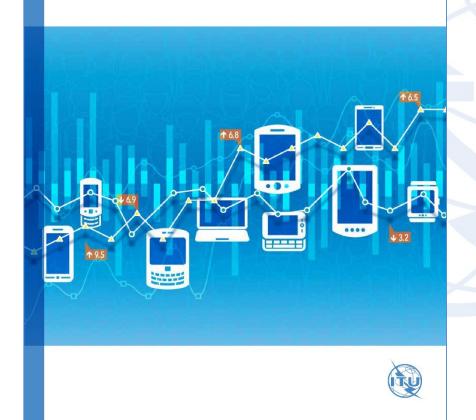
Measuring the Information Society Report 2017



Chapter 4: Emerging ICT trends

15 November 2017

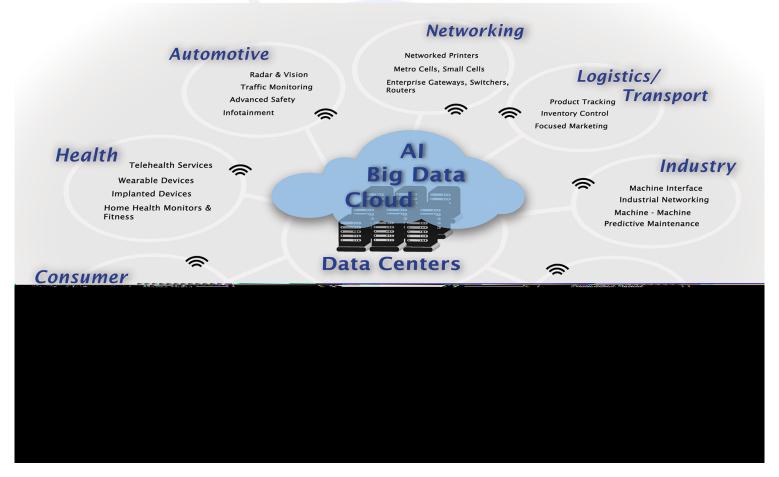
Lourdes O. Montenegro Economist, ITU

Three points ahead

- Exponential development of advanced ICTs: AI, big data, cloud and IoT will have massive consequences.
- Physical infrastructure, connectivity services, and skills are needed to harness power of advanced ICTs.
- The time for metrics is now.

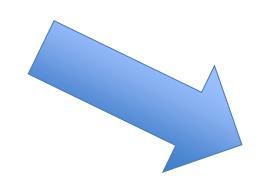


The emerging ICT ecosystem





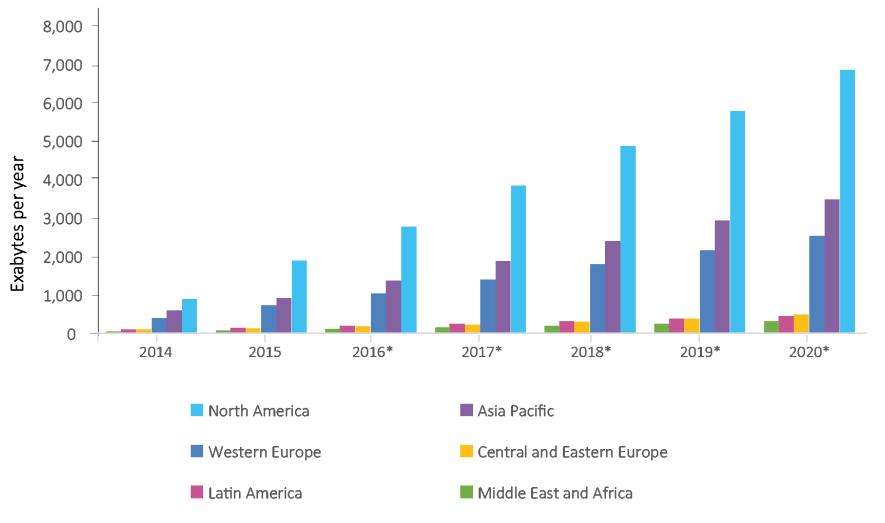
Exponential development



Time

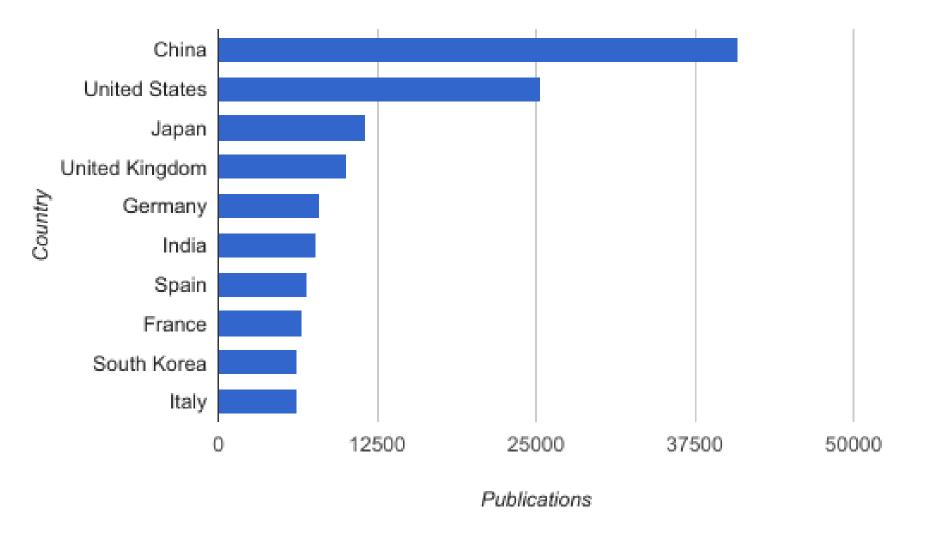


Cloud traffic in different regions



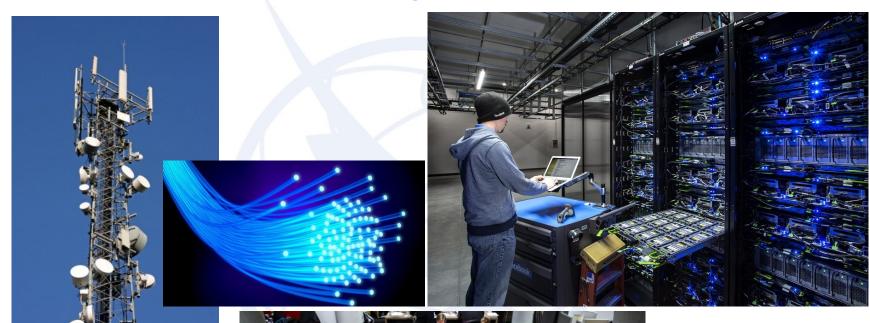


Publications in Al research, 2011 to 2015





Physical infrastructure, connectivity services and skills are needed to unleash power of advanced ICTs





Role for public policy

- Supportive public policies
 - Facilitation of entrepreneurship and innovation
 - Sufficient availability of licensed and unlicensed spectrum
 - Information security and privacy
 - Education policy in general



Toward reliable metrics

- Current data collection largely left to entrepreneurial initiative
 - No agreed conventions on data definitions and measurement
 - Available data often behind paywalls and inaccessible to many users
- Future technological opportunities
 - Harvesting of data directly form the digital infrastructure and services
 - Networks or sensors and devices could generate trusted database
- What is the most effective role for the public sector?
 - Facilitator of data collection (e.g. open data)
 - Curator and archiver of data and transparent algorithms
- Need to develop internationally harmonized indicators on advanced ICTs



