

Bibliography

Ackerman, C 2018, 'What Is Instant Gratification? (Definition & Examples)', Positive Psychology.com, 19 June, viewed 2 December 2023 (<https://positivepsychology.com/instant-gratification>).

Alternative Payments 2021, 'A Short History of Payment Methods', 5 April, viewed 2 December 2023 (<https://www.alternativepayments.com/blog/a-short-history-of-payment-methods>).

Amazon 2022, 'How Can Sellers Increase Their Sales Using Amazon Services', 13 June, Amazon, viewed 2 December 2023 (<https://sell.amazon.in/seller-blog/how-can-sellers-increase-their-sales-using-amazon-services>).

Apple (no date), App Store Review Guidelines, viewed 11 December 2023 (<https://developer.apple.com/app-store/review/guidelines>).

Aristotle (no date), *Politics (Ellis)*, 1912 edition from Project Gutenberg; translated from Ancient Greek by William Ellis in 1776, Book 3, Chapter 16, viewed 30 December 2023 ([https://en.wikisource.org/wiki/Politics_\(Ellis\)/Book_3#CHAPTER_XVI](https://en.wikisource.org/wiki/Politics_(Ellis)/Book_3#CHAPTER_XVI)).

Aten, J 2021, '5 Things Mark Zuckerberg Said About His Plan for the Metaverse That Should Make You Very Worried', Inc., 30 October, viewed 5 December 2023 (<https://www.inc.com/jason-aten/5-things-mark-zuckerberg-said-about-his-plan-for-metaverse-that-should-make-you-very-worried.html>).

Axon Partners Group 2022, 'Europe's Internet Ecosystem: Socioeconomic Benefits of a Fairer Balance Between Tech Giants and Telecom Operators', 11 May, viewed 30 November 2023 (<https://axonpartnersgroup.com/europe-s-internet-ecosystem-socio-economic-benefits-of-a-fairer-balance-between-tech-giants-and-telecom-operators>).

Ball, J 2020, 'The Real Story of Cambridge Analytica and Brexit', *The Spectator*, 11 October, viewed 2 December 2023 (<https://www.spectator.co.uk/article/were-there-any-links-between-cambridge-analytica-russia-and-brexit>).

Barkho, G 2023, 'How the Inform Act aims to crack down on counterfeit marketplace listings', *Modern Retail*, 12 May, viewed 27 December 2023 (<https://www.modernretail.co/operations/how-the-inform-act-aims-to-crack-down-on-counterfeit-marketplace-listings>).

Barten, O & Meindertsma, J 2023, 'An AI Pause Is Humanity's Best Bet For Preventing Extinction', *Time Magazine*, 20 July, viewed 28 December 2023 (<https://time.com/6295879/ai-pause-is-humanitys-best-bet-for-preventing-extinction>).

BBC 2021a, 'Frances Haugen Says Facebook is "Making Hate Worse"', BBC, 25 October, viewed 30 November 2023 (<https://www.bbc.com/news/technology-59038506>).

BBC 2021b, 'WhatsApp Issued Second-largest GDPR Fine of €225m', BBC, 2 September, viewed 10 December 2023 (<https://www.bbc.com/news/technology-58422465>).

Bernholz, L, Landemore, H & Reich, R 2021, *Digital Technology and Democratic Theory*, The University of Chicago Press.

Biden, J 2023, 'Republicans and Democrats, Unite Against Big Tech Abuses', *Wall Street Journal*, 11 January, viewed 14 December 2023 (<https://www.wsj.com/articles/unite-against-big-tech-abuses-social-media-privacy-competition-antitrust-chill-dren-algorithm-11673439411>).

Blenkinsop, P 2023, 'EU Tech Chief Sees Draft Voluntary AI Code Within Weeks', *Reuters*, 31 May, viewed 9 January 2024 (<https://www.reuters.com/technology/eu-tech-chief-calls-voluntary-ai-code-conduct-within-months-2023-05-31>).

Boel, C, Dekeyser, K, Depaepe, F, et al. 2023, *Extended Reality: Opportunities, Success Stories and Challenges (Health, Education): Final Report*, European Commission, Publications Office of the European Union, viewed 5 December 2023 (<https://data.europa.eu/doi/10.2759/121671>).

Branka 2022, Facebook Statistics, Truelist, viewed 3 December 2023 (<https://truelist.co/blog/facebook-statistics/#:~:text=The%20average%20number%20of%20Facebook,median%20point%20is%20at%20200>).

Britannica (no date), 'Silk Road Trade Route', Britannica, viewed 2 December 2023 (<https://www.britannica.com/topic/Silk-Road-trade-route>).

Brunswick 2021, *TECHLASH: The Ethics Edition*, 19 November, viewed 30 November 2023 (<https://www.brunswickgroup.com/techlash-the-ethics-edition-i19910>).

Bundesgerichtshof 2021, *Pressemitteilung Nr. 083/2021*, viewed 31 December 2023 (<https://www.bundesgerichtshof.de/SharedDocs/Pressemitteilungen/DE/2021/2021/083.html>).

Bursztynsky, J 2022, 'Elon Musk Says He Would Lift Twitter Ban on Donald Trump After Deal Closes', CNBC, 10 May, viewed 2 December 2023 (<https://www.cnbc.com/2022/05/10/elon-musk-says-he-would-lift-twitter-ban-on-donald-trump-after-deal-closes.html>).

Cambridge Dictionary (no date), 'Advertising', viewed 4 January 2023 (https://dictionary.cambridge.org/dictionary/english/advertising#google_vignette).

Carpi, A & Egger, A 2008, *Statistics in Science*, Visionlearning, viewed 2 December 2023 (<https://www.visionlearning.com/en/library/Process-of-Science/49/Statistics-in-Science/155>).

Caulfield, B 2021, 'What Is the Metaverse?', Nvidia, 10 August, viewed 5 December 2023 (<https://blogs.nvidia.com/blog/2021/08/10/what-is-the-metaverse>).

CGTN 2017, 'Alibaba to Set Headquarters in NW China on Belt & Road', CGTN, 20 August, viewed 2 December 2023 (https://news.cgtn.com/news/77676a4d30557a333566d54/share_p.html).

Charter of Fundamental Rights of the European Union 2012, Official Journal C 326, pp. 391–407.

Chini, M 2022, 'What is Illegal Offline is Illegal Online: EU Tightens Rules for Internet Giants', *The Brussels Times*, 23 April, viewed 27 December 2023 (<https://www.brusselstimes.com/219152/what-is-illegal-offline-is-illegal-online-eu-tightens-rules-for-internet-giants>).

Churchill, W (1947), UK Parliament Hansard, Commons, Vol 444, 11 November 1947, Orders of the Day, Parliament Bill, Speaker Winston Churchill (Woodford).

Cisco 2021, 'Consumer Privacy Survey', Cisco, viewed 9 December 2023 (https://www.cisco.com/c/dam/en_us/about/doing_business/trust-center/docs/cisco-cybersecurity-series-2021-cps.pdf?CCID=cc000742&DTID=esootr000875&OID=rptsc027438).

Commission of the European Communities 1988, *Europe 1992 – The Overall Challenge*, SEC (88)524 final, 13 April, viewed 5 December 2023 (<http://eci.gvt.edu/3813/1/3813.pdf>).

Commission Recommendation (EU) 2018/334 of 1 March 2018 on measures to effectively tackle illegal content online, Official Journal L 63, pp. 50–61.

Copenhagen Economics 2021, 'Study of the Value of Flexible Work for Local Delivery Couriers', November 2021, viewed 30 November 2023 (<https://copenhageneconomics.com/publication/study-of-the-value-of-flexible-work-for-local-delivery-couriers>).

Copenhagen Economics 2022, Main Developments in the Postal Sector (2017–2021), viewed 26 December 2023 (<https://copenhageneconomics.com/publication/main-developments-in-the-postal-sector-2017-2021>).

Council of Europe (no date), *The European Convention on Human Rights – The Convention in 1950*, viewed 31 December 2023 (<https://www.coe.int/en/web/human-rights-convention/the-convention-in-1950>).

Court of First Instance 2007, Judgment of the Court of First Instance (Grand Chamber), 17 September 2007, *Microsoft Corp. v Commission of the European Communities, Case T-201/04*, European Court Reports 2007 II-03601.

Court of Justice of the European Union 2022, *Judgment in Case C-401/19*, Press release no 65/22, 26 April, viewed 26 December 2023 (<https://curia.europa.eu/jcms/upload/docs/application/pdf/2022-04/cp220065en.pdf>).

Crémer, J, de Montjoye, Y & Schweitzer, H 2019, *Competition Policy for the Digital Era*, European Commission, Publications Office, viewed 16 December 2023 (<https://data.europa.eu/doi/10.2763/407537>).

Criddle, C 2021, 'Social Media Damages Teenagers' Mental Health, Report Says', BBC, 27 January, viewed 2 December 2023 (<https://www.bbc.com/news/technology-55826238>).

Curry, D (2023) *App Store Data (2023)*, Business of Apps, 15 May, viewed 3 December 2023 (<https://www.businessofapps.com/data/app-stores>).

Damodaran, A (2023), *Margins by Sector (US)*, January, viewed 16 December 2023 (https://pages.stern.nyu.edu/~adamodar/New_Home_Page/datafile/margin.html).

D'Anastasio, C 2022, 'Video Games Already Do What the Metaverse Just Promises', WIRED, 10 January, viewed 2 December 2023 (<https://www.wired.com/story/video-games-ahead-of-metaverse>).

Dawson, C 2020, 'Alibaba Cut China to Europe Delivery Times by 30%', ChannelX, 5 August, viewed 2 December 2023 (<https://channelx.world/2020/08/alibaba-cut-china-to-europe-delivery-times-by-30#:~:text=Alibaba%20Group%27s%20logistics%20arm%20Cainiao,an%20Europe%20by%20over%2030%25>).

Decentralizedweb 2016, *Decentralized Web Summit: Locking the Web Open*, 8–9 June, viewed 2 December 2023 (<https://2016.decentralizedweb.net>).

Decision (EU) 2022/2481 of the European Parliament and of the Council of 14 December 2022 establishing the Digital Decade Policy Programme 2030, Official Journal L 323, pp. 4–26.

Deepmind (no date), AlphaGo, viewed 12 January 2024 (<https://deepmind.google/technologies/alphago>).

Democracy Now 2007, 'Molly Ivins, 1944–2007: Legendary Texas Journalist Dies After Long Bout with Breast Cancer', 1 February, viewed 11 April 2024 (https://www.democracynow.org/2007/2/1/molly_ivins_1944_2007_legendary_texas).

Desjardins, J 2019, 'What Happens in an Internet Minute in 2019?', Visual Capitalist, viewed 2 December 2023 (<https://www.visualcapitalist.com/what-happens-in-an-internet-minute-in-2019>).

Diamond, P (no date), 'In Memoriam: Paul Samuelson', Econometric Society, viewed 11 April 2024 (<https://www.econometricsociety.org/uploads/Obituaries%20Past%20Presidents/samuelson.pdf>).

Directive 89/552/EEC of 3 October 1989 on the coordination of certain provisions laid down by Law, Regulation or Administrative Action in Member States concerning the pursuit of television broadcasting activities, Official Journal L 298, pp. 23–30.

Directive 93/13/EEC of 5 April 1993 on unfair terms in consumer contracts, Official Journal L 95, pp. 29–34.

Directive 95/46/EC of 24 October 1995 on the protection of individuals with regard to the processing of personal data and on the free movement of such data, Official Journal L 281, pp. 31–50.

Directive 98/48/EC of 20 July 1998 amending Directive 98/34/EC laying down a procedure for the provision of information in the field of technical standards and regulations, Official Journal L 217, pp. 18–26.

Directive 2000/31/EC of 8 June 2000 on certain legal aspects of information society services, in particular electronic commerce, in the Internal Market (Directive on electronic commerce), Official Journal L 178, pp. 1–16.

Directive 2002/58/EC of 12 July 2002 concerning the processing of personal data and the protection of privacy in the electronic communications sector (Directive on privacy and electronic communications), Official Journal L 201, pp. 37–47.

Directive 2005/29/EC of 11 May 2005 concerning unfair business-to-consumer commercial practices in the internal market, Official Journal L 149, pp. 22–39.

Directive 2006/123/EC of 12 December 2006 on services in the internal market, Official Journal L 376, pp. 36–68.

Directive 2008/6/EC of 20 February 2008 amending Directive 97/67/EC with regard to the full accomplishment of the internal market of Community postal services, Official Journal L 52, pp. 3–20.

Directive 2011/83/EU of 25 October 2011 on consumer rights, Official Journal L 304, pp. 64–88.

Directive 2011/93/EU of 13 December 2011 on combating the sexual abuse and sexual exploitation of children and child pornography, Official Journal L 335, pp. 1–14.

Directive 2013/11/EU of 21 May 2013 on alternative dispute resolution for consumer disputes, Official Journal L 165, pp. 63–79.

Directive 2013/36/EU of 26 June 2013 on access to the activity of credit institutions and the prudential supervision of credit institutions and investment firms, Official Journal L 176, pp. 338–436.

Directive (EU) 2017/541 of 15 March 2017 on combating terrorism, Official Journal L 88, pp. 6–21.

Directive (EU) 2018/1808 of 14 November 2018 concerning the provision of audio-visual media services in view of changing market realities, Official Journal L 303, pp. 69–92.

Directive (EU) 2019/770 of 20 May 2019 on certain aspects concerning contracts for the supply of digital content and digital services, Official Journal L 136, pp. 1–27.

Directive (EU) 2019/790 of 17 April 2019 on copyright and related rights in the Digital Single Market, Official Journal L 130, pp. 92–125.

Directive (EU) 2019/1024 of 20 June 2019 on open data and the re-use of public sector information, Official Journal L 172, pp. 56–83.

Directive (EU) 2019/2161 of 27 November 2019 as regards the better enforcement and modernisation of Union consumer protection rules, Official Journal L 328, pp. 7–28.

Directive (EU) 2020/1828 of 25 November 2020 on representative actions for the protection of the collective interests of consumers, Official Journal L 409, pp. 1–27.

Directive (EU) 2022/2555 of 14 December 2022 on measures for a high common level of cybersecurity across the Union (NIS 2 Directive), Official Journal L 333, pp. 80–152.

DuckDuckGo (no date), *Friends Don't Let Friends Get Tracked!*, DuckDuckGo, viewed 3 December 2023 (<https://duckduckgo.com/spread>).

Etsy (no date), *Seller Policy*, viewed 11 December 2023 (<https://www.etsy.com/legal/sellers>).

Eurofound 2023, *Living, Working and COVID-19 E-survey*, 7 November, viewed 11 January 2024 (<https://www.eurofound.europa.eu/en/data-catalogue/living-working-and-covid-19-e-survey>).

EuroHPC JU (no date), *Leading the Way in European Supercomputing*, The European High Performance Computing Joint Undertaking, viewed 7 January 2024 (https://eurohpc-ju.europa.eu/index_en).

European Audiovisual Observatory 2015, 'Territoriality and Its Impact on the Financing of Audiovisual Works', p. 26, viewed 4 December 2023 (<https://rm.coe.int/168078347f>).

European Commission a (no date), *High Performance Computing*, viewed 2 December 2023 (<https://digital-strategy.ec.europa.eu/en/policies/high-performance-computing>).

European Commission b (no date), *European Union Internet Forum (EUIF)*, viewed 11 December 2023 (https://home-affairs.ec.europa.eu/networks/european-union-internet-forum-euif_en).

European Commission c (no date), *The EU Code of Conduct on Countering Illegal Hate Speech Online*, viewed 11 December 2023 (https://commission.europa.eu/st-strategy-and-policy/policies/justice-and-fundamental-rights/combatting-discrimination/racism-and-xenophobia/eu-code-conduct-countering-illegal-hate-speech-online_en).

European Commission d (no date), *Memorandum of Understanding on the Sale of Counterfeit Goods on the Internet*, viewed 11 December 2023 (https://single-market-economy.ec.europa.eu/industry/strategy/intellectual-property/enforcement-intellectual-property-rights/memorandum-understanding-sale-counterfeit-goods-in-ternet_en).

European Commission e (no date), *Cases & Judgments (Information Communication Technologies ICT)*, viewed 12 December 2023 (https://competition-policy.ec.europa.eu/sectors/ict/cases_en).

European Commission f (no date), *Recovery and Resilience Scoreboard*, viewed 20 December 2023 (https://ec.europa.eu/economy_finance/recovery-and-resilience-scoreboard).

European Commission 1985, *Completing the Internal Market*, 14 June, COM(85) 310 final.

European Commission 1997, *Communication on A European Initiative in Electronic Commerce*, 16 April, COM(97) 157 final.

European Commission 1998, *Proposal for a Directive on certain legal aspects of electronic commerce in the internal market*, 18 November, COM(1998) 586 final.

European Commission 2004, *Issues Relating to Business and Consumer E-commerce*, Special Eurobarometer, European Commission, March 2004, viewed 10 December 2023 (<https://europa.eu/eurobarometer/surveys/detail/365>).

European Commission 2011, *Communication on A Coherent Framework for Building Trust in the Digital Single Market for E-commerce and Online Services*, 11 January, COM(2011) 942 final.

European Commission 2016a, *Staff Working Document on Online Platforms*, 25 May, SWD(2016) 172 final.

European Commission 2016b, *Communication on Online Platforms and the Digital Single Market Opportunities and Challenges for Europe*, 25 May, COM(2016) 288 final.

European Commission 2016c, *Communication on a European agenda for the collaborative economy*, 2 June, COM(2016) 356 final.

European Commission 2017a, *Proposal for a Regulation on Privacy and Electronic Communications*, 10 January, COM(2017) 10 final.

European Commission 2017b, *Communication on Tackling Illegal Content Online – towards an enhanced responsibility of online platforms*, 28 September, COM(2017) 555 final.

European Commission 2018a, *Communication on Artificial Intelligence for Europe*, 25 April, COM(2018) 237 final.

European Commission 2018b, *2018 Code of Practice on Disinformation*, viewed 11 December 2023 (<https://digital-strategy.ec.europa.eu/en/library/2018-code-practice-disinformation>).

European Commission 2019a, *Communication on European Green Deal*, 11 December, COM(2019) 640 final.

European Commission 2019b, *Policy and Investment Recommendations for Trustworthy Artificial Intelligence*, High-Level Group on Artificial Intelligence, 26 June, viewed 7 January 2024 (<https://digital-strategy.ec.europa.eu/en/library/policy-and-investment-recommendations-trustworthy-artificial-intelligence>).

European Commission 2020a, *Communication on a New Industrial Strategy for Europe*, 10 March, COM(2020) 102 final.

European Commission 2020b, *Communication on an SME Strategy for a sustainable and digital Europe*, 10 March, COM(2020) 103 final.

European Commission 2020c, *Communication on Shaping Europe's Digital Future*, 19 February, COM(2020) 67 final.

European Commission 2020d, *White Paper on Artificial Intelligence*, 19 February, COM(2020) 65 final.

European Commission 2020e, *Communication on a European Strategy for Data*, 19 February, COM(2020) 66 final.

European Commission 2020f, *Communication on Data Protection as a Pillar of Citizens' Empowerment and the EU's Approach to the Digital Transition – Two Years of Application of the General Data Protection Regulation*, 24 June, COM(2020) 264 final.

European Commission 2020g, *Communication on a Strategy to Strengthen the Application of the Charter of Fundamental Rights in the EU*, 2 December, COM(2020) 711 final.

European Commission 2020h, *Communication on the European Democracy Action Plan*, 3 December, COM(2020) 790 final.

European Commission 2020i, *Commission Staff Working Document: Assessment of the Code of Practice on Disinformation – Achievements and areas for further improvement*, 10 September, SWD(2020) 180 final.

European Commission 2020j, *Joint Communication – The EU's Cybersecurity Strategy for the Digital Decade*, 16 December, JOIN(2020) 18 final.

European Commission 2020k, *Coordinated Plan on Artificial Intelligence 2021 Review*, viewed 7 January 2024 (<https://digital-strategy.ec.europa.eu/en/library/coordinated-plan-artificial-intelligence-2021-review>).

European Commission 2020i, *The EU Toolbox for 5G Security*, 29 January, viewed 11 January 2024 (<https://digital-strategy.ec.europa.eu/en/library/eu-toolbox-5g-security>).

European Commission 2021a, *Eurobarometer: Europeans show support for digital principles*, 6 December, viewed 2 December 2023 (https://ec.europa.eu/commission/presscorner/detail/en/ip_21_6462).

European Commission 2021b, *The European Pillar of Social Rights Action Plan*, 4 March, viewed 30 November 2023 (<https://op.europa.eu/webpub/empl/european-pillar-of-social-rights/en>).

European Commission 2021c, *EU Strategic Dependencies and Capacities: Second Stage of In-depth Reviews*, 21 February, viewed 17 December 2023 (<https://ec.europa.eu/docsroom/documents/48878>).

European Commission 2021d, *Proposal for a Decision on Improving Working Conditions in Platform Work*, 9 December, COM(2021) 762 final.

European Commission 2021e, *Proposal for a Regulation Laying Down Harmonised Rules on Artificial Intelligence (Artificial Intelligence Act)*, 21 April, COM(2021) 206 final.

European Commission 2021f, *Communication on a New Funding Strategy to Finance NextGenerationEU*, 14 April 2021, COM(2021) 250 final.

European Commission 2021g, 'VAT: New E-commerce Rules in the EU Will Simplify Life for Traders and Introduce More Transparency for Consumers', Press release, 28 June, viewed 27 December 2023 (https://ec.europa.eu/commission/presscorner/detail/en/ip_21_3098).

European Commission 2021h, *Proposal for a Regulation on General Product Safety*, 30 June, COM(2021) 346 final.

European Commission 2021i, *Protecting Fundamental Rights in the Digital Age – 2021 Annual Report on the Application of the EU Charter of Fundamental Rights*, 10 December, COM(2021) 819 final.

European Commission 2021j, *Proposal for a Regulation on the Transparency and Targeting of Political Advertising*, 25 November, COM(2021) 731 final.

European Commission 2021k, *Proposal for a Regulation Establishing a Framework for a European Digital Identity*, 3 June, COM(2021) 281 final.

European Commission 2021l, *Towards a Next Generation Cloud for Europe*, viewed 7 January 2024 (<https://digital-strategy.ec.europa.eu/en/news/towards-next-generation-cloud-europe>).

European Commission 2021m, *Updating the 2020 New Industrial Strategy: Building a Stronger Single Market for Europe's Recovery*, 5 May, COM(2021) 350 final.

European Commission 2022a, 'EU and International Partners Put Forward a Declaration for the Future of the Internet', Press release, 22 April, viewed 2 December 2023 (https://ec.europa.eu/commission/presscorner/detail/en/IP_22_2695).

European Commission 2022b, *Declaration for the Future of Internet*, 25 April, viewed 2 December 2023 (<https://digital-strategy.ec.europa.eu/en/library/declaration-future-internet>).

European Commission 2022c, *European Declaration on Digital Rights and Principles*, 15 December, viewed 19 December 2023 (<https://digital-strategy.ec.europa.eu/en/library/european-declaration-digital-rights-and-principles>).

European Commission 2022d, *Proposal for a Regulation on Harmonised Rules on Fair Access to and Use of Data (Data Act)*, 22 February, COM(2022) 68 final.

European Commission 2022e, *SMEs and Cybercrime, Special Eurobarometer 496*, May 2022, viewed 20 December 2023 (<https://europa.eu/eurobarometer/surveys/detail/2280>).

European Commission 2022f, *Proposal for a Regulation on Data Collection and Sharing Relating to Short-term Accommodation Rental Services*, 7 November, COM(2022) 571 final.

European Commission 2022g, *Strengthened Code of Practice Against Disinformation*, viewed 30 December 2023 (<https://digital-strategy.ec.europa.eu/en/library/2022-strengthened-code-practice-disinformation>).

European Commission 2022h, *Proposal for a Regulation on Horizontal Cybersecurity Requirements for Products with Digital Elements*, 15 September, COM(2022) 454 final.

European Commission 2022i, *Proposal for a Regulation on the European Health Data Space*, 3 May, COM(2022) 197 final.

European Commission 2022j, *Communication on A Digital Decade for Children and Youth: The New European Strategy for a Better Internet for Kids (BIK+)*, 11 May, COM(2022) 212 final.

European Commission 2022k, *Proposal for a Regulation Laying Down Rules to Prevent and Combat Child Sexual Abuse*, 11 May, COM(2022) 209 final.

European Commission 2022l, *New liability rules on products and AI to protect consumers and foster innovation*, 28 September, viewed 4 January 2024 (https://ec.europa.eu/commission/presscorner/detail/en/ip_22_5807).

European Commission 2022m, *Commission Staff Working Document on Common European Data Spaces*, 23 February, SWD(2022) 45 final.

European Commission 2022n, *Proposal for a Directive on liability for defective products*, 28 September, COM(2022) 495 final.

European Commission 2022o, *Proposal for a Directive on adapting non-contractual civil liability rules to artificial intelligence (AI Liability Directive)*, 28 September, COM(2022) 496 final.

European Commission 2023a, *Communication on An EU Initiative on Web 4.0 and Virtual Worlds: A Head Start in the Next Technological Transition*, 11 July, COM(2023) 442 final.

European Commission 2023b, *DSA: Guidance on the Requirement to Publish User Numbers*, 31 January, viewed 18 December 2023 (<https://digital-strategy.ec.europa.eu/en/library/dsa-guidance-requirement-publish-user-numbers>).

European Commission 2023c, *The Digital Decade, Special Eurobarometer 532*, March 2023, viewed 20 December 2023 (<https://europa.eu/eurobarometer/surveys/detail/2959>).

European Commission 2023d, *Proposal for a Regulation Laying Down Measures to Strengthen Solidarity and Capacities in the Union to Detect, Prepare for and Respond to Cybersecurity Threats and Incidents*, 18 April, COM(2023) 209 final.

European Commission 2023e, *Hiroshima Process International Code of Conduct for Advanced AI Systems*, 30 October, viewed 4 January 2024 (<https://digital-strategy.ec.europa.eu/en/library/hiroshima-process-international-code-conduct-advanced-ai-systems#:~:text=The%20International%20Code%20of%20Conduct,models%20and%20generative%20AI%20systems>).

European Commission 2023f, 'Commission Welcomes G7 Leaders' Agreement on Guiding Principles and a Code of Conduct on Artificial Intelligence', Press release.

30 October, viewed 10 January 2024 (https://ec.europa.eu/commission/presscorner/detail/en/ip_23_5379).

European Commission 2023g, *2023 Report on the State of the Digital Decade*, 27 September, viewed 10 January 2024 (<https://digital-strategy.ec.europa.eu/en/library/2023-report-state-digital-decade>).

European Commission 2023h, *Results of the Exploratory Consultation on the Future of the Electronic Communications Sector and Its Infrastructure*, 10 October, viewed 10 January 2024 (<https://digital-strategy.ec.europa.eu/en/library/results-exploratory-consultation-future-electronic-communications-sector-and-its-infrastructure>).

European Commission 2023i, *Proposal for a Regulation Establishing a Framework for Ensuring a Secure and Sustainable Supply of Critical Raw Materials*, 16 March, COM(2023) 160 final.

European Commission 2023j, *Proposal for a Regulation on Establishing a Framework of Measures for Strengthening Europe's Net-zero Technology Products Manufacturing Ecosystem (Net Zero Industry Act)*, 16 March, COM(2023) 161 final.

European Commission and High Representative of the Union for Foreign Affairs and Security Policy 2023, *Joint Communication on European Economy Security Strategy*, 20 June, JOIN(2023) 20 final.

European Consumer Centres Network (no date), viewed 11 December 2023 (<https://www.eccnet.eu/european-consumer-centres-network>).

European Court of Human Rights (no date), *Questions and Answers*, viewed 31 December 2023 (https://www.echr.coe.int/documents/d/echr/questions_answers_en_g).

European Court of Justice 1985, Case C-352/85, paras 15 and 16.

European Court of Justice 2023, Case T-367/23, order ECLI:EU:T:2023:589, 27 September.

European Data Protection Board 2020, *Guidelines 05/2020 on Consent under Regulation 2016/679*, 4 May, viewed 10 December 2023 (https://edpb.europa.eu/sites/default/files/files/file1/edpb_guidelines_202005_consent_en.pdf).

European Parliament 2019, 'Understanding Algorithmic Decision-making: Opportunities and Challenges', European Parliamentary Research Service, March 2019, viewed 17 December 2023 ([https://www.europarl.europa.eu/RegData/etudes/STUD/2019/624261/EPRS_STU\(2019\)624261_EN.pdf](https://www.europarl.europa.eu/RegData/etudes/STUD/2019/624261/EPRS_STU(2019)624261_EN.pdf)).

European Parliament 2022, 'Completing the Single Market for Services', European Added Value Unit, April 2022, viewed 5 December 2023 ([https://www.europarl.europa.eu/RegData/etudes/BRIE/2022/730311/EPRS_BRI\(2022\)730311_EN.pdf](https://www.europarl.europa.eu/RegData/etudes/BRIE/2022/730311/EPRS_BRI(2022)730311_EN.pdf)).

European Parliament 2023, *Amendments Adopted by the European Parliament*, viewed 9 January 2024 (https://www.europarl.europa.eu/doceo/document/TA-9-2023-0236_EN.html).

Eurostat 2022a, *Digital Economy and Society Statistics – Households and Individuals*, Eurostat, viewed 2 December 2023 (https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Digital_economy_and_society_statistics_-_households_and_individuals).

Eurostat 2022b, *E-commerce Statistics for Individuals*, Eurostat, viewed 11 December 2023 (https://ec.europa.eu/eurostat/statistics-explained/index.php?title=E-commerce_statistics_for_individuals).

Eurostat 2023, *E-commerce Statistics for Individuals*, Eurostat, viewed 2 December 2023 (https://ec.europa.eu/eurostat/statistics-explained/index.php?title=E-commerce_statistics_for_individuals).

Feger, A 2023, 'Blockchain Technology: What it is, Benefits, and Its Cross-industry Applications', *Insider Intelligence*, 19 October, viewed 5 December 2023 (<https://www.insiderintelligence.com/insights/blockchain-technology-applications-use-cases>).

G7 2023, *G7 Hiroshima Leaders' Communiqué*, 20 May, viewed 9 January 2024 (https://www.g7hiroshima.go.jp/documents/pdf/Leaders_Communique_01_en.pdf).

Gaia-X (no date), *What We Are*, Gaia-X, viewed 7 January 2024 (<https://gaia-x.eu>).

Galazzo, R 2020, *Timeline from 1G to 5G: A Brief History on Cell Phones*, CENGN, 21 September, viewed 3 December 2023 (<https://www.cengn.ca/information-centre-innovation/timeline-from-1g-to-5g-a-brief-history-on-cell-phones>).

Gates, B 1999, *Business and the Speed of Thought*, Grand Central Publishing, March 1999.

Geeksforgeeks (no date), *Comparison Between Web 1.0, Web 2.0 and Web 3.0*, viewed 2 December 2023 (<https://www.geeksforgeeks.org/web-1-0-web-2-0-and-web-3-0-with-their-difference>).

Google 2023, YouTube Community Guidelines enforcement, Google, viewed 9 December 2023 (<https://transparencyreport.google.com/youtube-policy/removals>).

Gotev, G 2019, 'Trump Takes Aim at Vestager: "She Hates the US"', *Euractiv*, 19 June, viewed 2 December 2023 (<https://www.euractiv.com/section/global-europe/news/trump-takes-aim-at-vestager-she-hates-the-us>).

Goujard, C 2023a, 'Meta's Advertising Empire Faces Growing Hurdles in Europe', *Politico*, 5 July, viewed 10 December 2023 (<https://www.politico.eu/article/meta-advertising-empire-faces-growing-hurdles-in-europe>).

Goujard, C 2023b, 'TikTok hit with €345M fine for violating children's privacy', *Politico*, 15 September, viewed 11 April 2024 (<https://www.politico.eu/article/tiktok-fine-social-media-china-violate-children-privacy/#:~:text=The%20regulator%20slapped%20TikTok%20with,state%20subsidies%20of%20electric%20cars>).

Goujard, C & Kayali, L 2021, '5 Takeaways from Facebook Whistle-blower's EU Parliament Testimony', *Politico*, 8 November, viewed 2 December 2023 (<https://www.politico.eu/article/frances-haugen-brussels-european-parliament-eu-facebook-thierry-breton-google>).

Hadji-Vasilev, A 2022, *25 Online Dating Statistics & Trends in 2022*, Cloudwards, 25 June, viewed 2 December 2023 (<https://www.cloudwards.net/online-dating-statistics/#:~:text=It%20is%20estimated%20that%20there,sites%20to%20meet%20new%20people>).

Hakim, D & Rosenberg, M 2018, 'Data Firm Tied to Trump Campaign Talked Business With Russians', *The New York Times*, 17 March, viewed 9 December 2023 (<https://www.nytimes.com/2018/03/17/us/politics/cambridge-analytica-russia.html>).

Hanrahan, T & Fry, J 2004, 'If You Can't Innovate, Regulate', *Wall Street Journal*, 22 March, viewed 14 December 2023 (<https://www.wsj.com/articles/SB107962762768459204>).

Hansson, SO 2019, *Technology and Mathematics*, Springer Link, 26 April, viewed 2 December 2023 (<https://link.springer.com/article/10.1007/s13347-019-00348-9>).

Harari, Y-N 2015, *Sapiens: A Brief History of Humankind*, Vintage.

Harari, Y-N 2023, 'Yuval Noah Harari Argues that AI Has Hacked the Operating System of Human Civilisation', *The Economist*, 28 April, viewed 19 December 2023 (<https://www.economist.com/by-invitation/2023/04/28/yuval-noah-harari-argues-that-ai-has-hacked-the-operating-system-of-human-civilisation>).

Harbinja, E & Karagiannopoulos, V 2019, 'Web 3.0: The Decentralised Web Promises to Make the Internet Free Again', *The Conversation*, 11 March, viewed 2 December 2023 (<https://theconversation.com/web-3-0-the-decentralised-web-promises-to-make-the-internet-free-again-117100>).

2023 (<https://theconversation.com/web-3-0-the-decentralised-web-promises-to-make-the-internet-free-again-113139>).

Hardwick, J 2022, *How Search Engines Work*, Ahrefs blog, 1 September, viewed 2 December 2023 (<https://ahrefs.com/blog/how-do-search-engines-work/#how-search-engines-build-their-index>).

Hardy, Q 2016, 'The Web's Creator Looks to Reinvent It', *The New York Times*, 6 June, viewed 2 December 2023 (<https://www.nytimes.com/2016/06/08/technology/the-webs-creator-looks-to-reinvent-it.html>).

Helft, M 2011, 'Jobs Says Apple Made Mistakes With iPhone Data', *The New York Times*, 27 April, viewed 2 December 2023 (<https://www.nytimes.com/2011/04/28/technology/28apple.html>).

Hikkilä, M & Kayali, L 2020, 'Dangerous Toy Story: Study Finds Unsafe Items for Sale at Online Marketplaces', *Politico*, 17 July, viewed 26 December 2023 (<https://www.politico.eu/article/dangerous-toys-run-wild-in-online-marketplaces>).

Hockman, S (no date) *How to Buy Keywords On Google (Step-By-Step Guide)*, SEO Chatter, viewed 2 December 2023 (<https://seochatter.com/how-to-buy-keywords-on-google>).

Human Rights Watch 2018, 'Germany: Flawed Social Media Law', 14 February, viewed 6 December 2023 (<https://www.hrw.org/news/2018/02/14/germany-flawed-social-media-law>).

IETF (no date) *Introduction to the IETF*, viewed 2 December 2023 (<https://www.ietf.org/about/introduction>).

IFPI 2023, *Global Music Report 2023*, International Federation of the Phonographic Industries, pp. 3–6, viewed 4 December 2023 (https://ifpi-website-cms.s3.eu-west-2.amazonaws.com/GMR_2023_State_of_the_Industry_ee2ea600e2.pdf).

International Post Cooperation 2021, *Cross-border E-Commerce Shopper Survey*, February 2021, p. 11, viewed 4 December 2023 (<https://www.ipc.be/sector-data/e-commerce/cross-border-e-commerce-shopper-survey>).

Ipsos and Octopia 2022, *From Logistics to the Perfect Delivery Experience*, Octopia, viewed 29 November 2023 (<https://octopia.com/studies/from-logistics-to-the-perfect-delivery-experience>).

Jabr, F 2022, 'How Humans Evolved Supersize Brains', *Quantamagazine*, 15 October, viewed 2 December 2023 (<https://www.quantamagazine.org/how-humans-evolved-supersize-brains-20151110>).

Jee, C 2019, 'Germany's Synagogue Shooting Was Live-streamed on Twitch – But Almost No One Saw It', *MIT Technology Review*, 10 October, viewed 12 December 2023 (<https://www.technologyreview.com/2019/10/10/132662/germanys-synagogue-shooting-was-live-streamed-on-twitch-but-almost-no-one-saw-it>).

Jones, C & Tonetti, C 2020, Nonrivalry and the Economics of Data, *American Economic Review*, 110 (9): 2819–58, viewed 5 January 2024 (<https://pubs.aeaweb.org/doi/pdfplus/10.1257/aer.20191330>).

Kelly, M 2022, 'Donald Trump Tweets Incited Capitol Violence, Twitter Employee Tells January 6th Committee', *The Verge*, 12 July, viewed 2 December 2023 (<https://www.theverge.com/2022/7/12/23205723/donald-trump-twitter-tweets-january-6th-us-capitol-riot-stop-the-steal>).

Kennedy, JF 1963, Quotes Cosmos, viewed 17 December 2023 (<https://www.quotescosmos.com/quotes/John-F.-Kennedy-quote-106.html>).

Keumars, A-S 2023, 'How Google Altered the World', *The Week UK*, 11 September, viewed 2 December 2023 (<https://theweek.com/news/technology/962344/how-google-altered-the-world>).

Keynes, JM 1919, *The Economic Consequences of the Peace*. London: Macmillan & Co.

Kosseff, J 2019, *The Twenty-Six Words That Created the Internet*, Cornell University Press.

Kowalkiewicz, M 2019, 'How Did We Get Here? The Story of Algorithms', *Towards Data Science*, 11 October, viewed 17 December 2023 (<https://towardsdatascience.com/how-did-we-get-here-the-story-of-algorithms-9ee186ba2a07>).

Kravets, D 2011, 'U.N. Report Declares Internet Access a Human Right', *WIRED*, 3 June, viewed 2 December 2023 (<https://www.wired.com/2011/06/internet-a-human-right>).

Lacalle, E 2021, 'Metasearch Engines and How They Work in the Hospitality Industry', *Mews*, 29 April, viewed 2 December 2023 (<https://www.mews.com/en/blog/metasearch-engines>).

La Rue, F 2011, *Report of the Special Rapporteur on the Promotion and Protection of the Right to Freedom of Opinion and Expression*, Human Rights Council, United Nations General Assembly, 16 May, viewed 1 December 2023 (<https://digitallibrary.un.org/record/706200?ln=fr>).

Lattanzio, V 2010, '56,000 Photos Taken in Student-Laptop Scandal', *NBC Philadelphia*, 20 April, viewed 2 December 2023 (<https://www.nbcphiladelphia.com/news/local/webcamgate-56000-shots-taken-via-student-laptops/1895795/#:~:text=Lower%20Merion%20School%20District%20attorney,images%20appear%20to%20be%20inappropriate>).

Le Monde 2022, 'Elon Musk Reinstates Donald Trump's Twitter Account', 20 November, viewed 30 November 2023 (https://www.lemonde.fr/en/pixels/article/2022/11/20/elon-musk-reinstates-donald-trump-s-twitter-account_6004923_13.html).

Lee Myers, S & Frenkel, S 2023, 'In a Worldwide War of Words, Russia, China and Iran Back Hamas', *The New York Times*, viewed 4 January 2024 (<https://www.nytimes.com/2023/11/03/technology/israel-hamas-information-war.html?smid=nyt-core-ios-share&referringSource=articleShare>).

Levenson, M & Rubin, A 2022, 'Parents Sue TikTok, Saying Children Died After Viewing "Blackout Challenge"', *The New York Times*, 6 July, viewed 2 December 2023 (<https://www.nytimes.com/2022/07/06/technology/tiktok-blackout-challenge-deaths.html>).

Lomas, N 2022, 'How Europe Has Expanded Its Bid to Disrupt Big Tech', *TechCrunch+*, 15 March, viewed 2 December 2023 (<https://techcrunch.com/2022/03/25/how-europe-has-expanded-its-bid-to-disrupt-big-tech>).

Macklin, G 2019, 'The Christchurch Attacks: Livestream Terror in the Viral Video Age', Combating Terrorism Center, viewed 11 December 2023 (<https://ctc.westpoint.edu/christchurch-attacks-livestream-terror-viral-video-age>).

Market Research Telecast 2021, 'Team Wallraff: Culture of Fear, Dumping and Destruction of Returns on Amazon', 11 September, viewed 2 December 2023 (<https://marketresearchtelecast.com/team-wallraff-culture-of-fear-dumping-and-destruction-of-returns-on-amazon/152973>).

McCallum, S 2022, 'Clearview AI Fined in UK for Illegally Storing Facial Images', BBC News, 23 May, viewed 19 December 2023 (<https://www.bbc.com/news/technology-61550776>).

McCallum, S & Gerken, T 2022, 'Instagram Fined €405m Over Children's Data Privacy', BBC News, 5 September, viewed 10 December 2022 (<https://www.bbc.com/news/technology-62800884>).

McGee, P, Bradshaw, T & Espinoza, J 2022, 'Apple Moves to Open Up App Store as Tough EU Laws Loom', *The Financial Times*, 16 December, viewed 22 December 2023 (<https://www.ft.com/content/0c2d56f7-a402-45ea-8aa6-0e05e6260b68>).

McKinsey Global Institute 2022, *Securing Europe's Competitiveness: Addressing Its Technology Gap*, 22 September, viewed 11 January 2024 (<https://www.mckinsey.com/capabilities/strategy-and-corporate-finance/our-insights/securing-europes-competitiveness-addressing-its-technology-gap>).

McKluskey, M 2020, 'Inside the War on Fake Consumer Reviews', *Time*, 6 July, viewed 11 December 2023 (<https://time.com/6192933/fake-reviews-regulation>).

Meta a (no date), Privacy Policy, viewed 10 December 2023 (https://www.facebook.com/privacy/policy?section_id=18.2-PerformanceOfAContract).

Meta b (no date), Nudity and sexual activity: Publisher and Creator Guidelines, viewed 11 December 2023 (<https://www.facebook.com/business/help/725672454452774?id=208060977200861>).

Meta 2023, *Code of Practice on Disinformation – Report of Meta for the period 01 January 2023 to 30 June 2023*, Transparency Centre, viewed 30 December 2023 (<https://disinfocode.eu/reports-archive/?years=2023>).

Metz, C et al. 2023, 'Ego, Fear and Money: How the A.I. Fuse Was Lit', *The New York Times*, 3 December 2023, viewed 7 February 2024 (<https://www.nytimes.com/2023/12/03/technology/ai-openai-musk-page-altman.html?smid=nytcore-ios-share&referringSource=articleShare>).

Mitchell-Wolf, E 2022, 'TikTok is winning over Gen Z searchers', *Insider Intelligence*, 13 September, viewed 2 December 2023 (<https://www.insiderintelligence.com/content/tiktok-winning-over-gen-z-searchers>).

Mozilla (no date) *Who Controls the Internet?*, viewed 2 December 2023 (<https://internethealthreport.org/v01/decentralization>).

Murphy, H & Thomas, D 2023, 'Elon Musk's vision for free speech on X tested by Israel-Hamas war misinformation', *Financial Times*, 11 October, viewed 31 December 2023 (<https://www.ft.com/content/ca3e08ee-3167-464a-a1d3-677a59387c71>).

Murphy, M 2023, 'Emotive Deepfakes in Israel-Hamas War Further Cloud What's Real', Bloomberg, 31 October, viewed 4 January 2024 (<https://www.bloomberg.com/news/articles/2023-10-31/-emotive-deepfakes-in-israeli-war-further-cloud-what-s-real#xj4y7vzkg>).

National Institute for Transforming India 2020, *Data Empowerment and Protection Architecture*, 20 August, viewed 3 December 2023 (<https://www.niti.gov.in/sites/default/files/2020-09/DEPA-Book.pdf>).

Needleman, S 2023, 'How Generative AI Will Change the Way You Use the Web, From Search to Shopping', *The Wall Street Journal*, 17 October, viewed 2 December 2023 (<https://www.wsj.com/tech/ai/how-generative-ai-will-change-the-way-you-use-the-web-from-search-to-shopping-457c815f>).

Netto, I 2022, 'Part 3: How Mobile is Overtaking Desktop', *eye/o*, viewed 3 December 2023 (<https://resources.eye/o.com/part-3-mobile-overtaking-desktop>).

Newton, I 1675, Isaac Newton Letter to Robert Hooke, Historical Society of Pennsylvania, viewed 2 December 2023 (<https://discover.hsp.org/Record/dc-9792/Description#tabnav>).

Nick, S 2010, 'Google CEO: "We Know Where You Are. We Know Where You've Been. We Can More Or Less Know What You're Thinking About"', *Business Insider*, 4 October, viewed 3 December 2023 (<https://www.businessinsider.com/>).

eric-schmidt-we-know-where-you-are-we-know-where-youve-been-we-can-more-or-less-know-what-youre-thinking-about-2010-10?r=US&IR=T).

Norwich University 2020, *The Most Important Developments in Human History*, viewed 2 December 2023 (<https://online.norwich.edu/most-important-developments-human-history>).

Noyb 2023, 'Noyb files GDPR complaint against Meta over "Pay or OK"', 28 November, viewed 10 December 2023 (<https://noyb.eu/en/noyb-files-gdpr-complaint-against-meta-over-pay-or-okay>).

Ovide, S 2021, 'What's Behind the Fight Over Section 230', *The New York Times*, 25 March, viewed 9 December 2023 (<https://www.nytimes.com/2021/03/25/technology/section-230-explainer.html?smid=nytcore-ios-share&referringSource=articleShare>).

Oxford English Dictionary a (no date), *techlash*, viewed 30 November 2023 (https://www.oed.com/dictionary/techlash_n?tl=true#:~:text=a%20strong%20and%20widely%20negative,online%20access%20and%20content%2C%20etc).

Oxford English Dictionary b (no date), *gig economy*, viewed 18 December 2023 (<https://www.oed.com/view/Entry/90813047?redirectedFrom=gig+economy#eid>).

Oxford English Dictionary c (no date), *fair*, viewed 24 December 2023 (<https://www.oed.com/search/dictionary/?scope=Entries&q=fair&tl=true>).

Oxford Learner's Dictionaries (no date), *google*, viewed 2 December 2023 (<https://www.oxfordlearnersdictionaries.com/definition/english/google>).

Pal Singh, S 2021, 'Algorithms Already Rule Our World. Time to Make it Transparent and Fair', *The Economic Times, India Times*, 2 January 2021, viewed 17 December 2023 (<https://economictimes.indiatimes.com/small-biz/security-tech/technology/algorithms-already-rule-our-world-time-to-make-it-transparent-and-fair/articleshow/80069661.cms>).

Pariser, E 2011, *The Filter Bubble: What the Internet Is Hiding from You*, Penguin Press, New York.

Parker, E 2021, 'How the Internet Financially Kills Musicians and Other Artists', *The Washington Post*, 12 May, viewed 4 December 2023 (https://www.washingtonpost.com/opinions/how-the-internet-financially-kills-musicians-and-other-artists/2017/05/12/10772e56-0f15-11e7-ab07-07d9f521f6b5_story.html).

Perrigo, B 2021, 'How Facebook Forced a Reckoning by Shutting Down the Team That Put People Ahead of Profits', *Time*, 7 October, viewed 4 December 2023 (<https://time.com/6104899/facebook-reckoning-frances-haugen>).

Pitney Bowes (no date), *Pitney Bowes Parcel Shipping Index Confirms Extended Effects of COVID-19 Lockdowns on Chinese Shipping Through 2022*, Pitney Bowes, viewed 26 December 2023 (<https://www.pitneybowes.com/us/shipping-index.html>).

Politico 2018, *5G Explained: How a New Network of Technologies is Set to Transform Our World*, viewed 11 April 2024 (<https://www.politico.com/sponsor-content/2018/11/5g-explained>).

Pressenza 2022, 'Amazon Continues to Destroy New Goods and Returns', 9 November, viewed 11 December 2023 (<https://www.pressenza.com/2022/11/amazon-continues-to-destroy-new-goods-and-returns>).

Qian, I, Xiao, M, Mozur, P & Cardia, A (2021) 'Four Takeaways From a Times Investigation Into China's Expanding Surveillance State', *The New York Times*, 21 June, viewed 2 December 2023 (<https://www.nytimes.com/2022/06/21/world/asia/china-surveillance-investigation.html>).

Ravenscraft, E 2020, 'How to Spot – and Avoid – Dark Patterns on the Web', *Wired*, 29 July, viewed 4 January 2024 (<https://www.wired.com/story/how-to-spot-avoid-dark-patterns>).

Ravishankar, S 2017, 'My Rights End Where Yours Begin', Rediff.com, 6 March, viewed 31 December 2023 (<https://m.rediff.com/news/column/my-rights-end-where-yours-begin/20170306.htm#:~:text=A%20person%27s%20freedom%20ends%20where,Stuart%20Mill%20and%20Abraham%20Lincoln>).

Regulation (EU) 524/2013 of 21 May 2013 on online dispute resolution for consumer disputes, Official Journal L 165, pp. 1–12.

Regulation (EU) 2016/679 of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC, Official Journal L 119, pp. 1–88.

Regulation (EU) 2017/2394 of 12 December 2017 on cooperation between national authorities responsible for the enforcement of consumer protection laws, Official Journal L 345, pp. 1–26.

Regulation (EU) 2018/302 of 28 February 2018 on addressing unjustified geo-blocking and other forms of discrimination based on customers' nationality, place of residence or place of establishment within the internal market, Official Journal L 60I, pp. 1–15.

Regulation (EU) 2019/1020 of 20 June 2019 on market surveillance and compliance of products, Official Journal L 169, pp. 1–44.

Regulation (EU) 2019/1150 of 20 June 2019 on promoting fairness and transparency for business users of online intermediation services, Official Journal L 186, pp. 57–79.

Regulation (EU) 2021/784 of 29 April 2021 on addressing the dissemination of terrorist content online, Official Journal L 172, pp. 79–109.

Regulation (EU) 2022/868 of 3 June 2022 on European data governance, Official Journal L 152, pp. 1–44.

Regulation (EU) 2022/1925 of 14 September 2022 on Contestable and Fair Markets in the Digital Sector (Digital Markets Act), Official Journal L 265, pp. 1–66.

Regulation (EU) 2022/2065 of 19 October 2022 on a Single Market for Digital Services (Digital Services Act), Official Journal L 277, pp. 1–102.

Regulation (EU) 2023/988 of 10 May 2023 on general product safety, Official Journal L 135, pp. 1–51.

Regulation (EU) 2023/1781 of 13 September 2023 establishing a framework of measures for strengthening Europe's semiconductor ecosystem (Chips Act), Official Journal L 229, pp. 1–53.

Reich, R 2015, 'Big Tech Has Become Way Too Powerful', *The New York Times*, 18 September, viewed 2 December 2023 (<https://www.nytimes.com/2015/09/20/opinion/is-big-tech-too-powerful-ask-google.html>).

Reuters 2023, 'Meta Introduces Ad-free Plans for Instagram, Facebook in Europe', 30 October, viewed 10 December 2023 (<https://www.reuters.com/technology/meta-introduces-ad-free-plans-instagram-facebook-europe-2023-10-30>).

Rhalmi, M 2016, 'A Brief History of ICT', MyEnglishPages.com, 27 March, viewed 2 December 2023 (<https://www.myenglishpages.com/blog/a-brief-history-of-ict>).

Roose, K 2013, 'A.I. Poses "Risk of Extinction," Industry Leaders Warn', *The New York Times*, 30 May, viewed 19 December 2023 (<https://www.nytimes.com/2023/05/30/technology/ai-threat-warning.html>).

Roose, K 2023, 'How Do the White House's A.I. Commitments Stack Up?', *The New York Times*, 22 July, viewed 9 January 2024 (<https://www.nytimes.com/2023/07/22/technology/ai-regulation-white-house.html>).

Rose, F 2015, 'The Attention Economy 3.0', *The Milken Institute Review*, July, p. 42, viewed 4 December 2023 (https://www.researchgate.net/publication/280132192_The_Attention_Economy_30).

Rosenberg, M, Confessore, N & Cadwalladr, C 2018, 'How Trump Consultants Exploited the Facebook Data of Millions', *The New York Times*, 17 March, viewed 2 December 2023 (<https://www.nytimes.com/2018/03/17/us/politics/cambridge-analytica-trump-campaign.html>).

Sainato, M 2020, "I'm Not a Robot": Amazon Workers Condemn Unsafe, Gruelling Conditions at Warehouse', *The Guardian*, 5 February, viewed 2 December 2023 (<https://www.theguardian.com/technology/2020/feb/05/amazon-workers-protest-unsafe-grueling-conditions-warehouse>).

Schmidt, H (no date), 'Plattform-Ökonomie', viewed 2 December 2023 (<https://www.netzoekonom.de/plattform-oekonomie>).

Schmandt-Besserat, D 2004, 'The Evolution of Writing', The University of Texas at Austin, viewed 2 December 2023 (<https://sites.utexas.edu/dsb/tokens/the-evolution-of-writing>).

Schumpeter, J-A 1942, *Capitalism, Socialism and Democracy*, Routledge.

Scientific Computing World 2009, 'HPC Platform Used to Analyse Ancient Language', 27 February, viewed 2 December 2023 (<https://www.scientific-computing.com/news/hpc-platform-used-analyse-ancient-language>).

Seafarer 2018, *China's Tech Rush – How the Country's Strategic Technology Campaign is Shaping Markets*, White Paper, September 2018, viewed 2 December 2023 (<https://www.seafarerfunds.com/commentary/chinas-tech-rush>).

Semrush 2023, *Most Visited Websites by Traffic in the World for All Categories*, October 2023, viewed 2 December 2023 (<https://www.semrush.com/website/top>).

Single European Act 1987, Official Journal L 169, pp. 1–28.

Sky News 2022, 'Children Coerced into Most Severe Form of Sexual Abuse Online, Report Finds', 18 November, viewed 3 January 2024 (<https://news.sky.com/story/children-coerced-into-most-severe-form-of-sexual-abuse-online-report-finds-12749971>).

Smithsonian Institution 2022, *Human Characteristics: Brains*, viewed 2 December 2023 (<https://humanorigins.si.edu/human-characteristics/brains>).

Søndergaard, P 2011, Speech given at the Gartner Symposium/ITxpo in Orlando, Florida.

Statista a (no date), 'Volume of Data/Information Created, Captured, Copied, and Consumed Worldwide from 2010 to 2020, with Forecasts from 2021 to 2025', viewed 11 January 2024 (<https://www.statista.com/statistics/871513/worldwide-data-created>).

Statista b (no date), 'Number of Hours Spent Per Day Using Apps Worldwide from 2019 to 2022, by Country', viewed 29 November 2023 (<https://www.statista.com/statistics/1269704/time-spent-mobile-apps-worldwide>).

Statista c (no date), 'Private Investments in Artificial Intelligence (AI) in 2020, by Geographical Area', viewed 2 December 2023 (<https://www.statista.com/statistics/1226538/ai-private-investments-by-area>).

Statista d (no date), 'Dossier on Internet Advertising Worldwide', viewed 2 December 2023 (<https://www.statista.com/study/82777/internet-advertising-worldwide>).

Statista e (no date), 'Number of Internet Users Worldwide from 2005 to 2022', viewed 2 December 2023 (<https://www.statista.com/statistics/273018/number-of-internet-users-worldwide/#:~:text=As%20of%202022%2C%20the%20estimated%20percent%20of%20global%20population>).

Statista f (no date) 'Market Share of Leading Desktop Search Engines Worldwide from January 2015 to July 2023', viewed 2 December 2023 (<https://www.statista.com/statistics/216573/worldwide-market-share-of-search-engines>).

Statista g (no date), 'Percentage of Mobile Device Website Traffic Worldwide from 1st Quarter 2015 to 4th Quarter 2022', viewed 3 December 2023 (<https://www.statista.com/statistics/277125/share-of-website-traffic-coming-from-mobile-devices>).

Steel, E & Fowler G-A 2010, 'Facebook in Privacy Breach', *The Wall Street Journal*, 18 October, viewed 30 November 2023 (<https://www.wsj.com/articles/SB10001424052702304772804575558484075236968>).

Swartz, J 2014, 'Q&A with Stephen Hawking', *USA Today Tech*, 2 December, viewed 11 April 2024 (<https://eu.usatoday.com/story/tech/2014/12/02/stephen-hawking-intel-technology/18027597>).

Taplin, J 2017, *Move Fast and Break Things*, Pan Macmillan.

Tarasov, K 2020, 'What Really Happens to Amazon Returns', CNBC, 28 January, viewed 11 December 2023 (<https://www.cnbc.com/2022/01/28/amazon-returns-what-really-happens-to-them.html>).

Thatcher, M 1988, *Speech opening Single Market Campaign*, Lancaster House, 18 April, viewed 5 December 2023 (<https://www.margaretthatcher.org/document/107219>).

The Brussels Times 2023, 'Twitter Leaves EU Voluntary Code of Practice Against Disinformation', 27 May, viewed 28 December 2023 (<https://www.brusselstimes.com/524844/twitter-leaves-eu-voluntary-code-of-practice-against-disinformation>).

The Conversation 2019, '5 Milestones that Created the Internet, 50 Years After the First Network Message', 25 October, viewed 2 December 2023 (<https://theconversation.com/5-milestones-that-created-the-internet-50-years-after-the-first-network-message-123114>).

The Economist 2005a, 'Power at Last', 4 March, viewed 10 December 2023 (<https://www.economist.com/leaders/2005/03/31/power-at-last>).

The Economist 2005b, 'Wily, Wired Consumers', 12 May, viewed 10 December 2023 (<https://www.economist.com/news/2005/05/12/wily-wired-consumers>).

The Economist 2019a, 'The Internet of Things Will Bring the Internet's Business Model into the Rest of the World', 12 September, viewed 5 December (<https://www.economist.com/technology-quarterly/2019/09/12/the-internet-of-things-will-bring-the-internets-business-model-into-the-rest-of-the-world>).

The Economist 2019b, 'Keeping Children Safe on the Internet', 24 May, viewed 3 January 2024 (https://www.economist.com/leaders/2019/05/24/keeping-children-safe-on-the-internet?utm_medium=cpc.adword.pd&utm_source=google&ppccampaignID=18151738051&ppcadID=&utm_campaign=a.22brand_pmax&utm_content=conversion.direct-response.anonymous&gclsrc=aw.ds).

The Guardian 2018, 'Revealed: 50 Million Facebook Profiles Harvested for Cambridge Analytica in Major Data Breach', 17 March, viewed 2 December 2023 (<https://www.theguardian.com/news/2018/mar/17/cambridge-analytica-facebook-influence-us-election>).

The Guardian 2022, 'TikTok Moves to Ease Fears Amid Report Workers in China Accessed US Users' Data', 17 June, viewed 2 December 2023 (<https://www.theguardian.com/technology/2022/jun/17/tiktok-us-user-data-china-bytedance>).

The Guardian 2023, 'EU Warns Elon Musk After Twitter Found to Have Highest Rate of Disinformation', 26 September, viewed 28 December 2023 (<https://www.theguardian.com/technology/2023/sep/26/eu-warns-elon-musk-that-twitter-x-must-comply-with-fake-news-laws>).

Toggenburg, G 2021, 'The 16th of All EU-r Rights: The Right to Conduct a Business and How the Charter Contributes', *Eurac Research*, 12 January, viewed 31 December 2023 (<https://www.eurac.edu/en/blogs/eureka/the-16th-of-all-eu-r-rights-the-right-to-conduct-a-business-and-how-the-charter-c>).

Treaty of Rome 1957, Publications Office of the European Union, viewed 5 December 2023 (<https://eur-lex.europa.eu/EN/legal-content/summary/treaty-of-rome-eec.html>).

Treaty on European Union 2012, Official Journal C 326, 26 October, pp. 13–390.

UNESCO 2009, *Guide to Measuring Information and Communication Technologies (ICT) in Education*, UNESDOC Institute for Statistics, viewed 2 December 2023 (<https://unesdoc.unesco.org/ark:/48223/pf0000186547>).

United Nations a (no date), *Externalities – OECD*, United Nations Economic and Social Commission for Western Asia, viewed 4 December 2023 (<https://archive.escwa.org/sd-glossary/externalities-oecd>).

United Nations b (no date), *Global Issues – Democracy*, United Nations, viewed 30 December 2023 (<https://www.un.org/en/global-issues/democracy>).

United Nations 2023a, *Interim Report: Governing AI for Humanity*, AI Advisory Body, viewed 10 January 2024 (<https://www.un.org/en/ai-advisory-body>).

United Nations 2023b, *Summit of the Future*, viewed 10 January 2024 (<https://www.un.org/en/summit-of-the-future>).

University of Duisburg-Essen 2019, *Social Media as a Digital Agora for Political Arguments, Opinions, and Ideas?*, Conference organised by International Summer School, July 2019, viewed 1 December 2023 (<https://www.uni-due.de/sozialpsychoologie/summer-school>).

Valero, J 2015, 'Tirole: Brussels Must Level the Playing Field for Online Platforms', *Euractiv*, 15 October, viewed 12 December 2023 (<https://www.euractiv.com/section/digital/news/tirole-brussels-must-level-the-playing-field-for-online-platforms>).

Vanham, P 2019, 'A brief history of globalization', World Economic Forum, 17 January, viewed 2 December 2023 (<https://www.weforum.org/agenda/2019/01/how-globalization-4-0-fits-into-the-history-of-globalization>).

Vestager, M 2021, Speech by Executive Vice-President Vestager at the press conference on Europe's Digital Decade: 2030 Digital Targets, European Commission, 9 March, viewed 19 December 2023 (https://ec.europa.eu/commission/presscorner/detail/en/SPEECH_21_1092).

Vestager, M 2022, 'Ta da! 16 Hours, Lots of Sweets...', X, 23 April, viewed 27 December 2023 (<https://twitter.com/vestager/status/1517658709052297218>).

Voet, L. 2021, 'Trade Unions Take on Platform Companies in the Struggle for Decent Work', *Social Europe*, 7 October, viewed 2 December 2023 (<https://socialeurope.eu/trade-unions-take-on-platform-companies-in-the-struggle-for-decent-work>).

Von der Leyen, U 2019a, 'A Union that Strives for More: My Agenda for Europe', European Commission, viewed 30 November 2023 (https://commission.europa.eu/system/files/2020-04/political-guidelines-next-commission_en_0.pdf).

Von der Leyen, U 2019b, 'President Von Der Leyen's Mission Letter to Margrethe Vestager', European Commission, viewed 11 January 2024 (https://ec.europa.eu/commission/commissioners/2019-2024/vestager_en).

Von der Leyen, U 2023, '2023 State of the Union Address by President Von Der Leyen', European Commission, 13 September, viewed 11 January 2024 (https://ec.europa.eu/commission/presscorner/detail/%20en/speech_23_4426).

Weale, S 2022, 'Almost Half of Children in England Have Seen Harmful Content Online', *The Guardian*, 29 September, viewed 3 January 2024 (<https://amp.theguardian.com/2022/sep/29/children-harmful-content-online>).

rdian.com/society/2022/sep/29/almost-half-of-children-in-england-have-seen-harmful-content-online-survey).

Wetsman, N 2021, 'Facebook's Whistleblower Report Confirms What Researchers Have Known for Years', *The Verge*, 6 October, viewed 2 December 2023 (<https://www.theverge.com/2021/10/6/22712927/facebook-instagram-teen-mental-health-research>).

White House 2023a, *Voluntary AI Commitments*, 22 July, viewed 9 January 2024 (<https://www.whitehouse.gov/wp-content/uploads/2023/09/Voluntary-AI-Commitments-September-2023.pdf>).

White House 2023b, *Executive Order on the Safe, Secure, and Trustworthy Development and Use of Artificial Intelligence*, 30 October, viewed 9 January 2024 (<https://www.whitehouse.gov/briefing-room/presidential-actions/2023/10/30/executive-order-on-the-safe-secure-and-trustworthy-development-and-use-of-artificial-intelligence>).

Wikipedia a (no date), *Generation Z*, viewed 2 December 2023 (https://en.wikipedia.org/wiki/generation_z).

Wikipedia b (no date), *List of Public Corporations by Market Capitalization*, viewed 11 January 2024 (https://en.wikipedia.org/wiki/List_of_public_corporations_by_market_capitalization).

Wikipedia c (no date), *History of Statistics*, viewed 2 December 2023 (https://en.wikipedia.org/wiki/History_of_statistics).

Wikipedia d (no date), *Search Engine*, viewed 2 December 2023 (https://en.wikipedia.org/wiki/Search_engine).

Wikipedia e (no date), *Mobile Web*, viewed 3 December 2023 (https://en.wikipedia.org/wiki/Mobile_web).

Wikipedia f (no date), *Natural Monopoly*, viewed 21 December 2023 (https://en.wikipedia.org/wiki/Natural_monopoly).

Wilman, F (2022), 'Between Preservation and Clarification: The Evolution of the DSA's Liability Rules in Light of the CJEU's Case Law', *Verfassungsblog*, viewed 29 March 2024 (<https://verfassungsblog.de/dsa-preservation-clarification>).

Woodwarth, M 2023, 'How Do Search Engines Work in 2023? What You Need to Know', *Search Logistics*, 11 September, viewed 2 December 2023 (<https://www.searchlogistics.com/learn/seo/how-search-engines-work>).

Wooldridge, A 2013, 'The Coming Tech-lash', *The Economist*, 18 November, viewed 2 December 2023 (<https://www.economist.com/news/2013/11/18/the-coming-tech-lash>).

World Bank 2023, 'GDP (current US\$) – European Union', viewed 28 November 2023 (<https://data.worldbank.org/indicator/NY.GDP.MKTP.CD?locations=EU>).

World Economic Forum 2021a, *Shaping the Future of Digital Economy and New Value Creation*, viewed 2 December 2023 (<https://www.weforum.org/platforms/shaping-the-future-of-digital-economy-and-new-value-creation>).

World Economic Forum 2021b, *Globalisation 4.0*, viewed 2 December 2023 (<https://www.weforum.org/focus/globalization-4-0>).

Wunderman Thompson 2022, *The Future Shopper Report 2022*, viewed 2 December 2023 (<https://www.wundermantompson.com/insight/the-future-shopper-2022>).

Yao, D (2022) '25 Years Ago Today: How Deep Blue Vs. Kasparov Changed AI Forever', *AI Business*, 11 May, viewed 1 December 2023 (<https://aibusines.com/ml/25-years-ago-today-how-deep-blue-vs-kasparov-changed-ai-forever#close-modal>).

Yun Chee, F 2023, 'Amazon Makes First Big Tech Challenge to EU Online Content Rules', *Reuters*, 11 July, viewed 29 December 2023 (<https://www.reuters.com/tech>).

nology/amazon-challenges-eu-online-content-rules-says-unfairly-singled-out-2023-07-11).

Zuboff, S 2019, *The Age of Surveillance Capitalism: The Fight for a Human Future at the New Frontier of Power*, Faber and Faber; 1st edition.