

6.033 Spring 2018

Lecture #26

Policy vs. Mechanism

net neutrality

2015 FCC ruling prohibits three things:

1. blocking

ISPs can't block access to legal content, applications, services, or non-harmful devices

2. throttling

ISPs can't impair or degrade traffic on the basis of content, applications, services, or non-harmful devices

3. paid prioritization

ISPs cannot favorite some lawful traffic over other lawful traffic in exchange for "consideration of any kind"

ISPs *can* regulate the flow of traffic to and from **directly connected** networks

(Comcast can charge you more money for a faster connection to their network)

the **GDPR** is a measure to protect users from data breaches.
it's based around many principles, including

1. consent

organizations must request consent in clear and plain language, and it must be easy to withdraw consent

2. access

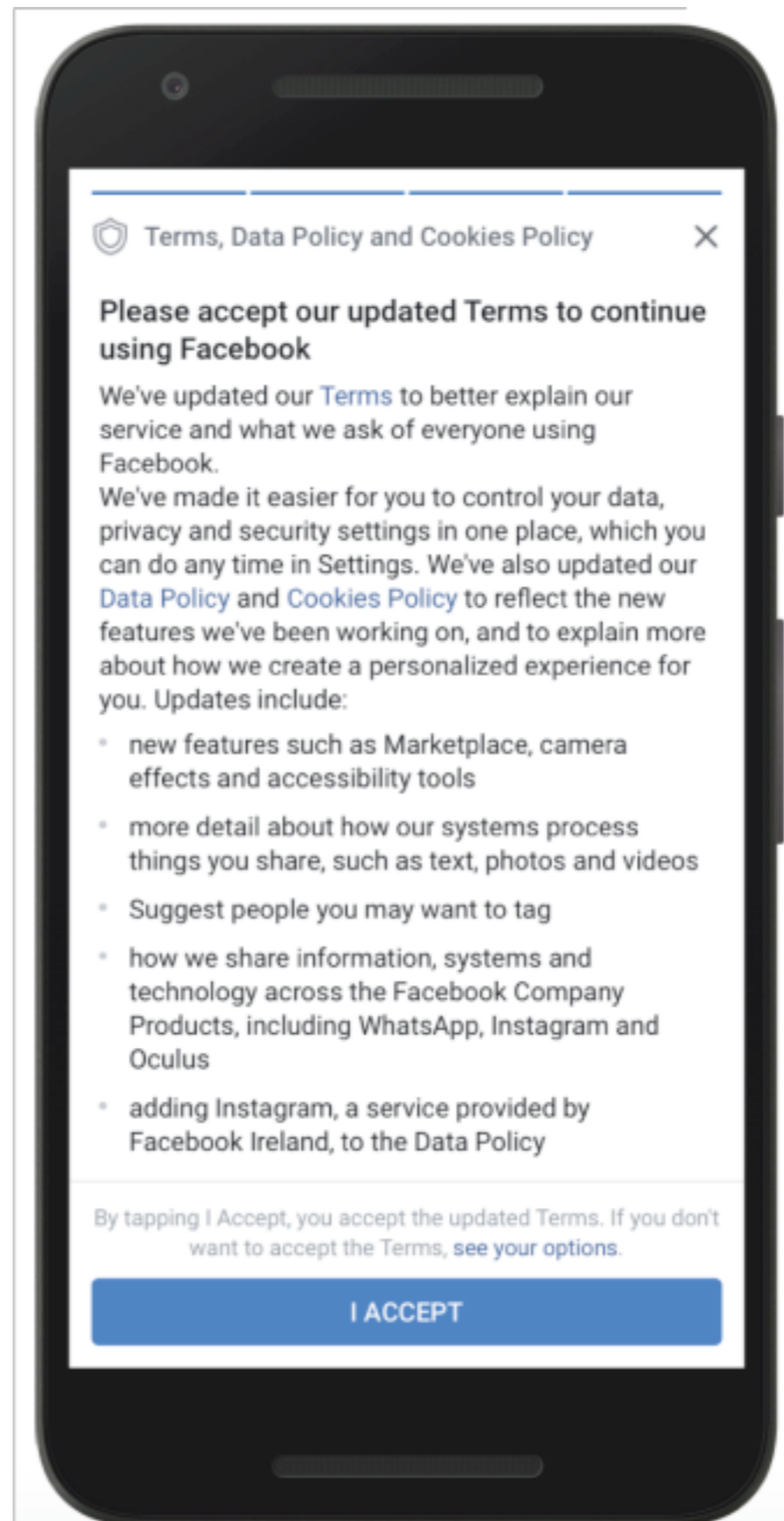
organizations must allow subjects to access their data, transfer it to other services, and erase it

3. minimization

organizations should only keep the data that is absolutely necessary

these regulations apply to companies that are processing the data of EU subjects, *regardless* of whether the company is based in the EU

overall, the regulations advocate for **privacy by design**



where to go from here

6.828 - Operating Systems

6.829 - Computer Networks

6.830/6.814 - Database Systems

6.858 - Computer Systems Security

6.857 - Network and Computer Security

6.875 - Cryptography and Cryptanalysis

6.892/MAS.S62 - Cryptocurrencies

6.824 - Distributed Systems ←

6.826 - Principles of Computer Systems

6.852 - Distributed Algorithms

6.903 - Intellectual Property

6.904 - Ethics for Engineers

more systems



more math

the most natural
follow-up to 6.033