

DIRECTORATE GENERAL FOR COMMUNICATIONS NETWORKS, CONTENT & TECHNOLOGY

DIRECTORATE A, COMPONENTS & SYSTEMS

Support research & deployment of smart, integrated and key enabling ICT technologies, addressing their entire value chain from inception to industrialisation. Develop a full-cycle roadmap to get the output into the EU economy, through innovation tools such as pilot lines, pre-commercial procurement, and standards. DG lead for Horizon 2020/LEIT, notably KET coordination

UNIT / ENTITY	WHO ARE WE & WHAT DO WE DO?
A1 Photonics	Photonics is a key enabling technology that drives innovation in major economic sectors like communications, lighting and manufacturing. It provides unique solutions to our societal challenges such as energy efficiency, sustainable healthcare, safety and security and environment. We will work this year to ensure an efficient deployment of existing financial instruments on R&D and innovation in this field, and also a smooth transition to the Public-Private Partnership which we will establish to drive innovation in this area under Horizon 2020.
A 2 Robotics	While managing the existing EU support for robotics & cognitive systems, we will this year draw up the strategy for the EU's continued work in this area under Horizon 2020, and based on a Public-Private Partnership. We will seek collaboration between industry & academia, and with associated disciplines. Such collaboration can deliver better research outcomes, and also help address the many ethical & legal issues that need to be addressed if we are to see wider use of robots and other autonomous systems.
A 3 Complex Systems and Advanced Computing	While managing the growing portfolio of EU-supported research projects that deal with embedded & control systems, and computing systems under FP7, we will prepare the areas of complex systems, smart spaces, and advanced computing systems. We will support the development of roadmaps for Research & innovation in this field. Preparing for H2020. We will also support Europe's manufacturing sector in capitalising on ICT to deliver innovative, high quality products at competitive prices.
A4 Components	Working at the frontiers of hardware & software, an important area for Europe's industrial competitiveness, we will support the further development of the European strategy for nano-electronics and smart & embedded components & systems under Horizon2020. We will set up a new "Joint technology initiative" (JTI) on electronics. This JTI will build on the experience gained under the existing JTI's, ENIAC & ARTEMIS, and will help developing an eco-system supportive of innovation.
A 5 Administration & Finance	In order to demonstrate that the EU manages soundly and efficiently the budget entrusted to it, we will maintain a high level of quality of service in the execution of our financing decisions, including ensuring timely negotiations; short times to contract, to amendment and to payment; proper handling and compliance of legal, financial and audit procedural aspects. Alongside specific support for monitoring a number of our initiatives, a particular focus this year will be the launch of the new Horizon 2020 programme.

DIRECTORATE B, ELECTRONIC COMMUNICATIONS NETWORKS & SERVICES

Coordinate a better regulatory framework for competition & growth over the entire range of issues in the e-communications field: economic analysis, impact assessment, policy development, regulatory compliance.

UNIT / ENTITY	WHO ARE WE & WHAT DO WE DO?
B1 Regulatory Coordination & Business	<p>As part of the team regulating electronic communications within the EU, we ensure Member States implement the rules to which they have agreed, notably on access and authorisation of e-communications networks and services, and which provide a predictable & competition-friendly environment including those on the independence and effectiveness of the National Regulatory Authorities. In the event legal action needs to be taken against Member States for failure to transpose and subsequently implement the EU regulatory framework, or to uphold the independence and effectiveness of the Regulatory Agencies, this unit is responsible for initiating infringement proceedings in case of 14 Member States. Moreover, we provide the infringement coordination for the whole DG. We design new rules to support a competitive single market and to foster innovation and investment. This will include this year a planned legislative initiative to reduce the costs of deploying high speed broadband infrastructure. We promote pan-European services, e.g. through by pushing for EU-wide standards in the relevant areas.</p>
B 2 Regulatory Coordination & Users	<p>As part of the team regulating electronic communications within the EU, we focus on the way in which Member States & National Regulatory Agencies deal with the retail market & with consumers. This covers issues such as switching, net neutrality, roaming and universal service. Following the adoption of the Roaming III Regulation foreseen for June, we will this year propose detailed rules on the separate sale of roaming services. We will also prepare a Recommendation on Universal Service. We also coordinate the Commission's relations with BEREC, the grouping of European regulatory authorities.</p>
B 3 Regulatory Coordination & Markets	<p>As part of the team regulating electronic communications within the EU, we monitor and intervene on proposed regulatory measures in electronic communications markets across the EU, notified by national regulatory authorities. We will launch 2 Recommendations on the consistent application of regulatory remedies this year ("costing methodologies" & "non-discrimination"), to foster the single market and maintain a competitive environment for telecoms in Europe. We will review a previous Recommendation key to the application of sector-specific, market-based regulatory policy in the EU ("relevant markets"), to take account of the way in which markets and technology have changed.</p>
B4 Spectrum	<p>As part of the e-communications team we focus on ensuring that Member States manage radio spectrum effectively, as the basis for a competitive internal market in wireless communications. We develop new policy measures as part of the Radio Spectrum Policy Programme, in order to provide opportunities for the development of wireless broadband and the introduction of innovative wireless technologies in other areas such as smart energy grids or intelligent transport networks.</p>
B 5 Broadband	<p>As part of the e-communications team our job is to boost the roll-out and take-up of the next generation of high-speed Internet networks and services across the EU. We do this by mobilising public and private investments, notably through the Structural & Cohesion Funds. A specific challenge we face this year is to maximise funding for this goal within the planned Connecting Europe Facility, and to prepare for its use.</p>

DIRECTORATE C, EXCELLENCE IN SCIENCE

Ensure the renewal of the scientific basis for future ICT by fostering excellence in ICT research, and to help transform the way it is conceived, practiced, disseminated and used. Develop a full-cycle roadmap to get the output into the EU economy, through innovation tools such as pilot-lines, open innovation platforms, pre-commercial procurement, and standards. DG lead for Horizon 2020/Excellence.

UNIT / ENTITY	WHO ARE WE & WHAT DO WE DO?
C 1 e-Infrastructure	We support the development and deployment of e- infrastructures that will give every European researcher digital skills and digital tools and contribute to a seamless and open European space for online research, the Digital European Research Area. Our actions focus on infrastructures for data-enabled science and engineering, High Performance Computing, research and education networking such as GÉANT, virtual research communities, and e-Science environments. We will help Europe lead a global movement towards open, interconnected, data-driven and computer-intensive science and engineering.
C 2 Future & Emerging Technologies (FET)	Our team supports ground breaking, multi-disciplinary exploratory research for future ICT. We are pathfinders and harvesters of future trends, technologies, and research communities. This year we will stimulate, support and prepare to implement the new Future & Emerging Technologies mandate within the 'Excellent Science' part of H2020.
C 3 Digital Sciences	Our job is to support the emergence of a Digital European Research where researchers, knowledge, and technologies circulate freely, aided by digital means. In particular, we use digital tools to engage with young people and researchers to build science & technology careers. We help develop new ICT-based policy modelling tools and systems which will give citizens more confidence in governance. We will coordinate and follow up the DG's contribution to the Excellence pillar of Horizon 2020.
C4 Flagships	We manage a portfolio of pilot research initiatives ("flagships") delivering major breakthroughs in science and technology, with the potential for radically new technologies that can impact the European economy or provide solutions to some of society's biggest challenges. We help create the right policy and conditions for a common European effort, at a large scale and over a long period (10+ years). This year we will work with the European Parliament and Council to strengthen Member States' support.
C 5 Administration & Finance	In order to demonstrate that the EU manages soundly and efficiently the budget entrusted to it, we will maintain a high level of quality of service in the execution of our financing decisions, including ensuring timely negotiations; short times to contract, to amendment and to payment; proper handling and compliance of legal, financial and audit procedural aspects. A particular focus this year will be the preparation for the launch of the new Horizon 2020 programme.

DIRECTORATE D, COOPERATION

Provide an effective participatory, transparent and cooperative interface with all external stakeholders.

UNIT / ENTITY	WHO ARE WE & WHAT DO WE DO?
D1 International	We work on a bilateral level and through multilateral <i>fora</i> , to garner support for the EU's objectives on research cooperation; market access; a sound & transparent regulatory system; and an overall global architecture for Internet governance. We do this in parallel with efforts to secure recognition for the EU's international presence, for example in the ITU, based on a successful outcome of the WCIT later this year.
D 2 Inter-institutional	The unit is the DG's interface with the other EU Institutions, and the guardian of the planning and procedures which ensure this cooperation results in good legislative & political initiatives.
D 3 Communication	We define and help the DG to carry out an integrated communication strategy. This implies shaping views on complex issues within the DG and using the full panoply of tools to present them to external audiences. This year we will launch a new web presence, incorporating on-line engagement tools. We will also work with colleagues to renew our internal communication tools, to encourage more open and direct communication among staff.
D4 Stakeholders	This new unit will develop and ensure a more strategic approach to stakeholders' engagement at DG level, making it more efficient and transparent. It will also manage specific initiatives such as "Digital Women", "Digital Champions" and further develop action on corporate social responsibility. We want to engage the unengaged.

DIRECTORATE E, NET FUTURES

Research and Innovation on what lies beyond the current Internet architecture, software and services. DG lead on EU-Strategy for the Cloud. Enabling growth through research, innovation and policy for future industries. Develop a full-cycle roadmap to get the output into the EU economy, through innovation tools such as pilot-lines, pre-commercial procurement, and standards.

UNIT / ENTITY	WHO ARE WE & WHAT DO WE DO?
E1 Network technologies	We support research activities on wireless, optical & satellite communication technologies that will enable coping with the projected increases in network traffic. We will strengthen European industrial capability in novel network architectures.
E 2 Software & Services, Cloud	We will develop and implement a European cloud computing strategy, which includes setting up a European Cloud Partnership. We will support standardisation and interoperability of software and services. We will support research and innovation in service architectures, platforms, applications and software.
E3 Net Innovation	We provide support for web entrepreneurship and Internet businesses in Europe; enable new services for the Future Internet, and explore novel forms of technological and societal innovation, including investigating the ethical implications of the Internet.
E 4 Experimental Platforms	We intend to extend existing experimental facilities and promoting platforms and tools enabling user-centric open innovation. We will explore new concepts for the long term evolution of experimental facilities.
E 5 Administration & Finance	In order to demonstrate that the EU manages soundly and efficiently the budget entrusted to it, we will maintain a high level of quality of service in the execution of our financing decisions, including ensuring timely negotiations; short times to contract, to amendment and to payment; proper handling and compliance of legal, financial and audit procedural aspects. A particular focus this year will be given to the preparation for the launch of the new Horizon 2020 programme.

DIRECTORATE F, COORDINATION

Coordinate overall DG vision on our contribution to EU economic growth. Develop, coordinate and monitor effective policy for deployment, regulation & research and innovation of ICT. DG lead for EU 2020, FP7 and Horizon 2020.

UNIT / ENTITY	WHO ARE WE & WHAT DO WE DO?
F1 Growth & jobs	We oversee the implementation of the Digital Agenda. We help build the Digital Single Market, fostering policy initiatives on aspects relating to consumers and business, especially, e-commerce. We coordinate policy aspects related to the contribution of ICT to Europe's economy and society, with a particular focus on growth, skills and jobs.
F 2 Innovation	We work to help close the gap between research and innovation, and hence to the creation of jobs in Europe. As co-chair of the ICT standards multi-stakeholder platform, we will develop new, bottom-up and flexible models of innovation including social, open and user centric innovation, developing new instruments to support innovation and entrepreneurship and foster closer to the market activities.
F 3 Programme Coordination	We provide the overall coordination of the DG's research & innovation activities, developing, defending and promoting the DG's position in the various coordination bodies, both within and outside the EU.
F 4 Knowledge Base	We provide the data and evidence for assessing progress in meeting the Digital Agenda policy targets. We gather intelligence and analyse the digital economy. We coordinate country monitoring and input to the Commission Annual Growth Survey. We also coordinate the evaluations relevant to the DG's objectives and make proposals for strategic orientations.

DIRECTORATE G, MEDIA & DATA

Lead for the DG in framing and supporting a vision for the optimal development and expansion of innovative & creative media & data use. From R&D to the necessary regulatory framework, including open data, Public Service Information, Audiovisual, Inclusion & children's issues. Develop a full-cycle roadmap to get the output into the EU economy, through innovation tools such as pilot-lines, pre-commercial procurement, and standards.

UNIT / ENTITY	WHO ARE WE & WHAT DO WE DO?
G1 Converging media & Content	We ensure the current regulatory environment of the audio-visual and services sector is respected. We address policy, regulation, research and innovation aspects of future developments such as Connected TV, including the regulatory, research & other challenges related to this process of convergence. We promote respect for media pluralism and media freedom, while helping to facilitate the online distribution of digital content across the board.
G2 Creativity	Creative industries have a significant growth potential as the Internet develops. We provide research funding to areas such as interfaces, simulation and visualisation, games engines and immersive experiences, and support the creative industries in their innovation process. We support Member States and cultural organisations in digitising their collections, making them accessible online and ensuring the preservation of their digital assets. This includes support for the development of Europeana, Europe's digital library.
G3 Data Value Chain	The processing, management, use and reuse of data help drive growth and efficiency in the public & private sector. We will support the creation of a suitable policy environment focusing on the Public Sector Information (PSI) legislation and ensure its subsequent implementation. We will provide research and innovation funding addressing the data challenge and foster new data driven services and the emergence of new business opportunities.
G4 Inclusion, Skills & youth	We work to ensure that citizens, especially young people and those at risk of exclusion, are best able to benefit from an inclusive Internet. We promote a better internet for children that will improve the quality of content, opportunity and experience of the internet for children of all ages, while ensuring that the services they encounter are trusted and safe. We support the use of ICT to develop the learning and skills necessary for all for the 21st century with a special emphasis on making learning accessible and inclusive.
G5 Administration & Finance	In order to demonstrate that the EU manages soundly and efficiently the budget entrusted to it, we will maintain a high level of quality of service in the execution of our financing decisions, including ensuring timely negotiations; short times to contract, to amendment and to payment; proper handling and compliance of legal, financial and audit procedural aspects. A particular focus this year will be the preparation for the launch of the new Horizon 2020 programme.

DIRECTORATE H, SUSTAINABLE & SECURE SOCIETY

Address selected ICT challenges for a sustainable, healthy and secure society. Develop a full-cycle roadmap to get the output into the EU economy, through innovation tools such as pilot-lines, pre-commercial procurement, and standards. DG lead for Horizon 2020/Societal Challenges.

UNIT / ENTITY	WHO ARE WE & WHAT DO WE DO?
H1 Health and well-being	We develop & implement policies and research activities which support the use of proven eHealth and well-being solutions as outlined in the eHealth Action Plan and Digital Agenda for Europe. We support European industry and entrepreneurs by working to deploy innovative eHealth & well-being services, promoting procurement & international cooperation & by developing appropriate legislation.
H2 Digital Social platforms	We seek to deploy ICT more widely in areas that will allow people to age well. This involves digital support, social engagement and direct support to innovation by bringing together member states, regions, industry, professionals, users and new stakeholders around specific actions that include ICT-enabled innovation and deployment. This year, we will finalise a Directive on Web-Accessibility.
H 3 Public services	We lead the development and deployment of EU Digital Public Services, focussing on cross-border excellence in eGovernment, and based on the eGovernment Action plan 2011-2015. This will focus this year on maintaining Member States' commitment to implementing such cross-border public services, including the existing 5 Large Scale Pilots and their sustainability. We aim also at designing and developing new large scale pilots to demonstrate and validate interoperable service solutions. We will also coordinate the preparation and launch of the Digital Services infrastructures part of the Connecting Europe Facility, (CEF).
H4 Trust and security	We develop policy, research and innovation solutions and carry out activities enhancing the security of Internet networks and services and the protection of citizens' on-line privacy and security. Our overriding objectives are ensuring the good functioning and integrity of the digital single market and the promotion of individuals' trust in ICT and the Internet.
H5 Smart cities & Sustainability	ICT has the potential to play a key role in meeting the EU's climate and energy targets. We develop the policy framework to ensure that digital technologies improve energy security and resource utilisation. We also aim to accelerate the deployment of integrated energy, transport and ICT solutions at local level, help better manage flows of goods and people, and allow an EU-wide shift to clean sources of energy, with improved efficiency in generation, transmission and distribution.
H6 Administration and Finance	In order to demonstrate that the EU manages soundly and efficiently the budget entrusted to it, we will maintain a high level of quality of service in the execution of our financing decisions, including ensuring timely negotiations; short times to contract, to amendment and to payment; proper handling and compliance of legal, financial and audit procedural aspects. A particular focus this year will be the preparation for the launch of the new Horizon 2020 programme. In addition, this unit will support the Directorate's communication and stakeholder engagement activities, and provide support to Partnerships, such as the EIP on Active & Healthy Ageing.

DIRECTORATE R, SUPPORT

Support the DG's people and operations, as well as to ensure compliance with essential procedures.

UNIT / ENTITY	WHO ARE WE & WHAT DO WE DO?
R1 People	We implement the human resources & staff engagement strategies of the DG, and deal with staff and career issues and related legal matters for the DG.
R2 Finance	We manage the finances of the DG, and deal with all budgetary matters, including public procurement, in a spirit of continuous improvement.
R3 Support systems & Tools	We provide the IT systems and tools which are used by the DG. This will need to take into account the transition to the new structure of the DG and subsequent move to Horizon 2020.
R4 Compliance	We provide the DG with the legal, internal control & external audit expertise needed to fulfil its mission and to report and benchmark our activities.
R5 Programme operations	We support all units across the DG when they work under the existing rules and procedures for issuing calls for proposals and evaluations, carrying out project negotiation and selection and managing projects and grants. Likewise we prepare the future rules, procedures, processes and guidelines for H2020.

OTHER ENTITIES	
UNIT / ENTITY	WHO ARE WE & WHAT DO WE DO?
UNIT 01 Internal Audit	We provide independent, objective assurance and advice designed to add value and improve the operations of the Directorate General.
UNIT 02 Knowledge-Sharing	We focus on the deployment of an inclusive culture of openness and sharing enabling all DG's staff to exploit opportunities to connect with new knowledge and new contacts across the DG as well as between the DG and its environment, inside and outside the European Commission. We analyse and weigh policy, organisational and administrative options for the fulfilment of the DG's mission through enhanced processes, tools and practices, including "impact assessment as a service" and synergy between the policy, regulatory and research aspects of the DG's work.
TASK FORCES	
UNIT / ENTITY	WHO ARE WE & WHAT DO WE DO?
Internet Policy Development M. Niebel Exp date: 31/12/2013	The task force will deliver and implement a strategic vision for the EU's overall Internet policy and its global framework.
Digital Futures F. Accordino Exp date: 31/12/2013	The task force will engage stakeholders to build and maintain a shared set of visions to inspire the design of future policies beyond the Digital Agenda and Europe 2020. This will rely on new technologies and methodologies for embedding evidence; anticipatory & participatory thinking in policy making practices and contribute to the annual review process of the Digital Agenda and the content definition of Horizon 2020.
Sectoral Strategy Needs A. De Albuquerque Exp date: 31/12/2014	The task force will develop a sector-by-sector vision on how ICT Research and Innovation will contribute to economy-wide competitiveness and job growth.
Legislation Team (eIDAS) A. Servida Exp date: 31/12/2014	The task force will lead the development, negotiation and basic implementation of the B eIDAS proposal: proposal for a regulation of the European Parliament and of the Council on trust and confidence in electronic transactions in the internal market (electronic trusted services regulation).

PRINCIPAL ADVISER
Florin Lupescu
ADVISERS
Žiga Bahovec : Adviser for Legal & Legislative Issues
D. Beernaert : Adviser for Interdisciplinary & Integrating Activities
R. Cencioni : Adviser for Multilingual Aspects of the Information Society
J-E de Cockborne : Adviser for Individuals in the DAE
N. Dewandre : Adviser for Societal Issues
J. Jaaskelaainen : Adviser for ICT for Transport & Energy
R. Niepold : Adviser for Spectrum, Standardisation & Internet
B. Salmelin : Adviser for Innovation Systems
R. Swetenham : Adviser for Open Data