

01.06.2019

WiFi4EU

broken by technical specifications - a year of misery & new allies

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• The idea







- The idea
- The plan





- The idea
- The plan
- Why it matters





- The idea
- The plan
- Why it matters
- Thirteen ways it went wrong



- The idea
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- Thirteen ways it went wrong
- What has been done





- The idea
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- What has been done
- What can be done



- The idea
- The plan
- Why it matters
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- What has been done
- What can be done
- Sources









- Europe 2020 Strategy [1]
 - Employment
 - 75% of people aged 20–64 to be in work



- Europe 2020 Strategy [1]
 - Employment
 - Research and development (R&D)
 - 3% of the EU's GDP to be invested in R&D



- Europe 2020 Strategy [1]
 - Employment
 - Research and development (R&D)
 - Climate change and energy
 - greenhouse gas emissions 20% lower than 1990 levels

- 20% of energy coming from renewables
- 20% increase in energy efficiency



- Europe 2020 Strategy [1]
 - Employment
 - Research and development (R&D)
 - Climate change and energy
 - \circ Education
 - rates of early school leavers below 10%
 - at least 40% of people aged 30–34 having completed higher education



• Europe 2020 Strategy [1]

- Employment
- Research and development (R&D)
- Climate change and energy
- \circ Education
- Poverty and social exclusion
 - at least 20 million fewer people in or at risk of poverty/social exclusion





• Europe 2020 Strategy [1]

- Employment
- Research and development (R&D)

- Climate change and energy
- \circ Education
- Poverty and social exclusion
- Digital Single Market [2]



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 - "Four Freedoms" within the EU [3]:



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- Digital Single Market [2]
 - "Four Freedoms" within the EU [3]:
 - goods



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 - capital
 - services



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• Digital Single Market [2]

- "Four Freedoms" within the EU [3]:
 - goods
 - capital
 - services
 - labour









- Digital Single Market [2]
 - May 2015 2020



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 - 14 legislative proposals





- Digital Single Market [2]
 - May 2015 2020
 - 14 legislative proposals
 - May 2016: Geoblocking abolished [4]
 - Freedom of digital services



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 - May 2015 2020
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 - July 2016: eIDAS [5]

electronic IDentification, Authentication and trust Services



- Digital Single Market [2]
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 - 14 legislative proposals
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 - July 2016: eIDAS [5]
 - Jun 2017: European Union roaming regulations [6]
 - "34 % of Europeans travel abroad within the EU at least once a year. 8 In 2014, about half of Europeans said they would not use mobile internet abroad because it was too costly. "[4]



- Digital Single Market [2]
 - May 2015 2020
 - 14 legislative proposals
 - May 2016: Geoblocking abolished [4]
 - July 2016: eIDAS [5]
 - Jun 2017: European Union roaming regulations [6]
 - March 2018: Wifi4EU [7]
 - "WiFi4EU-funded networks will be free of charge, free of advertising and free of personal data" [8]



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 - May 2016: Geoblocking abolished [4]
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 - Jun 2017: European Union roaming regulations [6]
 - March 2018: Wifi4EU [7],[8]
 - May 2018: GDPR [9]
 - "The reform is an essential step to strengthening citizens' fundamental rights in the digital age and facilitating business by simplifying rules for companies in the Digital Single Market." - European Commission [10]



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 - March 2018: Wifi4EU [7],[8]
 - May 2018: GDPR [9],[10]
 - Sep 2018: EU Copyright Directive (Link Tax/ Uploadfilters) [11]
 - "Imagine if every time you opened your mouth, computers controlled by big companies would check what you were about to say, and have the power to prevent you from saying it. [...]" Julia Reda (MEP) et Al.



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 - Dez 2018: eEvidence
 - "The new rules will allow law enforcement in EU Member States to better track down leads online and across borders, while providing sufficient safeguards for the rights and freedoms of all concerned." European Comission [12]



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 "Everyone benefiting from connectivity means that it should not matter where you live or how much you earn. So we propose today to equip every European village and every city with free wireless internet access around the main centres of public life by 2020."

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Jean-Claude Juncker, President of the European Commission [7]





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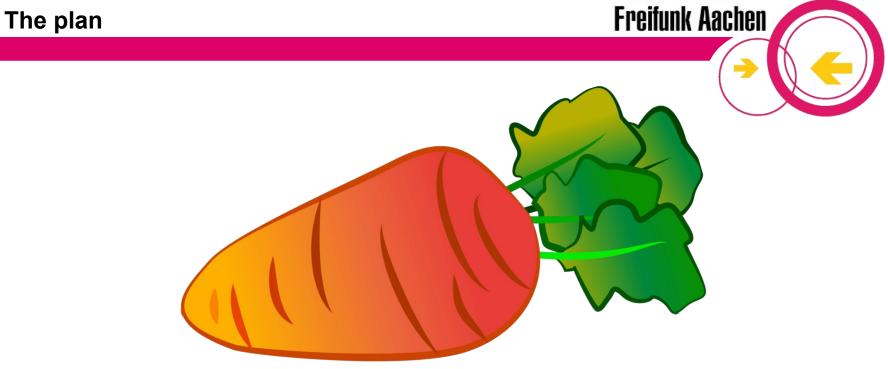
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- "WiFi4EU-funded networks will be free of charge, free of advertising and free of personal data" 20 March 2018 EC PR [8]
- Implement a EU wide standard







[14]

The plan





[15]

The plan





[16]

• 120 Million €





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- 15.000€ for 8.000 municipalities



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YAY! Network authentication!





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- YAY! Network authentication!
- WiFi-Based IMSI Catcher O'Hanlon, Borgaonkar (Oxford) BSides London [18]







• EU standards have normative effects





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- We pay with €



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- EU standards have normative effects
- We pay with €
- GDPR spawned data protection laws in China, Brazil, California [19]
- "Deutsche Telekom not obligated to preserve data due to EU rules" OLG Cologne 20.04.2018 [20]
- This is just the beginning of Wifi4EU





• 25.10.17. "Network Authentication" [17]

"Security and data protection risk: the scheme will ensure full protection of personal data and sufficient level of authentication to ensure the user-friendliness of the connection at the access point level."



- 25.10.17. "Network Authentication" [17]
- 20.03.18: Press release "free of personal data"[8]

"WiFi4EU-funded networks will be free of charge, free of advertising and free of personal data"



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• 15.05.18: Planned First call (1.000 vouchers, 15 Mio €)





- 25.10.17. "Network Authentication" [17]
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- 25.04.18: Tech. spec Q25: "Central Authentication Infrastructure"

"in the second stage (from 2019 onwards), a common authentication platform will be set up"

• 15.05.18: Planned First call (1.000 vouchers, 15 Mio €)



- GDPR Compliance I
 - There is no need for any form of authentication to use WLAN #freifunk

Authentication for eGoverment on need to know basis



- GDPR Compliance I
- fiscal responsibility [21]
 - Those servers & the personnel to run them cost a TON of money.



- GDPR Compliance I
- fiscal responsibility [21]
- fair markets/hidden subsidies I
 - There are very few competitors who can handle the massive serverload for Wifi4EU



- GDPR Compliance I
- fiscal responsibility [21]
- fair markets/hidden subsidies I
- national/union security
 - The centralized login data of all citizens of a EU country is a data trove that should better not exist



- GDPR Compliance I
- fiscal responsibility [21]
- fair markets/hidden subsidies I

- national/union security
- single point of failure



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- 30.04.18: Tech. spec Q26: "Captive portal with snippet"

The technical specifications of the captive portal [...]

• 15.05.18: First call First call (1.000 vouchers, 15 Mio €)



- GDPR Compliance I
- fiscal responsibility [21]
- fair markets/hidden subsidies I
- national/union security
- single point of failure
- inhibit innovation (IoT)
 - WLAN is a digital infrastructure, captive portals limit the devices that allow for its use. #IoT



- GDPR Compliance I
- fiscal responsibility [21]
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- single point of failure
- inhibit innovation (IoT)
- inclusion
 - captive portals block use of service for disabled and technological unskilled humans, e.g. the elderly





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- inhibit innovation (IoT)
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 - captive portals block use of service for disabled and technological unskilled humans, e.g. the elderly
 - legacy devices





- GDPR Compliance I
- fiscal responsibility [21]
- fair markets/hidden subsidies I
- national/union security
- single point of failure
- inhibit innovation (IoT)
- inclusion
- IT Security I
 - security techniques like Domain Name System Security Extensions (DNSSEC) are incompatible the DNS rewriting [22]





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- national/union security
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- GDPR Compliance I
- fiscal responsibility [21]
- fair markets/hidden subsidies I
- national/union security
- single point of failure
- inhibit innovation (IoT) not fixed by WPA3

- inclusion
- IT Security I





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The technical specifications of the captive portal [...]

 "Embedded snippet from EC for monitoring actual functioning of the WiFi4EU network (no personal data collected)"

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- GDPR Compliance I
- fiscal responsibility
- fair markets/hidden subsidies I
- national/union security
- inhibit innovation (IoT)
- inclusion
- IT Security II
 - This is a potential backdoor into the access point and allows to gather user data





- GDPR Compliance I
- fiscal responsibility
- fair markets/hidden subsidies I

- national/union security
- inhibit innovation (IoT)
- inclusion
- IT Security I,II





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The technical specifications of the captive portal [...]

- "Embedded snippet from EC for monitoring actual functioning of the WiFi4EU network (no personal data collected)"
- WiFi4EU branding required (WiFi4EU SSID);
- 15.05.18: First call First call (1.000 vouchers, 15 Mio €)



- GDPR Compliance I
- fiscal responsibility
- fair markets/hidden subsidies I
- national/union security
- inhibit innovation
- inclusion
- IT Security I,II,III
 - This basically democratizes hacking honey pots are too easy for legacy devices





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- fiscal responsibility
- fair markets/hidden subsidies I

10

- national/union security
- inhibit innovation
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- IT Security I,II,III





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- 08.05.18: Tech. spec Q27: "Hotspot 2.0"

comply with Hotspot 2.0 (Passpoint Wi-Fi Alliance certification programme).

• 15.05.18: First call First call (1.000 vouchers, 15 Mio €)



- GDPR Compliance I,II
 - hotspot 2.0 accesses SIM ID





- GDPR Compliance I,II
- fair markets/hidden subsidies I,II
 - hotspot 2.0 allows for so called "connection roaming"



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allows to steer traffic between connection types:
 WLAN, mobile, bluetooth, NFC, LTE



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• conjecture: mobile traffic = expensive



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 - conjecture: mobile traffic = expensive
 - conjecture: hotspot 2.0 can be used to pass traffic from mobile to WLAN



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• subsidization of mobile service providers



- GDPR Compliance I,II
- fair markets/hidden subsidies I,II
- inclusion social
 - hotspot 2.0 allows to circumvent captive portal



- GDPR Compliance I,II
- fair markets/hidden subsidies I,II
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• State of the art Smartphones have hotspot 2.0



- GDPR Compliance I,II
- fair markets/hidden subsidies I,II
- inclusion social
 - hotspot 2.0 allows to circumvent captive portal
 - State of the art Smartphones have hotspot 2.0
 - poor ppl get captive portals, rich people get auto sign-ins



- GDPR Compliance I,II
- fiscal responsibility
- fair markets/hidden subsidies I, II
- national/union security
- inhibit innovation
- inclusion ability, social
- IT Security I,II,III







• 15.05.18: First call (1.000 vouchers, 15 Mio €)







 15.05.18: First call (1.000 vouchers, 15 Mio €) Homepage crashes





 15.05.18: First call (1.000 vouchers, 15 Mio €) Homepage crashes **Freifunk Aachen**

• 14.06.18: Call canceled [23][24]





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- 10.09.18: Open Market Consultation until 05.10. [25]





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- 07.-09.11.18: 2nd 1st call (2.800 vouchers, 42 Million €) [27]





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- 07.12.18: Regulation on cross border access to e-evidence: Council agrees on its position [29]



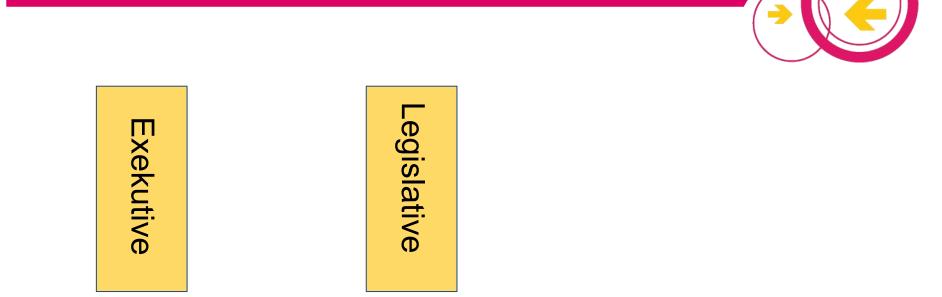




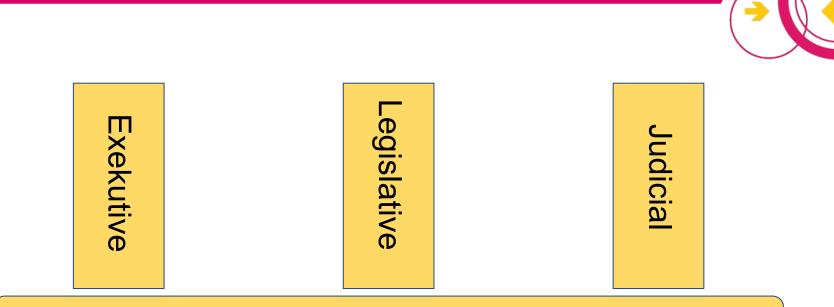




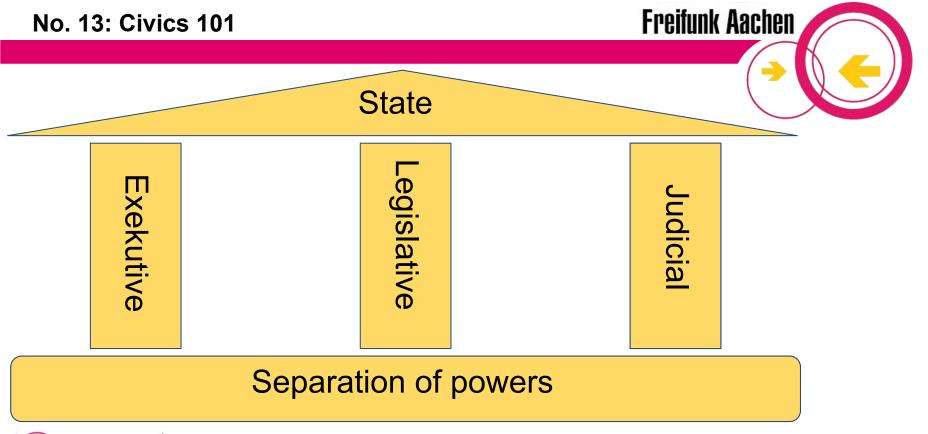




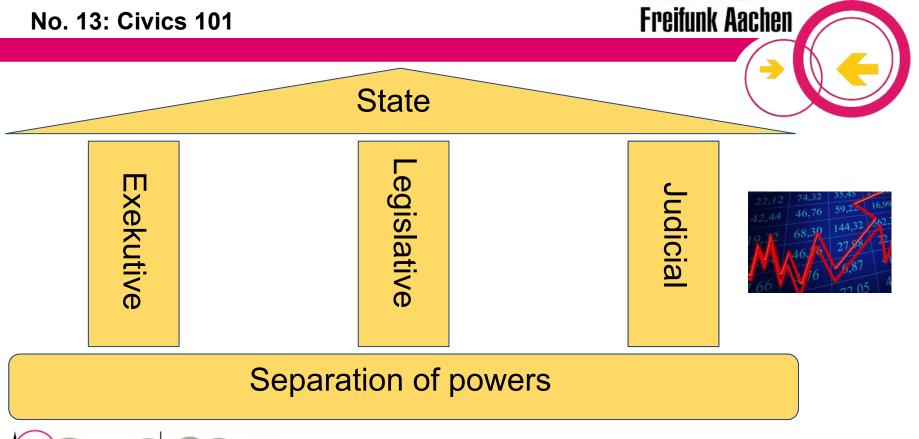




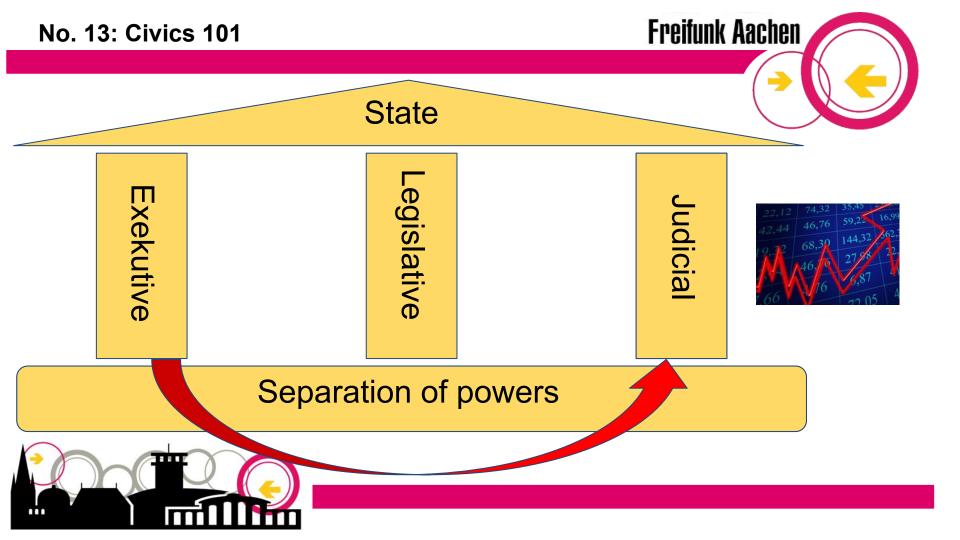


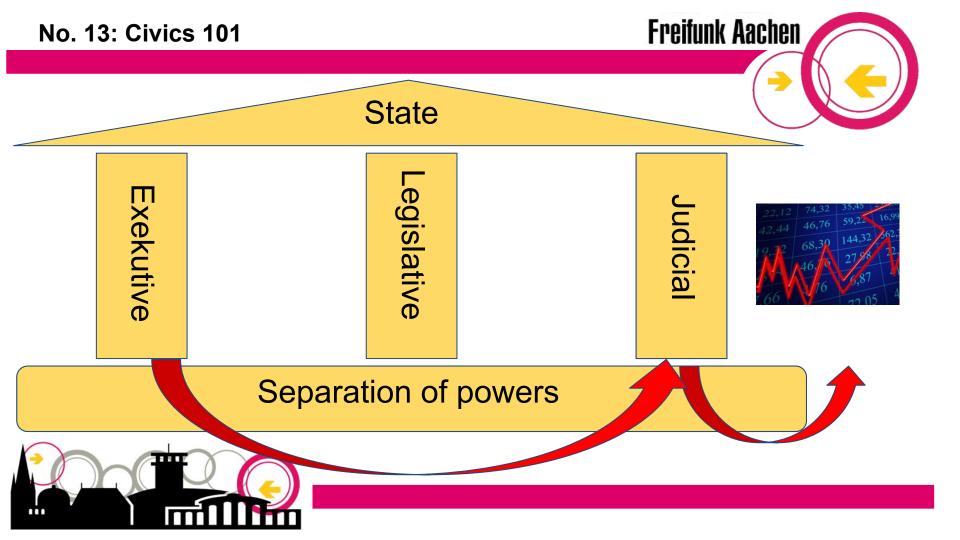


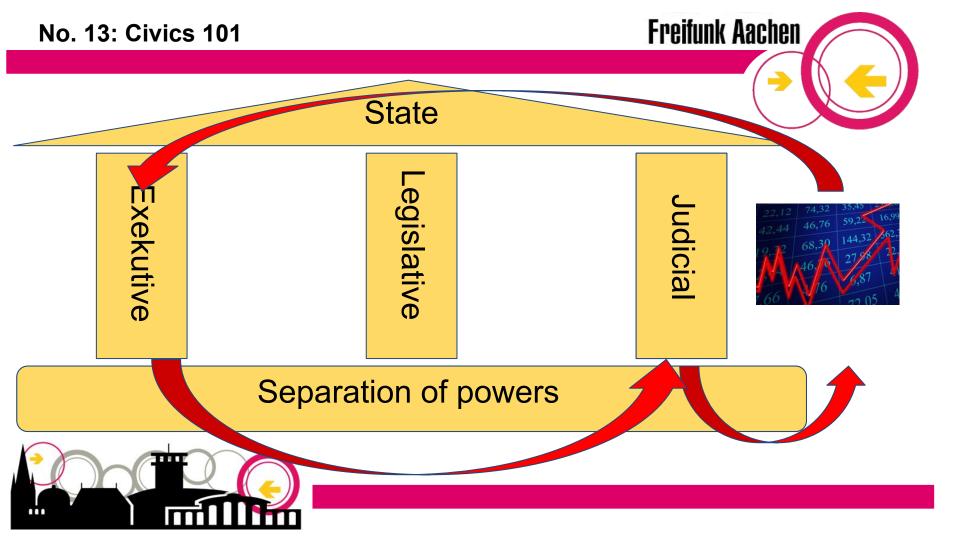


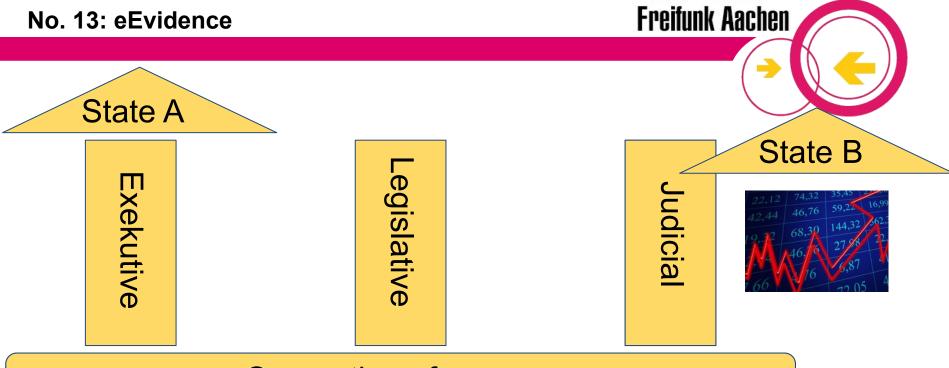




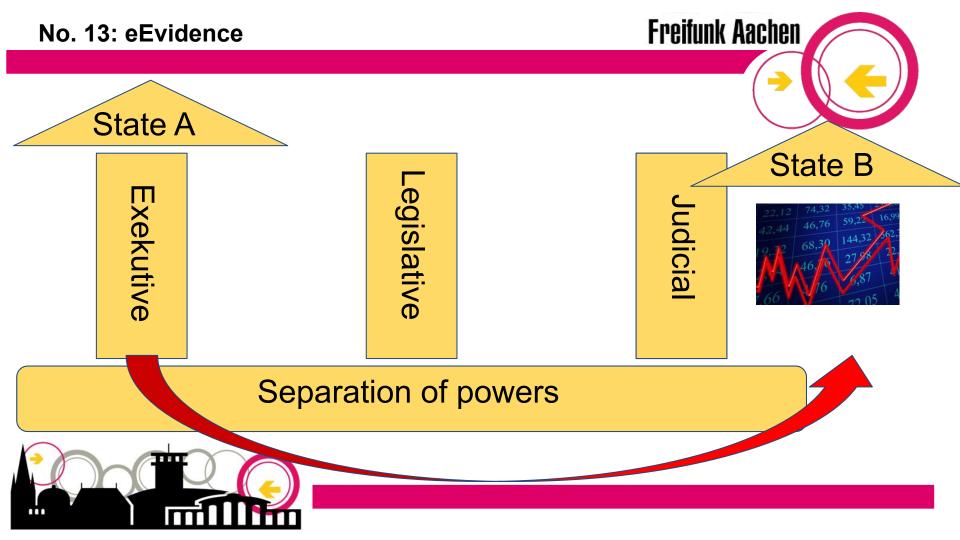


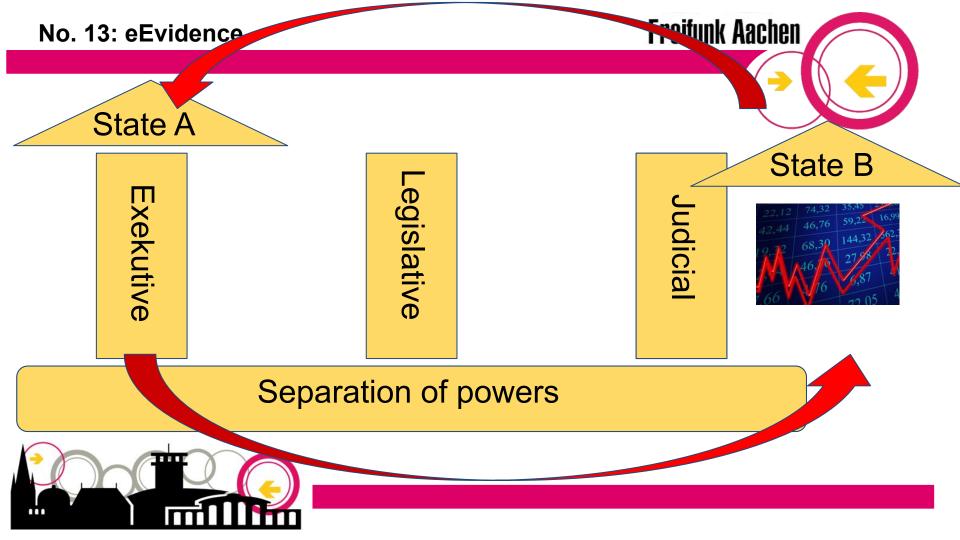


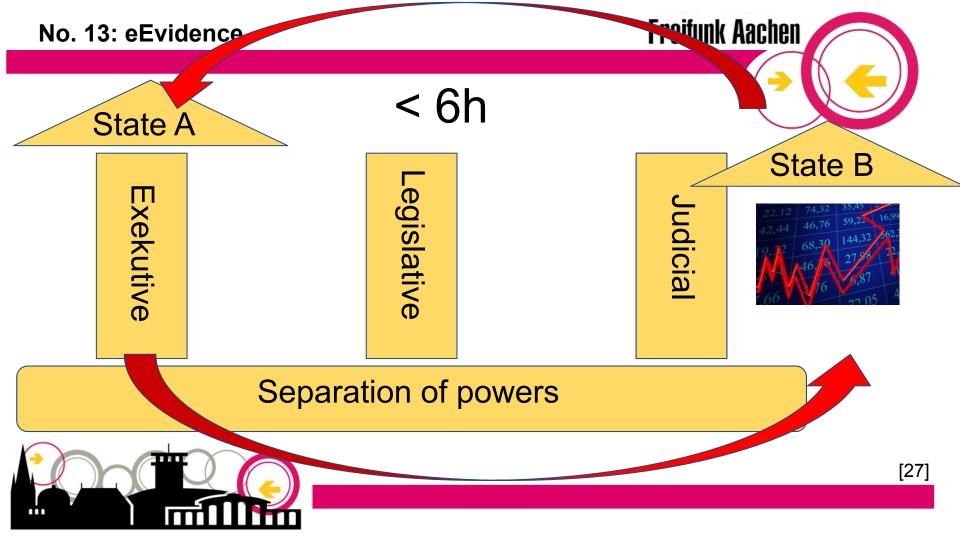












No. 13: eEvidence









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• 05.04.18: Feedback on tech. spec in consideration [31]



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Committee for digital Agenda Bundestag [37]

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• 14.12.18: Jimmy Schulz: "Open Letter to Giovanni Buttarelli EDPS [38]





24.02.2019: Answer Buttarelli [39]

"... From a technical perspective, an open and secure WiFi network does not in principle require any form of user registration and authentication, in line with the principle of data minimisation. .."





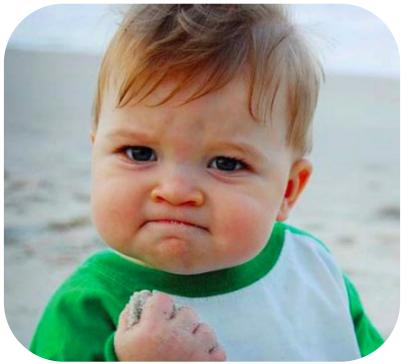
• 24.02.2019: Answer Buttarelli [39]

"... From a technical perspective, an open and secure WiFi network does not in principle require any form of user registration and authentication, in line with the principle of data minimisation. .."

"... The EDPS will follow up with the Commission to ask clarification about the planned second phase of the WiFi4EU project, in particular regarding the envisaged authentication and monitoring system.

We will keep you informed."







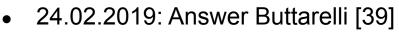
What has been done

• 24.02.2019: Answer Buttarelli [39]

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• 29.05.2019: EDPS:





• 29.05.2019: EDPS:

"We are continuing to monitor the development of the WiFi4EU project." - by mail







- Write <u>your</u> MEP [40]
- Is your town a "winner"? [41]
- Write the European Commission /Ask the EU [42]

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• Find/Build an example for network authentication





Questions?























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Thank you for your time!



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- n/european-semester/framework/europe-2020-strategy_en
- [2] https://ec.europa.eu/commission/priorities/digital-single-market_en
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- [7] https://www.wifi4eu.eu/#/home

[8] <u>http://europa.eu/rapid/press-release_IP-18-2065_en.htm</u>



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[9] https://en.wikipedia.org/wiki/General_Data_Protection_Regulation

- [10] http://europa.eu/rapid/press-release_MEMO-18-387_en.htm
- [11] https://juliareda.eu/2018/01/censorship-machines/
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- [14] <u>https://www.wisc-online.com/assetrepository/viewasset?id=181</u>
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- [23] <u>https://www.neweurope.eu/article/wifi4eu-call-riddled-problems/</u>
- [24] http://europa.eu/rapid/press-release_STATEMENT-18-4158_en.htm
- [25]<u>https://ec.europa.eu/digital-single-market/en/news/wifi4eu-single-authentication-and-monitoring-service</u>

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<u>ounced</u>

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[36] https://twitter.com/LittleDetritus/status/1072506218537762816

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