

Training 7: Digitalization

Music and movies streaming



When do I infringe copyright?



If there is a website where I can watch an unreleased movie, can I watch it?

2

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No, because when streaming videos, copies are created on my computer, which is comparable to an illegal download.

В

Yes and no. Simply streaming is actually always allowed, but it also creates copies on the hard drive, which is legally unclear!

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No, watching a stream is always allowed, this has nothing to do with copyright.

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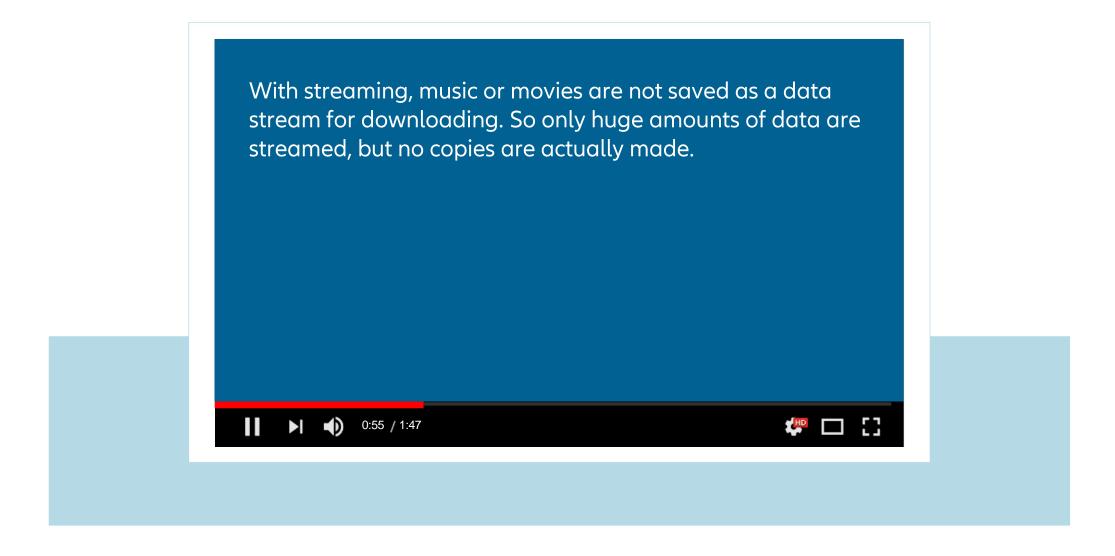
What is the purpose of copyright?

In Germany, there is a copyright law, which protects the rights to a self-created work. The author can decide how his work (picture, video, book, etc.) is used, e.g., whether it should be published or reproduced.

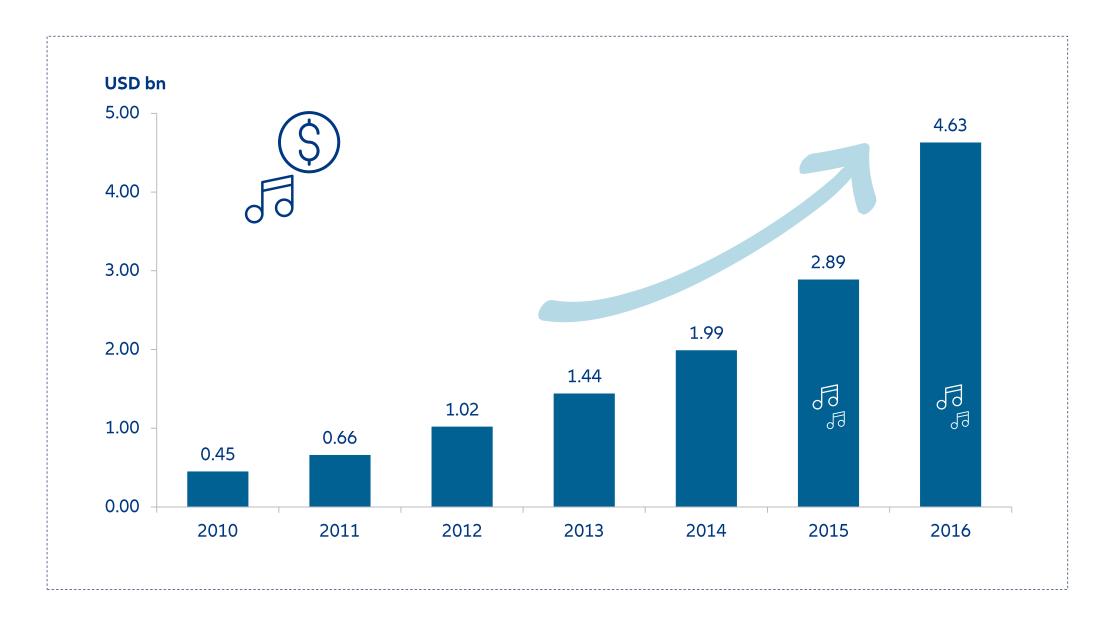


What is streaming?

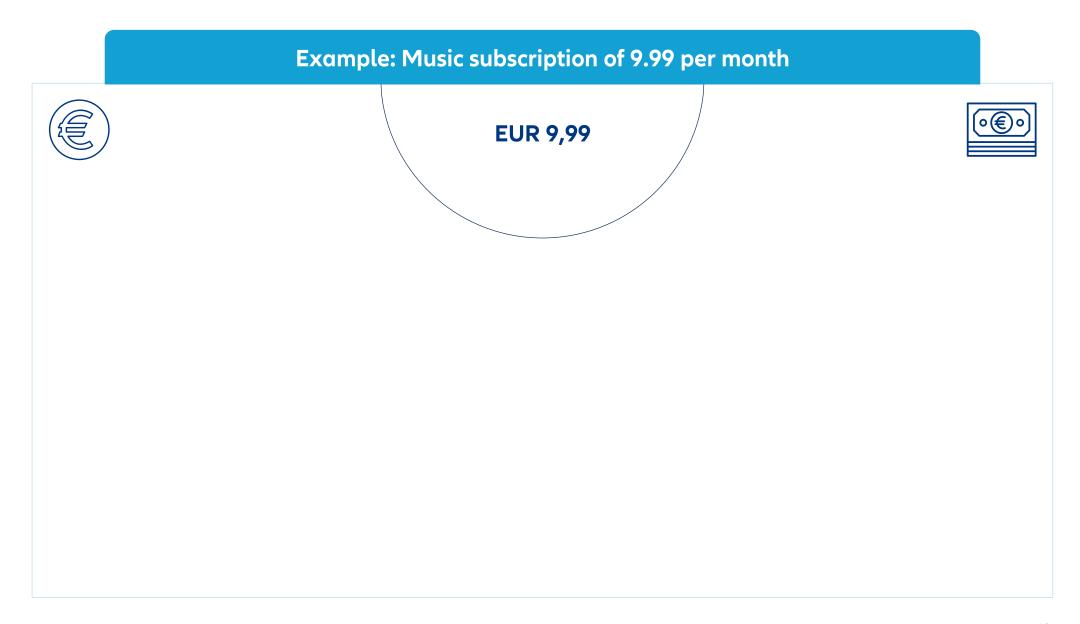
What is streaming?



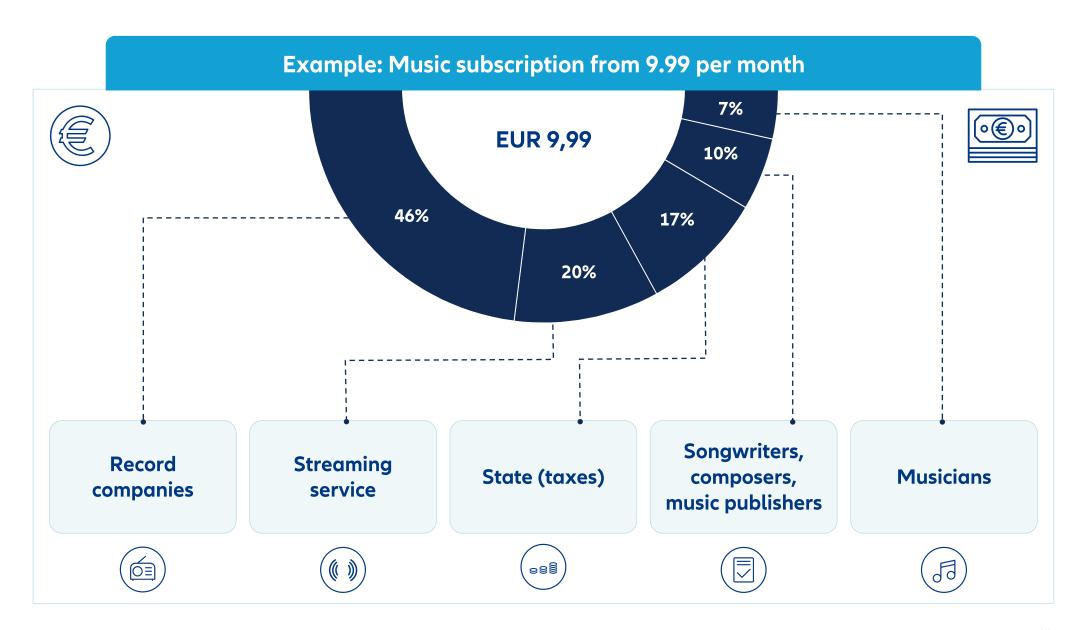
Music streaming is booming

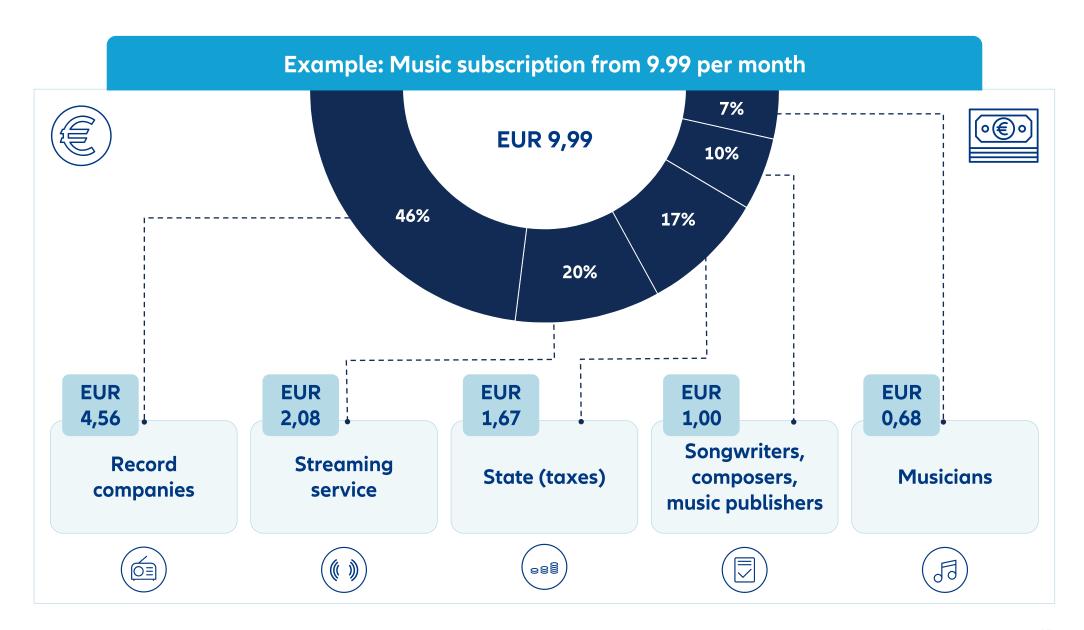


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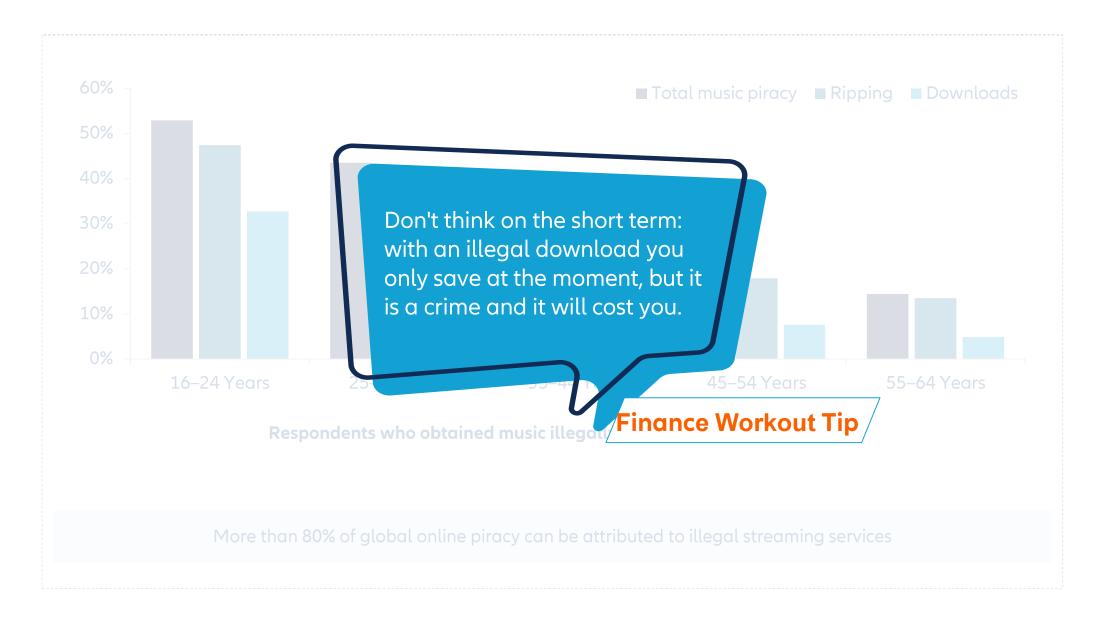


Music piracy on the net

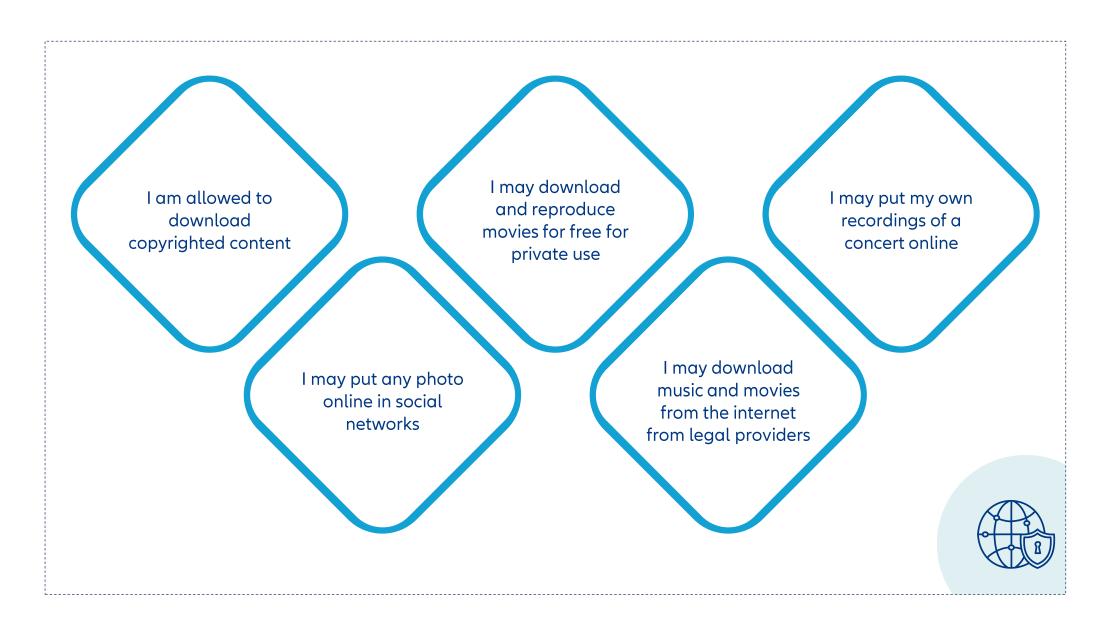


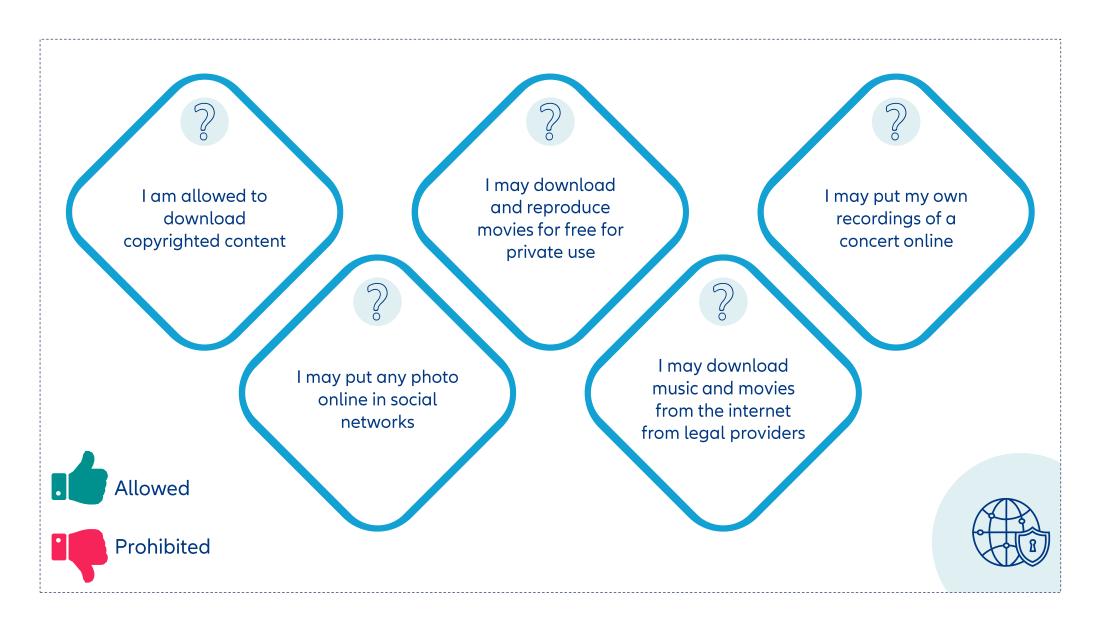
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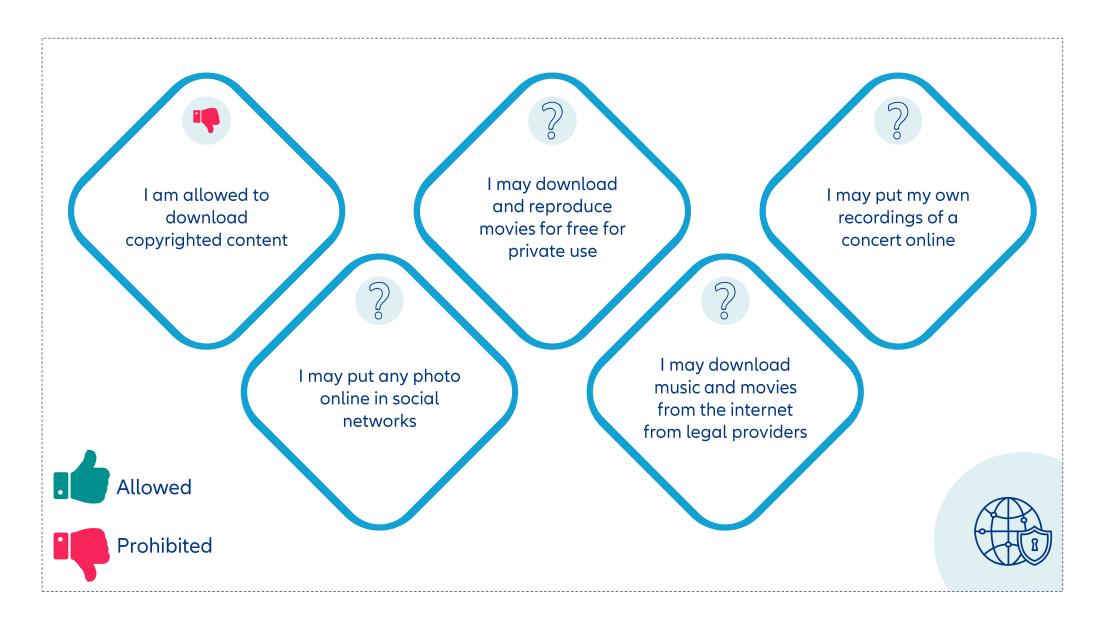
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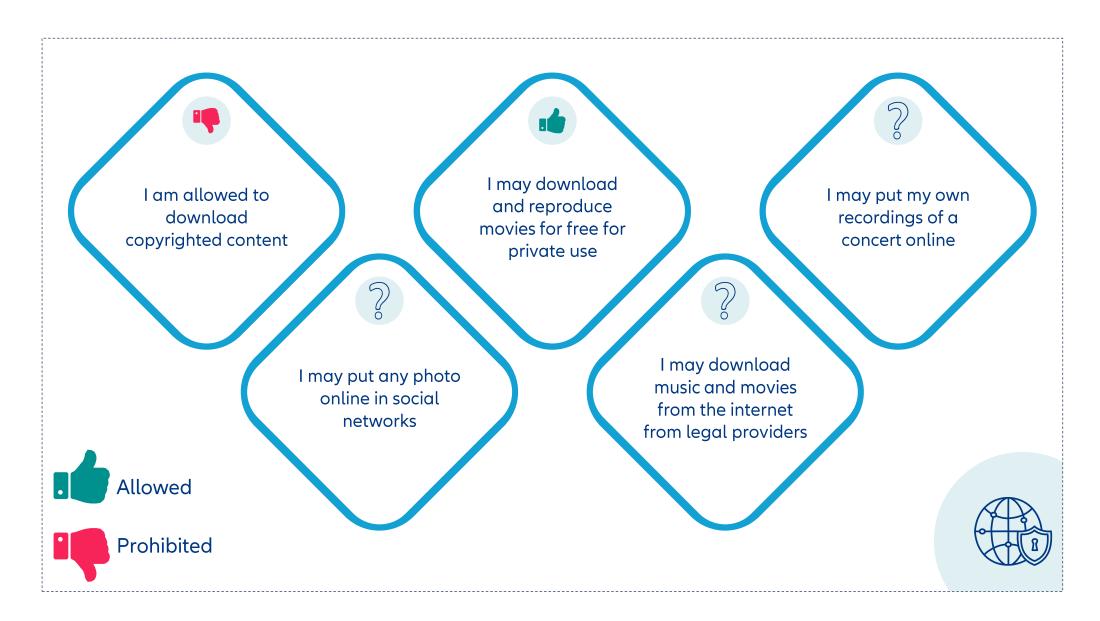


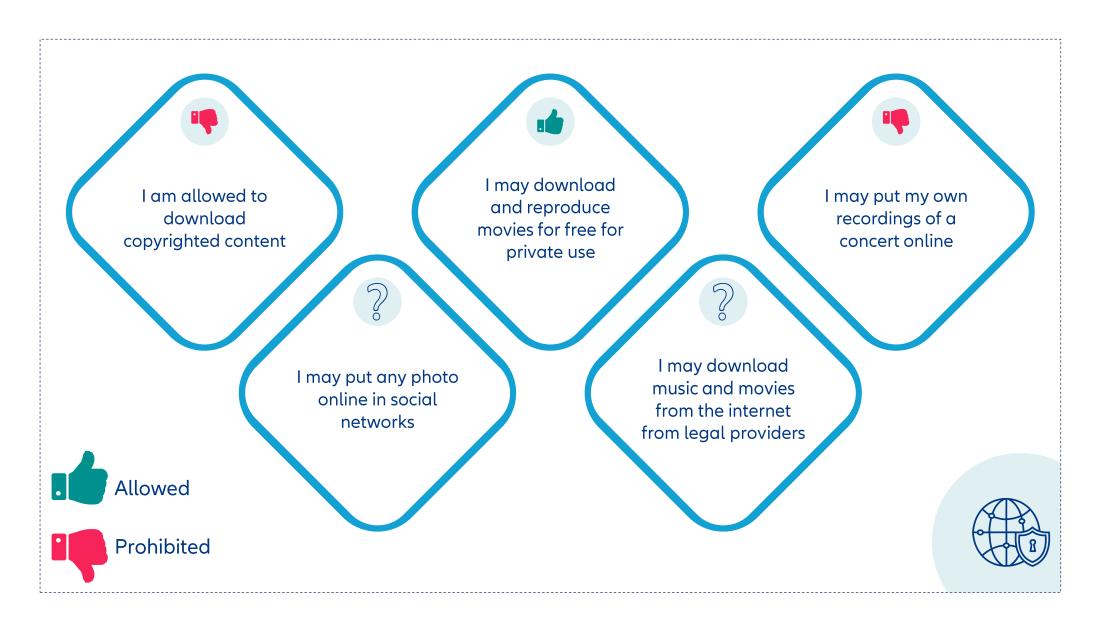


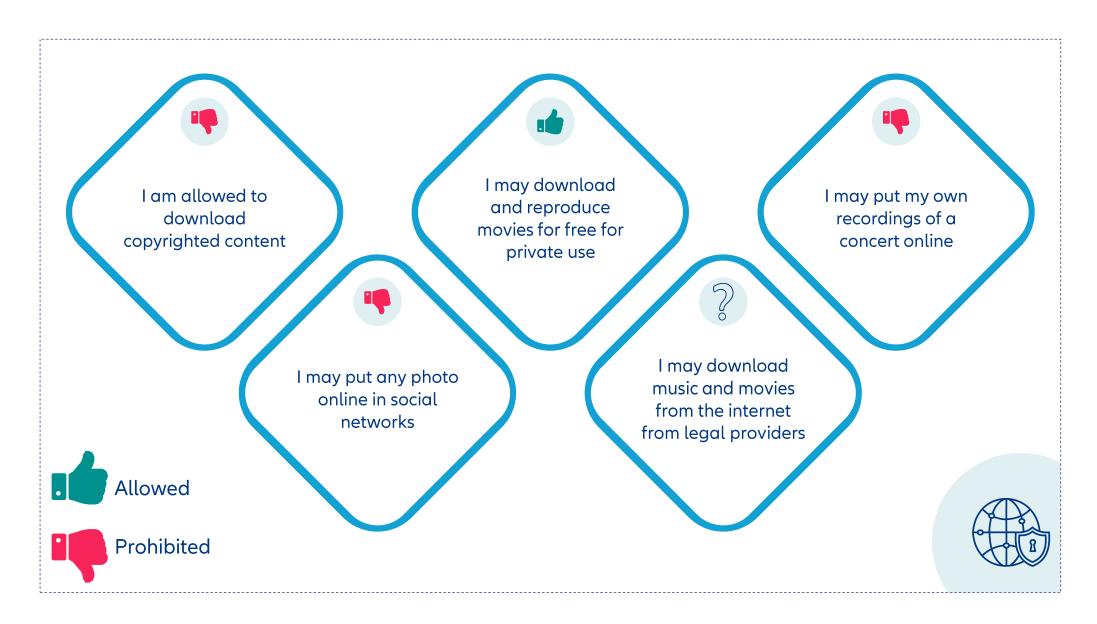


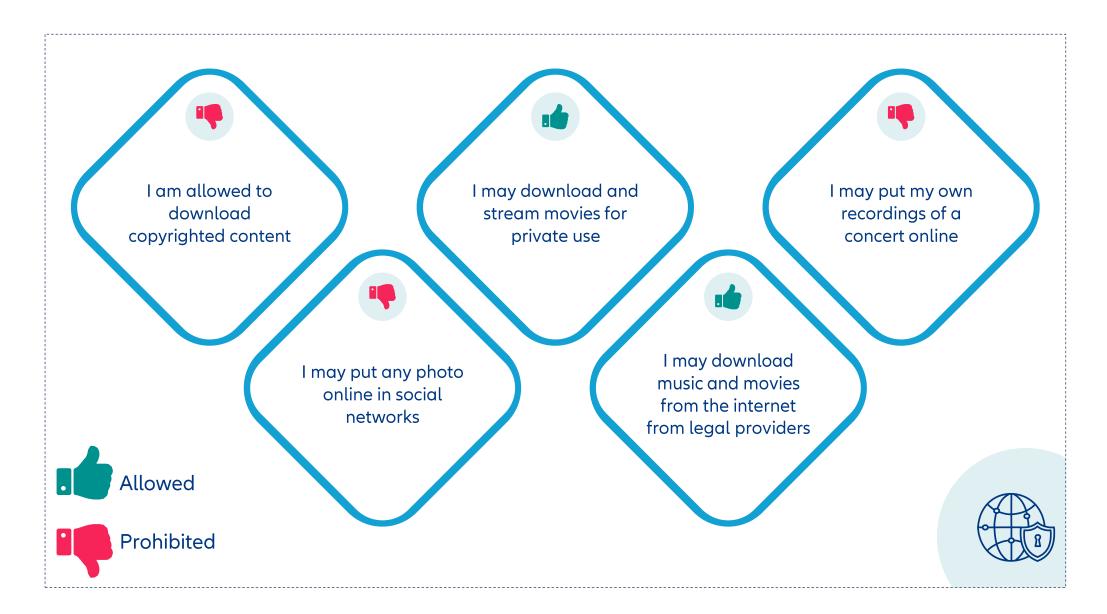


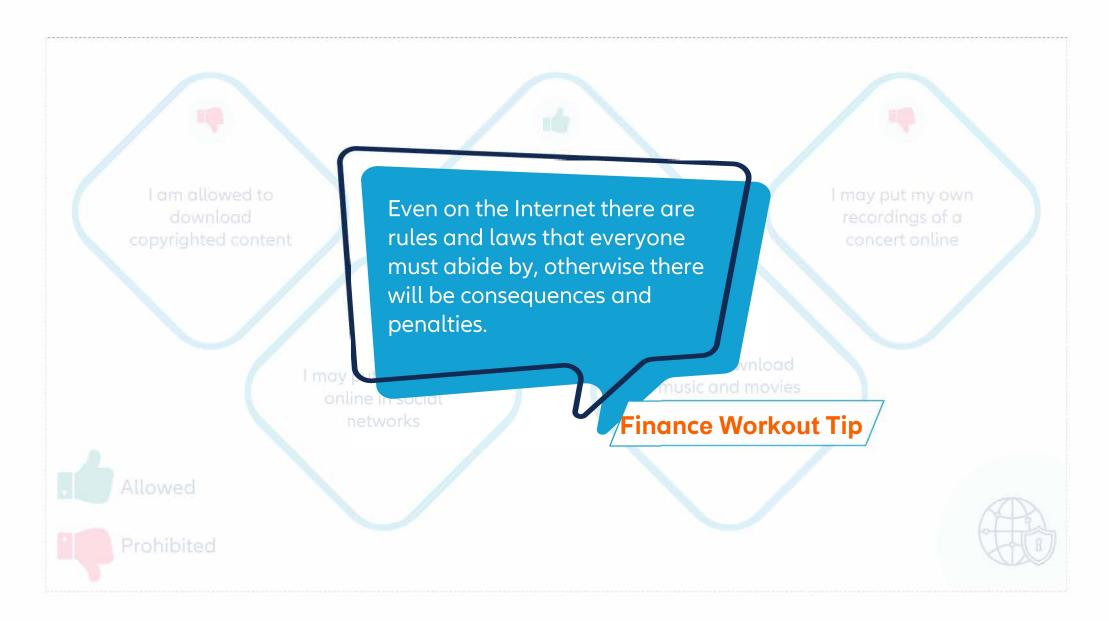












Talk show: Around the music



Talk show: All about music

Emma

I am Emma. I am a big fan of Emily Rock. My favorite way to listen to their songs for free is via the Internet. On the road, I always have her music on my smartphone. I don't get any pocket money from my parents, and I don't have any money saved up. I also don't understand why I should pay money to download songs to my smartphone when I can listen to them for free on the internet via streaming.

Emily

I'm Emily Rock. Recently I won in a casting show and already released my first music album. My biggest wish is to be able to work with music to earn a lot of money and live off it. However, when more and more fans are downloading the songs illegally, or streaming them on the internet, I don't get paid – or get paid very little so I may have to get a second job. But I don't really have time for that.

Daniel Platte

I am Daniel Platte. I was on the jury of the casting show that Emily won, and I wrote her winning song. In my music studio we produced her first album. From every sold song or album, I get a certain share. I am concerned that fewer and fewer music listeners are spending money on music and only listening to it online or obtaining it illegally. I may have to close my music studio soon.

Helmut Market

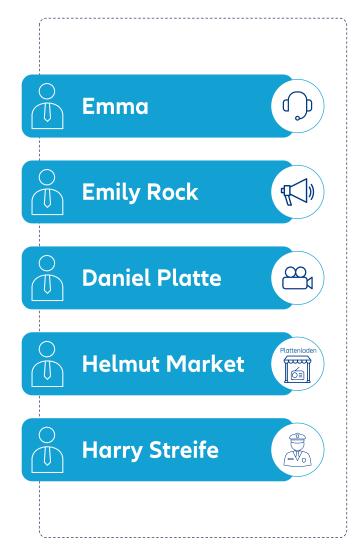
I am Helmut Market. I am the owner of a music store and sell albums from various artists in my store. Lately, sales figures have dropped sharply. More and more music listeners download their songs on the internet and no longer come to my store. I've already had to lay off both of my employees, and I'm worried that soon I'll have to close my store.

Talk show: Around the music



Players and observers: Now it's everyone's turn!

What is the problem? Which talk show guest did you support and why? What solution did the talk show participants find that everyone agrees with?



Players and observers: Now it's everyone's turn!



Allianz Finance Workout Tips

Don't think only in the short term: With an illegal download you save in the moment, but all fines find their way back to you.

There's a lot of work behind music and movies. Would you give away your masterpiece to anyone? On the Internet, there are rules and laws that everyone must abide by, otherwise there are consequences and penalties.

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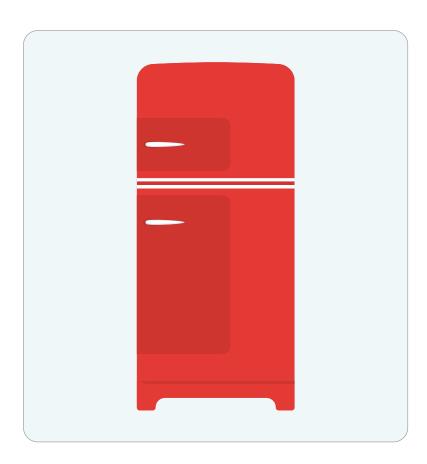
Internet of things (IoT)



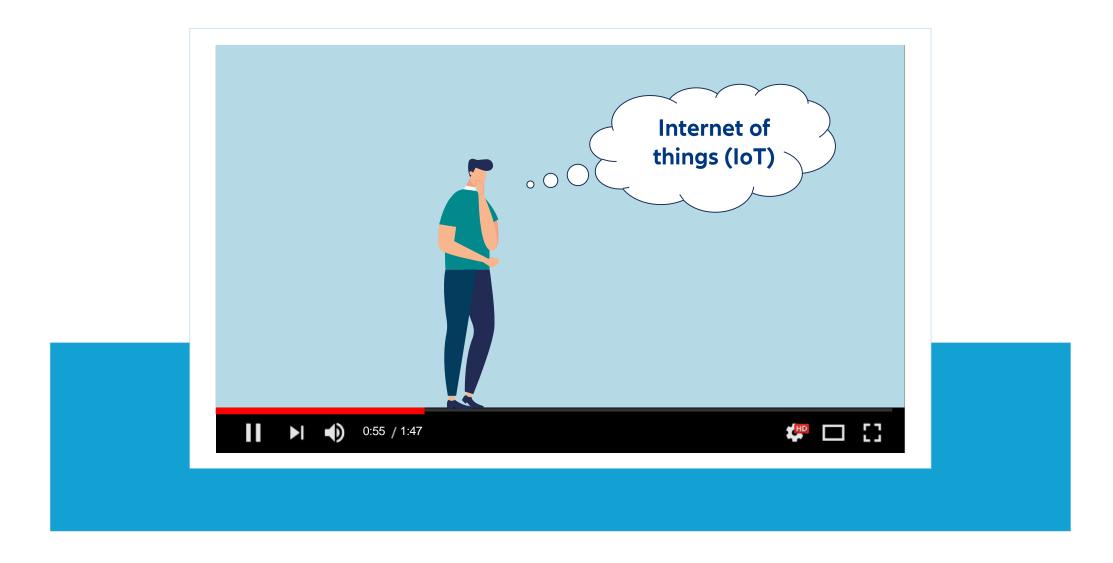
Internet of things (IoT)





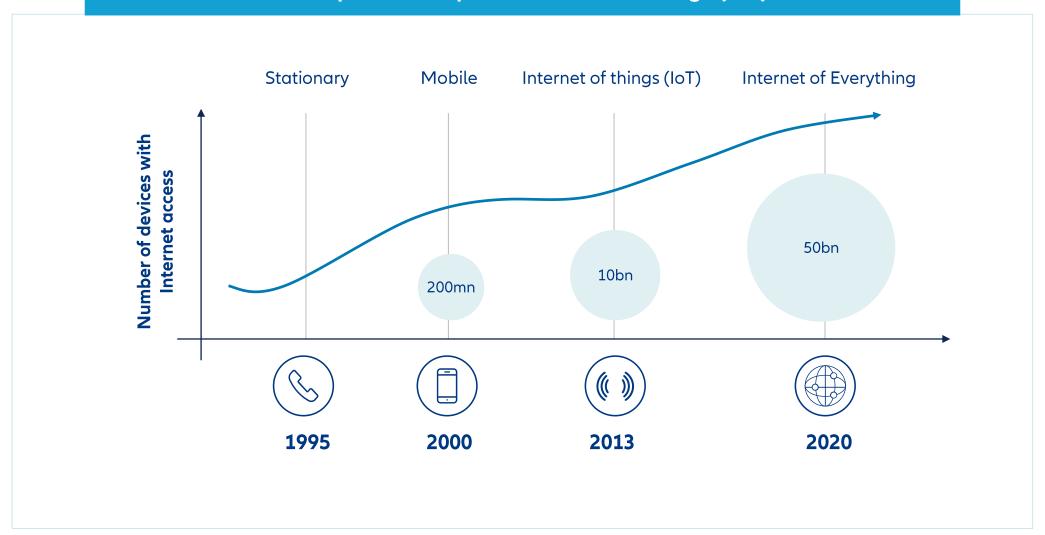


Internet of things (IoT)



Internet of things (IoT)

Example: Development Internet of things (IoT)



Source: Cisco IBSG, 2015

Internet of things (IoT)

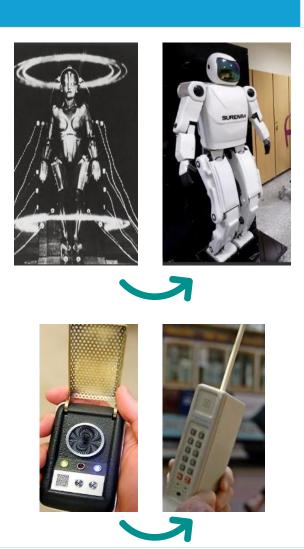
Development compared to the world population **World Population** 6,3bn 6,8bn 7,2bn 7,6bn **Networked devices** 25bn 50bn 500mn 12,5bn More networked Devices than people **Networked devices** 0,08 1,84 3,47 6,58 per person 2003 2010 2015 2020

Source: Cisco IBSG, April 2011

Internet of things (IoT)

...a look into the past





Internet of things (IoT)

Advantages and disadvantages



Advantages and disadvantages of the Internet of things (IoT)



People

- **Health Care**
- More motivation for sports activities
- More effective training through individual plans
- High acquisition costs
- **Uncertainty regarding** data security
- Addictiveness (e.g., frequency of training, weight)



Smart Home

- Time saving
- **Energy saving**
- Video surveillance via smartphone
- Privacy concern
- High acquisition costs
- Fear of hacker attacks



- Smoother and safer traffic: Connected cars can reduce accident damage
- Lower repair costs
- Low emissions from electric vehicles
- Small errors can paralyze entire network
- Hacker attack

Advantages and disadvantages of the Internet of things (IoT)

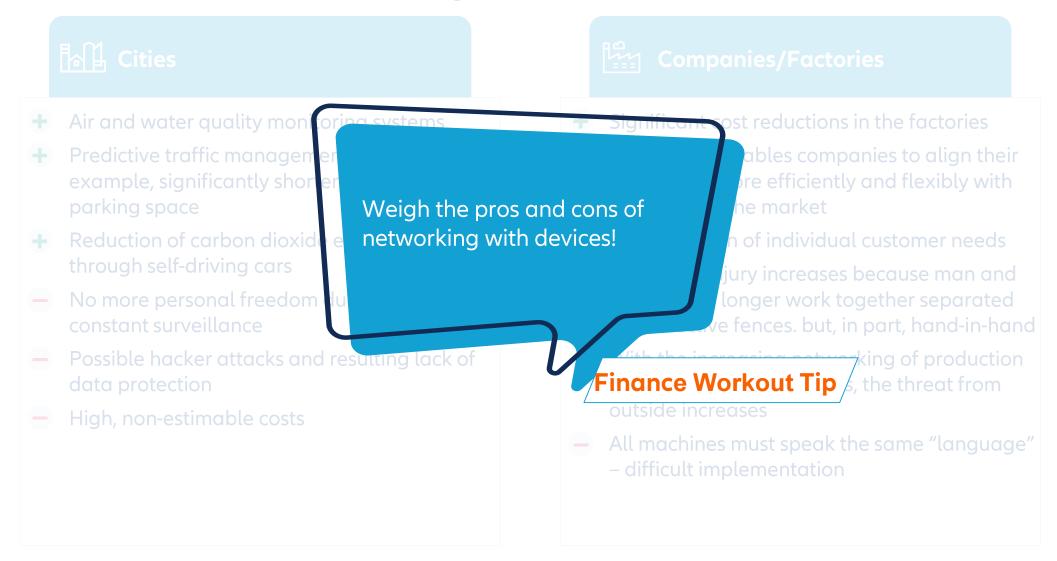
Cities

- Air and water quality monitoring systems
- Predictive traffic management that can, for example, significantly shorten the search for a parking space
- Reduction of carbon dioxide emissions through self-driving cars
- No more personal freedom due to constant surveillance
- Possible hacker attacks and resulting lack of data protection
- High, non-estimable costs

Companies/Factories

- Significant cost reductions in the factories
- Digitization enables companies to align their production more efficiently and flexibly with the needs of the market
- Consideration of individual customer needs
- The risk of injury increases because man and machine no longer work together separated by protective fences, but, in part, hand-in-hand
- With the increasing networking of production plants and control systems, the threat from outside increases
- All machines must speak the same "language" - difficult implementation

Advantages and disadvantages of the Internet of things (IoT)

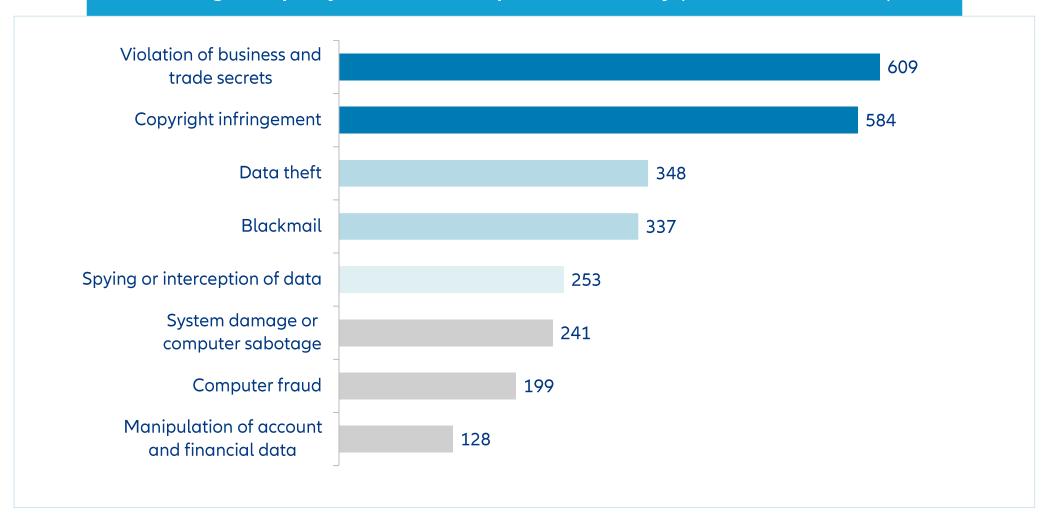


Internet of things (IoT): Economic advantage

Domains	Application (Ex.)	Forecast of the economic value until 2025
People	Healthcare	
Smart Home	Home control. Security	
Cars	Higher safety, condition-based maintenance	
Cities	Air and water quality monitoring, traffic control	
Factories/Companies	Higher efficiency, optimized use of machinery	

Cybercrime and its economic consequences

Average loss per cyber-crime at companies in Germany (in thousands of euros)



Basis: 505 companies selected on a representative basis according to industry and turnover Source: KPMG | e-Crime 2015

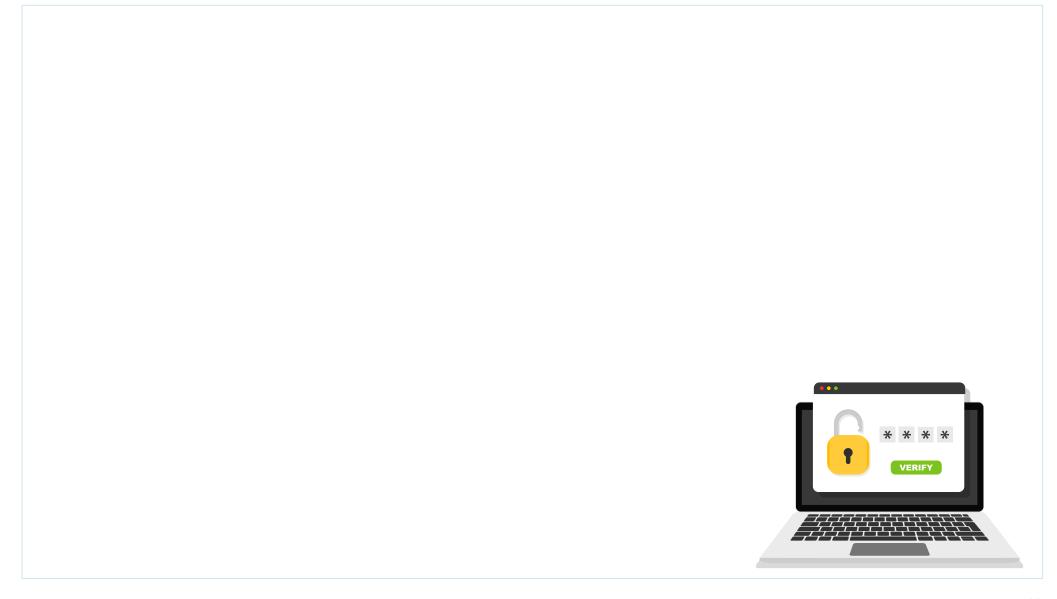
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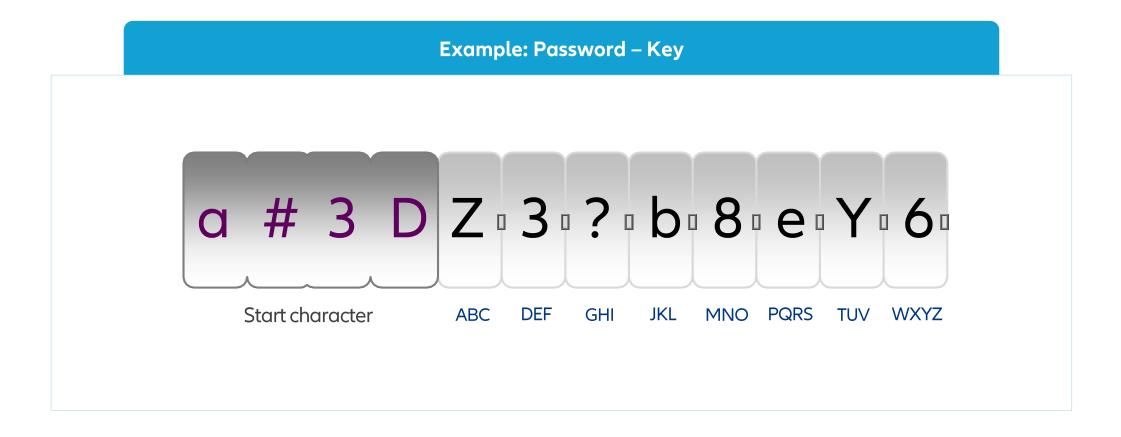
- At least 12 characters
- Letters (large and small!)
- ✓ Numbers
- ⟨ (Special -) characters
- No terms or information that have to do with you, e.g., date of birth, pet names, friends
- Treat your password like your toothbrush: don't share it with others and change it regularly!
- ⇔ In general, the longer your password, the more secure it is, and often
- Problem: The longer the more difficult to remember
- ✓ Tip: Use passwords instead of words or a password key
- ✓ Use different passwords for different accounts
- 🛚 Never write down password
- Caution with open WLAN



Check your password



Safe online



Safe online

Permissions

 Apps collect your data and create personal profiles. Before downloading an app, check what data is required from you



Encryption

- Your data is now in a cloud and should be protected
- Apps that encrypt your data also protect it





Services off

- GPS, Wi-Fi, Bluetooth: This is how your smartphone connects online, and this is how your movement profile is created
- Turn on the services when you don't need them!

Virus protection

- Only your PC needs virus protection?
- Your smartphone is also vulnerable
- Get a good antivirus app and protect your smartphone from online threats



Safe online

Services off Apps collect your data and create • GPS, Wi-Fi, Bluetooth: This is how downloading an app, check what n on the services when you h't need them! It's better to be safe than sorry: Regularly update your secure password and check settings and virus protection. rus protection **Encryption** Your data is now in a cloud an Finance Workout Tip/ne is also Apps that encrypt your data also

Allianz Finance Workout Tips

Better safe than sorry: regularly update your secure password and check settings and virus protection.

Weigh the pros and cons of networking with devices yourself!

Networking is here, but it also harbors dangers: If criminals get hold of networked data, it can cost you or your company dearly. Good data protection is therefore imperative!

More sources...

For teachers and finance coaches

- https://de.statista.com/infografik/9154/musikstreaming-boomt/
- http://www.fluter.de/was-macht-spotify-mit-meinen-daten
- http://www.ifpi.org/downloads/Music-Consumer-Insight-Report-2016.pdf
- http://www.cisco.com/c/dam/en_us/about/ac79/docs/innov/loT_IBSG_0411FINAL.pdf
- https://netzoekonom.de/2015/06/28/fabriken-und-staedte-sind-die-groessten-profiteure-vom-internet-der-dinge/
- https://www.bka.de/DE/UnsereAufgaben/Deliktsbereiche/Internetkriminalitaet/internetkriminalitaet_node.html
- https://home.kpmg.com/content/dam/kpmg/pdf/2015/03/e-crime-studie-2015.pdf

For pupils

- https://www.youtube.com/watch?v= yLZbzbO-7yQ
- www.klicksafe.de
- www.checkdeinpasswort.de
- https://www.surfen-ohne-risiko.net
- https://www.handysektor.de/
- https://www.handysektor.de/fileadmin/user_upload/downloads/infografiken/Infografik–Sicheres–Smartphone_Poster.jpg

Thank you for your attention!

