ITU Workshop on IPv6

IPv6 – Transition Challenges

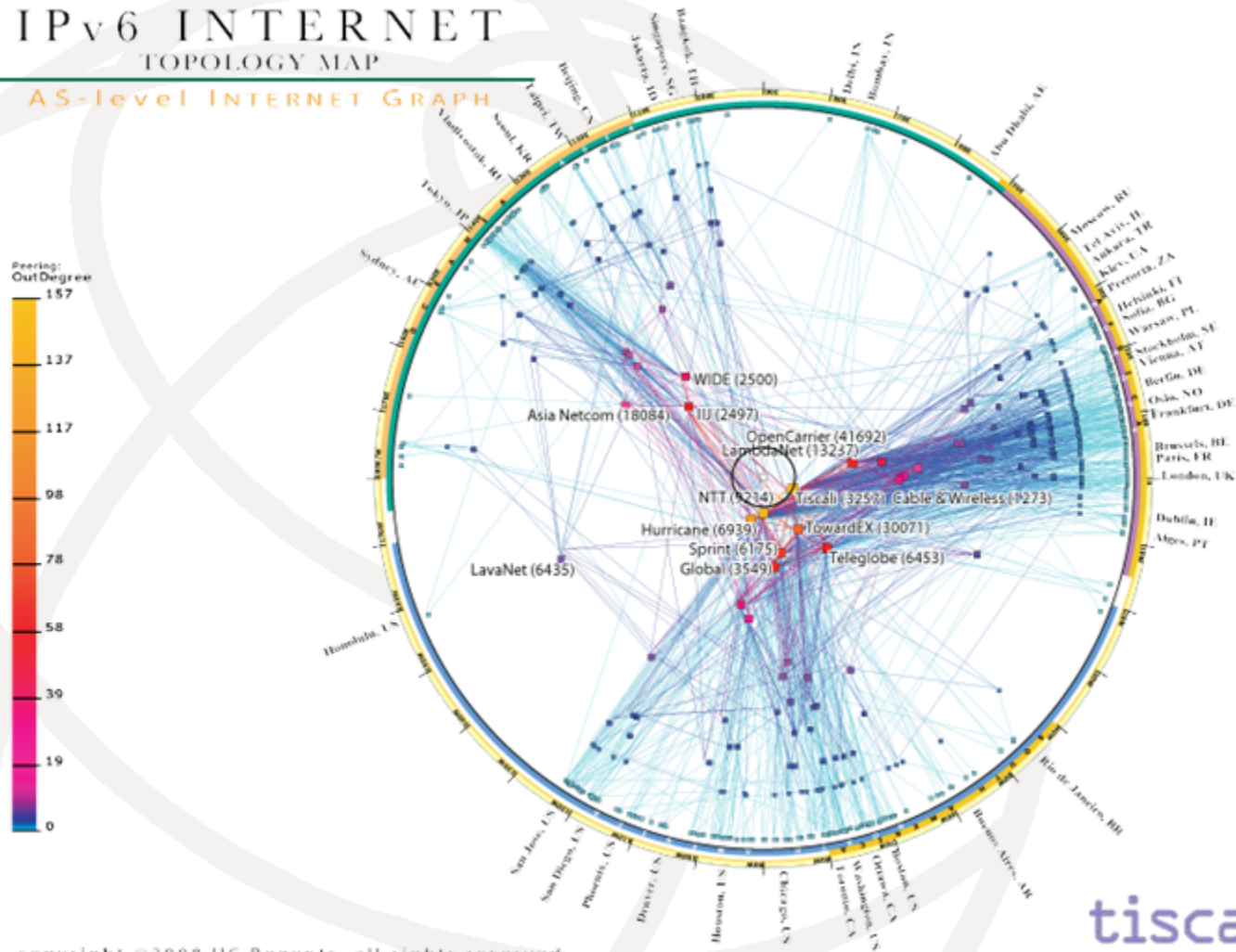**Akhil Verma,**

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International Network**

A view of today's IPv6 Internet

IPv6 INTERNET
TOPOLOGY MAP
AS-level INTERNET GRAPH

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Source: http://www.caida.org

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Some data we see on v6

- Today TINet carries Terabits of traffic on its network

- Less than the 0.1% of this traffic is IPv6

- About 10% of our customers have a dual-stack IPv6 connection

- Only two customers, both European academic networks used IPv6 as a key decision making criteria

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Challenges on Transition

- Easy for a wholesale supplier like us

- Our customer (Telco's, ISPs etc) faced bigger challenges:
  - End user equipment that does not support IPv6 (e.g. ADSL modems)

- IPv6 is intimidating

Other key Issues

- No interoperability with IPv4

- No real IPv6 content

- Lack of consumer push

- Has IPv4 stock pile really exhausted ??

- The biggest one … the cost or better, the overall business case

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Where is the Demand for v6

- Research networks leading the way

- Corporate customers: no clear business case

- Most Telco's and ISP's still trying to figure out the killer apps

- End users don't feel the real need

- Unlike the Y2K hype

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What's next

- Transition needs to be planned now
- Step zero:
  - don't buy new gear that can't do IPv6
- Step Last:
  - in 2020 everything will be IPv6, IPv4 is gone
- Between those two
  - go dual-stack
  - native in the core
  - Parallel v4 and v6 networks

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Conclusions

- Most Telcos and ISPs already behind schedule

- Need for cost efficient IPv6 capable modems

- Besides the ticking counter more education needed

- IPv6 ready program for service providers

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What's TINet doing about IPv6

- Supporting long term planning:
  - Native IPv6 at no extra cost to its customers

  - Offering free IPv6 native transit to non-profit organizations and Educational institutes

  - Sharing our IPv6 experience with customers

  - Supporting evangelism of IPv6

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Thank You

Suggestions or comments

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