

The impact of IPv6 on the Internet, the Web, IoT, Cloud Computing, Big Data, 4/5/6G and Blockchain.

The Internet has shown its incredible potential as a unique economic enabler. The ability to build networks between people, groups, data, and things – the all-embracing Internet of the future -- will, in the next 10 years, generate a value exceeding USD 14.4 trillion, touching all sectors of the economy. A world linked together by the “Internet of Everything” will turn raw information into knowledge, creativity into practical innovation, and facts into greater relevance than ever before, providing richer experiences and a more sustainable global economy.

We are not, however, there quite yet. Currently, 99.4 per cent of physical objects that may one day be part of the “Internet of Everything” are still unconnected. Moreover, large areas of the world remain unserved or underserved by Internet connections. Meanwhile, recent technological developments in cloud computing, wireless networks, Big Data, high-performance computing, processing power, sensor miniaturization, and many others, translate into a digital data universe that is increasing exponentially. The ability to economically extract value from this universe will offer unprecedented opportunities for welcome progress – if there is sufficient ability to connect to the growing Internet.

One of the key technologies that can enable this progress is the new Internet Protocol version 6 (IPv6). This new iteration of the IP protocol stands poised to push the boundaries of the Internet beyond what is now possible with the current version, IPv4. Moreover, IPv4 addresses are quite simply running out. IPv6 will allow users to get the most value from the “Internet of Everything,” and it will enable greater connection of underserved communities and countries. Yet today, there are significant market, business and technical challenges in making the transition from IPv4 to IPv6. The world stands poised for a great leap over those challenges and toward the possibilities of an unbounded new Internet.

This talk will address the impact of IPv6 on the Internet, the Web, IoT, Cloud Computing, Big Data, 4/5/6G and Blockchain.