



# Creating a Digital Single Market Bringing down barriers to unlock online opportunities

STATE  
OF  
THE  
UNION  
2016



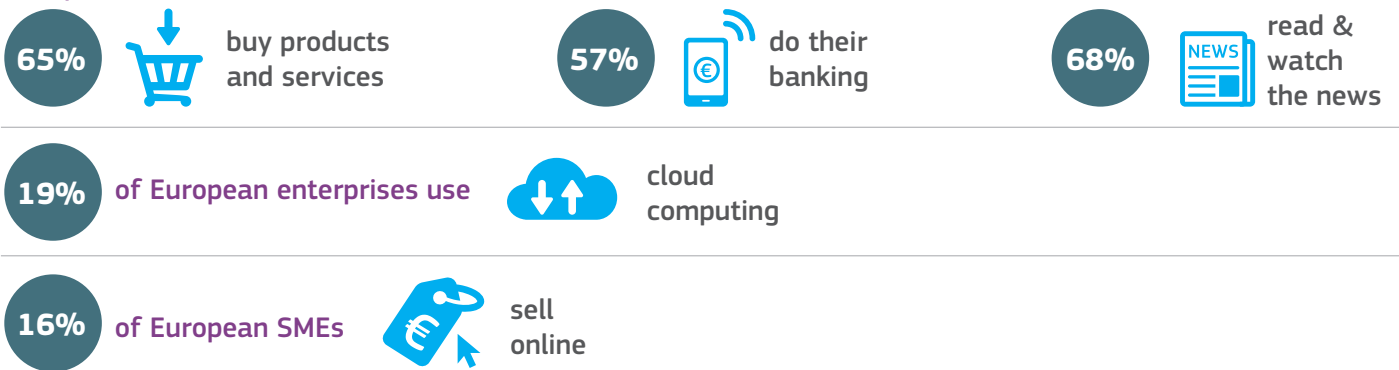
## FASTER AND HIGHER QUALITY CONNECTIVITY FOR ALL EUROPEANS

The European Commission proposes to create a gigabit society by 2025. We encourage investment in high capacity networks with a new regulatory framework, the European Electronic Communications Code, and a 5G Action Plan.

### WHAT IS THE SITUATION TODAY?

The internet has transformed our society and our economy and made people's lives easier

Europeans use the internet to

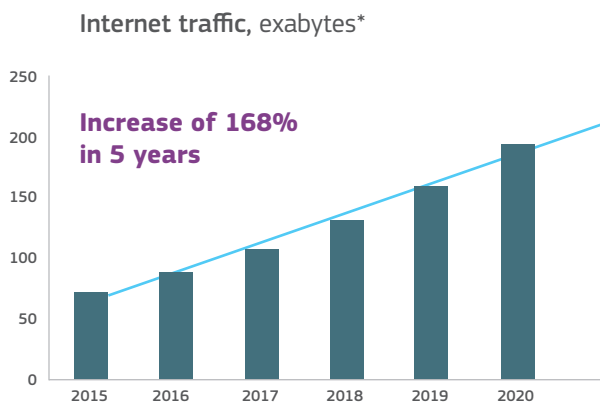


EU telecoms rules have brought basic broadband to all Europeans at low prices

Price for 12-30 Mbps broadband has dropped by **57%** since 2007

At the same time, internet traffic continues to grow at an unprecedented rate

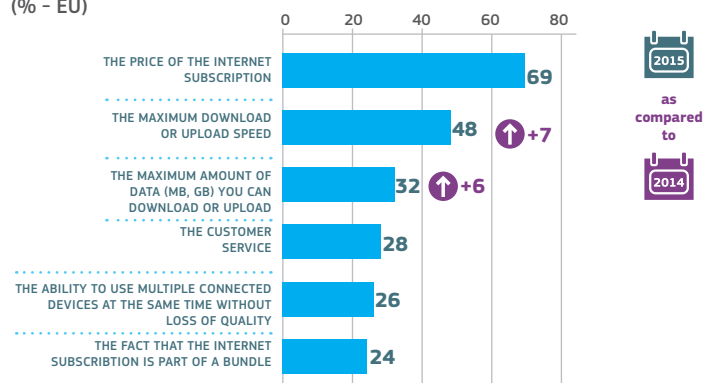
### Global mobile internet & internet traffic 2015- 2020



\* 1 ExaByte = 10<sup>12</sup> MegaBytes – Source: CISCO





In today's world it's no longer about whether you are online or not, but whether you have a good quality connection at a good price

When subscribing to an Internet connection what are the main factors you consider Firstly? And then? (% - EU)



Source: Special Eurobarometer 438 on eCommunications

## WITH BETTER CONNECTIVITY, WHAT WILL WE BE ABLE TO DO IN 2025?

  <b>TIME TO DOWNLOAD</b>	 (typical European legacy networks – 20 Mbps)	 (Fiber to the Home networks – 0.4 Gbps)
	CT scan	14 minutes
Virtual reality game	34 minutes	102 seconds
Top smartphone storage	3.6 hours	11 minutes
4K movie	11 hours	33 minutes
Medium sized corporate server restore	28 days	33 hours
Human genome	33 days	39 hours

Thousands of new services and features will be possible once EU targets are met and very high capacity networks are widely available. For example:

- Hundreds of machines in a factory cooperating in real-time
- Doctors conducting specialised surgeries remotely
- Cities adapting energy consumption or traffic lights based on real-time needs
- Students studying at various universities throughout Europe at the same time