

## Digital Single Market

# Photonics - what is it about?

Team responsible

[DG CONNECT](#) [1]

Photonics is the science and technology of light. Photonics deals with generating, guiding, manipulating, amplifying and detecting light. Photonics is behind many of the innovations which have transformed the way we live in the last few years.

Lasers, optical fibres, the cameras in our phones, LED lighting in our cars, homes, computer screens & TVs and optical tweezers are just a few examples of how photonics have changed technology and affected our daily lives. Given the potential which [photonics](#) [2] has to enhance innovation across several industries, it has been recognized as one of Europe's [Key Enabling Technologies \(KETs\)](#) [3] of the 21st Century.

The European Technology Platform [Photonics21](#) [4] represents photonics research priorities at the European level. It aims to develop a common approach between European industry, science and policy.

Published:

26 November 2013

Last update:

17 August 2017

## You may be interested in

- [Users' rights](#) [5]
- [Open Data](#) [6]
- [2012 promotional campaign](#) [7]
- [Roaming Tariffs](#) [8]
- [EU rules on 116](#) [9]
- [Media Freedom and Pluralism](#) [10]
- [EU's spectrum policy framework](#) [11]
- [The Media Pluralism Monitor \(MPM\)](#) [12]
- [Radio Spectrum Committee \(RSC\)](#) [13]
- [Radio Spectrum Policy Group \(RSPG\)](#) [14]
- [Easier access to radio spectrum: the EU's electronic communications framework](#) [15]
- [Managing and monitoring the EU's radio spectrum](#) [16]

- [EU Coordination on Radio Spectrum](#) [17]
- [Audiovisual Media Services Directive \(AVMSD\)](#) [18]
- [General Principles](#) [19]
- [How to get involved in EU Radio Spectrum Policy](#) [20]
- [What is Radio Spectrum Policy?](#) [21]
- [Promotion and Distribution of European Works](#) [22]
- [Connecting Europe Facility](#) [23]
- [Protection of minors | AVMSD](#) [24]
- [Open data portals](#) [25]
- [AVMSD - Application and Implementation](#) [26]
- [Contact Committee](#) [27]
- [ERGA - Audiovisual Regulators](#) [28]
- [AVMSD - Infringement procedures](#) [29]
- [AVMSD - Application Reports](#) [30]
- [AVMSD - Reports on European works](#) [31]
- [Protection of film heritage](#) [32]
- [Radio Spectrum Policy Programme: the roadmap for a wireless Europe](#) [33]
- [Content distribution](#) [34]
- [The international dimension of audiovisual policy](#) [35]
- [European legislation on re-use of public sector information](#) [36]
- [Radio Spectrum: coordination, harmonisation and information](#) [37]
- [Safer Internet Day \(SID\)](#) [38]
- [Smart Cities](#) [39]
- [Improving access to Radio Spectrum through Market Mechanisms](#) [40]
- [WAPECS - a flexible approach to spectrum use](#) [41]
- [Spectrum needs and spectrum availability](#) [42]
- [Reorganising the EU's spectrum](#) [43]
- [Delivering the digital dividend](#) [44]
- [Electronic access: anytime, anywhere](#) [45]
- [Phoning from the flight](#) [46]
- [Staying in touch while on board ship](#) [47]
- [Electronics](#) [48]
- [Going mobile with satellite services](#) [49]
- [A European Strategy to deliver a Better Internet for our Children](#) [50]
- [Boosting broadband on the move](#) [51]
- [Promoting the shared use of Europe's radio spectrum](#) [52]
- [Short range, mass market](#) [53]
- [Public use of spectrum](#) [54]
- [Radio controlled road use](#) [55]
- [Cars that communicate](#) [56]
- [Digital Champions](#) [57]
- [A radar for your car](#) [58]
- [Mandating Europe's spectrum experts](#) [59]
- [The National Role in Radio Spectrum Policy](#) [60]
- [Implementation](#) [61]
- [WRC - setting the world's radio spectrum rules](#) [62]
- [Digital Champions meetings](#) [63]
- [Useful Links - Spectrum](#) [64]
- [EU Actions on 112](#) [65]
- [112 in your country](#) [66]
- [Web Accessibility](#) [67]

- [Research and innovation for ageing well with ICT](#) [68]
- [EU-funded research into robotics for ageing well](#) [69]
- [Digitisation & Digital Preservation](#) [70]
- [Digitisation & Digital Preservation](#) [70]
- [Member States expert group on digitisation & digital preservation](#) [71]
- [From a Safer Internet to a Better Internet for Kids](#) [72]
- [Photonics and our daily life](#) [73]
- [Photonics Research Stories](#) [74]
- [Industrial innovation and cooperation at the European level](#) [75]
- [Telecoms Rules](#) [76]
- [AVMSD - List of Major Events](#) [77]
- [Transformation of Health and Care in the Digital Single Market](#) [78]
- [Research and innovation in digital solutions for health, wellbeing and ageing](#) [79]
- [Research and innovation in digital solutions for health, wellbeing and ageing](#) [79]
- [Research and innovation in digital solutions for health, wellbeing and ageing](#) [79]
- [Managing Health Data](#) [80]
- [Telemedicine](#) [81]
- [Virtual Physiological Human](#) [82]
- [Consultation procedures](#) [83]
- [112 Promotional material](#) [84]
- [Going Local Initiative](#) [85]
- [Digital scoreboard](#) [86]
- [Create Graphs](#) [87]
- [Countries' performance in digitisation](#) [88]
- [Download data](#) [89]
- [National Regulatory Authorities](#) [90]
- [National Regulatory Authorities](#) [90]
- [Wireless Europe](#) [91]
- [The H2020 Future Internet Forum \(FIF\)](#) [92]
- [Broadband Europe](#) [93]
- [Collective Awareness Platforms for Sustainability and Social Innovation](#) [94]
- [Startup Europe](#) [95]
- [Startup Europe](#) [95]
- [Creating a Better Internet for Kids](#) [96]
- [ICT and Art - the STARTS initiative](#) [97]
- [Implementation of the Public Sector Information Directive](#) [98]
- [Implementation of the Public Sector Information Directive](#) [98]
- [Self-regulation for a Better Internet for Kids](#) [99]
- [Trust services](#) [100]
- [Open Internet](#) [101]
- [Consultations](#) [102]
- [Future & Emerging Technologies \(FET\)](#) [103]
- [FET Proactive](#) [104]
- [FET Flagships](#) [105]
- [FET Flagships](#) [105]
- [Convergence](#) [106]
- [Women in Digital](#) [107]
- [The Digital Skills and Jobs Coalition](#) [108]
- [Roaming](#) [109]
- [Roaming](#) [109]
- [Roaming](#) [109]

- [Non-legislative measures to facilitate re-use](#) [110]
- [112](#) [111]
- [EU rules on 112](#) [112]
- [Kids' Corner](#) [113]
- [Girls in ICT Day](#) [114]
- [Photonics – what is it about?](#) [115]
- [Digital privacy](#) [116]
- [2013 promotional campaign](#) [117]
- [Cybersecurity](#) [118]
- [The Open Innovation Strategy and Policy Group](#) [119]
- [Open Innovation 2.0](#) [120]
- [eBooks](#) [121]
- [Europeana - a European Cultural Heritage Platform for all](#) [122]
- [Transatlantic Cooperation](#) [123]
- [Integrated care: health and social care become one](#) [124]
- [e-Identification](#) [125]
- [Trust Services and eID](#) [126]
- [Broadband in Member States](#) [127]
- [The Active and Assisted Living Joint Programme \(AAL JP\)](#) [128]
- [Connected TV](#) [129]
- [Consultations on media issues](#) [130]
- [The top-level domain .eu](#) [131]
- [Open and Participative Innovation](#) [132]
- [Investing in network technologies](#) [133]
- [Connected TV - background reading](#) [134]
- [116 in your country](#) [135]
- [Open Science](#) [136]
- [Open Access to scientific information](#) [137]
- [Global Systems Science](#) [138]
- [Electronics Strategy for Europe](#) [139]
- [ICT Innovation Vouchers Scheme for Regions](#) [140]
- [Open standards](#) [141]
- [International Cooperation on 5G](#) [142]
- [Towards 5G](#) [143]
- [Cloud Select Industry Groups](#) [144]
- [Cloud Select Industry Group on Service Level Agreements](#) [145]
- [Cloud Select Industry Group on Code of Conduct](#) [146]
- [Time to ECSEL](#) [147]
- [Cloud Standards Coordination \(ETSI\)](#) [148]
- [Cyber-Physical Systems](#) [149]
- [Advanced Computing](#) [150]
- [Smart Manufacturing](#) [151]
- [The Factories of the Future](#) [152]
- [Q&A for entrepreneurs - support](#) [153]
- [eHealth Experts](#) [154]
- [ICT Innovation](#) [155]
- [The Internet of Things](#) [156]
- [ICT and Standardisation](#) [157]
- [The Electronics strategy in action](#) [158]
- [Completed projects](#) [159]
- [Broadband for all via satellite](#) [160]

- [Innovation Procurement](#) [161]
- [Interoperability & standardisation: connecting eHealth services](#) [162]
- [Research and Innovation in eHealth](#) [163]
- [Research and Innovation in eHealth](#) [163]
- [Vision and Innovation of advanced computing](#) [164]
- [Promote capital investment in production in Europe](#) [165]
- [Smart Specialisation, dialogue with Member States and Regions](#) [166]
- [Successful research projects in Advanced computing](#) [167]
- [Embedded Systems](#) [168]
- [Monitoring and Control](#) [169]
- [Access to design and silicon, developing skills](#) [170]
- [System-of-Systems](#) [171]
- [Future and Emerging Technologies projects portfolio](#) [172]
- [Lighting the Future](#) [173]
- [Organic and Large Area Electronics](#) [174]
- [Opening Up Education](#) [175]
- [Coding - the 21st century skill](#) [176]
- [Research and Innovation for ICT in education](#) [177]
- [Financing Innovation](#) [178]
- [Open Innovation Group Members](#) [179]
- [Rolling plan for ICT standardisation](#) [180]
- [Identification of ICT specifications](#) [181]
- [Funding for digital skills](#) [182]
- [OISPG Activities](#) [183]
- [ICT Innovation in Horizon 2020](#) [184]
- [An Electronics Roadmap for Europe](#) [185]
- [An overview of eHealth studies](#) [186]
- [Public Procurement of Innovative Solutions](#) [187]
- [Pre-Commercial Procurement](#) [188]
- [Broadband investment guide](#) [189]
- [European Digital Forum](#) [190]
- [Big Data](#) [191]
- [Elements of the European data economy strategy](#) [192]
- [Broadband strategy & policy](#) [193]
- [Financing the broadband project](#) [194]
- [Broadband Technologies](#) [195]
- [Startup Europe networks](#) [196]
- [Startup Europe networks](#) [196]
- [Startup Europe: building the ecosystem](#) [197]
- [Startup Europe: building the ecosystem](#) [197]
- [Language Technologies](#) [198]
- [Americas](#) [199]
- [International Organisations and Fora](#) [200]
- [Regional and Bilateral Relations](#) [201]
- [Language Technologies and Big Data](#) [202]
- [Research & Standards](#) [203]
- [EU rules to reduce cost of high-speed broadband deployment](#) [204]
- [Broadband value chain, actors and business models](#) [205]
- [EU funded projects](#) [206]
- [Global internet and telecommunications](#) [207]
- [Carrier model options](#) [208]

- [Automated Translation](#) [209]
- [Media Freedom Projects](#) [210]
- [mHealth](#) [211]
- [Startup success stories](#) [212]
- [Open Disruptive Innovation](#) [213]
- [SME Instrument | Frequently Asked Questions](#) [214]
- [What can big data do for you ?](#) [215]
- [The Global Internet Policy Observatory \(GIPO\)](#) [216]
- [EU Code Week - Bringing ideas to life](#) [217]
- [National Coalitions](#) [218]
- [e-Infrastructures](#) [219]
- [Access to existing physical infrastructure](#) [220]
- [Coordination of civil works](#) [221]
- [Permit granting | Broadband Europe](#) [222]
- [In-building infrastructure](#) [223]
- [ICT innovation vouchers in action](#) [224]
- [Get Involved in the Digital Skills and Jobs Coalition](#) [225]
- [Big Data Value Public-Private Partnership](#) [226]
- [Open government](#) [227]
- [ICT-enabled public sector innovation in Horizon 2020](#) [228]
- [High-Performance Computing](#) [229]
- [Copyright](#) [230]
- [Horizon Prizes](#) [231]
- [eGovernment & Digital Public Services](#) [232]
- [Robotics](#) [233]
- [Telecom Laws](#) [234]
- [Cloud computing](#) [235]
- [Strengthening trust and security](#) [236]
- [Supporting media and digital culture](#) [237]
- [Digital cultural heritage](#) [238]
- [Digital cultural heritage](#) [238]
- [European broadband mapping](#) [239]
- [Broadband action plan](#) [240]
- [Defining your broadband plan](#) [241]
- [Four key strategic choices](#) [242]
- [Infrastructure and service-based competition](#) [243]
- [Network and Topology](#) [244]
- [Actors in the broadband value chain](#) [245]
- [Basic business models](#) [246]
- [Main financing tools](#) [247]
- [Financing of public-private joint ventures and private-run deployments](#) [248]
- [State aid](#) [249]
- [Investment models](#) [250]
- [Robotics Public-Private Partnership in Horizon 2020](#) [251]
- [Emergency and support lines](#) [252]
- [Shaping the Digital Single Market](#) [253]
- [Creating a digital society](#) [254]
- [Advancing in digital science and infrastructures](#) [255]
- [Tech All Stars](#) [256]
- [The Digital Economy and Society Index \(DESI\)](#) [257]
- [EU Member States](#) [258]

- [Digital Skills & Jobs](#) [259]
- [Citizen science](#) [260]
- [The Innovation Radar](#) [261]
- [Our Studies and Open Datasets](#) [262]
- [The MEDIA sub-programme of Creative Europe](#) [263]
- [The Alliance for Internet of Things Innovation \(AIOTI\)](#) [264]
- [Better access for consumers and business to online goods](#) [265]
- [Right environment for digital networks and services](#) [266]
- [Economy & Society](#) [267]
- [Human Capital and Digital Skills](#) [268]
- [Use of Internet and Online Activities](#) [269]
- [Broadband Connectivity](#) [270]
- [Digital Public Services](#) [271]
- [Research & Development in ICT](#) [272]
- [Integration of Digital Technology by Enterprises](#) [273]
- [The European Film Forum](#) [274]
- [The European Film Forum](#) [274]
- [The Satellite and Cable Directive](#) [275]
- [The EU copyright legislation](#) [276]
- [Media Literacy](#) [277]
- [High Performance Computing Contractual Public-Private Partnership \(HPC cPPP\)](#) [278]
- [Online Platforms](#) [279]
- [Geo-blocking](#) [280]
- [e-Commerce Directive](#) [281]
- [e-Commerce Directive](#) [281]
- [e-Commerce Directive](#) [281]
- [EU funded societal challenges projects | From Lab to market](#) [282]
- [EU funded societal challenges projects | From Lab to market](#) [282]
- [EU funded societal challenges projects | From Lab to market](#) [282]
- [EU funded societal challenges projects | From Lab to market](#) [282]
- [Cybersecurity industry](#) [283]
- [Digital Inclusion for a better EU society](#) [284]
- [European Broadband Awards](#) [285]
- [Broadband Competence Offices Network](#) [286]
- [Broadband Competence Offices Network](#) [286]
- [The Fourth Industrial Revolution](#) [287]
- [The European Cloud Initiative](#) [288]
- [European eGovernment Action Plan 2016-2020](#) [289]
- [eGovernment Action Plan](#) [290]
- [Standards](#) [291]
- [Standards](#) [291]
- [Financial guarantee facility for the cultural and creative sector](#) [292]
- [Financial guarantee facility for the cultural and creative sector](#) [292]
- [Research & Innovation in Internet of Things](#) [293]
- [The GÉANT Project | A European Success Story](#) [294]
- [25 years of MEDIA Programme](#) [295]
- [Quantum technologies](#) [296]
- [Revision of the Audiovisual Media Services Directive \(AVMSD\)](#) [297]
- [Boosting e-commerce in the EU](#) [298]
- [eIDAS Observatory](#) [299]
- [EU trust mark](#) [300]

- [Privacy Code of Conduct on mobile health apps](#) [301]
- [The Directive on security of network and information systems \(NIS Directive\)](#) [302]
- [Europe's Digital Progress Report](#) [303]
- [Connectivity for a European Gigabit Society](#) [304]
- [Modernisation of the EU copyright rules](#) [305]
- [5G for Europe Action Plan](#) [306]
- [Next Generation Internet initiative](#) [307]
- [International cooperation on cloud computing](#) [308]
- [Coordination of European, national & regional initiatives](#) [309]
- [Pan-European network of Digital Innovation Hubs \(DIHs\)](#) [310]
- [Industrial platforms and large scale pilots](#) [311]
- [WiFi4EU | Free Wi-Fi for Europeans](#) [312]
- [WiFi4EU | Free Wi-Fi for Europeans](#) [312]
- [Platform-to-business trading practices](#) [313]
- [Illegal content on online platforms](#) [314]
- [European Open Science Cloud](#) [315]
- [Multimedia Actions](#) [316]
- [Building a European data economy](#) [317]
- [Alliance to better protect minors online](#) [318]
- [Cooperative, connected and automated mobility in Europe](#) [319]
- [Digital skills initiatives](#) [320]
- [Pledges for action](#) [321]
- [Become a member of the Digital Skills and Jobs Coalition](#) [322]
- [Social media and networks, innovation and policy](#) [323]
- [Question and Answers | Roaming](#) [324]
- [Roaming charges | What has the European Commission done so far?](#) [325]
- [Roaming charges | What has the European Commission done so far?](#) [325]
- [Roaming charges | What has the European Commission done so far?](#) [325]
- [Cross-border portability of online content services](#) [326]
- [Practical Information for ICT Proposers' Day 2017](#) [327]
- [Foreign Policy](#) [328]
- [Expert Group on Digital Cultural Heritage and Europeana \(DCHE\)](#) [329]
- [Expert Group on Digital Cultural Heritage and Europeana \(DCHE\)](#) [329]
- [Collective rights management directive](#) [330]
- [Graphene Flagship](#) [331]
- [The EU cybersecurity certification framework](#) [332]
- [Free flow of non-personal data](#) [333]
- [Free flow of non-personal data](#) [333]
- [Fake news](#) [334]
- [Digital Opportunity traineeships: boosting digital skills on the job](#) [335]
- [The Governing Board of the Digital Skills and Jobs Coalition](#) [336]
- [Questions and Answers on WiFi4EU](#) [337]
- [Pillars of the Digitising European Industry initiative](#) [338]

Share this page

---

**Source URL:** <https://ec.europa.eu/digital-single-market/en/policies/photonics>

#### Links

[1] [https://ec.europa.eu/info/departments/communications-networks-content-and-technology\\_en](https://ec.europa.eu/info/departments/communications-networks-content-and-technology_en)

[2] <http://cordis.europa.eu/fp7/ict/photonics/>

[3] [http://ec.europa.eu/growth/industry/key-enabling-technologies/index\\_en.htm](http://ec.europa.eu/growth/industry/key-enabling-technologies/index_en.htm)



[4] <http://www.photonics21.org/>

[5] <https://ec.europa.eu/digital-single-market/en/users-rights>

[6] <https://ec.europa.eu/digital-single-market/en/open-data>

[7] <https://ec.europa.eu/digital-single-market/en/2012-promotional-campaign>

[8] <https://ec.europa.eu/digital-single-market/en/roaming-tariffs>

[9] <https://ec.europa.eu/digital-single-market/en/content/eu-rules-116>

[10] <https://ec.europa.eu/digital-single-market/en/policies/media-freedom-and-pluralism>

[11] <https://ec.europa.eu/digital-single-market/en/content/eus-spectrum-policy-framework>

[12] <https://ec.europa.eu/digital-single-market/en/media-pluralism-monitor-mpm>

[13] <https://ec.europa.eu/digital-single-market/en/radio-spectrum-committee-rsc>

[14] <https://ec.europa.eu/digital-single-market/en/content/radio-spectrum-policy-group-rspg>

[15] <https://ec.europa.eu/digital-single-market/en/content/easier-access-radio-spectrum-eus-electronic-communications-framework>

[16] <https://ec.europa.eu/digital-single-market/en/content/managing-and-monitoring-eus-radio-spectrum>

[17] <https://ec.europa.eu/digital-single-market/en/eu-coordination-radio-spectrum>

[18] <https://ec.europa.eu/digital-single-market/en/policies/audiovisual-media-services>

[19] <https://ec.europa.eu/digital-single-market/en/general-principles>

[20] <https://ec.europa.eu/digital-single-market/en/how-get-involved-eu-radio-spectrum-policy>

[21] <https://ec.europa.eu/digital-single-market/en/what-radio-spectrum-policy>

[22] <https://ec.europa.eu/digital-single-market/en/promotion-and-distribution-european-works>

[23] <https://ec.europa.eu/digital-single-market/en/connecting-europe-facility>

[24] <https://ec.europa.eu/digital-single-market/en/protection-minors-avmsd>

[25] <https://ec.europa.eu/digital-single-market/en/policies/open-data>

[26] <https://ec.europa.eu/digital-single-market/en/avmsd-application-and-implementation>

[27] <https://ec.europa.eu/digital-single-market/en/avmsd-contact-committee>

[28] <https://ec.europa.eu/digital-single-market/en/audiovisual-regulators>

[29] <https://ec.europa.eu/digital-single-market/en/avmsd-infringement-procedures>

[30] <https://ec.europa.eu/digital-single-market/en/avmsd-application-reports>

[31] <https://ec.europa.eu/digital-single-market/en/avmsd-reports-european-works>

[32] <https://ec.europa.eu/digital-single-market/en/film-heritage>

[33] <https://ec.europa.eu/digital-single-market/en/radio-spectrum-policy-programme-roadmap-wireless-europe>

[34] <https://ec.europa.eu/digital-single-market/en/content-distribution>

[35] <https://ec.europa.eu/digital-single-market/en/international-dimension-audiovisual-policy>

[36] <https://ec.europa.eu/digital-single-market/en/european-legislation-reuse-public-sector-information>

[37] <https://ec.europa.eu/digital-single-market/en/content/radio-spectrum-coordination-harmonisation-and-information>

[38] <https://ec.europa.eu/digital-single-market/en/safer-internet-day-sid>

[39] <https://ec.europa.eu/digital-single-market/en/policies/smart-cities>

[40] <https://ec.europa.eu/digital-single-market/en/content/improving-access-radio-spectrum-through-market-mechanisms>

[41] <https://ec.europa.eu/digital-single-market/en/wapecs-flexible-approach-spectrum-use>

[42] <https://ec.europa.eu/digital-single-market/en/content/spectrum-needs-and-spectrum-availability>

[43] <https://ec.europa.eu/digital-single-market/en/content/reorganising-eus-spectrum>

[44] <https://ec.europa.eu/digital-single-market/en/content/delivering-digital-dividend>

[45] <https://ec.europa.eu/digital-single-market/en/electronic-access-anytime-anywhere>

[46] <https://ec.europa.eu/digital-single-market/en/content/phoning-flight>

[47] <https://ec.europa.eu/digital-single-market/en/content/staying-touch-while-board-ship>

[48] <https://ec.europa.eu/digital-single-market/en/electronics>

[49] <https://ec.europa.eu/digital-single-market/en/content/going-mobile-satellite-services>

[50] <https://ec.europa.eu/digital-single-market/en/european-strategy-deliver-better-internet-our-children>

[51] <https://ec.europa.eu/digital-single-market/en/content/boosting-broadband-move>

[52] <https://ec.europa.eu/digital-single-market/en/promoting-shared-use-europes-radio-spectrum>

[53] <https://ec.europa.eu/digital-single-market/en/content/short-range-mass-market>

[54] <https://ec.europa.eu/digital-single-market/en/content/public-use-spectrum>

[55] <https://ec.europa.eu/digital-single-market/en/content/radio-controlled-road-use>

[56] <https://ec.europa.eu/digital-single-market/en/content/cars-communicate>

[57] <https://ec.europa.eu/digital-single-market/en/digital-champions>

[58] <https://ec.europa.eu/digital-single-market/en/content/radar-your-car>

[59] <https://ec.europa.eu/digital-single-market/en/mandating-europe%E2%80%99s-spectrum-experts>

[60] <https://ec.europa.eu/digital-single-market/en/content/national-role-radio-spectrum-policy>

[61] <https://ec.europa.eu/digital-single-market/en/implementation>  
[62] <https://ec.europa.eu/digital-single-market/en/content/wrc-setting-worlds-radio-spectrum-rules>  
[63] <https://ec.europa.eu/digital-single-market/en/meetings-digital-champions>  
[64] <https://ec.europa.eu/digital-single-market/en/content/useful-links-spectrum>  
[65] <https://ec.europa.eu/digital-single-market/en/eu-actions-112>  
[66] <https://ec.europa.eu/digital-single-market/en/112-your-country>  
[67] <https://ec.europa.eu/digital-single-market/en/web-accessibility>  
[68] <https://ec.europa.eu/digital-single-market/en/research-and-innovation-ageing-well-ict>  
[69] <https://ec.europa.eu/digital-single-market/en/robotics-ageing-well-current-research>  
[70] <https://ec.europa.eu/digital-single-market/en/digitisation-digital-preservation>  
[71] <https://ec.europa.eu/digital-single-market/en/member-states-expert-group-digitisation-digital-preservation>  
[72] <https://ec.europa.eu/digital-single-market/en/content/safer-internet-better-internet-kids>  
[73] <https://ec.europa.eu/digital-single-market/en/photonics-and-our-daily-life>  
[74] <https://ec.europa.eu/digital-single-market/en/relevant-research-projects-photonics>  
[75] <https://ec.europa.eu/digital-single-market/en/industrial-innovation-and-cooperation-european-level>  
[76] <https://ec.europa.eu/digital-single-market/en/telecoms-rules>  
[77] <https://ec.europa.eu/digital-single-market/en/avmsd-list-major-events>  
[78] <https://ec.europa.eu/digital-single-market/en/policies/ehealth>  
[79] <https://ec.europa.eu/digital-single-market/en/content/benefiting-personalised-care>  
[80] <https://ec.europa.eu/digital-single-market/en/managing-health-data>  
[81] <https://ec.europa.eu/digital-single-market/en/telemedicine>  
[82] <https://ec.europa.eu/digital-single-market/en/content/virtual-physiological-human>  
[83] <https://ec.europa.eu/digital-single-market/en/art-7-consultation-procedures>  
[84] <https://ec.europa.eu/digital-single-market/en/112-promotional-material>  
[85] <https://ec.europa.eu/digital-single-market/en/going-local>  
[86] <https://ec.europa.eu/digital-single-market/en/policies/scoreboard>  
[87] <https://ec.europa.eu/digital-single-market/en/create-graphs>  
[88] <https://ec.europa.eu/digital-single-market/en/progress-country>  
[89] <https://ec.europa.eu/digital-single-market/en/download-data>  
[90] <https://ec.europa.eu/digital-single-market/en/national-regulatory-authorities>  
[91] <https://ec.europa.eu/digital-single-market/en/policies/wireless-europe>  
[92] <https://ec.europa.eu/digital-single-market/en/future-internet-forum>  
[93] <https://ec.europa.eu/digital-single-market/en/policies/broadband-europe>  
[94] <https://ec.europa.eu/digital-single-market/en/collective-awareness-platforms-sustainability-and-social-innovation>  
[95] <https://ec.europa.eu/digital-single-market/en/policies/startup-europe>  
[96] <https://ec.europa.eu/digital-single-market/en/policies/better-internet-kids>  
[97] <https://ec.europa.eu/digital-single-market/en/ict-art-starts-platform>  
[98] <https://ec.europa.eu/digital-single-market/en/implementation-public-sector-information-directive>  
[99] <https://ec.europa.eu/digital-single-market/en/self-regulation-and-stakeholders-better-internet-kids>  
[100] <https://ec.europa.eu/digital-single-market/en/trust-services>  
[101] <https://ec.europa.eu/digital-single-market/en/policies/open-internet-net-neutrality>  
[102] <https://ec.europa.eu/digital-single-market/en/consultations>  
[103] <https://ec.europa.eu/digital-single-market/en/policies/future-and-emerging-technologies>  
[104] <https://ec.europa.eu/digital-single-market/en/fet-proactive>  
[105] <https://ec.europa.eu/digital-single-market/en/fet-flagships>  
[106] <https://ec.europa.eu/digital-single-market/en/media-convergence>  
[107] <https://ec.europa.eu/digital-single-market/en/women-ict>  
[108] <https://ec.europa.eu/digital-single-market/en/digital-skills-jobs-coalition>  
[109] <https://ec.europa.eu/digital-single-market/en/policies/roaming>  
[110] <https://ec.europa.eu/digital-single-market/en/non-legislative-measures-facilitate-re-use>  
[111] <https://ec.europa.eu/digital-single-market/en/112>  
[112] <https://ec.europa.eu/digital-single-market/en/eu-rules-112>  
[113] <https://ec.europa.eu/digital-single-market/en/kids-corner>  
[114] <https://ec.europa.eu/digital-single-market/en/girls-ict-day>  
[115] <https://ec.europa.eu/digital-single-market/en/policies/photonics>  
[116] <https://ec.europa.eu/digital-single-market/en/policies/online-privacy>  
[117] <https://ec.europa.eu/digital-single-market/en/2013-promotional-campaign>  
[118] <https://ec.europa.eu/digital-single-market/en/policies/cybersecurity>  
[119] <https://ec.europa.eu/digital-single-market/en/open-innovation-strategy-and-policy-group>

[120] <https://ec.europa.eu/digital-single-market/en/policies/open-innovation>

[121] <https://ec.europa.eu/digital-single-market/en/ebooks>

[122] <https://ec.europa.eu/digital-single-market/en/europeana-european-digital-library-all>

[123] <https://ec.europa.eu/digital-single-market/en/transatlantic-cooperation>

[124] <https://ec.europa.eu/digital-single-market/en/integrated-care-health-and-social-care-become-one>

[125] <https://ec.europa.eu/digital-single-market/en/e-identification>

[126] <https://ec.europa.eu/digital-single-market/en/policies/trust-services-and-eidentification>

[127] <https://ec.europa.eu/digital-single-market/en/broadband-member-states>

[128] <https://ec.europa.eu/digital-single-market/en/active-and-assisted-living-joint-programme-aal-jp>

[129] <https://ec.europa.eu/digital-single-market/en/connected-tv>

[130] <https://ec.europa.eu/digital-single-market/en/consultations-media-issues>

[131] <https://ec.europa.eu/digital-single-market/en/the-top-level-domain-.eu>

[132] <https://ec.europa.eu/digital-single-market/en/open-and-participative-innovation>

[133] <https://ec.europa.eu/digital-single-market/en/policies/investing-network-technologies>

[134] <https://ec.europa.eu/digital-single-market/en/connected-tv-background-reading>

[135] <https://ec.europa.eu/digital-single-market/en/116-your-country>

[136] <https://ec.europa.eu/digital-single-market/en/open-science>

[137] <https://ec.europa.eu/digital-single-market/en/policies/open-access>

[138] <https://ec.europa.eu/digital-single-market/en/global-systems-science>

[139] <https://ec.europa.eu/digital-single-market/en/electronics-strategy-europe>

[140] <https://ec.europa.eu/digital-single-market/en/ict-innovation-vouchers-scheme-regions>

[141] <https://ec.europa.eu/digital-single-market/en/open-standards>

[142] <https://ec.europa.eu/digital-single-market/en/5G-international-cooperation>

[143] <https://ec.europa.eu/digital-single-market/en/policies/5G>

[144] <https://ec.europa.eu/digital-single-market/en/cloud-computing-strategy-working-groups>

[145] <https://ec.europa.eu/digital-single-market/en/cloud-select-industry-group-service-level-agreements>

[146] <https://ec.europa.eu/digital-single-market/en/cloud-select-industry-group-code-conduct>

[147] <https://ec.europa.eu/digital-single-market/en/time-ecsel>

[148] <https://ec.europa.eu/digital-single-market/en/etsi-cloud-standards-coordination>

[149] <https://ec.europa.eu/digital-single-market/en/policies/cyber-physical-systems>

[150] <https://ec.europa.eu/digital-single-market/en/policies/advanced-computing>

[151] <https://ec.europa.eu/digital-single-market/en/policies/smart-manufacturing>

[152] <https://ec.europa.eu/digital-single-market/en/factories-future>

[153] <https://ec.europa.eu/digital-single-market/en/qa-entrepreneurs-support>

[154] <https://ec.europa.eu/digital-single-market/en/ehealth-experts>

[155] <https://ec.europa.eu/digital-single-market/en/policies/ict-innovation>

[156] <https://ec.europa.eu/digital-single-market/en/policies/internet-things>

[157] <https://ec.europa.eu/digital-single-market/en/policies/ict-and-standardisation>

[158] <https://ec.europa.eu/digital-single-market/en/electronics-strategy-action>

[159] <https://ec.europa.eu/digital-single-market/en/content/completed-projects>

[160] <https://ec.europa.eu/digital-single-market/en/broadband-all-satellite>

[161] <https://ec.europa.eu/digital-single-market/en/innovation-procurement>

[162] <https://ec.europa.eu/digital-single-market/en/interoperability-standardisation-connecting-ehealth-services>

[163] <https://ec.europa.eu/digital-single-market/en/research-and-innovation-ehealth>

[164] <https://ec.europa.eu/digital-single-market/en/vision-and-innovation>

[165] <https://ec.europa.eu/digital-single-market/en/promote-capital-investment-production-europe>

[166] <https://ec.europa.eu/digital-single-market/en/smart-specialisation-dialogue-member-states-and-regions>

[167] <https://ec.europa.eu/digital-single-market/en/advanced-computing-research-projects>

[168] <https://ec.europa.eu/digital-single-market/en/embedded-systems>

[169] <https://ec.europa.eu/digital-single-market/en/monitoring-and-control>

[170] <https://ec.europa.eu/digital-single-market/en/access-design-and-silicon-developing-skills>

[171] <https://ec.europa.eu/digital-single-market/en/system-systems>

[172] <https://ec.europa.eu/digital-single-market/en/fet-projects-portfolio>

[173] <https://ec.europa.eu/digital-single-market/en/lighting-future>

[174] <https://ec.europa.eu/digital-single-market/en/organic-and-large-area-electronics>

[175] <https://ec.europa.eu/digital-single-market/en/opening-education>

[176] <https://ec.europa.eu/digital-single-market/en/coding-21st-century-skill>

[177] <https://ec.europa.eu/digital-single-market/en/research-and-innovation-ict-education>

[178] <https://ec.europa.eu/digital-single-market/en/financing-innovation>

[179] <https://ec.europa.eu/digital-single-market/en/open-innovation-group-members>  
[180] <https://ec.europa.eu/digital-single-market/en/rolling-plan-ict-standardisation>  
[181] <https://ec.europa.eu/digital-single-market/en/identification-ict-specifications>  
[182] <https://ec.europa.eu/digital-single-market/en/potential-funding>  
[183] <https://ec.europa.eu/digital-single-market/en/oispg-activities>  
[184] <https://ec.europa.eu/digital-single-market/en/ict-innovation-horizon-2020>  
[185] <https://ec.europa.eu/digital-single-market/en/electronics-roadmap-europe>  
[186] <https://ec.europa.eu/digital-single-market/en/ehealth-studies-overview>  
[187] <https://ec.europa.eu/digital-single-market/en/public-procurement-innovative-solutions>  
[188] <https://ec.europa.eu/digital-single-market/en/pre-commercial-procurement>  
[189] <https://ec.europa.eu/digital-single-market/en/guide-high-speed-broadband-investment>  
[190] <https://ec.europa.eu/digital-single-market/en/european-digital-forum>  
[191] <https://ec.europa.eu/digital-single-market/en/policies/big-data>  
[192] <https://ec.europa.eu/digital-single-market/en/towards-thriving-data-driven-economy>  
[193] <https://ec.europa.eu/digital-single-market/en/broadband-strategy-policy>  
[194] <https://ec.europa.eu/digital-single-market/en/financing-broadband-project>  
[195] <https://ec.europa.eu/digital-single-market/en/broadband-technologies>  
[196] <https://ec.europa.eu/digital-single-market/en/startup-europe-networks>  
[197] <https://ec.europa.eu/digital-single-market/en/startup-europe-building-ecosystem>  
[198] <https://ec.europa.eu/digital-single-market/en/policies/language-technologies>  
[199] <https://ec.europa.eu/digital-single-market/en/americas>  
[200] <https://ec.europa.eu/digital-single-market/en/content/international-organisations-and-fora>  
[201] <https://ec.europa.eu/digital-single-market/en/regional-and-bilateral-relations>  
[202] <https://ec.europa.eu/digital-single-market/en/language-technologies-and-big-data>  
[203] <https://ec.europa.eu/digital-single-market/en/research-standards>  
[204] <https://ec.europa.eu/digital-single-market/en/cost-reduction-measures>  
[205] <https://ec.europa.eu/digital-single-market/en/broadband-business-models>  
[206] <https://ec.europa.eu/digital-single-market/en/eu-funded-projects>  
[207] <https://ec.europa.eu/digital-single-market/en/global-internet-and-telecommunications>  
[208] <https://ec.europa.eu/digital-single-market/en/carrier-model-options>  
[209] <https://ec.europa.eu/digital-single-market/en/automated-translation>  
[210] <https://ec.europa.eu/digital-single-market/en/media-freedom-projects>  
[211] <https://ec.europa.eu/digital-single-market/en/mhealth>  
[212] <https://ec.europa.eu/digital-single-market/en/startup-success-stories>  
[213] <https://ec.europa.eu/digital-single-market/en/open-disruptive-innovation-0>  
[214] <https://ec.europa.eu/digital-single-market/en/sme-instrument-frequently-asked-questions>  
[215] <https://ec.europa.eu/digital-single-market/en/what-big-data-can-do-you>  
[216] <https://ec.europa.eu/digital-single-market/en/global-internet-policy-observatory-gipo>  
[217] <https://ec.europa.eu/digital-single-market/en/eu-code-week>  
[218] <https://ec.europa.eu/digital-single-market/en/national-local-coalitions>  
[219] <https://ec.europa.eu/digital-single-market/en/policies/einfrastructure>  
[220] <https://ec.europa.eu/digital-single-market/en/access-passive-infrastructure>  
[221] <https://ec.europa.eu/digital-single-market/en/coordination-civil-works>  
[222] <https://ec.europa.eu/digital-single-market/en/permit-granting>  
[223] <https://ec.europa.eu/digital-single-market/en/building-infrastructure>  
[224] <https://ec.europa.eu/digital-single-market/en/ict-innovation-vouchers-action-1>  
[225] <https://ec.europa.eu/digital-single-market/en/get-involved-digital-coalition>  
[226] <https://ec.europa.eu/digital-single-market/en/big-data-value-public-private-partnership>  
[227] <https://ec.europa.eu/digital-single-market/en/open-government>  
[228] <https://ec.europa.eu/digital-single-market/en/ict-enabled-public-sector-innovation-horizon-2020>  
[229] <https://ec.europa.eu/digital-single-market/en/policies/high-performance-computing>  
[230] <https://ec.europa.eu/digital-single-market/en/policies/copyright>  
[231] <https://ec.europa.eu/digital-single-market/en/horizon-prizes>  
[232] <https://ec.europa.eu/digital-single-market/en/policies/egovernment>  
[233] <https://ec.europa.eu/digital-single-market/en/policies/robotics>  
[234] <https://ec.europa.eu/digital-single-market/en/policies/telecom-laws>  
[235] <https://ec.europa.eu/digital-single-market/en/policies/cloud-computing>  
[236] <https://ec.europa.eu/digital-single-market/en/policies/strengthening-trust-and-security>  
[237] <https://ec.europa.eu/digital-single-market/en/policies/supporting-media-and-digital-culture>

[238] <https://ec.europa.eu/digital-single-market/en/policies/digital-cultural-heritage>

[239] <https://ec.europa.eu/digital-single-market/en/broadband-and-infrastructure-mapping-project>

[240] <https://ec.europa.eu/digital-single-market/en/broadband-action-plan>

[241] <https://ec.europa.eu/digital-single-market/en/defining-your-broadband-plan>

[242] <https://ec.europa.eu/digital-single-market/en/four-key-strategic-choices>

[243] <https://ec.europa.eu/digital-single-market/en/infrastructure-and-service-based-competition>

[244] <https://ec.europa.eu/digital-single-market/en/network-and-topology>

[245] <https://ec.europa.eu/digital-single-market/en/actors-broadband-value-chain>

[246] <https://ec.europa.eu/digital-single-market/en/basic-business-models>

[247] <https://ec.europa.eu/digital-single-market/en/main-financing-tools>

[248] <https://ec.europa.eu/digital-single-market/en/financing-public-private-joint-ventures-and-private-run-deployments>

[249] <https://ec.europa.eu/digital-single-market/en/state-aid>

[250] <https://ec.europa.eu/digital-single-market/en/investment-models>

[251] <https://ec.europa.eu/digital-single-market/en/robotics-public-private-partnership-horizon-2020>

[252] <https://ec.europa.eu/digital-single-market/en/policies/emergency-and-support-lines>

[253] <https://ec.europa.eu/digital-single-market/en/policies/shaping-digital-single-market>

[254] <https://ec.europa.eu/digital-single-market/en/policies/creating-digital-society>

[255] <https://ec.europa.eu/digital-single-market/en/policies/advancing-digital-science-and-infrastructures>

[256] <https://ec.europa.eu/digital-single-market/en/tech-all-stars>

[257] <https://ec.europa.eu/digital-single-market/en/desi>

[258] <https://ec.europa.eu/digital-single-market/en/eu-member-states>

[259] <https://ec.europa.eu/digital-single-market/en/policies/digital-skills>

[260] <https://ec.europa.eu/digital-single-market/en/citizen-science>

[261] <https://ec.europa.eu/digital-single-market/en/innovation-radar>

[262] <https://ec.europa.eu/digital-single-market/en/our-studies-and-open-datasets>

[263] <https://ec.europa.eu/digital-single-market/en/policies/media-programme>

[264] <https://ec.europa.eu/digital-single-market/en/alliance-internet-things-innovation-aioti>

[265] <https://ec.europa.eu/digital-single-market/en/better-access-consumers-and-business-online-goods>

[266] <https://ec.europa.eu/digital-single-market/en/right-environment-digital-networks-and-services>

[267] <https://ec.europa.eu/digital-single-market/en/economy-society>

[268] <https://ec.europa.eu/digital-single-market/en/human-capital>

[269] <https://ec.europa.eu/digital-single-market/en/use-internet>

[270] <https://ec.europa.eu/digital-single-market/en/connectivity>

[271] <https://ec.europa.eu/digital-single-market/en/digital-public-services-scoreboard>

[272] <https://ec.europa.eu/digital-single-market/en/research-development-scoreboard>

[273] <https://ec.europa.eu/digital-single-market/en/integration-digital-technology>

[274] <https://ec.europa.eu/digital-single-market/en/european-film-forum>

[275] <https://ec.europa.eu/digital-single-market/en/satellite-and-cable-directive>

[276] <https://ec.europa.eu/digital-single-market/en/eu-copyright-legislation>

[277] <https://ec.europa.eu/digital-single-market/en/media-literacy>

[278] <https://ec.europa.eu/digital-single-market/en/high-performance-computing-contractual-public-private-partnership-hpc-cppp>

[279] <https://ec.europa.eu/digital-single-market/en/policies/online-platforms>

[280] <https://ec.europa.eu/digital-single-market/en/policies/geoblocking>

[281] <https://ec.europa.eu/digital-single-market/en/e-commerce-directive>

[282] <https://ec.europa.eu/digital-single-market/en/eu-funded-societal-challenges-projects-lab-market>

[283] <https://ec.europa.eu/digital-single-market/en/cybersecurity-industry>

[284] <https://ec.europa.eu/digital-single-market/en/policies/digital-inclusion-and-web-accessibility>

[285] <https://ec.europa.eu/digital-single-market/en/european-broadband-award>

[286] <https://ec.europa.eu/digital-single-market/en/broadband-competence-offices>

[287] <https://ec.europa.eu/digital-single-market/en/fourth-industrial-revolution>

[288] <https://ec.europa.eu/digital-single-market/en/%20european-cloud-initiative>

[289] <https://ec.europa.eu/digital-single-market/en/european-egovernment-action-plan-2016-2020>

[290] <https://ec.europa.eu/digital-single-market/en/egovernment-action-plan-digitising-european-industry>

[291] <https://ec.europa.eu/digital-single-market/en/standards-digitising-european-industry>

[292] <https://ec.europa.eu/digital-single-market/en/financial-guarantee-facility-culture-creative>

[293] <https://ec.europa.eu/digital-single-market/en/research-innovation-iot>

[294] <https://ec.europa.eu/digital-single-market/en/geant-project-european-success-story>

[295] <https://ec.europa.eu/digital-single-market/en/25-years-media-programme>

[296] <https://ec.europa.eu/digital-single-market/en/policies/quantum-technologies>

[297] <https://ec.europa.eu/digital-single-market/en/revision-audiovisual-media-services-directive-avmsd>

[298] <https://ec.europa.eu/digital-single-market/en/policies/ecommerce>

[299] <https://ec.europa.eu/digital-single-market/en/eidas-observatory>

[300] <https://ec.europa.eu/digital-single-market/en/eu-trust-mark>

[301] <https://ec.europa.eu/digital-single-market/en/privacy-code-conduct-mobile-health-apps>

[302] <https://ec.europa.eu/digital-single-market/en/network-and-information-security-nis-directive>

[303] <https://ec.europa.eu/digital-single-market/en/european-digital-progress-report>

[304] <https://ec.europa.eu/digital-single-market/en/policies/improving-connectivity-and-access>

[305] <https://ec.europa.eu/digital-single-market/en/modernisation-eu-copyright-rules>

[306] <https://ec.europa.eu/digital-single-market/en/5g-europe-action-plan>

[307] <https://ec.europa.eu/digital-single-market/en/policies/next-generation-internet>

[308] <https://ec.europa.eu/digital-single-market/en/international-cooperation-cloud-computing>

[309] <https://ec.europa.eu/digital-single-market/en/cordination-european-national-regional-initiatives>

[310] <https://ec.europa.eu/digital-single-market/en/digital-innovation-hubs>

[311] <https://ec.europa.eu/digital-single-market/en/industrial-platforms-and-large-scale-pilots>

[312] <https://ec.europa.eu/digital-single-market/en/policies/wifi4eu-free-wi-fi-europeans>

[313] <https://ec.europa.eu/digital-single-market/en/platforms-to-business-trading-practices>

[314] <https://ec.europa.eu/digital-single-market/en/illegal-content-online-platforms>

[315] <https://ec.europa.eu/digital-single-market/en/european-open-science-cloud>

[316] <https://ec.europa.eu/digital-single-market/en/policies/multimedia-actions>

[317] <https://ec.europa.eu/digital-single-market/en/policies/building-european-data-economy>

[318] <https://ec.europa.eu/digital-single-market/en/alliance-better-protect-minors-online>

[319] <https://ec.europa.eu/digital-single-market/en/cooperative-connected-and-automated-mobility-europe>

[320] <https://ec.europa.eu/digital-single-market/en/digital-skills-initiatives>

[321] <https://ec.europa.eu/digital-single-market/en/pledges-action>

[322] <https://ec.europa.eu/digital-single-market/en/become-member-digital-skills-and-jobs-coalition>

[323] <https://ec.europa.eu/digital-single-market/en/policies/social-media-and-networks-innovation-and-policy>

[324] <https://ec.europa.eu/digital-single-market/en/faq/question-and-answers-roaming>

[325] <https://ec.europa.eu/digital-single-market/en/roaming-charges-what-has-european-commission-done-so-far>

[326] <https://ec.europa.eu/digital-single-market/en/cross-border-portability-online-content-services>

[327] <https://ec.europa.eu/digital-single-market/en/practical-information-ict-proposers-day-2017>

[328] <https://ec.europa.eu/digital-single-market/en/policies/foreign-policy>

[329] <https://ec.europa.eu/digital-single-market/en/expert-group-digital-cultural-heritage-and-europeana-dche>

[330] <https://ec.europa.eu/digital-single-market/en/collective-rights-management-directive>

[331] <https://ec.europa.eu/digital-single-market/en/graphene-flagship>

[332] <https://ec.europa.eu/digital-single-market/en/eu-cybersecurity-certification-framework>

[333] <https://ec.europa.eu/digital-single-market/en/free-flow-non-personal-data>

[334] <https://ec.europa.eu/digital-single-market/en/fake-news>

[335] <https://ec.europa.eu/digital-single-market/en/digital-opportunity-traineeships-boosting-digital-skills-job>

[336] <https://ec.europa.eu/digital-single-market/en/governing-board-digital-skills-and-jobs-coalition>

[337] <https://ec.europa.eu/digital-single-market/en/faq/questions-and-answers-wifi4eu>

[338] <https://ec.europa.eu/digital-single-market/en/pillars-digitising-european-industry-initiative>