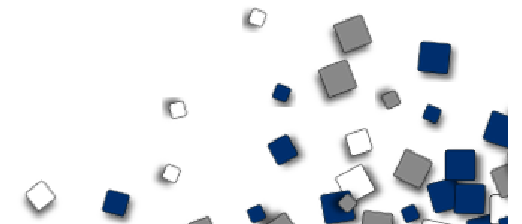




IPv6 Operations and Transitional Issues

Moderator: Danny McPherson

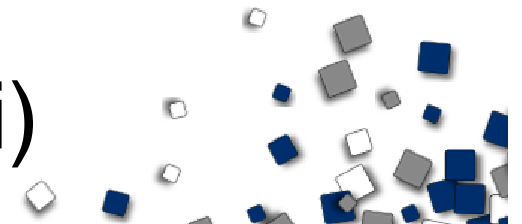




Panelists

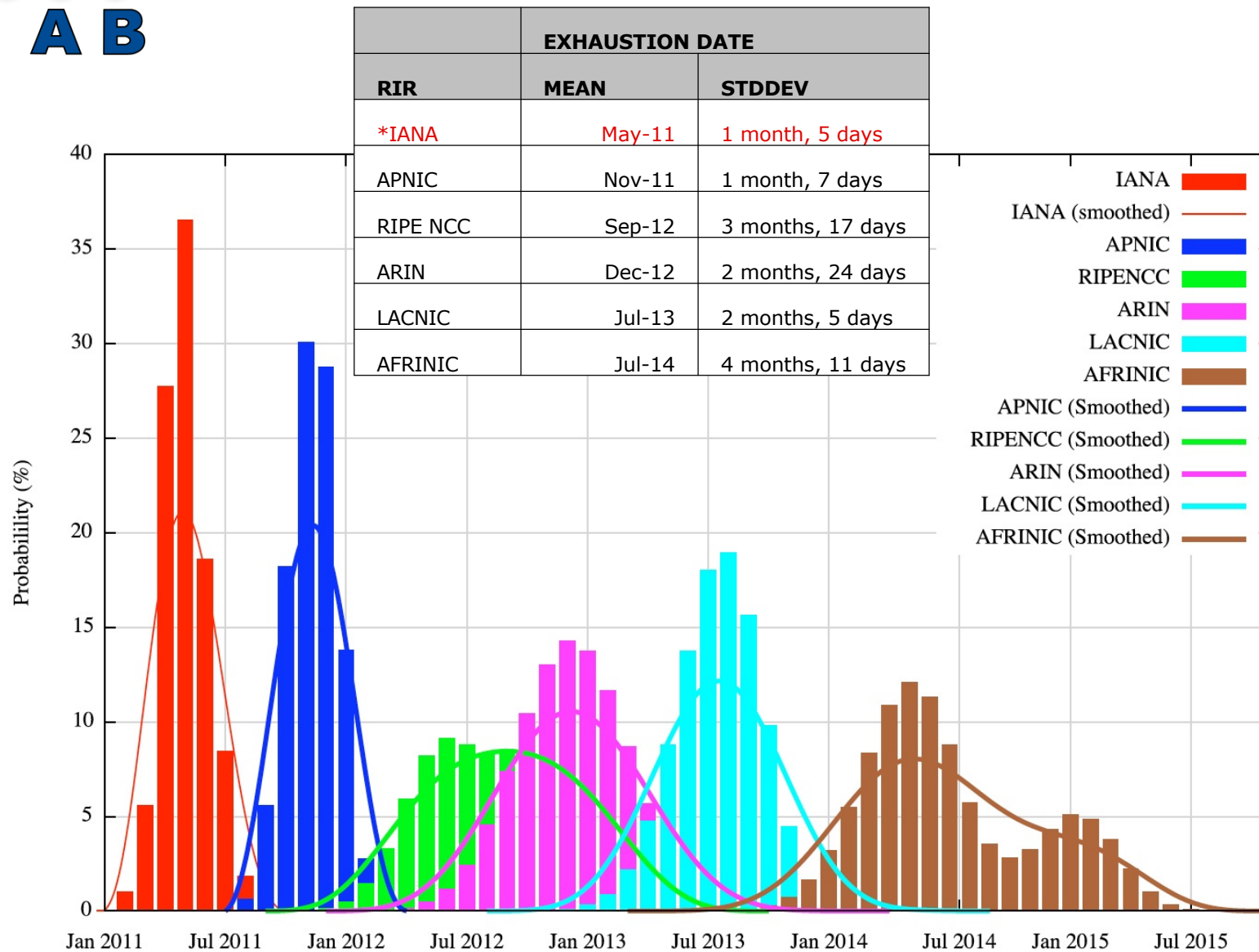
- John Brzozowski (Comcast)
- Matsuzaki Yoshinobu (IIJ)
- Ms. Huiling Zhao (China Telecom BRI)
- Bill Huang (China Mobile)
- Xiaodong Lee (CNNIC)
- Jari Arko (Ericson)

- Bonus track: Tina Tsou (Huawei)

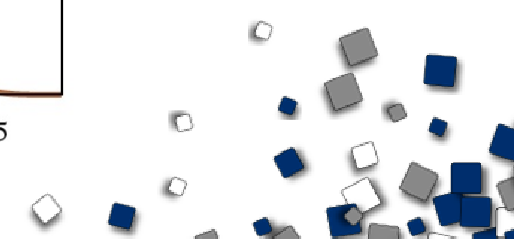




Numbers Exhaustion Probability v. Date



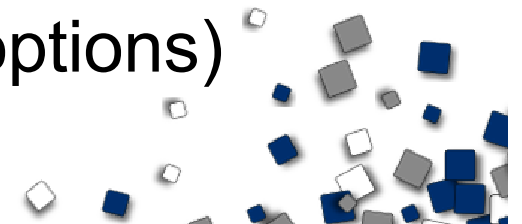
Source: Geoff Huston (APNIC)





IPv6 Related Work in the IETF

- Basics: the specifications for IPv6 – Done!
- Maintenance – 6MAN, V6OPS
 - Bug fixes, minor extensions, operational guidance
 - Very similar to what we do with IPv4
- Addressing new deployment requirements
 - Ongoing!
- New features
 - Usually IP-version agnostic
 - (There are exceptions such as ROLL options)
 - Sometimes related to feature parity





Deployment & Transition Work

- Shifting focus from basics to co-existence and specific deployment scenarios
- But most of the deployment effort is practical – vendors, providers, planning, configuration
- Past and current IETF work
 - Dual stack (RFC 4213) still typical deployment model
 - Tunnels still needed (mesh, 6rd, ... – SOFTWARE)
 - Keeping IPv4 alive while at the same time enabling IPv6-only provider networks (ds-lite – SOFTWARE)_
 - Enabling networks to use IPv6 before all other networks use it as well (nat64 – BEHAVE)
 - Deployment guidelines (V6OPS, operator forums, ...)_

