ITU Perspective

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ITU Mandate [1/3]

RESOLUTION 180 (REV. BUSAN, 2014) - **Facilitating the transition from IPv4 to IPv6**

"resolves to

1 to explore ways and means for greater collaboration and coordination between ITU and relevant organizations involved in the development of IP-based networks and the future Internet, through cooperation agreements, as appropriate, in order to increase the role of ITU in Internet governance so as to ensure maximum benefits to the global community;

2 to step up the exchange of experiences and information with all stakeholders regarding the adoption of IPv6, with the aim of creating opportunities for collaborative efforts, and to ensure that feedback exists to enrich efforts to support the transition to IPv6;

ITU Mandate [2/3]

RESOLUTION 180 (REV. BUSAN, 2014) - **Facilitating the transition from IPv4 to IPv6**

"resolves to

3 to collaborate closely with the relevant international recognized partners, including the Internet community (e.g. regional Internet registries (RIRs), the Internet Engineering Task Force (IETF) and others), in order to encourage the deployment of IPv6 by raising awareness and through capacity building;

4 to support those Member States which, in accordance with the existing allocation policies, require assistance in the management and allocation of IPv6 resources, pursuant to relevant resolutions;

ITU Mandate [3/3]

RESOLUTION 180 (REV. BUSAN, 2014) - **Facilitating the transition from IPv4 to IPv6**

"resolves to

5 to continue the studies of IP address allocation, both for IPv4 addresses and for IPv6 addresses, in cooperation with other relevant stakeholders, based on their respective roles, "

Regional Initiatives for Europe Region

- 5 initiatives decided at WTDC-14
- New set of initiative to be decided soon at WTDC-17

EUR2: Development of broadband access and adoption of broadband

Objective: To assist administrations in every aspect of the practical implementation and development of high-speed networks – including broadband roll out plans, infrastructure sharing with energy sector

Current umbrella initiative for in-country assistance for IPv6 transition

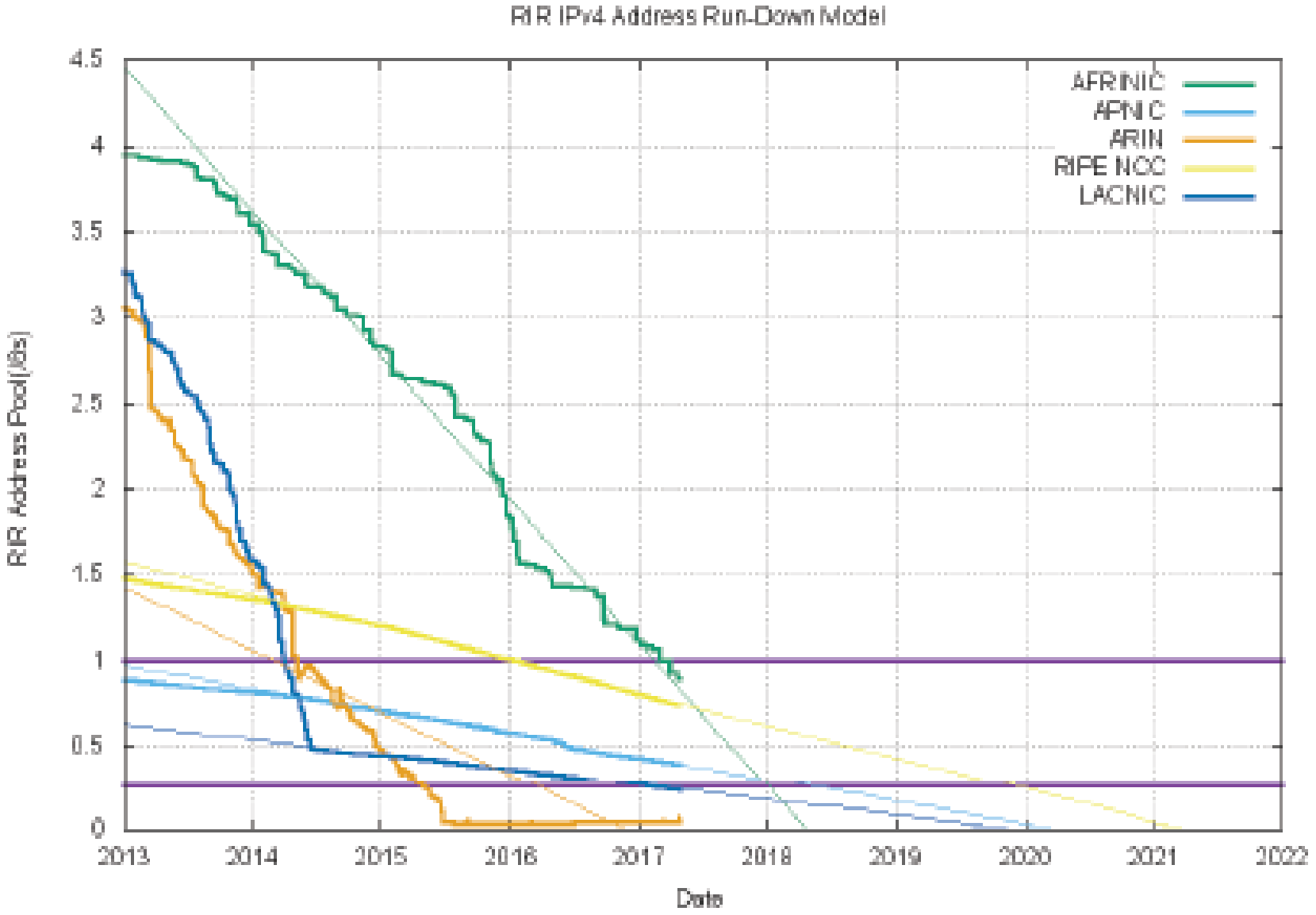
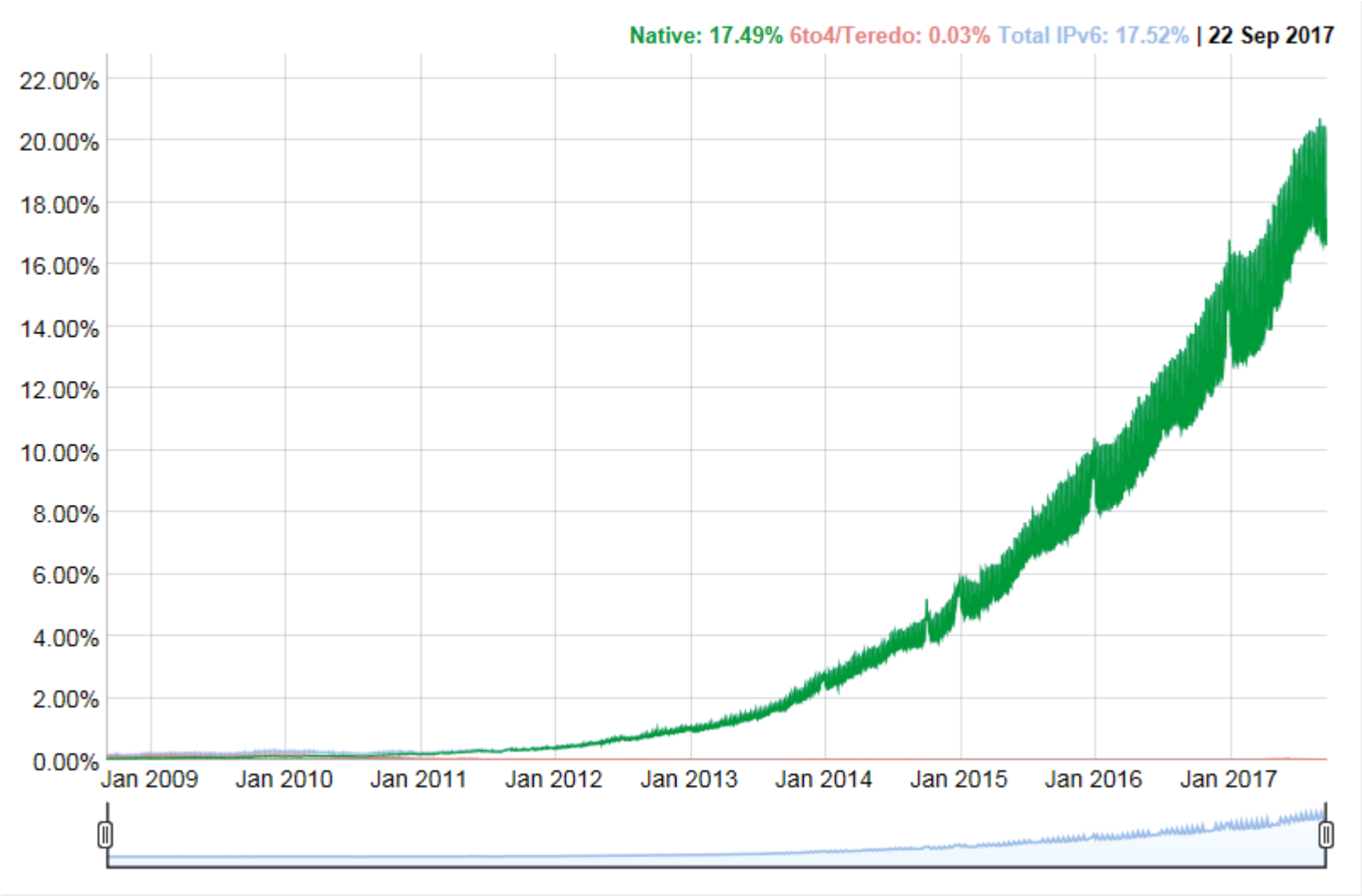


Figure 1: RIR IPv4 address depletion (Credit: Geoff Huston, https://ipv4.potaroo.net/)

IPv6 Adoption



Source : Google

IPv6 Adoption

Source : Google

What to do ?

Understand the issue & the reason to make the transition

Connect with

- RIRs
- National Regulators that have done the transition
- Local Stakeholders

Develop national roadmap

Build Capacity

Deploy & address challenges

Monitor Deployment & its Impact

Country Considerations

- Policy, legislation and regulation
- Institution, stakeholder engagement and coordination
- Technology (hardware and software), standards, type approval, infrastructure, and interoperability
- Security
- Assessment, pilot, testing and deployment
- Knowledge, awareness and skills
- Procurement and financial

Today – Discussion with..

Agreement on

- ✓ Challenges / Opportunities identification
- ✓ Structured national approach
- ✓ Stakeholders Identification & Involvement
- ✓ Actions by specific entities
- ✓ Timeline
- ✓ Deliverables
- ✓ Cost ??