Maximizing Opportunities, Addressing Fears on Big Data

Leong Keng Thai
Director General (Telecoms & Post),
InfoComm Development Authority of Singapore (IDA)
24 August 2015



What is big data?





Trends in Big data



Real time data capture



Cloud-based processing



Volume of data generated is set to increase



Deep learning capabilities



Smart Nation as a platform to leverage big data in Singapore





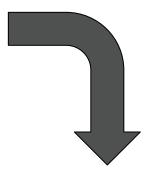
Smart Nation- Data availability





MyConnectionSG Mobile App





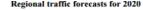


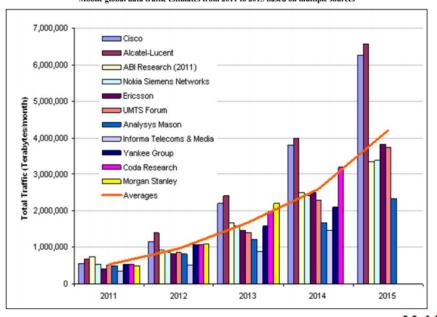


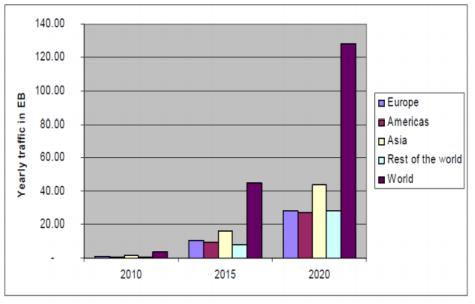


Greater Demand for Mobile Spectrum - Infocomm Usage & Accessibility on the Rise









Mobile forecasts (including M2M – dates refer to end of corresponding year)

Global Base (million)	2010	2015	2020
Europe	1 033	1 222	1 427
Americas	915	1 166	1 437
Asia	2 579	3 825	4 957
Rest of the world	801	1 276	1 863
World	5 328	7 490	9 684

Source: International Telecommunication Union



Multi-pronged Approach to Address the Demand for Mobile Spectrum

Timely Spectrum Allocation

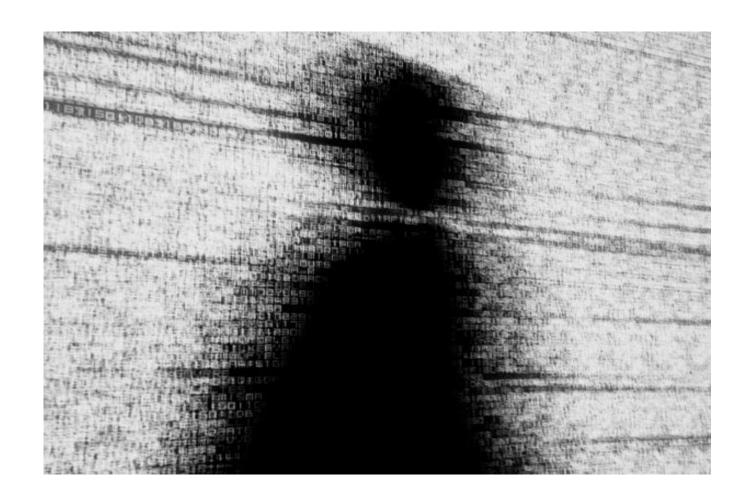
Heterogeneous Networks

TV White Space

Optimising Spectrum Usage



Addressing fears on big data





Big Data Protection



Data Governance Frameworks





New Challenges for Telecom Regulators

New service providers



- The industry is moving beyond traditional service providers. Over-the-top service providers e.g. WhatsApp and Internet giants e.g. Google have revolutionised the market
- IDA needs to consider potential issues such as net neutrality & zero rating

New technological developments



 There are also new technological developments such as Machine-to-Machine and Internet-of-Things, Blockchain, etc.



Thank you

