

DNS Resolution in the EU

OCTO 032

Alain Durand

EURALO

21 Feb 2023



How to Measure DNS Resolver Usage?

- DNS resolver operators do not provide statistics
 - Need external measurement system
 - Beware of selection bias!
 - Need very large number of measurements of a daily basis
- Partnership with APNIC labs

List of Public Resolvers

114 DNS

AliDNS

Alternate DNS4

Baidu DNS

CleanBrowsing

Cloudflare (commonly
called 1.1.1.1)

Comodo Secure DNS

CNNIC SDNS

DNS PAI

DNSPod

DNS.Watch

Oracle Dyn

Free DNS

Freenom World

Google Public DNS

(commonly called 8.8.8.8)

Green Team DNS

Hurricane Electric DNS

Level 3

Neustar

One DNS

OpenDNS

Open NIC

puntCAT

Quad9

SafeDNS

TWNIC Quad 101

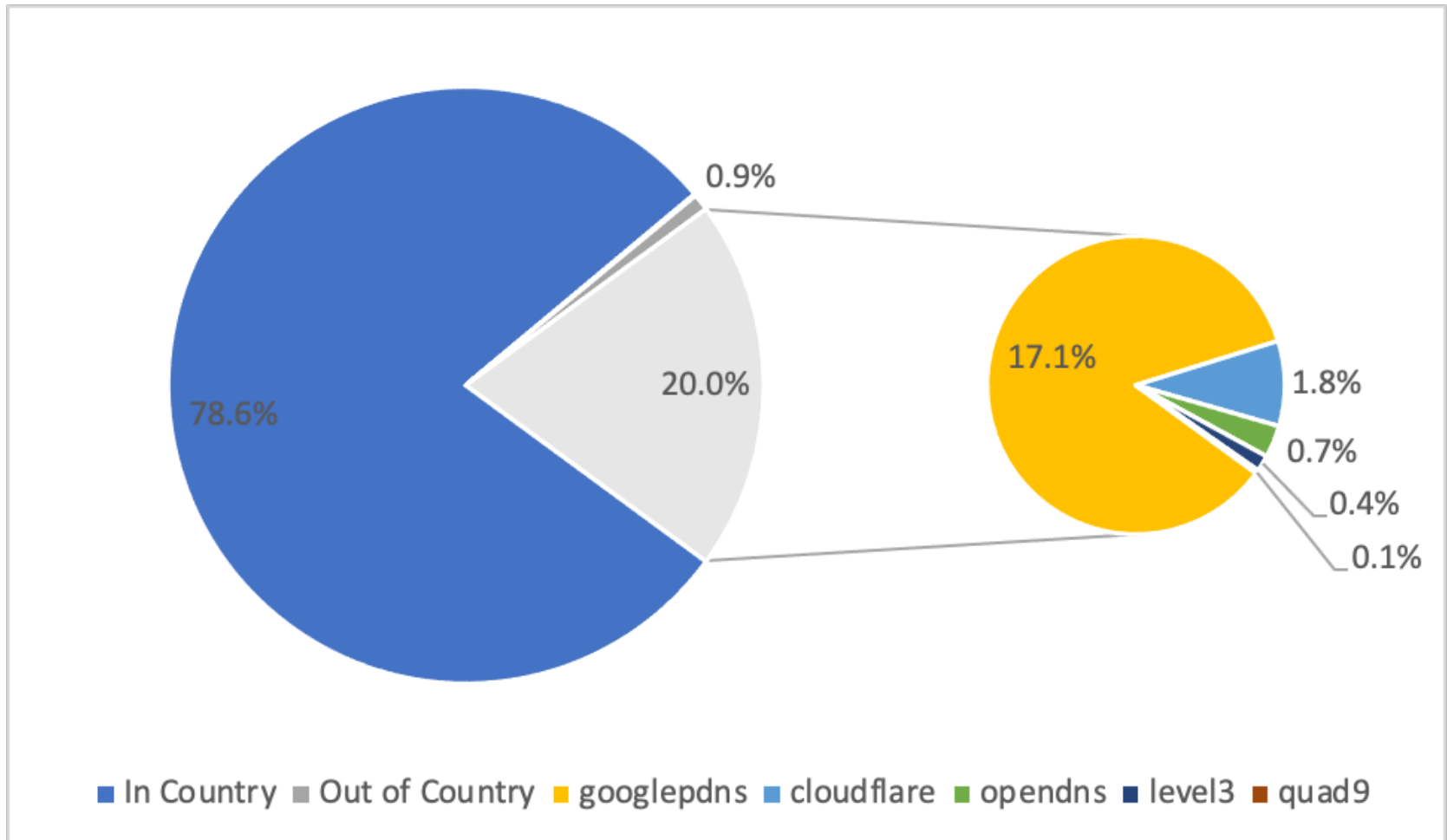
(101.101.101.101)

Uncensored DNS

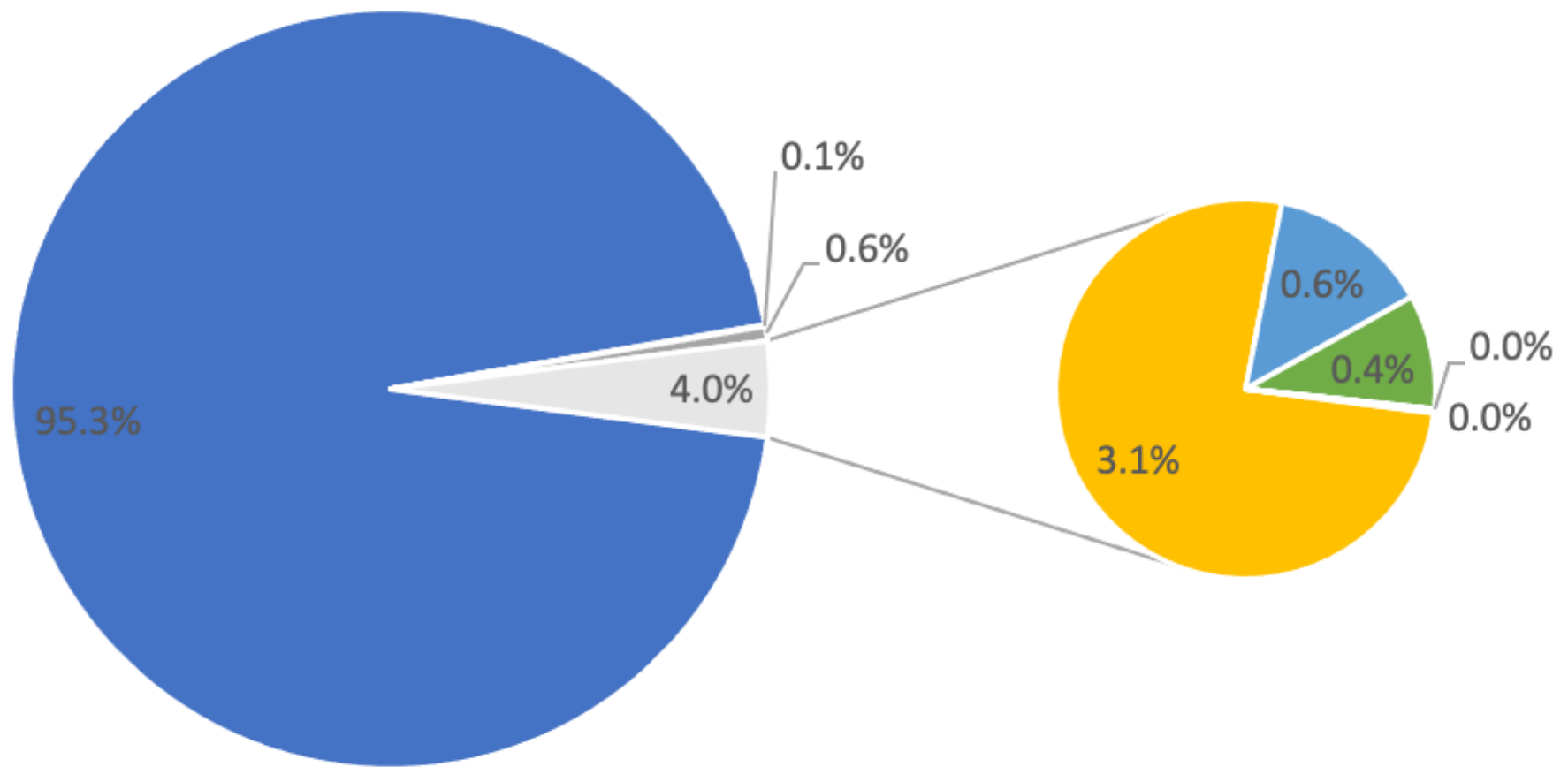
Verisign Open DNS

Yandex DNS

World View



Large Consumer ISP (B2C) View



■ In Country ■ In EU ■ Out EU ■ googlepdns ■ cloudflare ■ opendns ■ level3 ■ quad

Engage with ICANN



Thank You and Questions

Visit us at icann.org

Email: email



[@icann](https://twitter.com/icann)



facebook.com/icannorg



youtube.com/icannnews



flickr.com/icann



linkedin/company/icann



soundcloud/icann



instagram.com/icannorg