SIX

Slovenian Internet Exchange

Matjaž Straus Istenič, SIX/ARNES

Slovenia

- small country (2 mio people, 20 cm of sea shore for each one)

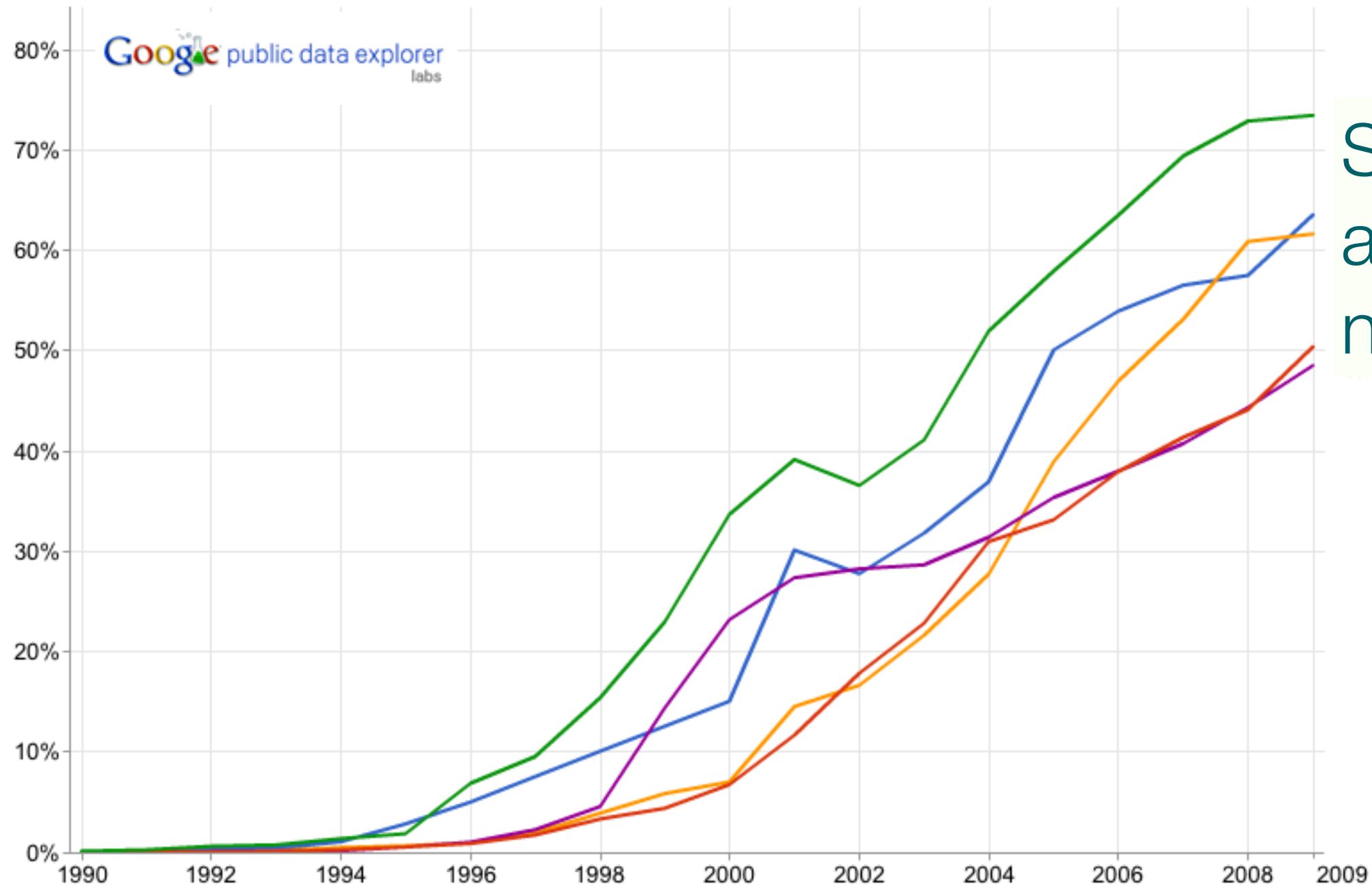- ... but we like high peaks

Mt. Triglav (2.864 m). Photo: K. Kunaver /STB

RIPE

Internet in Slovenia

- guess who?
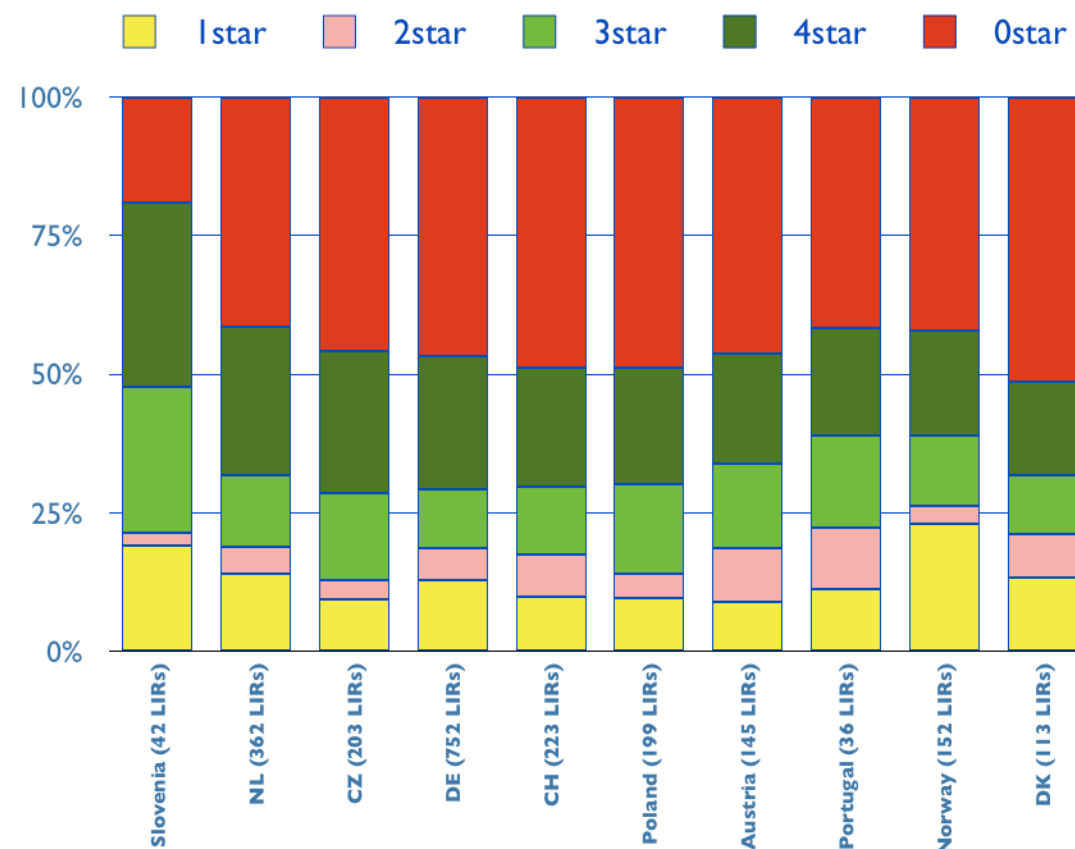
Internet users as percentage of population ⓘ ▼
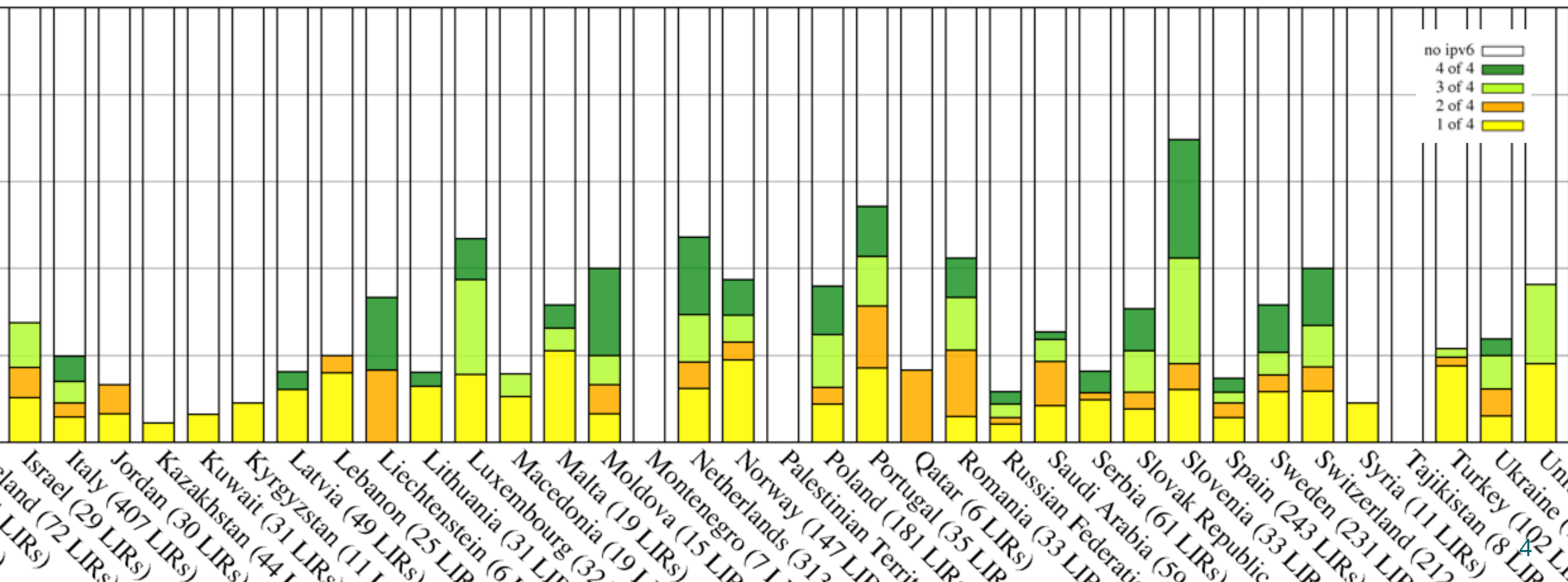

Slovenia and its neighbors

Slovenia

- ... and - we adore IPv6

IPv6 RIPEness: relative (28 April 2011)

IPv6 'ripeness'-rating of LIRs per country
(countries with 5+ LIRs)

4

We have tradition - not only in breweries

SIX - operated by ARNES since 1994

photo: http://www.pivo-lasko.si/

Prehistory

- started in february 1994

  ARNES and Slnet/EUnet (NIL d.o.o.)

  - ARNES PoP at Telekom premises

- 1995: two more mebers

- 1996: two more... (K2.net)

  - and the **big one**

    Telekom Slovenije (SiOL)

- 1997 ... 2002: alternatives - S-NET, Amis, Telemach, SoftNet, Netsi, Voljatel ...

- 2003: multiple locations, including LIX

- 2006: first IPv6 at SIX - Amis - ARNES

Now

20 members

50% of them with IPv6

15 Gb/s (total average)

http://www.arnes.si/en/infrastructure/six-internet-exchange/traffic-statistics.html

two locations

a single LAN

cisco 4900M

looking-glass router but no route servers, no portal, yet

2 birds in flight
(a portal after landing)

renumbering v4
(next wednesday at 4:00 in the morning)

QoS dilemma

Some members demand for QoS (mostly for VoIP)

- feedback from RIPE 62
  - QoS is a marketing term for "dropping packets"
  - a fantastic L1 solution was proposed:
    a patch cable - or - maybe, more of them ...

- L2 (preferred, but trunk ports needed) or L3?

- Are we allowed to control/drop the traffic?

RIPE