobody will use the Internet of things?
 - Can you handle the increasing bandwidth and usage?
 - Can you keep investing in larger NAT devices?
 - Will those NAT devices be reliable enough?
 - Will law enforcement accept NAT forever?

THE BIGGEST MISTAKE

- “IPv6 deployment is slow”
- It is going faster than you think
 - What are the countries with the most IPv6?
 - How long did it take them to deploy?

COUNTRIES WITH MOST IPv6

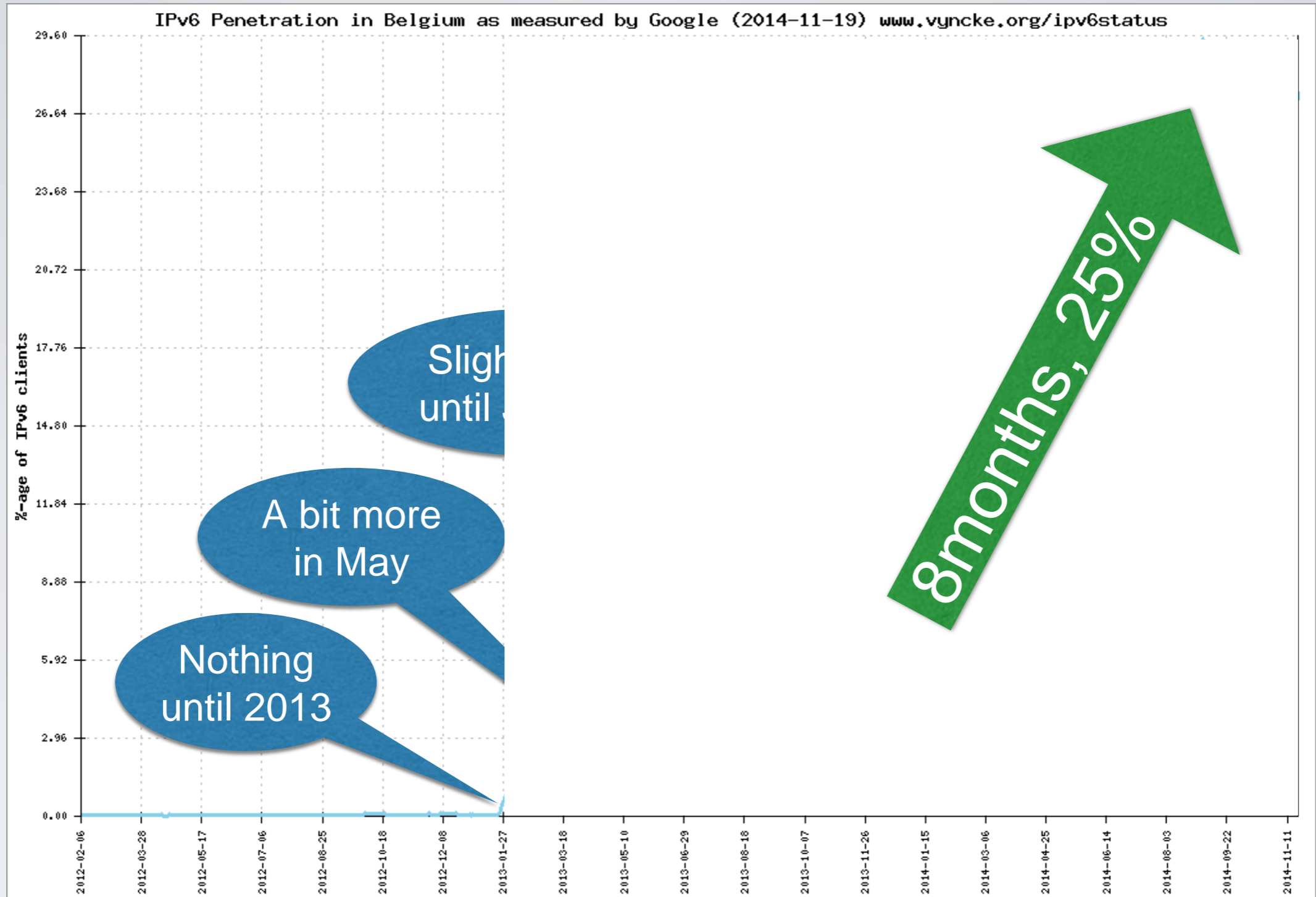
- Question to the room
 - When looking at the number of IPv6-capable users in a country, what percentage would you consider to be significant?
- Significant = worth taking into account when deploying services

COUNTRIES WITH MOST IPv6

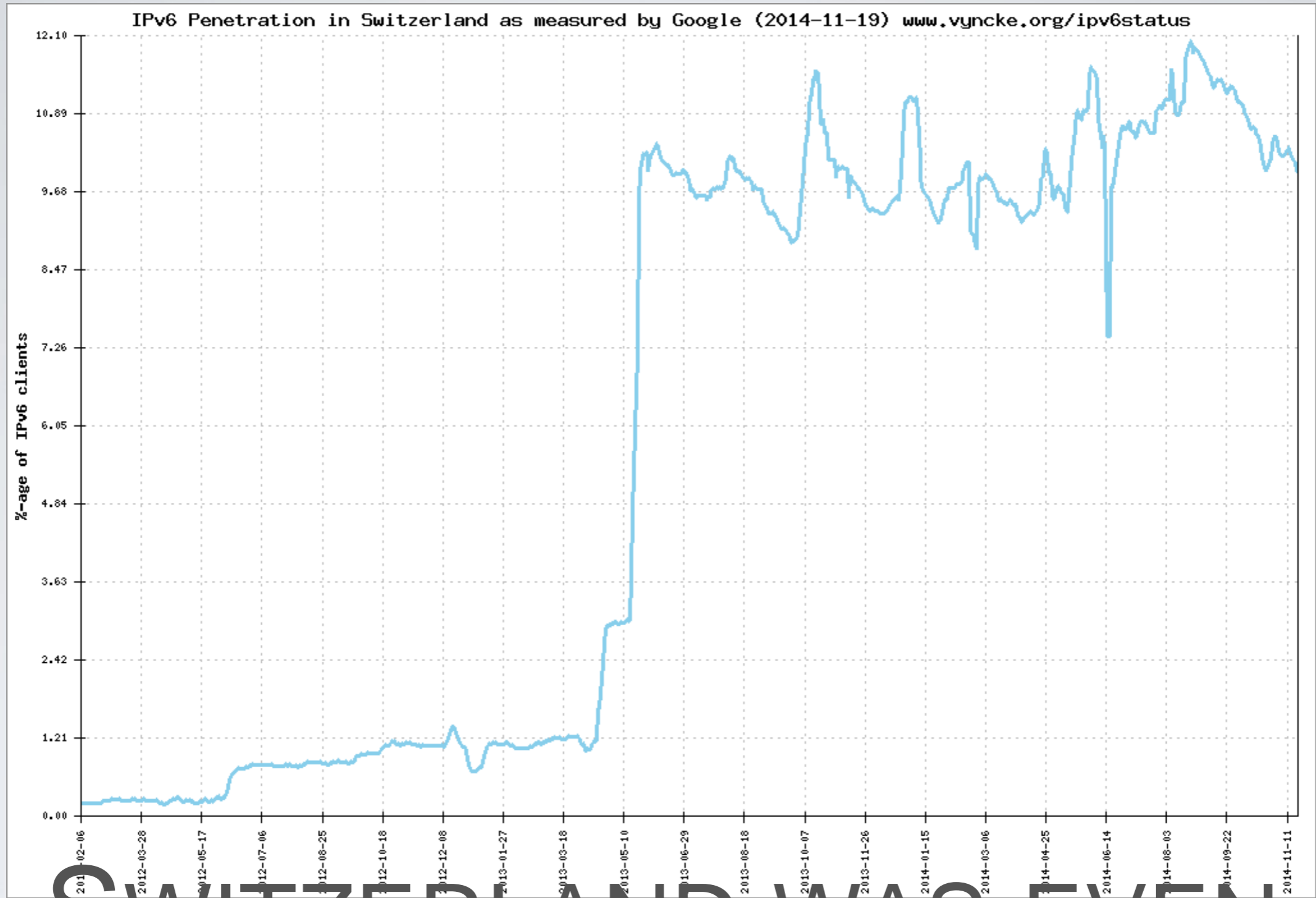
- Belgium • 30.3 %
- Germany • 13.5 %
- Luxembourg • 13.1 %
- Switzerland • 10.9 %
- USA • 10.6 %
- Peru • 10.2 %
- Romania • 7.7 %
- Czech Republic • 7.5 %

YES, >30%

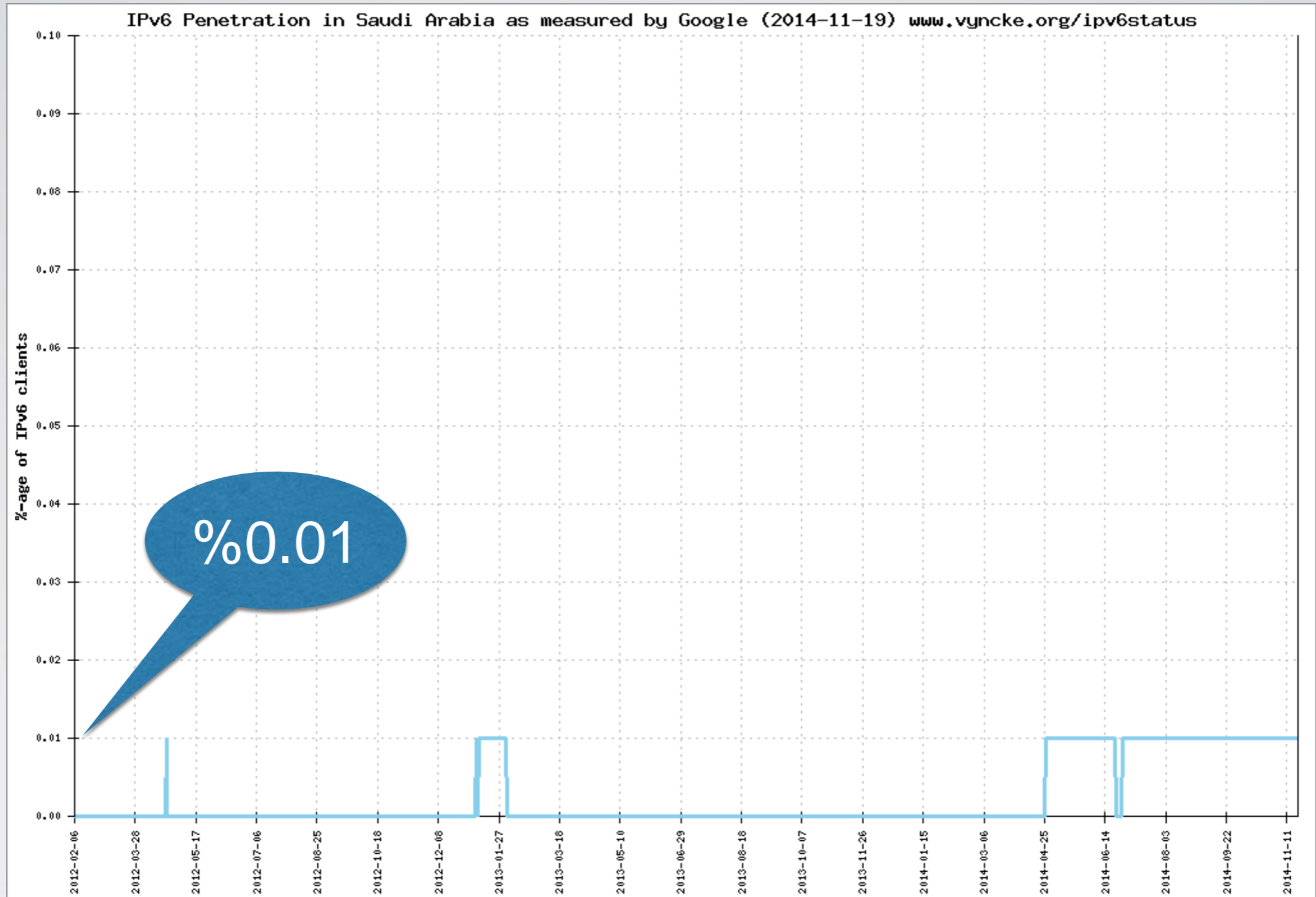
- Belgium was not first to deploy IPv6 on a large scale
 - Romania was the first
 - Switzerland was the second
- How did those happen?



VERY QUICKLY



SWITZERLAND WAS EVEN SHORTER



KSA IS TAKING A BIT LONGER...

WHAT HAPPENED HERE?

- This wasn't caused by a national event
- One or two large ISPs took their responsibility and deployed IPv6 to their customers

A LOT DEPENDS ON LARGE ISPs

- So a few large ISPs can make a huge difference
 - Let users communicate better (Xbox One...)
 - Make content (web sites, services, ...) over IPv6 possible
 - Enable new technologies (Internet of things...)
 - Make a country less dependent on IPv4 (bad investments, law enforcement...)

BOLD STATEMENT

- ISPs without IPv6 are hurting the whole country
- Their lack of IPv6 deployment blocks users, services, law enforcement and innovation

WHO IS KSA WAITING ON?



CONCLUSION

- “We have plenty of time”
- Do you still think so?
 - How much time will you need?
 - If you deploy a bit ahead of the curve you have time to learn, improve and test
 - If the world around you already has IPv6 then your own IPv6 deployment will be stressful and has to be perfect on day one

CONCLUSION

Start now!