Measuring the Internet with Portolan and Isolario

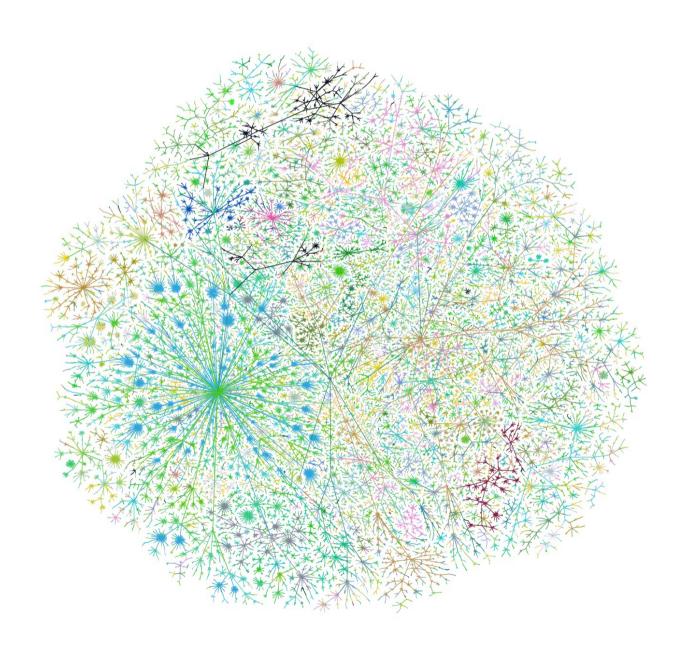
Valerio Luconi



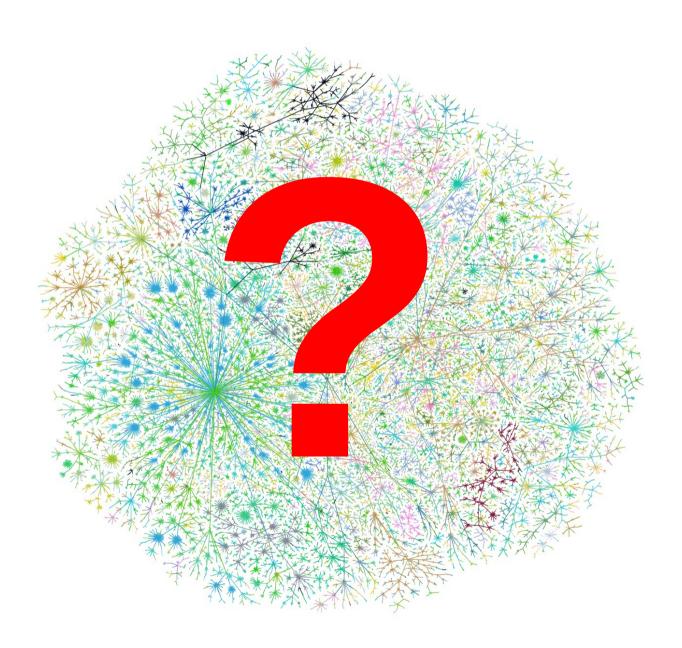


NNTools2015 – Torino, 19th January 2015

The Internet AS-level Graph

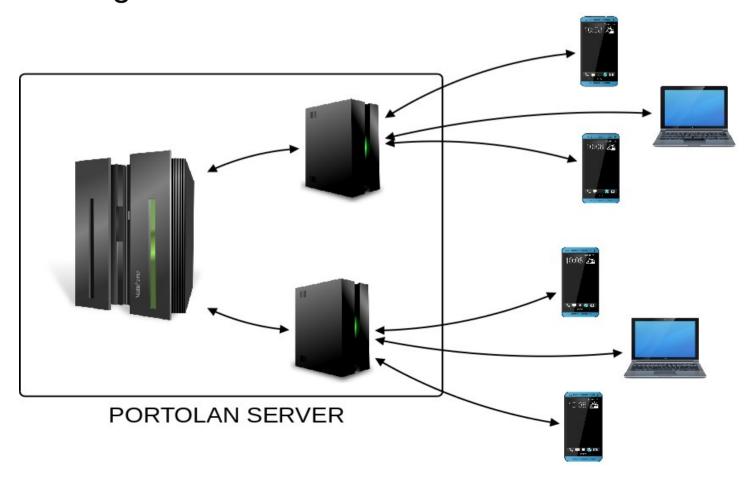


Incompleteness



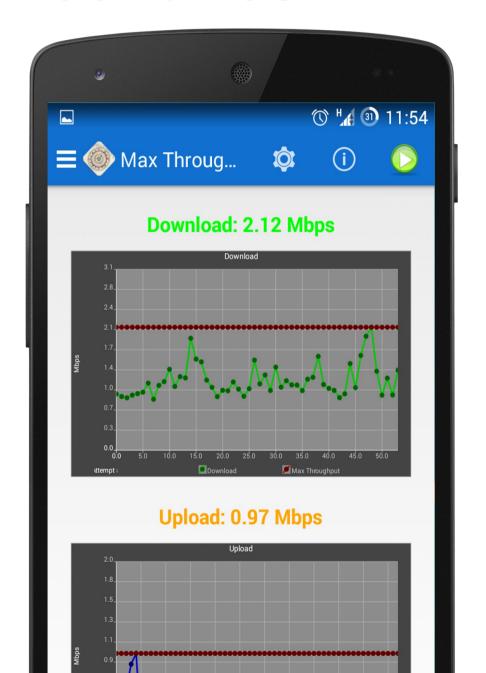
Portolan

- Active measurements (traceroute) project based on crowdsourcing
- Smartphone and desktop app
- Network diagnostic tools to motivate users



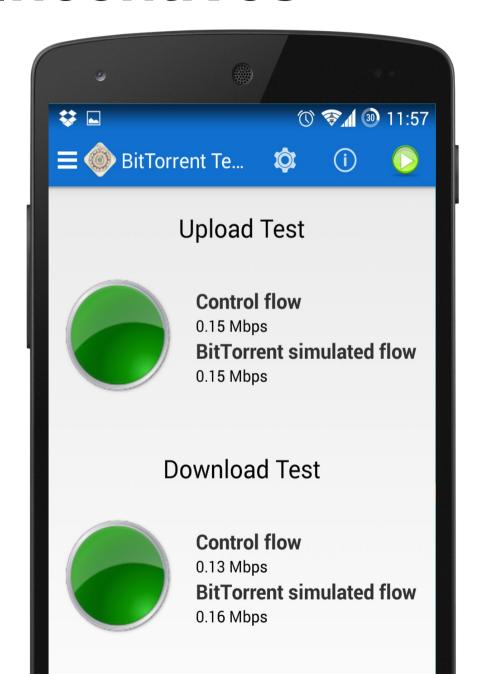
Portolan Incentives

- Max throughput
- BitTorrent test
- Port map
- Many others...



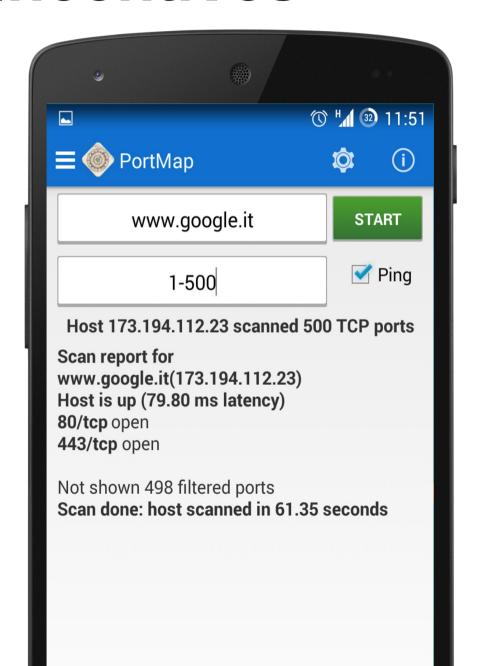
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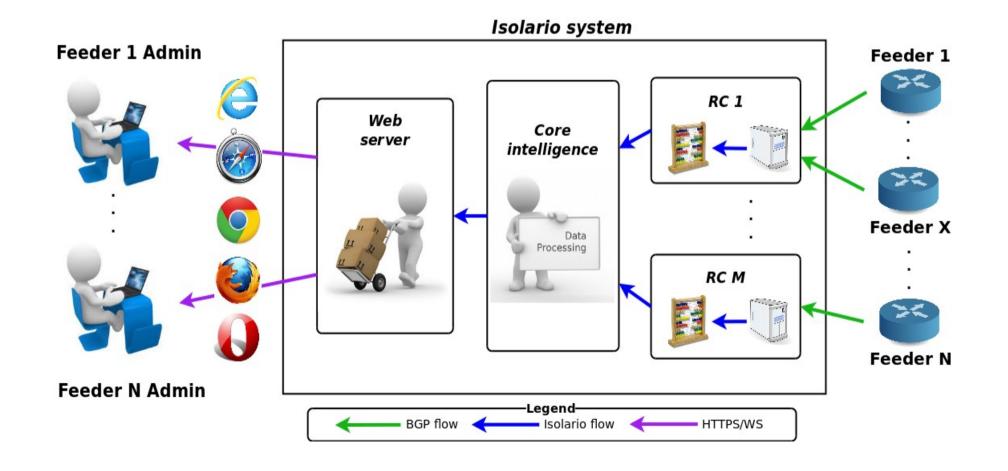
Portolan Installs



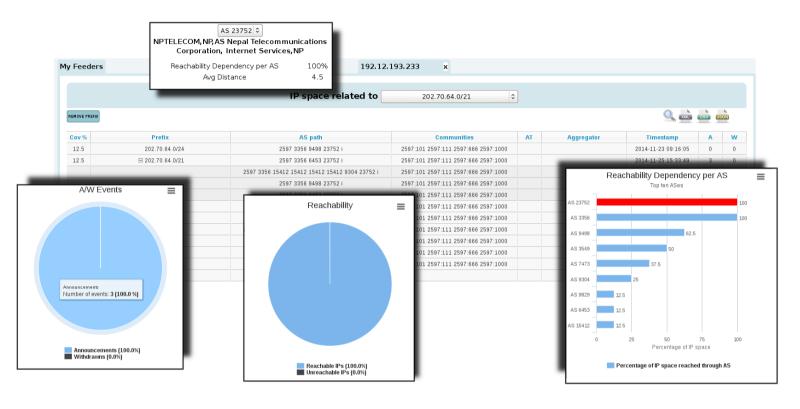
Currently ~300 active devices

Isolario

- Route collector project based on the do-ut-des principle
- Offers real-time monitoring services about the inter-domain routing in change of BGP session(s)



Isolario Services



- Routing Table Viewer, Flow Viewer, Real Time Flap Detector, My Subnet Reachability
- Available soon: Historic services, Alerting system, Mobile App, ...

Isolario current feeders

- 1) AS 2597 (Registry of ccTLD.it)
- 2) AS 6882 (Regione Toscana)
- 3) AS 12637 (Seeweb S.r.l.)
- 4) AS 12835 (Trentino Network)
- 5) AS 16004 (MIX S.r.l.)
- 6) AS 16076 (Infotech S.r.l.)
- 7) AS 20912 (Panservice)
- 8) AS 25309 (Consorzio TOP-IX)
- 9) AS 24796 (Consorzio NAMEX)
- 10) AS 31638 (Lepida S.p.A.)
- 11) AS 39120 (Convergenze S.p.A.)
- 12) AS 41497 (Qcom S.p.A.)
- 13) AS 197440 (Registry of ccTLD.it)
- 14) AS 197835 (Fusolab Onlus)









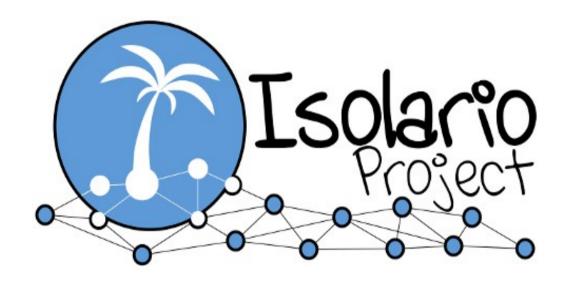




If you want to participate please contact us info@isolario.it

Thank you!





INFO & DATA

http://portolan.iet.unipi.it https://www.isolario.it