



Nexa Center for Internet & Society
Politecnico di Torino

Annual Report 2013

Studying the Internet, exploring its potential & experimenting new ideas



Nexa Center

for Internet & Society

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The Nexa Center for Internet & Society is a research center of the Department of Control and Computer Engineering of the Politecnico di Torino (<http://dauin.polito.it>).

This report was mainly edited by Raimondo Iemma and Federico Morando, with the contribution of Nexa co-directors and project managers.



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EXECUTIVE SUMMARY: THE 6TH YEAR IN BRIEF

Foreword

During its 6th year of activity, the Nexa Center reached its most important results in the thematic areas concerning open data, network neutrality, and the commons. The Center also improved its national and international connections and continued to improve its internal organization and processes.

The Center was recognized as valuable domain expert in various **open data-related projects**, such as the EU-funded “Homer” (as legal consultants for Regione Piemonte) and “Open-DAI”, a **European project supporting innovation in the information architecture of public sector bodies**, where the Center has been appointed by the project coordinator as responsible for the **exploitation strategy**, replacing the previous under-performing partner and contributing to a successful mid-term project review.

*Open Data
domain experts*

The **Neubot** project on **network neutrality** progressed on several grounds. The software platform was improved, enabling **new experiments**, and its overall reliability was increased. Furthermore, a **scientific article** describing the latest Neubot developments was accepted for publication by the prestigious ACM SIGCOMM Computer Communication Review. In general, Neubot received a growing amount of attention, including a **Measurement Lab research grant**, awarded by Google, to fund our ongoing activities on this project.

*Neubot: growing at-
tention and re-
search grant*

*Creative Commons:
legal treatment of
databases*

Regarding the **public domain and the (intangible) commons**, the Center distinguished itself as one of the most active national affiliate institutions of the Creative Commons network during the **drafting of the fourth version of the Creative Commons Public Licenses**. Thanks to our knowledge of civil and European law, our contribution was critical with respect to the definition of the legal handling of databases in the new CC licenses.

As its main event of the reporting period, the Nexa Center led the scientific organization of the **Italian Internet Governance Forum 2012, which took place in Turin** in October. IGF Italia included sessions about fundamental online rights, digital divides, logical and physical infrastructures, network neutrality, Internet & entrepreneurship, e-government, digital agendas, and open data. The Forum enjoyed significant national visibility, also thanks to the participation, for the first time, of two Italian Ministers.

*Italian 2012 IGF in
Turin*

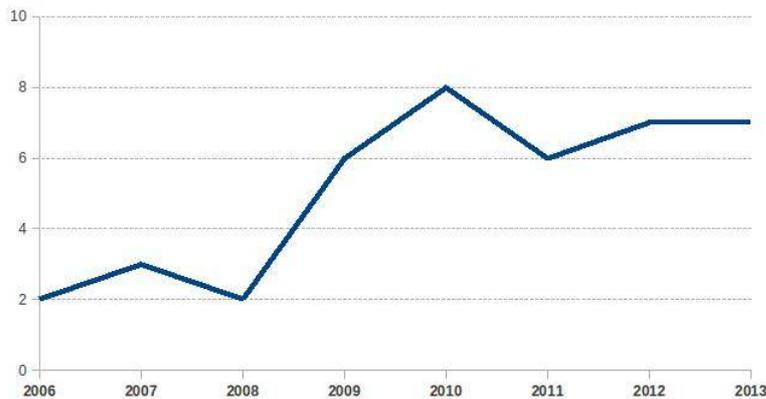
As a tangible sign of **international recognition**, the Nexa Center is amongst the eight founding members of the **Network of Centers on Internet & Society**. Launched by the Berkman Center for Internet & Society at Harvard University in December 2012, the Network supports the cooperation among the main Internet & society research centers worldwide. Furthermore, the Nexa Center has recently become part of the **Global Network Initiative**, a multi-stakeholder international group aimed at protecting and advancing freedom of expression and privacy in the ICT sector.

Writing this annual report is also an occasion to look back at our six-year-path, deriving some indications for the present and future challenges of the Center.

As indicated in Figure 1, **the number of Staff members and Research Fellows** (i.e., fellows receiving a research grant from the Center) **seems to have reached in recent years a stable level** (i.e., between 6 and 8 people), which is largely a function of the current level of available resources and projects turnover. At least two key turning points can be identified in the evolution of the Center since it was founded in 2006: (i) a first consolidation of our organization model at the end of 2008, with the ap-

pointment of a Managing Director and an Administrative Manager; (ii) the delivery of the results of a first wave of relatively large projects led by the Nexa Center, e.g., the COMMUNIA and LAPSI European networks, in 2011/2012.

Figure 1: Number of staff members (including Research Fellows) at the Nexa Center, 2006 – 2013



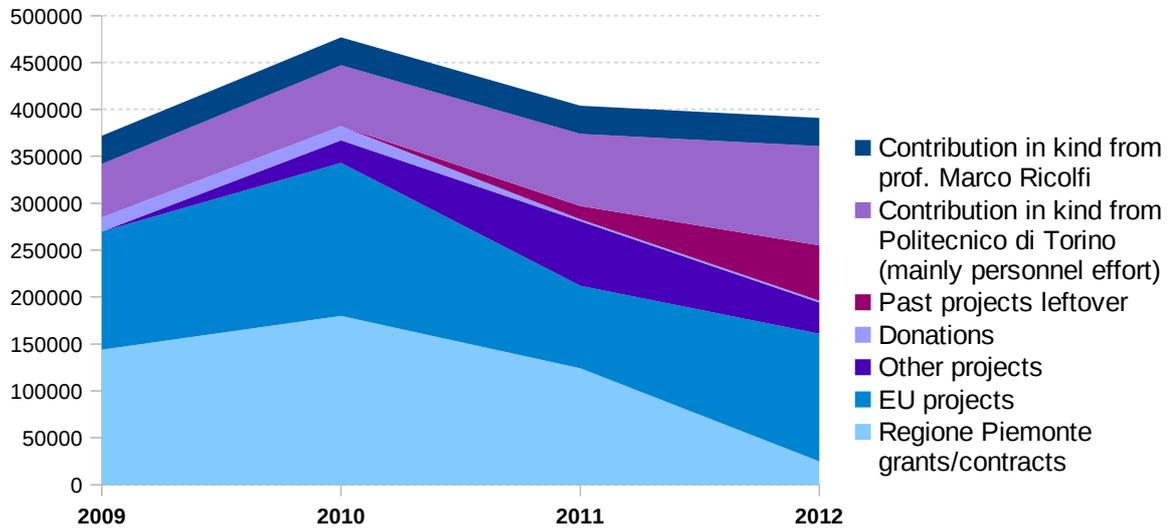
Stable situation of the number of staff members

Major investments in European and other project proposals

Certainly, the observations above are tightly related with the evolution of the amount of **financial resources** actually available each year, illustrated in Figure 2. Without going in too much detail, the growth in the number of staff members occurred between 2009 and 2010 is linked with an increase in the available funding in the same period. Since then, **the composition of our financial resources has been gradually changing**. The share related with the contribution from Regione Piemonte is decreasing, while the amount deriving from other sources, e.g., European projects, may decrease or increase depending (at least partially) on external dynamics. In fact, between September and January, the Center devoted **major resources to European and other project proposals**, namely in the FP7 ICT Call 10 and Science in Society Call 2013, unfortunately with limited success.

For the first time in its history, the Nexa Center is arguably focused on a sufficiently wide set of research areas, and holds sufficiently established organizational skills, to be able in principle to handle even more projects and staff members. However, in order to actually scale up, opening new research threads beyond its currently ad-hoc funded activities, being able at the same time to continue attracting visiting scholars, **the Center would need further financial support, in particular in the form of unrestricted donations to be invested without the strict constraints of funded projects**. In this vein, the Nexa Center also started exploring less traditional forms of funding, e.g. crowd-funding models, in order to assess whether and how such models could be effectively adopted given our academic nature. Achieving an increased financial autonomy is therefore one of the most important challenges the Center will tackle in the near future.

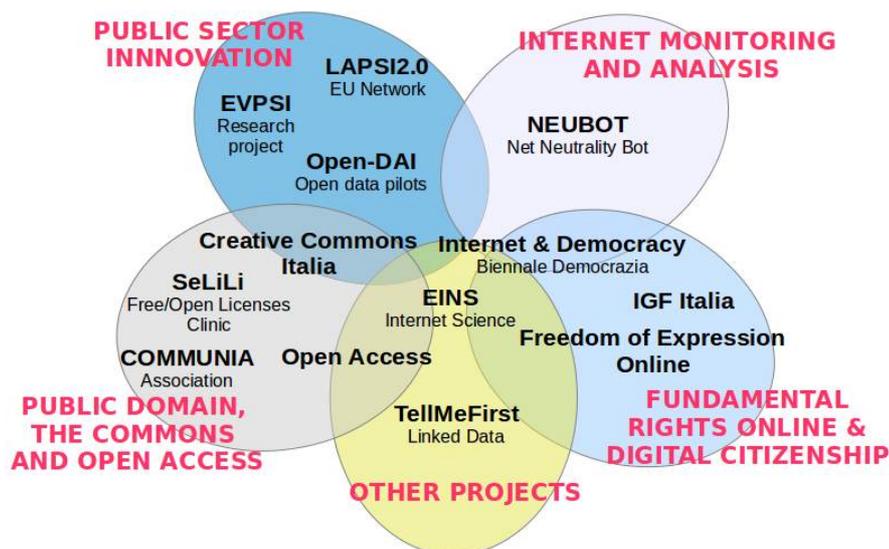
Figure 2: Composition of the financial resources of the Nexa Center, in Euros, 2009 – 2012



Summary

The report at hand describes the research and policy support activities of the Nexa Center over the period May 2012 - May 2013. These activities are described along four main threads, complemented by a residual group of other projects and a Teaching line of activities which began in Spring 2012. A snapshot of our thematic areas, including the indication of the main projects/initiatives that compose them, is presented in Figure 3.

Figure 3: Thematic areas and projects of the Nexa Center, 2013



Public Sector Innovation

Public Sector Information (PSI), and open data in general, still represents arguably the major field of research and policy support of the Center. In this respect, we recognize that PSI-related projects can be inscribed into a broader area labeled “**Public Sector Innovation**” (p. 13). In fact, studies, pilot actions, and policy support in the field of open government data can be increasingly conceived as part of a thread encompassing innovation within (and/or fostered by) the public sector, open government, and governance models for smart cities.

It is the case, for instance, of the **Open-DAI** EU-funded project (p. 14), aimed at supporting pilot actions grounded on the reuse of PSI made available by local public administrations. The project experienced a significant consolidation during the reporting period, also in light of the contribution as domain expert in open data by the Nexa Center, leading the **exploitation strategy** of the project. Open-DAI represents a **ground-truth example of open information architectures** within public administrations, with potential impact in terms of internal efficiency and ability to enable innovation by third parties. In fact, our effort within the project involves both methodological analysis (e.g., in terms of future governance models of the platform) and actual support to the design of service pilots.

The Center continued to translate its open data research findings into **policy analysis and support**, within the Open Data task-force established by Regione Piemonte (p. 15), but also through seminars involving civil servants at national and local level, and in the context of specific projects, such as the EU-funded **Homer**, p. 16, (with a contribution on open licensing applied to PSI). In particular, the **recent legislative evolutions** at both European (the amended PSI Directive) and Italian level (‘Transparency’

Directors

Juan Carlos De Martin - Founder and Co-Director

Juan Carlos De Martin is co-founder and faculty co-director of the Nexa



Center for Internet & Society at the Politecnico of Torino, Italy. He is also Faculty Fellow at

Harvard University Berkman Center for Internet & Society and a Senior Visiting Researcher at the Internet and Society Laboratory of Keio University (Tokyo). His most recent main interest is the future of university in the Internet age, a topic on which he is writing a book. In 2012 he published, together with co-editor Melanie Dulong de Rosnay, "The Digital Public Domain: Foundations for an Open Culture",

In 2003 he co-founded, with law professor Marco Ricolfi, Creative Commons Italy, which he led between 2005 and the end of 2012. Between 2007 and 2011 Juan Carlos De Martin was the coordinator of COMMUNIA, the European thematic network on the digital public domain (p. 26). Since 2007 he is President of the libraries of the Politecnico di Torino. Before returning to Italy in 1998, Juan Carlos De Martin was a visiting researcher at the University of California at Santa Barbara for two years and, after receiving his Ph.D. in Telecommunications from the Politecnico di Torino, he worked for two years at Texas Instruments in Dallas, Texas. Since Spring 2012 Juan Carlos has been teaching a new course on the digital revolution to first-year students at the Politecnico di Torino. Juan Carlos De Martin also serves as member of the Scientific Board of the Institute of the Italian Encyclopedia Treccani and of the Biennale Democrazia (p. 34). He is a frequent op-ed contributor to "La Stampa", one of the Italian leading newspapers, and he often acts as a commentator in European media. He is a member of the Institute of Electrical and Electronic Engineers (IEEE) and is author, or co-author, of over 100 peer-reviewed conference papers, journal papers and book chapters.

Decree and Digital Agenda) call for the expertise of the Center to support the implementation of the open data-oriented prescriptions they contain.

During the reporting period, the final policy papers issued by the LAPSI Network (p. 17) were delivered, and the **LAPSI 2.0 Network** (p. 17) started its activity, with the Nexa Center amongst its partners. The Center participates in LAPSI 2.0 building on an already strong track-record in the field. Although the project is negligible from the financial point of view, it represents an opportunity to remain **at the cutting edge of (legal) research and policy support in the PSI domain**.

The Nexa Center furthermore promoted (or was actively involved into) **policy-support initiatives concerning Open Government models**, related in particular with the Smart City Agenda of the City of Turin (SMILE) and the drafting of a Smart City Manifesto, bringing a fundamental rights-aware perspective in the debate (all briefly discussed in p. 19).

As a last point for the "Public Sector Innovation" thread, the Center contributed to the enhancement of the **#SocialPA survey on the online presence in social networks of Italian public administrations** (p. 21), mainly by improving its methodology and applying some further degree of automatization in the data retrieval activity.

The activities in Open-DAI and LAPSI 2.0 are continuing beyond the reporting period. Our policy support in the field of Open Government Data will take into account recent changes in the Italian law, requiring implementation of new actions and processes by public administrations. In this respect, specific collaborations beyond the one with Regione Piemonte can be foreseen. In general, our activities in the PSI field will be increasingly conceived as part of a wider framework concerning innovation in (and fostered by) the public sector.

Public domain, the commons and open access

This second thread includes the **Creative Commons Italy** project, which characterized from the beginning the activities of the founders of the Nexa Center, and the closely related **SeLiLi open licenses clinic**. The **Communia International Association**, continuing the work of the European Thematic Network from which it originated, and various activities in the domain of **digital cultural heritage** are also part of this stream. Finally, this thread encompassed some activities supporting the **public domain and open access** related initiatives of the **library system at the Politecnico di Torino**.

As the Italian affiliate institution of the international Creative Commons network, the Nexa Center was involved in the debate and in the drafting process that will lead (arguably by the Summer) to the publication of the **fourth version of the Creative Commons Public Licenses** (p. 23). On top of leveraging its competences about European intellectual property law and public sector information, providing the aforementioned fundamental inputs and feedbacks

about the management of **database rights** in the licenses, the Center was directly consulted on various issues, e.g., about **cultural heritage rights** (a peculiar set of rights concerning ancient artifacts and other “cultural heritage goods” in Italy, Greece, Turkey and other countries). Creative Commons Italia also underwent an organizational change, with Juan Carlos De Martin passing the baton of **public lead to Federico Morando**.

SeLiLi, the free/open licenses law clinic (p. 26) that complements Creative Commons Italia (but also facilitates the use of open source licenses) is also continuing its work in line with the previous reporting period, with 32 cases and about 140 messages on the internal mailing list (30 cases and about 200 messages in 2011/2012). Some tangible outputs in this domain included the **second public annual report of the SeLiLi project** and some research papers (e.g., about the **interoperability of open licenses**, by Federico Morando).

Looking toward the forthcoming reporting period, the **open access** domain (p. 24) is especially promising, in particular from a policy support angle. On the one hand, at the beginning of the Spring of 2013, **Nexa co-director, prof. Juan Carlos De Martin, has been appointed National Point of Reference**, following Commission Recommendation 17.7.2012 C(2012) 4890 on access to and preservation of scientific information, and head of a permanent Italian working group for **Open Access Policies** (involving a Director General of the Italian Ministry of Education, University and Research and a Director of the National Research Council). On the other hand, in May, the European Commission started the **negotiation to fund** – through the Science in Society programme – **the PASTEUR4OA project** (Policy Alignment Strategies for European Union Research for Open Access), shortly described in p. 42, a co-ordination action to support the definition, development and implementation of open access strategies and policies in the European Research Area. Moreover, the work on the evolution of copyright in the digital age (i.e., the research related with the so-called “copyright 2.0” proposal) remained in the background during the last reporting period, but some major **thinking toward a general theory of intellectual property in the digital age** is in progress in this domain and we expect new results in the forthcoming future (see § 2.7 Outlook, p. 28). More specifically, we are working on the idea that a Third, digital networks-driven Innovation Paradigm for fostering innovation and creativity is emerging, for which cooperation-enabling rules take the precedence over exclusivity, with a view to using the insights gained in this perspective as an overarching tool to assess current developments.

The **Communia International Association** (p. 26), co-funded by the Nexa Center and based on the work of the Communia European Thematic Network that the Nexa Center designed and led, is now up and running. It produced several **policy papers** on issues such as draft European directives or their review (e.g., the orphan works Directive, the review of the PSI Directive, the proposed European Directive on collective management of copyright), a “Positive Agenda” for the digital public domain at the EU and WIPO level, and

Directors

Marco Ricolfi - Founder and Co-Director

Prof. Ricolfi, was born on 19.7.1952, received his degree at the Faculty of



Law of the University of Turin on 1974. Master of Laws, Yale Law School, 1975-1976. He currently

is professor of Intellectual Property Law at Turin Law School, where he also teaches Business Law. He is Director of the LL M in Intellectual Property, organized by Turin Law School together with WIPO and ILO. Between 2010 and 2012, he has been the scientific coordinator of the LAPSI European Thematic Network on Legal Aspects of Public Sector Information (p. 17).

Staff

Federico Morando - Director of Research and Policy & Research Fellow

Federico is an economist, with interdisciplinary research interests focused on the intersection between law, economics and technology. His research activity at



the Nexa Center mainly concerns new models of production and sharing of digital contents. He also taught intellectual property and competition law at Bocconi University in Milan and he is an associate editor of the IJCLP. He has an undergraduate degree in Economics from Bocconi Univ. and a master's degree in Economic theory and econometrics from the Univ. of Toulouse. He holds a Ph.D. in Institutions, Economics and Law from the Univ. of Turin and Ghent. He joined the working group of the Nexa Center in 2006 at the beginning of its first year of formal activity. From Dec. 2012, he leads the Creative Commons Italy project (p. 23) and he is a member of the Open Team of Regione Piemonte (p. 15). From 2008 to 2012 he served as the first Managing Director of the Center. From 2013 he is Director of Research and Policy, focusing on the coordination of the cross-disciplinary research activities of the Center and on the related policy support actions.

the EC Horizon 2020 Open Access policy. Since October 2012, the Communia Association is also a **WIPO observer**.

Finally, the Nexa Center became an increasingly strategic point of reference about **digital cultural** heritage (p. 27). The Center is arguably one of the main competence center about the **legislative aspects** of this domain in Italy, as confirmed by the fact that Nexa fellow Deborah De Angelis offered her legal expertise to support the **Italian edition of the Wiki Loves Monuments contest** (about the photographic reproduction of cultural heritage goods). This work led to the historical signature of a **memorandum of understanding between the Italian Ministry of Culture and Wikimedia Italia**. In parallel, Nexa fellow Marco Ciurcina offered its expertise to Mappa, an innovative project of the University of Pisa concerning the creation of a publicly accessible digital archive of the local archaeological excavations. Nexa fellows Enrico Bertacchini and Federico Morando also published a peer-reviewed article about the economic models of exploitation of digital reproductions of cultural heritage goods.

Internet monitoring and analysis research

The **Internet monitoring and analysis research** saw important steps achieved. The **Neubot (Network Neutrality Bot)**, described in p. 30, integrated in the Measurement Lab since 2012, was improved **by adding more experiments and making it more robust and reliable** (e.g., by adding digitally signed Win32 auto-updates). With help from five contributors, the Nexa Center released **four new versions of Neubot**. On the average, during the reporting period, Neubot performed 22,000 measurements per day and collected 250 MByte of data per day.

In terms of scientific output, Simone Basso (Neubot project lead) presented a paper describing the Neubot model to estimate Packet Loss Rate (PLR) at the Workshop on Measurements Up and Down the Stack (ACM SIGCOMM). **A follow-up paper was accepted by the ACM SIGCOMM Computer Communication Review (CCR)**.

In the near future, Neubot will be funded by an unrestricted gift from Google/Measurement Lab. There is also the possibility of further funding via the MorFEO EINS Open Call proposal (p. 46), under evaluation as of May 2013. Three main research and development directions are envisaged for Neubot: (i) write new tests and a prototype Android App; (ii) finalize the models to estimate further network parameters and start to studying the performance of the Micro Transport Protocol (a variant of the BitTorrent peer-to-peer file sharing protocol); (iii) publicly release a data visualization website. Moreover, an increased adoption of the Neubot software could be promoted by Regione Piemonte in order to gather data useful to support the regional connectivity strategy and inform digital divide related policies.

Fundamental rights online and digital citizenship

The thread concerning **fundamental online rights** (p. 32) was

characterized by the **scientific organization of the Italian Internet Governance Forum 2012** and by the **contribution of the Center to the Biennial of Democracy**. It also included other activities concerning **online freedom of expression in Italy**, such as the continuing policy support activity concerning anonymity online and the access to the **free (as in freedom) WiFi connectivity** offered by Regione Piemonte (p. 36), and the contribution of the Center to the **Global Information Society Watch 2012** titled “Popular Resistance to Corruption in Italy” (p. 35).

The Nexa Center was the scientific coordinator of the **IGF Italia 2012**, held in Turin on October 18-20, 2012, under the organizational coordination of Regione Piemonte (p. 33). IGF Italia 2012 was the main event organized by the Nexa Center during the reporting period (incidentally, we also decided to merge our annual conference with this major meeting concerning many of the core topics studied by the Center). Some of the discussed topics included various digital divides (cultural, technological, economic, infrastructural), network neutrality and eGovernment (with specific sessions on open data and on the Digital Agendas at various administrative levels). The Forum featured a **keynote of Stefano Rodotà**, Nexa Trustee and professor emeritus at Università La Sapienza, various plenary speeches, including **Constance Bommelaer**, Director of Public Policy at Internet Society, **Janis Karklins**, Assistant Director-General for Communication and Information Sector at UNESCO, and **Massimo Giordano**, Regional Minister of Innovation, and registered messages from **Vinton Cerf**, Chief Internet Evangelist at Google, and **Giulio Terzi di Sant’Agata**, Italian Minister of Foreign Affairs. A plenary session, with the participation of **Francesco Profumo**, the Italian Minister for Education, University and Research concluded the Forum. One of the positive side-effects of contributing to the organization of IGF Italia was the close collaboration with the Top-IX consortium and CSP - Innovation in ICT. These institutions were already established Piedmontese partners of the Nexa Center, but this joint project increased even further the mutual knowledge and respect.

The Nexa Center continued to contribute to **Biennale Democrazia** bringing Internet & Society issues within the program. Biennale Democrazia is a biennial public event organized by the City of Torino, a “permanent public laboratory” nurturing civic engagement and thinking about democracy (p. 34). In 2013, the Center organized **three public events** involving speakers such as **Stefano Rodotà**, **Ugo Mattei**, **Roberto Casati** and **Alexander Trechsel**: “**Is Internet a fundamental right?**”, “**Sharing knowledge**” and “**The utopias of e-democracy**”. In collaboration with Wikimedia Italia and other partners, the Nexa Center also **tutored tens of high school students editing Wikipedia** within the “Dai una Voce alla Democrazia” project (i.e., “Give a voice to democracy”, but also “Give an encyclopedia entry to democracy”).

Juan Carlos De Martin has kept working on his **book on University and Democracy in the Internet Age**, signing a contract with a Turin-based publisher. The book will be presented at the next Torino Book Fair in May 2014; a CC-licensed version will be available

Staff

Raimondo Iemma - Managing Director & Research Fellow

Raimondo holds a MSc in Industrial engineering from Politecnico di



Torino. He joined the Nexa Center in early 2012 as Staff Research Fellow, becoming Managing Director in early 2013. He collaborates in the management of research projects and in the coordination of the activities of the Center (p. 54), and performs research and policy support in the field of Open Government Data and innovation within (or fostered by) the Public Sector (p. 13). Amongst the projects he is specifically involved into, Open-DAI (p. 14), the EINS Network of Excellence in Internet Science (p. 39), the LAPSI 2.0 network (p. 17), and policy support to Regione Piemonte (p. 15). He has been participating in several EU-funded research projects and networks in fields related with Future Internet, legal and economic aspects of Public Sector Information, Open Data architectures, and economics of science.

Staff

Selina Fenoglietto - Administrative Manager

Selina Fenoglietto joined the Nexa Center for Internet & Society in May 2009 as administrative assistant. She holds a Bachelor degree in Economics from the Università di Torino and her former experiences include the administrative management of projects funded by the European Commission, the World Bank and the Italian Foreign Office. She is the administrative manager of the Center since December 2010.



Nadia Tecco - Administrative Assistant

Nadia Tecco joined the Nexa Center for Internet & Society in July 2012 as administrative assistant. She holds a Bachelor degree in International and Diplomatic Sciences from the University of Turin and a Ph.D. in Analysis and Governance of Sustainable Development from the University Ca' Foscari of Venice. Her previous job experiences include both advisory services for the management and execution of projects funded by the European Commission and research activities in the fields of Environmental Economics and Political Ecology.



online some time after the launch.

Within this thread, it is also worth mentioning the **participation of the Nexa Center in some third party initiatives** (p. 36). On the one hand, in May 2012, Raimondo Iemma, Nexa research fellow and currently managing director, took part in the **Internet at Liberty 2012** conference, sponsored by Google, that brought together activists and other stakeholders, as well as several representatives of academic centers active in the online freedom of expression domain. On the other hand, Alessandro Mantelero, Nexa director of privacy and faculty fellow, is going to be involved (as external expert) in **Safety Kids@School**, a “digital civic education” programme aiming at increasing the awareness of teachers, kids and their families about the risks and opportunities related with the use of social media. The initiative is organized by the Assosecurity association, in collaboration with CSP-Innovation in ICT (one of the established Piedmontese partners of the Nexa Center) and the information technology institute of the Italian National Research Council.

In the next reporting period, the Nexa Center will continue to be involved in the main projects mentioned above (e.g., in the organization of IGF Italia 2013), while the first main activity within this thread will be the organization of **the fourth Annual Nexa Conference that will be focused on Internet & Democracy issues**.

Other Projects

Amongst the projects that do not belong to a specific thematic area, the scope of the contribution of the Center in the **EINS Network of Excellence in Internet Science** (p. 39) was detailed within the various Joint Research Activities, namely including **de facto standard setting for open data licensing, online ‘privacy by design’ regulation**, and several case studies of highlighting the interplay between online and offline interaction in some Italian examples focused on **e-democracy and e-participation**. Moreover, the Nexa Center Co-Director Juan Carlos De Martin contributed as scientific co-chair to the **First EINS Conference on Internet Science**, held in Brussels in April 2013. The participation of the Center in EINS allowed **opportunities for networking and new collaborations**, especially in terms of researchers mobility (e.g., with the Nexa Faculty Fellow Alessandro Mantelero spending three months as visiting scholar at the Oxford Internet Institute) and joint drafting of research proposals (e.g., CRoNN, described in p. 42).

In March, an **open source software designed for classifying and enriching textual documents via Linked Open Data, TellMeFirst**, was released by the Nexa Center (p. 40). In particular, TellMeFirst uses Natural Language Processing and Semantic Web technologies to extract the main topics from texts, in the form of DBpedia resources. TellMeFirst was the result of the application of theoretical studies on Linked Data carried out by the Center to the implementation of semantic web technologies.

Other Activities

During the last reporting period, the Nexa Center performed a

large investment in preparing European and other project proposals (p. 41 and ff.). In particular, the Nexa Center coordinated the submission of a research project under the Future Internet Research Experimentation objective of the FP7 ICT Call 10. The proposal, **CRoNN**, aims at **performing distributed measurements on the open Internet as well as measurements in specific testbeds, in order to validate theoretical assumptions on network neutrality** (p. 42). Unfortunately, CRoNN did not receive a sufficiently high evaluation to compete for funding. Other EU proposals involving the Nexa Center as partner (in the fields of community networks, and cloud computing) were not accepted, too.

A Coordination and Support Action presented within the EU FP7 Science in Society Call 2013, **aimed at harmonizing national Open Access policies (Pasteur4OA)**, led by the Greek National Documentation Center and involving the Nexa Center as partner, was successfully evaluated and entered the negotiation phase in May 2013 (p. 42).

As part of the Teaching thread, the **“Digital Revolution” undergraduate course at Politecnico di Torino** (p. 49) continued as the first structured teaching activity planned by a member of the Nexa Center (the Co-Director Juan Carlos De Martin), involving also Simone Basso (as teaching assistant) and Giuseppe Futia (as media assistant). The second edition of the course started in March, with an increase in the number of students enrolling (169, vs. 130 in 2012), and involved selected guest speakers, including also Nexa Fellows and Trustees. One student from the 2012 edition joined the 2013 Summer Internship Programme of the Berkman Center at Harvard.

As a tangible sign of **international recognition**, the Nexa Center is amongst the eight founding members of the **Network of Interdisciplinary Internet & Society Research Centers launched at the Berkman Center at Harvard in December** (p. 57), aimed supporting international cooperation between the main research centers at worldwide level working in the same thematic domains. The Network aims to increase interoperability between participating centers in order to collectively confront transnational issues on a global level. Amongst its initiatives, the Network is promoting learning calls, periodical events, teaching activities, researchers exchange, and joint communication.

Furthermore, the Nexa Center has recently become part (as the second European member after the University of St. Gallen) of the **Global Network Initiative** (p. 57), a multi-stakeholder international group aimed at protecting and advancing freedom of expression, privacy, transparency and corporate social responsibility in the ICT sector.

As far as the **internal management** of the Nexa Center is concerned, some changes were introduced during the reporting period (mostly formalizing already ongoing practices within the Center). The Nexa Faculty Fellow Alessandro Mantelero was appointed Director of Privacy (this topic being his major area of expertise and research).

Staff

Claudio Artusio - Staff Research Fellow

Claudio graduated in Law at the Università di Torino in 2009. He collaborates with the Nexa Center since the spring of 2010 focusing on Public Sector Information (PSI).



Since 2013, as Staff Research Fellow, he performs research in the field of open contents and open licenses, and in particular Creative Commons Italia (p. 23) and SeLiLi (p. 26). He has played a key organizational role in LAPSI (p. 17) and EVPSI (p. 18). He is currently the Nexa project manager for the LAPSI 2.0 network (p. 17). Beyond research, he supports the Managing Director in the organization of the Center.

Staff

Luca Leschiutta - IT Manager

After graduating in Electronic Engineering, he pursued a PhD in Information Technology at the Internet Media Group of the Politecnico di Torino. His fields of



study have been image compression and wireless networking. He also taught programming and networking courses. In the past he worked as a reliability engineer at Alenia Spazio in the ISS project.

He has been collaborating with the Nexa Center since the very beginning of its formal activity. He is currently mostly involved with system administration and web development.

Since 2010 he also works in a similar position at the Human Genetics Foundation in Torino.

Giuseppe Futia – Communication Manager



Giuseppe Futia joined the Nexa Center in February 2011. He holds a Master Degree in Cinema and Media Engineering from Politecnico di Torino. Since 2008, he collaborates with the Italian newspaper “La Stampa”, especially on Internet & Society topics. At the Nexa Center, Giuseppe is in charge of communication and media (p. 59). He holds data analysis and data visualization skills, useful to both sustain the outreach of some of the Nexa projects, and to support research in the field of open data.

Federico Morando took the role of Director of Research and Policy, leaving the position of Managing Director to Raimondo Iemma (p. 54). Some (small but useful) innovations were applied to internal processes, e.g., the design and implementation of a new model for the internal reporting of the staff members, allowing more detailed analysis on the effort spent per thematic area and type of activity by the Center as a whole, and by the single staff members. During the reporting period, three stagiaires were involved in the Center activities, covering as research topics the online presence in social networks by public administration, online privacy and corporate social responsibility, and IP law respectively.

In terms of outreach, the already mentioned **Italian Internet Governance Forum 2012** (p. 33) has been the major event organized by the Nexa Center during the reporting period. During the reporting period, several other events were organized and hosted, among which the **10th anniversary of Creative Commons** in December (p. 60).

The “**Nexa Wednesdays**” public seminars (p. 60) continue to be successfully held monthly in the conference room of the Center with live webcast (the 50th “Nexa Wednesday” was celebrated in February). The “**Nexa Lunch Seminars**” (p. 61) also regularly take place on the fourth Wednesday of each month.

Moreover, the main mailing-list of the Center showed an increased number of participants (from about 410 in the previous reporting period to more than 470) and messages (from about 2,200 to almost 3,300) arguably confirming itself as the **premier mailing-list for in-depth discussion of Internet-related issues in Italy** (p. 64). The Nexa Center also continued to regularly issue press releases concerning its seminars, workshops, meetings and other initiatives (see nexa.polito.it/press-releases/).

During the reporting period, the **Nexa website** (p. 63) has been able to collect a significant amount of traffic, with relevant indicators showing significant improvements since the previous report (about 31,100 visits – 16,900 unique – and 357,000 hits per month; while data for the previous year were: 22,600 visits – 12,200 unique – and 262,000 hits).

1. PUBLIC SECTOR INNOVATION

This section describes the main activities performed by the Center in the field of open government data and public sector innovation enabled by ICTs. In particular, our contribution in the Open-DAI project is reported as an example of designing new ways for public administrations to provide services, also using open data. Other activities in this thread are mainly related with policy support on legal aspects of public sector information, as well as promising collaborations aimed at defining fundamental rights-respectful principles within 'smart city' programs and projects.

1.1 **Open-DAI: Pilot(s) Opening Data Architectures and Infrastructures of EU Public Administrations**

Innovating in the Public Sector, using cloud computing and Service-Oriented Architectures to break internal information silos and make data available externally for useful applications.

Project website/page	http://www.open-dai.eu
Status	ongoing
Period	February 2012 – September 2014
Funding (of which Nexa)	1,645,984 € (88,400 €) for the entire project
Funding organization	European Commission (CIP-ICT-PSP-2011-5)
Person(s) in charge	Federico Morando (<i>Nexa project manager</i>)

Open-DAI is a platform allowing public sector information exchange and publication as open data services, in a cloud environment. In the reporting period, the platform has been fully implemented in its main components, setting the stage for the development of specific pilots, and applications by third parties. Moreover, the exploitation strategy (including a draft business plan), aimed at ensuring sustainability beyond the funded period, has been defined.

Background

Funded under the objective “Towards a cloud of Public Services” of the European ICT-PSP 2007 – 2013, Open-DAI is coordinated by the Consortium for Information Services of Regione Piemonte and gathers 11 partners, mostly public data holders and ICT in-house providers. After a slow inception, the project has now more clearly defined its scope, having designed the overall architecture, and identified

the datasets to be made available under a shared taxonomy by the public sector bodies of the project consortium.

Objectives

During the reporting period, the project effort has been fo-



cused on: (i) the integration of the software components of the Open-DAI platform, especially with respect to the data virtualization strategy and the fine-tuning of the cloud environment; (ii) the adoption of an exploitation plan, detailing future scenarios beyond the funded period; (iii) the definition of the pilot services to be developed within the project. The Nexa Center has contributed to (i), and played a

steering role in (ii).

Results

The Nexa Center has coordinated the definition of the Open-DAI exploitation plan, identifying four possible scenarios: 1 – Partial reuse of project outputs as components is a default (worst case); 2 – Open-DAI available as an open source platform maintained by one of the partners (reasonably feasible); 3 – Data cloud standard offering as part of a major public procurement action (requiring decisions from external stakeholders); 4 – Market approach, grounded on a business plan, the latter being drafted in a specific deliverable released in cooperation with researchers from Istituto Superiore Mario Boella.

1.2 Opening Italian Data: Policy and Operational Support to the Government of Piedmont and Others

Making Italian public sector information freely accessible and re-usable (using Piemonte as a pilot case).

Project website/page	http://www.dati.piemonte.it/ (the open data portal of Regione Piemonte)
Status	ongoing
Period	2011 – 2013 (agreement with Regione Piemonte)
Funding	about 40,000 € in the reporting period
Funding organization	Regione Piemonte
Person(s) in charge	Federico Morando (Nexa project manager)

The Nexa Center continued to support Regione Piemonte in its open government data projects.

Moreover, the support that the Nexa Center offered to the Italian Ministry of Education, Research and University (MIUR) contributed to an important amendment of the Italian Code of Digital Administration (CAD) that now includes an “open by default” clause for public sector information.

Background

The Nexa Center supports the open data related projects of Regione Piemonte since 2009, i.e., since the launch of the first Italian Open Data portal, <http://dati.piemonte.it>.

During the reporting period, Nexa fellow Lorenzo Benussi worked as consultant for the Ministry of Innovation and Research, prof. Profumo, to contribute to the Italian Digital Agenda. This increased our interactions also with the national government.

Objectives

The Center supports cutting edge initiatives in this domain with the twofold objective of promoting socially beneficial initiatives and gathering experience, case studies and empirical evidence to feed our research on public sector information.

The policy support activity of the Center in this domain also contributes to the overall funding strategy of Nexa, thanks to an agreement with Regione Piemonte.

Results

The Nexa Center was one of the main drafters of the by-laws (regulations and official guidelines) implementing the open data law of Regione Piemonte (Regional Law n. 24 of the December 23, 2011): [D.G.R. 22-4687 of October 8, 2012](#). The main innovation introduced by these guidelines is arguably a formal procedure to request data (and possibly fill a complaint), which is now online at <http://www.regione.piemonte.it/urp/opendata/>.

urp/opendata/.

Thanks to Art. 52 of the CAD, all the data published by an Italian public sector body without an express license are to be considered open data. And open data are defined by Art. 68 as data which are reusable by anybody, included for commercial purposes, accessible online in open and machine readable formats, and available for free or at marginal cost.

Finally, it is worth mentioning that, together with the Italian chapter of the international NGO ActionAid, the Nexa Center contributed to the drafting of a project within the MIUR Social Innovation call. The project, concerning the opening and distributed analysis of budget data from Italian municipalities (with a pilot concerning the City of Turin) was submitted by a group of young researchers, but was not funded, however it created a link between Nexa and ActionAid that will hopefully generated further joint initiatives.



1.3 HOMER: Harmonizing Open Data in the Mediterranean

Harmonizing open data in the Mediterranean through better access and reuse of public sector information

Project website/page	http://www.homerproject.eu
Status	ongoing
Period (Nexa contribution)	Fall 2012 – Summer 2013
Funding	36,000 € (Nexa Center subcontracting)
Funding organization	Regione Piemonte (subcontracting within a European project)
Person(s) in charge	Federico Morando (Nexa project manager)



HOMER – *Harmonising Open data in the MEDiterranean through better access and Reuse of public sector information* is a European MED project aiming at facilitating a wider access and reuse of public sector information in Spain, Italy, France, Malta, Greece, Slovenia, Cyprus and Montenegro.

Background

Regione Piemonte coordinates the project and the Nexa Center is contributing to HOMER as sub-contractor, within the broader context of its

open data policy support activities.

A project task force composed of IT and open data experts has been created to support the HOMER partners with respect to the legal, cultural and technological obstacles they may face in opening up their data.

Objectives

The Nexa Center represents the core of the HOMER legal team. The first and main goal of Nexa was to organize a legal workshop, contributing to the transfer of knowledge to the partners.

On the basis of the workshop results, the Nexa Center was also supposed to contribute to the project deliverable on legal issues.

Results

The HOMER legal Workshop was held in Bologna on November 28–29, 2012. It addressed various PSI-related issues, starting from basic intellectual property and data protection issues and encompassing advanced topics, such as the ongoing review of the European PSI Directive or the licensing of public sector information and license compatibility.

The main contribution of the Nexa Center consists in a roadmap/check-list concerning various key steps of an open data project, including: creation of an open data team, identification of the first datasets to be opened, rights clearance, definition of a proper legal framework, and choice of copyright licenses.



1.4 LAPSI 2.0: Legal Aspects of Public Sector Information 2.0

Which are the main legal obstacles to an effective reuse of PSI? Consensus building and policy support at the European level, as a follow-up of the LAPSI network.

Project website/page	http://www.lapsi-project.eu
Status	ongoing
Period	January 2013 – December 2015
Funding (of which Nexa)	446,000 € (16,000 €) for the entire project
Funding organization	European Commission (CIP-ICT-PSP.2012.2.2)
Person(s) in charge	Marco Ricolfi (Nexa scientific supervisor); Claudio Artusio (Nexa project manager).

Starting from the results achieved by LAPSI (p. 17), the LAPSI 2.0 thematic network supports the objectives of the European Open Data strategy by addressing the most relevant legal aspects of access to and reuse of Public Sector Information (PSI), i.e., data produced and collected by public bodies.



Background

The LAPSI thematic network released a set of position papers and policy recommendations, also acknowledged by the European Commission when drafting its Open Data strategy. The LAPSI 2.0 thematic network will

work on the remaining open issues in the fields, also in light of the forthcoming approval of a new version of the European Directive on PSI.

The LAPSI 2.0 consortium holds 23 partners from 15 EU countries, coordinated by the Katholieke Universiteit Leuven (Interdisciplinary Centre for Law and ICT).

Objectives

The Center aims at continuing sharing knowledge and contributing to building consensus on legal aspects of PSI. In particular, as a partner, the Nexa Center aims at remaining at the cutting edge of (legal) research and policy support in the PSI domain. The contribution of the Center aims to be focused on the analysis of legal aspects that are tightly connected with technology (e.g., linked data, open data

services, and related issues, such as license interoperability and standardization). The LAPSI 2.0 consortium decided to focus the first year of activity on the Licensing and Enforcement work packages, leaving Access, IPR and Competition as strategic topics for the second year of activity.

Results

During the reporting period, the LAPSI 2.0 network held its kick-off meeting and the first internal workshop concerning licensing and enforcement. The partners also started to collect best practices and national case studies about licensing practices and enforcement mechanisms.

Finally, the network is pondering the ongoing PSI Directive amendment procedure (the European Parliament's vote is expected in June 2013).

1.5 LAPSI: the European Thematic Network about the Legal Aspects of PSI

The first EU-funded thematic network on legal aspects of public sector information, coordinated by the Nexa Center between 2010 and 2012.

Project website/page	http://www.lapsi-project.eu
Status	concluded
Period	March 25, 2010 – September 21, 2012
Funding (of which Nexa)	517,500.00 € (137,500.00 €) for the entire project
Funding organization	European Commission (CIP-ICT PSP 2007 – 2013)
Person(s) in charge	Marco Ricolfi (project coordinator); Cristiana Sappa (project manager).

The activities of the project formally started in the 1st quarter of 2010; the project lasted 30 months, ending in September 2012. In the closing phase, the network outputs (policy recommendations, conceptual frameworks and papers) were publicly discussed and its deliverables (mid-term and final reports) were submitted. The LAPSI final review meeting took place in November in Luxembourg.

Background

Information generated and collected by public sector entities represents a veritable minefield and various studies suggest that it might make a much greater contribution to EU economies and societies, if current legal barriers to access and reuse were removed. In this context, the European Commission opened a call for proposals for a

thematic network devoted to the policy support and consensus building activities, which could help removing such barriers.

Objectives

As a part of an ICT policy support program, LAPSI directly contributes to the i2010 strategy of the European Commission by building a network of organizations representing the main European *point of reference* for legal issues related to PSI. To make PSI more accessible and re-usable and support the European PSI Directive review process, LAPSI aimed at producing a set of *strategic guidelines* and *policy recommendations*.

Results

The LAPSI network held a final meeting (jointly organized with the EVPSI research project):

the policy recommendations from the Network were publicly discussed in Turin, on July 9-10, 2012 (see <http://www.lapsi-project.eu/finalmeeting>). Formally, the project ended in September 2012. The closing period was dedicated to refine and publish the outputs of the network: 8 policy recommendations; 3 position papers; 2 conceptual frameworks; 1 discussion paper and all the deliverables required by the European Commission (the material is now available at: <http://www.lapsi-project.eu/materials2#2>). During the LAPSI final review meeting it was decided to spread the outputs as much as possible; therefore, the policy recommendation were published on the SSRN Network and will also be published on a special issue of the MULJIT journal.

1.6 EVPSI: Extracting Value from Public Sector Information

A multidisciplinary research project funded by Regione Piemonte in support of Open Government Data policies.

Project website/page	http://www.evpsi.org
Status	concluded
Period	March 26, 2010 – September 26, 2012
Funding (of which Nexa)	621.000 € (205.898,36 €) for the entire project
Funding organization	Regione Piemonte
Persons in charge	Marco Ricolfi (<i>project coordinator</i>); Cristiana Sappa (<i>project manager</i>).

Extracting Value from Public Sector Information: Legal Framework and Regional Policies (EVPSI) is a multidisciplinary research project, coordinated by the Turin Law School, active between 2010 and 2012. The Nexa Center contributed in particular in identifying the main policy implications of the research.

Background

The Internet enables reuse,

sharing, processing combination and integration of huge amounts of information. However, Public Sector Information holders may not have sufficient incentives to manage this potential source of economic and cultural growth, and they often face various technical, legal or economic obstacles. The EVPSI project addresses these difficult issues from a multidisciplinary perspective.

Objectives

In the reporting period, the Center aimed at effectively supporting EVPSI in its ending phase, and extracting interesting policy indications to be used within our policy support activity in the field of open data.

Results

The EVPSI project held a final meeting (jointly organized with the LAPSI Thematic Network) in

Turin, on July 9-10, 2012. In the same period, the Nexa Center finalized its contribution to the project, namely covering the policy implications deriving from the results of the research, most of which conveyed in the *White paper on the reuse of Public Sector*

Information, mainly addressed to civil servants, and within the policy support activities described at p. 15.

The main EVPSI research outputs are collected in the forthcoming volume (Ricolfi and

Sappa, eds.) *Extracting Value From Public Sector Information: Legal Framework and Regional Policies*, published by Edizioni Scientifiche Italiane, Napoli, containing contributions also by Nexa researchers, focused on licensing, and the economics of PSI.

1.7 Open Government & Digital City

Toward an open, respectful, and smart city.

Project website/page	http://nexa.polito.it/e-government-e-democracy ; http://nexa.polito.it/mercoledi-51 ; http://nexa.polito.it/mercoledi-52
Status	ongoing
Period	2011 – present
Funding (of which Nexa)	unknown (negligible)
Funding organization	internal funding
Person(s) in charge	Federico Morando (as <i>Director of Policy</i>)

The Nexa Center is involved in several projects and other activities concerning the Smart City domain. The *fil rouge* of this involvement is a strong attention to the role and rights of citizens.

Background

The Nexa Center participates in the SMILE (Smart Mobility, Inclusion, Life&Health, Energy) project. Coordinated for the City of Turin by the Torino Wireless Foundation, SMILE is a strategic project, aiming at involving several key stakeholders in the definition of the domains and long terms goals of Torino as a Smart City.

Objectives

The activities of SMILE are divided by “tables” and the Nexa Center sits in the Integration table, which aim at providing some overarching principles and assets to the other, sector specific, tables. Moreover, the Politecnico di Torino takes part in the Inclusion table and Nexa provided its input to the overall contribution

from the Politecnico. Such input was focused on the use of open data for a stronger involvement of citizens in the governance of the City.

Results

Within the Integration table of the SMILE initiative, together with other participants (in particular, CSI Piemonte), the Nexa Center supported the proposal of creating an overall governance structure for the data produced by Torino as a smart city. This, of course, taking into account the warnings that the Center raised within the SMILE Inclusion table. There, the Nexa Center offered its expertise, concerning in particular the legislative framework, and stressed the importance of considering, together with the potential of reusing the stream of data generated by a digital city, the impact of such flow of data on the privacy of citizens.

On the same vein, i.e., in order to avoid a vision of the smart city as the “city of surveil-

lance”, the Nexa Center started a fruitful interacting with 5T, which is the organization managing the majority of the data concerning the mobility of Turin (e.g., traffic sensors, parkings, public transport data, etc.). Coordinated by Alessandro Mantelero, various Nexa fellows analyzed and commented the plan concerning the management of the data flow produced by the new Piedmont Integrated Ticket (BIP) travel smart card, which will collect data generated by the customers of more than one hundred public and private firms.

Finally, it is worth mentioning that various Nexa fellows joined a series of dinner discussion salons to support the development of smart city manifesto. The “Urban Media Salon on Smart City Manifesto” initiative is led by Simona Lodi, Mirjam Struppek and Simone Arcagni and it also received various inputs during the 51st Nexa Wednesday and provided the main topic for the following meeting.

1.8 Open Museum and Disability

Leveraging the potential of digital technologies and open data to allow disabled people to better enjoy the Italian cultural heritage.

Project website/page	none
Status	looking for funding and more partners
Period	September 2012 – present (the project is expected to last 1 year from the formal kick-off)
Funding (of which Nexa)	negligible
Funding organization	internal funding
Person(s) in charge	Alessandro Mantelero (<i>scientific coordinator and project manager</i>)

Nexa faculty fellow Alessandro Mantelero drafted a multi-disciplinary research and pilot project titled “Open Museum and Disability”, focusing on the effects of (virtually) opening up museums for disabled people (but possibly to the benefit of the public at large).

Background

Italy's cultural heritage represents one of the main assets of the country. However, and despite some specific provisions of the Italian Constitution that should guarantee to every citizen the possibility of taking part in the cultural and social life of the Nation, the accessibility of this heritage for disabled people is still very limited.

The fact that several Italian museums are hosted in historical buildings makes it even more difficult to achieve a full physical accessibility of their holdings.

Objectives

The project phases and objectives are the following:

- I. preliminary analysis of the relevant legal issues (intellectual property, sector specific regulations, etc.);
- II. involvement of museums, in order to find candidates for a pilot project;
- III. involvement of institutions and research centers with specific skills and competences concerning disabilities and accessibility;
- IV. development of a demonstrator that, leveraging on the potential of digital technologies, will increase the accessibility of the holdings of the museums (both making assets accessible to physically disabled people and offering representations which are more accessible to people with other disabilities);
- V. presentation and dissemination of the results, which will include a report, some scientific publications, and at least one pilot case.

Results

To date, the main results achieved concern the expression of interest of partner institutions. CSP – Innovation in ICT is available as the technological [wikiloves](#) partner with the task of developing a demonstrator, while the Area Onlus association is willing to play the role of domain expert concerning disabilities. Moreover, the Associazione Museo Diffuso della Resistenza, della Deportazione, della Guerra, dei Diritti, della Libertà is available to host a pilot project.

The Open Museum and Disability project was also included in an Italian national research project (PRIN) proposal, in collaboration with the Institute of Informatics and Telematics of the Italian National Research Council and coordinated by the University of Pisa. Such proposal may represent a concrete funding and networking opportunity, as confirmed by the fact that the project passed the first evaluation step (and is waiting for the second and final round).

1.9 #socialPA: Surveying Italian Local Governmental Bodies on social media

A quali- quantitative analysis of the activities by Municipalities, Provinces and Regions on Facebook and Twitter.

Project website/page	http://giovanniarata.tumblr.com/socialPA
Status	ongoing
Period	October 2010 – present
Funding (of which Nexa)	negligible
Funding organization	internal funding
Person(s) in charge	Giovanni Arata (<i>project manager – giovanni.arata@gmail.com</i>)

The project aims at analyzing how Italian local Governmental Agencies use Twitter and Facebook. Through time, a large dataset has been created, fostering further research by other scholars and firms, and algorithmic tools have been developed to help searching and cataloging of governmental agencies on both social media platforms.

Background

Governmental agencies are flowing to social media platforms, especially to Facebook, Twitter and YouTube. However, little research has been conducted with regards to the profi-

ciency and actual practices of public organizations online - and no data were actually available about Italian ones before #socialPA was started in 2010.

Objectives

The project aims at providing quantitative and qualitative evidence about the activities of local Governmental Agencies on social media. Data have consequently been gathered with regard to: the overall numbers of the phenomenon, the emerging trends, the legal and organizational issues associated to social media usage by Public Bodies.

Results

The main outputs of the project are the reports, which are released on a yearly basis. 4 Annual papers have been released so far, 3 of which are available at the Nexa Planet Library: <http://nexa.polito.it/nexa-planet>. One of them has also been translated to English and is currently available at: <http://www.slideshare.net/nexa-suno2001/twitterpa2011-englishvers>. Moreover, an app has been developed to help the searching and cataloging of governmental agencies onto Facebook databases.

1.10 Outlook

The activities in Open-DAI and LAPSI 2.0 are continuing beyond the reporting period. Our policy support in the field of Open Government Data will take into account recent changes in the Italian law, requiring implementation of new actions and processes by public administrations. In this respect, specific collaborations beyond the one with Regione Piemonte can be foreseen. In general, our activities in the field of PSI will be increasingly conceived as part of a wider framework concerning innovation in (and fostered by) the public sector.

As an objective for the next reporting period, we intend to increase our scientific output in the field, by formalizing and integrating with each other several bits of knowledge acquired within funded projects (e.g., on internal processes of public sector bodies; technologies for the management and release of PSI).

The policy and operational support to the government of Regione Piemonte in the open data domain is expected to be intensified in 2013/2014, also in connection with the fact that Roberto Moriondo from Re-

gione Piemonte has been recently appointed as the representative of Italian Regions in the steering committee of the Agency for Digital Italy, that is drafting the first edition of the national open data guidelines.

The further development of #socialPA is related with two main challenges: testing the research methodology in different geographical contexts –to provide and compare results from different countries– and improving the algorithmic tools designed to help searching and analyzing actual records.

2. PUBLIC DOMAIN, THE COMMONS AND OPEN ACCESS

This section summarizes the activities that the Center performed in the field of digital public domain, open licenses and other commons (in particular, immaterial commons in the online environment). A specific focus concerns the contributions of the Center to the drafting of the 4.0 version of the CC licenses. Open Access to scientific information is furthermore a research and policy-support thread whose importance is supposed to grow in the future, also in light of the involvement of the Center in the recently approved PASTEUR4OA European coordination action, that will provide us additional resources and links.

2.1 Creative Commons Italia

The Italian affiliate of Creative Commons, a non-profit organization that enables the spread of knowledge and creativity through free legal tools.

Project website/page	http://www.creativecommons.it/
Status	ongoing
Period	November 2003 – present
Funding	about 10,000 € annually
Funding organization	Regione Piemonte
Persons in charge	Federico Morando (CC Italia project lead); Marco Ricolfi (scientific coordinator).

The Nexa Center hosts and coordinates the activities of the working group of Creative Commons Italy (CC-IT), founded in July 2003. This working group is the original core around which the Center was created.

The reporting period saw the CC 10th anniversary party, the designation of Federico Morando as CC-IT Lead and the main and hopefully final phase of discussion around the drafting of version 4.0 of the CC Public Licenses.

Background

Creative Commons (CC) is a project building a new and more flexible paradigm for copyright. CC helps authors willing to share some of their rights with users and fellow authors user-friendly tools to do so in a legally rigorous way. This is achieved through standardized copyright licenses and some (optional) technical tools to facilitate the choice and understanding of the licenses.



Objectives

Creative Commons Italy is a



project and working group that translates, adapts and checks the compatibility of CC licenses with the Italian legal setting. The project also manages the website and mailing-lists of CreativeCommons.it, collecting and spreading news and information about the project, and deals with awareness, dissemination, and some community building activities.

Results

During the last year, the creativecommons.it website increased its popularity, (monthly average of about 60,400 visits – from about 29,000 different IP addresses). The CC-IT Community's mailing-list saw its member base and number of posts decrease (currently, 170 members and 80 posts; they were 200 and 128, respectively, in the previous year), while the mailing-list devoted to discuss the CC licenses

increased in respect of both members and posts (currently, 371 and 159; they were 356 and 82, respectively, in the previous year).

As in the past, several Nexa Center staff members and fellows took part in various presentations, debates and interviews on CC licenses, playing the role of advocates for open licenses.

In December 2012 a party was held to celebrate 10 years of CC activity, during which Juan Carlos De Martin introduced Federico Morando as new CC-IT Lead.

The third and final public comment period and porting consultation for the 4.0 licenses took place between February and March 2013; the official release is expected in the 2nd quarter of this year.

2.2 Open Access

Performing research and policy support in the field of Open Access to scientific information at national and European level.

Project website/page	N/A
Status	ongoing
Period	2006 – present
Funding (of which Nexa)	limited (in kind + some travel costs)
Funding organization	internal funding (OA policies) (+ exp. PASTEUR4OA funding, see p. 42)
Person(s) in charge	Juan Carlos De Martin

Open Access (OA) is a movement promoting free access to academic scientific production. Several challenges – from technological, legal, economic and procedural standpoints – have to be faced to improve the adoption of OA by scientific institutions. Also in light of the appointment of Nexa co-director Juan Carlos De Martin as Italian National Point of Reference for OA, the Nexa Center will be increasingly involved in research and policy support in this field.

Background

Within previous projects related with open contents, OA recommendations were already produced by the Center (e.g., as a result of the Communia network, p. 26).

Moreover, the Center has been traditionally committed into raising awareness on OA by its hosting institution. In 2011,

we supported the design and launch of the Publications Open Repository of Politecnico di Torino (PORTO). Since 2013, Nexa co-director Juan Carlos De Martin is the Rector's Delegate for the Library System of Politecnico di Torino (and formerly its President).

Objectives

During the reporting period, the Center concentrated its efforts to gather adequate tools and resources (in terms of interactions and funding) to increase its involvement in the topic. In particular, as a second iteration after the rejection of the PROSA proposal on OA to scientific data (EU FP7 Call SiS 2012, p.47), the Nexa Center participated in another OA-focused coordination action proposal (see Results).

Results

Nexa co-director, Juan Carlos

De Martin, has been appointed National Point of Reference, following Commission Recommendation 17.7.2012 C(2012) 4890 on access to and preservation of scientific information, and head of a permanent Italian working group for Open Access Policies.

On the other hand, in May, the European Commission started the negotiation to fund – through the Science in Society programme – the PASTEUR4OA project (Policy Alignment STRategies for European Union Research for Open Access, p. 42), a coordination action to support the definition, development and implementation of open access strategies and policies in the European Research Area. PASTEUR4OA is led by the Greek National Documentation Center, with the Nexa Center as partner mainly involved in networking with policymakers and OA policy recommendations drafting.



2.3 Public Domain: Supporting the Libraries of the Politecnico di Torino

Supporting the initiatives of the Library System of the Politecnico di Torino to increase awareness on the Public Domain

Project website/page	http://www.biblio.polito.it/eventi/flashmob/
Status	ongoing
Period	February 28, 2012 – present
Funding (of which Nexa)	in kind (negligible)
Funding organization	internal funding
Person(s) in charge	Giuseppe Futia (Nexa contact person)

In order to increase awareness on the Public Domain, the Nexa Center supported the initiative of the Library System of the Politecnico, through a series of live performances of drama that revisiting the works of authors entered this year into the public domain.

Background

Like in previous years, the Nexa Center is supporting the organization of long-term initiatives for a “continuous celebration” of the public domain (some examples are “The Public Domain Manifesto” and “Public Domain Day” websites). In 2013, as evidence of the growing interest for the public domain initiatives by the Politecnico di Torino, prof. Marco Gilli, rector of the Politecnico, signed an agreement with the City of Turin – Turin’s Public Libraries and Fondazione Teatro Nuovo.

Objectives

The objective of this project is to make more people (students, professors, librarians, users of public libraries) aware of the richness and further potential of the Public Domain.

To do that, the Library System of Politecnico di Torino, with the support of the Nexa Center, the Public Libraries of the City of Turin and the actors of Fon-

dazione Teatro Nuovo Torino, is promoting a series of live performances, revisiting the works of some of the greatest writers and artists entered this year into the public domain.

Results

The 2013 activities to celebrate the public domain were defined starting from a public workshop/brainstorming, orga-

nized at the Central Library of the Politecnico on March 8. Through flash mob experiences, actors of Teatro Nuovo proposed some shows to the students, first in the rooms of the Politecnico libraries and in some of the City of Turin libraries. On May 20, a performance was organized within Polincontri Classica, a series of classical music concerts held at the Politecnico.

MARCO 20 ANNI STUDENTE

CELEBRAZIONE DEL PUBBLICO DOMINIO

Il primo gennaio di ogni anno, decidono i termini di tutela dei copyright sulle opere prodotte da autori deceduti da 70 anni. Una parte dell'immenso patrimonio di conoscenza, arte e letteratura diviene quindi liberamente disponibile nel Pubblico Dominio. Tali opere si possono senza vincoli stampare, copiare, eseguire in pubblico, mettere in scena, tradurre, riprodurre su ogni supporto...

L'Area Bibliotecaria e Museo del Politecnico di Torino, la Città di Torino, Biblioteche Civiche Torinesi e la Fondazione Teatro Nuovo propongono iniziative per studenti e città al fine di diffondere il concetto di Pubblico Dominio attraverso l'arte, il teatro e la danza.

8 marzo 2013
sala consultazione
Biblioteca Centrale di Ingegneria
ore 10.00

Interverranno all'incontro

MARCO GILLI
Rettore del Politecnico di Torino
JUAN CARLOS DE MARTIN
Delegato del Rettore per le Biblioteche-Politecnico di Torino
SERGIO FACE
Responsabile Biblioteca Centrale di Architettura-Politecnico di Torino
FEDERICO MORANDI
Managing Director del Centro Nexa su Internet e Società del Politecnico di Torino (DAUIN)
PAOLO MESSINA
Responsabile Biblioteche civiche torinesi
GIAN MESTURINO
Presidente Fondazione Teatro Nuovo
GIROLAMO ANGIONE
Regista, docente Liceo Teatrale della Fondazione Teatro Nuovo

twitter.com/bibliopolito | www.facebook.com/biblio.polito | www.publicdomainday.org | publicdomainmanifesto.org | www.biblio.polito.it/eventi/flashmob

2.4 SeLiLi: the Free Licenses Service Clinic

Supporting the use of open licenses by providing ad-hoc information on legal issues.

Project website/page	http://selili.polito.it/
Status	ongoing
Period	2006 – present
Funding (of which Nexa)	about 10,000 € annually
Funding organization	Regione Piemonte
Persons in charge	Claudio Artusio (<i>project manager</i>)

The Free Licenses Service clinic (*Servizio Licenze Libere*, SeLiLi) started its activity in 2006 as an initiative of the Nexa Center, funded by Regione Piemonte. The activity of SeLiLi regularly continued during the reporting period and a public report for the 2011 activity was made available in December 2012.

Background

All projects, websites, mailing-lists, etc. dealing with open source and open content issues include disclaimers stressing that any information is provided *as is*. In order to use such information it is necessary to contact a professional, usually a lawyer, who can advise on the specific case. This is problematic, since professional services are frequently not affordable; to avoid such situa-

tions, the SeLiLi project helps users pursuing their initiatives and openly share their results.

Objectives

SeLiLi offers a two-levels informative services and professional advice on free and open source software and open licenses: the first seeks to solve issues regarding the basic characteristics of licenses; the second takes place when a specific request is too complex. In such cases, a professional consultation between a qualified professional and the requester takes place (the cost is covered by Regione Piemonte).

Results

During 2012-2013, SeLiLi continued its typical informative activities with the exchange of about 140 messages on the in-

ternal mailing-list, representing the discussion of 32 different cases. During the last year, the only second-level consultancy activity activated concerned the WikiLovesMonuments initiative, described below (p. 27). A few other requests of a complexity that in the past would have been classified as “second” level were received, but they were already covered by advice made available on the website, and the requesters were referred there (no requests of further assistance have been received).

As far as dissemination is concerned, the drafting of the 2011 public report (available on the SeLiLi website) was carried out by Giulia Aresca, former intern of the Nexa Center who is now articling for a law firm.

2.5 Communia: the International Association on the Public Domain

An international association to foster, strengthen, and enrich the Public Domain.

Project website/page	http://www.communia-association.org/
Status	ongoing
Period	Spring 2012 – present
Funding (of which Nexa)	virtually none (association fees to cover costs)
Funding organization	none (the EU Communia project funded the incorporation)
Person(s) in charge	Federico Morando

The Communia International Association on the Public Domain is a network of researchers

and practitioners from universities, NGOs and SME established in 10 European Member States.

The Association, co-funded by the Nexa Center, is becoming a point of reference within the

European and International debate about the policies impacting on the public domain. In particular, Communia is based in Brussels to maximize its opportunities to interact with the European Commission and Parliament and it became a permanent observer at WIPO.

Background

The Nexa Center was the coordinator of Communia, the European Thematic Network on the Digital Public Domain. The project started in September 2007 and was formally concluded in February 2011. During the previous reporting period, the Communia Network published its Final Strategic Report including a set of policy recommendations and the book “The Digital Public Domain: Foundations for an Open Culture”.

The Communia Association

was incorporated under Belgian law during the Spring of 2012 gathering several of the most active members of Communia.

Objectives

Communia aimed at framing the general discourse on and around the public domain in the digital environment by highlighting the challenges and opportunities arising from technological innovation, cultural development, and socio-economic change.

The Communia Association builds on these basis **to foster, strengthen, and enrich the Public Domain**. More specifically, the Association will educate about, advocate for, offer expertise and conduct research on the public domain in the digital age within society and with policy-makers.

Results

Apart from the participation



of Juan Carlos De Martin and Federico Morando to the activities of the Association as ordinary members, during the reporting period, the contribution of the Nexa Center to the Association was admittedly limited.

The Communia Association reached in any case important results, becoming a WIPO observer in October 2012 and publishing several papers and other policy statements, such as a recent [Open Letter regarding the Commission’s stakeholder dialogue on text and data mining](#).

2.6 Digital Cultural Heritage: from Public Sector to User Generated Content

Bringing the Free Culture and Open Data perspectives in the cultural heritage domain.

Project website/page	http://www.wikilovesmonuments.it/ (third party project)
Status	ongoing
Period	2011 – present
Funding	no <i>ad hoc</i> resources (exception: less than 5,000 € within the SeLiLi project)
Funding organization	internal funding (Regione Piemonte for the SeLiLi resources)
Persons in charge	Federico Morando; Deborah De Angelis (WLM-MiBAC agreement)

A series of research, consultancy, policy support and awareness raising activities to make digital copies of cultural heritage goods part of the public domain.

Background

In December 2010, a group of researcher from the Communia network gathered in Istanbul with the aim of producing a set of recommendations about cultural heritage and the public do-

main. They discovered that national laws limiting the reuse of reproductions of public domain works (such as ancient statues or paintings) are more widespread than expected (e.g. art. 107 of the Codice dei Beni Culturali in Italy or art. 46 of Law 3028/2002 in Greece).

WikiLovesMonuments is an international photo contest based on cultural heritage monu-

ments: the contest aims at making their pictures available on Wikimedia Commons (and, hence, Wikipedia) and - until now - it did not involve Italy precisely because of its peculiar cultural heritage law.

Objectives

The activities of the Nexa Center in this domain are aimed at defining the actual scope and functioning of “cultural heritage

protection laws”, in particular with respect to digital copies of public domain artifacts; moreover, they try to analyze the evidence concerning the pros and cons of these norms (for instance in terms of resources gathered to fund cultural institutions and negative effects on the production of user generated content in this domain); finally, some activities directly aim at supporting projects related to the creation or reuse of digital reproductions of cultural artifacts.

Results

The Nexa Center arguably became one of the main competence center about the legislative aspects of digital cultural her-

itage.

During the reporting period, the following research outputs were delivered:

the Nexa Center, through the SeLiLi project, offered its support to Wikimedia Italia, in order to implement the WikiLovesMonuments initiative in Italy: Nexa fellow Deborah De Angelis led the interaction with the Italian Ministry of Culture and drafted an agreement that allowed WLM to take place in Italy, with the endorsement of the Ministry.

Nexa fellows Enrico Bertacchini and Federico Morando coauthored a paper about “The Future of Museums in the Digital

Age: New Models of Access and Use of Digital Collections” published on the International Journal of Arts Management (15-2);

Nexa fellow Marco Ciurcina offered its expertise to Mappa, an innovative project of the University of Pisa concerning the creation of a publicly accessible digital archive of the local archaeological excavations;

Angelica Tavella, a visiting researcher at Nexa during the Fall-Winter 2012, started a research about the digital reproductions of Italy’s cultural heritage goods and their management in Italy and in the US (also with the aim of comparing the effects of privately owned versus State owned cultural artifacts).

2.7 Outlook

As far as the Creative Commons project is concerned, the next reporting period will see the release (at the international level) of the 4.0 version of the license suite. This will trigger the Italian translation process. However, this is expected to be a relatively easier task than in the past, since the new suite will not be ported (i.e., adapted to national legal systems), but simply translated. The main news in 4.0 licenses actually concerns the treatment of databases and this will generate a significant opportunity to publish research papers about this topic (taking advantage of the involvement of the Center in the drafting), but also new challenges in terms of adoption, in particular by public sector bodies for the release of public sector information.

The SeLiLi free licenses service clinic is also expected to be

quite active, for instance because of the demand generated by the release of CC 4.0 licenses, but also because of some expected organizational changes, with Claudio Artusio taking the role of operations manager and Thomas Margoni becoming scientific coordinator. The intended aims of this internal re-organization are to be able to devote more resources to distilling public useful information from the work going on in the Internal mailing list and to strengthen the integration with the Creative Commons project.

As mentioned, the Open Access thread is expected to deliver major results too, building on the results of the reporting period, i.e., the role of Nexa codirector Juan Carlos De Martin as Italian National Point of Reference for open access and the approval of the PASTEUR4OA Eu-

ropean project (p. 42).

Moreover, the work on the evolution of copyright in the digital age (i.e., the research related with the so-called “copyright 2.0” proposal) is expected to witness some major new work. The idea, which is being explored in particular by prof. Marco Ricolfi, is that a Third, digital networks-driven Innovation Paradigm for fostering innovation and creativity is emerging, for which cooperation-enabling rules take the precedence over exclusivity. And this would apply to intellectual property in general and not just to copyright.

The rest of the projects of this thread (i.e., related with the public domain, Communia, and digital cultural heritage) are also expected to be active in the next reporting period, but on a more reactive mode, on the basis of the opportunities that will arise.

3. INTERNET MONITORING AND ANALYSIS

This section discusses the results reached by the Center in the field of Internet Monitoring and Analysis, namely Neubot, a research and software development project for the distributed monitoring of network quality and of network neutrality violations. Several technical improvements were achieved, also leading to an increased attention toward the project.

3.1 Neubot, the Network Neutrality Bot

An Internet bot software designed to gather network performance data useful to quantify Internet protocol discrimination.

Project website/page	http://www.neubot.org/
Status	ongoing
Period	July 2008 – present
Funding	about 30,000 € in the reporting period
Funding organization	Regione Piemonte
Person(s) in charge	Simone Basso (project manager)

Neubot is an Internet bot software designed to gather network performance data useful to quantify Internet protocol discrimination. In the reporting period, we focused on studying models to estimate the packet loss rate from Neubot's data collected at the application level. We also improved Neubot, and started the development of a website to visualize the collected data.

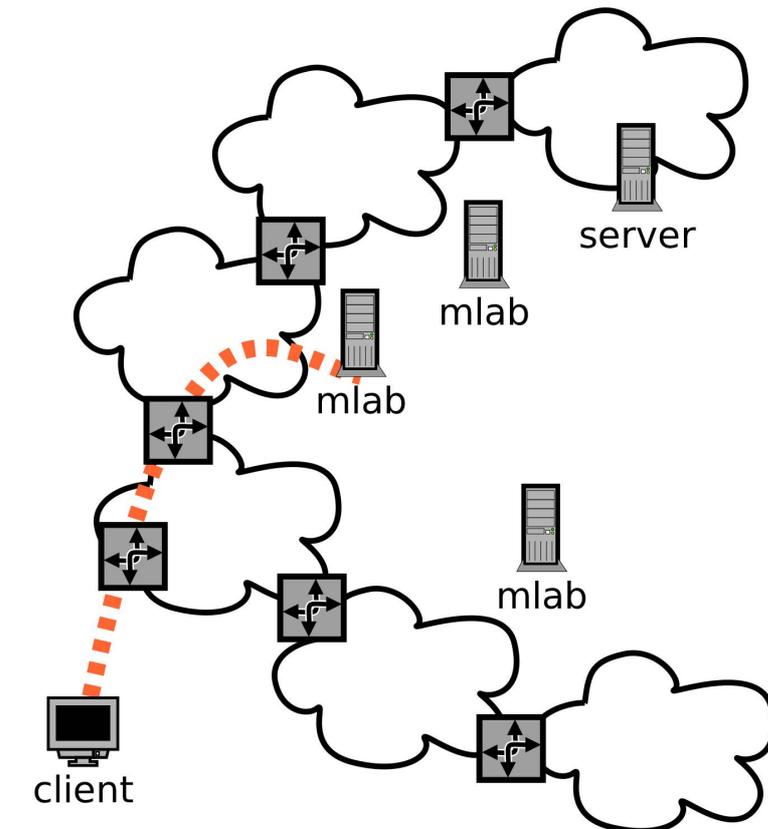
Background

The Internet of the origins was neutral. Nowadays, instead, there are technologies that allow to discriminate protocols and services, as well as incentives for discrimination (e.g., VoIP traffic lowering telcos' margins).

Neubot is an Internet bot software that gathers network performance data to investigate protocol discrimination. It performs its measurements with servers hosted by Measurement Lab (mlab, an umbrella project run by the Open Technology Institute, Planet Lab, Google, and academic partners).

Objectives

1. Study models to analyze the data collected by Neubot, with focus on models to estimate network-level metrics (e.g., the packet loss rate) from measurements performed at the application level. Estimating net-



work-level metrics from application-level measurements is relevant because the technologies to measure network-level metrics directly are not available on the average user's computer.

2. Improve the software platform, by adding more experiments and making it more robust and reliable (e.g., by adding digitally signed Win32 auto-updates).

3. Data visualization and anal-

ysis: hire an intern to develop a prototype data visualization website.

Results

We presented a paper that describes a model to estimate a relevant network-level metric (the packet-loss rate) from application-level measurements at the Workshop on Measurements Up and Down the Stack (W-MUST, in the context of the ACM SIGCOMM Conference, Helsinki, 17

August 2012). A follow-up paper that introduces a more advanced model will be published in the July 2013 issue of the ACM SIGCOMM Computer Communication Review (CCR) journal. Also, we submitted a third paper that describes the challenges and issues of Neubot data analysis to the 'Special session on Big Data' of the 17th East-European Con-

ference on Advances in Databases and Information Systems (ADBIS) 2013.

We added to Neubot a new experiment to gather data for the CCR paper, and we implemented digitally-signed Win32 auto-updates. In April 2013, we received an "unrestricted gift" grant from Measurement Lab to fund our future work.

With help from five contributors (who wrote more than 10% of the patches), we released four new versions of Neubot. On the average, during this year, Neubot performed 22K measurements per day and collected 250 MByte of data per day.

An intern (Fiorenza Oppici) developed a prototype data visualization website.

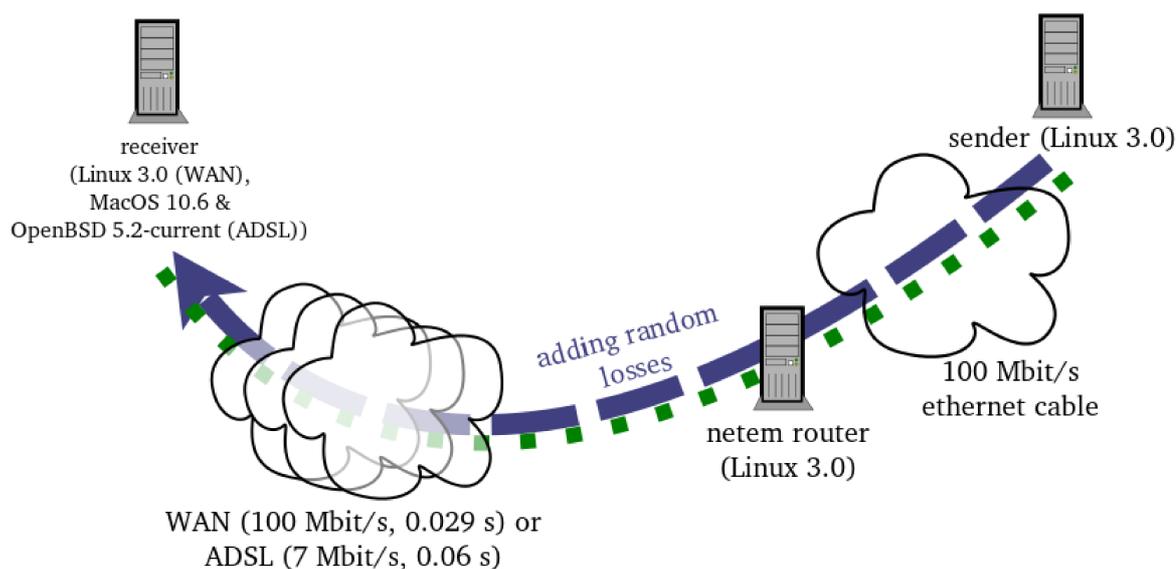


Illustration 1: Image describing one of the experiments performed for the W-MUST paper.

3.2 Outlook

In the next reporting period, Neubot will be funded by a generous "unrestricted gift" grant from Measurement Lab. There is also the possibility of funding via the MorFEO EINS Open Call proposal (p. 46). We envision three main research and development directions:

1. write new tests for variant of the Micro Transport Protocol (uTP), a variant of the BitTorrent peer-to-peer file sharing protocol, and a prototype Android App;
2. finalize theoretical the models to estimate the PLR and start to study uTP performance;

3. release publicly the data visualization website.

In general, we are interested into increasing the adoption of the Neubot software, which could for instance be promoted by Regione Piemonte in order to gather useful data within the regional connectivity strategy.

4. FUNDAMENTAL RIGHTS ONLINE & DIGITAL CITIZENSHIP

This section summarizes the research and policy support activities that the Center performed in the field of Internet governance and fundamental rights online. In particular, the Center played an important role in the 2012 edition of the Internet Governance Forum Italia, which took place in Turin. Moreover, the Center continued supporting projects and initiatives focused on Internet & Democracy.

4.1 Internet Governance: IGF Italia 2012

The fifth edition of the Italian Internet Governance Forum has been held in Torino between October 18 and 20, 2012, co-organized by the Nexa Center.

Project website/page	http://2012.igf-italia.it/
Status	concluded
Period	October 18–20, 2012 (the preparation started at the end of 2011)
Funding (of which Nexa)	mainly in kind by the organizers (about 4 Nexa men-months), + about 25,000 € from sponsors
Funding organization	Nexa Center for Internet & Society, Top-Ix Consortium, CSP – Innovazione nelle ICT, Fondazione Torino Wireless, Camera di Commercio di Torino, Regione Piemonte, Google (main sponsor), Vodafone (sponsor)
Persons in charge	Juan Carlos De Martin (<i>scientific coordinator</i>); Raimondo Iemma (<i>Nexa project manager</i>).

IGF Italia 2012 was held in Torino between October 18 and 20, 2012, with the Nexa Center acting as scientific coordinator. Aimed at preparing the Italian participation in the global IGF held in Baku three weeks later, IGF Italia had 400 registered attendants, 60 speakers, and 8 thematic sessions covering on the current areas of debate related with Internet Governance, with a specific focus on the Italian situation.



Background

Promoted by the UN since 2006, the Internet Governance Forum (IGF) is a multi-stakeholder forum for discussions of public policy issues related to key elements of Internet Governance. Besides an annual global meeting, national fora are autonomously organized. Since its first edition (Cagliari, 2008), IGF Italia is supported by core group of institutions, including the Institute of Informatics and Telematics of the National Research Council, the Internet Society Italy, and the Nexa Center.

Objectives

Consistently with the previous editions, the main objective

of IGF Italia 2012 has been to prepare the Italian participation in the global IGF scheduled for November 6-9 in Baku, Azerbaijan. IGF Italia 2012 focused on four main thematic domains: The Italian digital divides; Infrastructures; eGovernment; Digital Agendas. All stakeholders were involved on an equal basis, with the entire process designed to be inclusive.

Results

IGF Italia 2012 hosted an average of 100 attendants during each of the three days of the conference works. In total, 60 speakers were involved within 8 parallel sessions, and keynote speeches were given by selected

guests such as Janis Karklins (Assistant Director-General for Communication and Information Sector at UNESCO), Francesco Profumo (Italian Minister for Education, University and Research), Stefano Rodotà (former chairman of the Italian Data Protection Authority), Vinton Cerf (Chief Internet Evangelist at Google), and Constance Bommelaer (Director of Public Policy at Internet Society). Amongst the topics discussed in thematic roundtables (with a constant participation from the audience), network neutrality, open data, and the interplay between the digital agendas promoted at the different administrative levels.

4.2 Internet & Democracy: Biennale Democrazia 2013

Bringing an Internet & Democracy perspective within the “Biennial of Democracy”.

Project website/page	http://nexa.polito.it/biennale-democrazia-2013 (in Italian)
Status	ongoing (next edition of Biennale in the Spring of 2015)
Period	2009 – present
Funding (of which Nexa)	unknown (support in kind + negligible travel costs)
Funding organization	internal funding
Person(s) in charge	Juan Carlos De Martin (<i>scientific board member</i>); Giovanni Arata (<i>“Dai Una Voce alla Democrazia” project manager</i>)

The Nexa Center is playing a leading role in the organization of the “Internet & Democracy” activities within the program of Biennale Democrazia (the “Biennial of Democracy”).

Background

Since 2009, the City of Turin hosts and supports Biennale Democrazia, a national event with international guests devoted to democracy in the broadest sense. Juan Carlos De Martin, Nexa co-director, is a member of the scientific committee of Biennale.

The Nexa Center supports Biennale Democrazia since 2009 and it took a more relevant role within the 2011 edition, supporting the organization of events such as Lawrence Lessig’s *Lectio Magistralis In sunlight. The nature of corruption within the US Congress* or of the *Torino Open Data Contest*.



Objectives

The Nexa Center nurtures the “Internet & Democracy” related themes within the program of Biennale Democrazia. It also uses this venue to reach a broader public, including high school students.

Results

The Center organized three major public events: “Sharing knowledge”, with Juan Carlos De Martin, Carlo Donolo, and Ugo Mattei and concerning digital commons, intellectual property and new enclosures; “The utopias of e-democracy”, with Roberto Casati, Juan Carlos De Martin, and Alexander Trechsel,

coordinated by Riccardo Staglianò, also discussing the role of intermediaries and of transparency; “Is Internet a fundamental right?”, with Juan Carlos De Martin and Stefano Rodotà, coordinated by Ferruccio De Bortoli, and analyzing the option of amending article 21 of the Italian Constitution.

In collaboration with Wikimedia Italia, CSP-Innovation in ICT and the Dschola Association, the Nexa Center also organized the meeting “Wikipedia as a tool for digital citizenship”, which represented the final public event of a longer process called “Dai una Voce alla Democrazia” (i.e., “Give a voice to democracy”, but also “Give an encyclopedia entry to democracy”). During this process, tens of high school students were tutored while editing Wikipedia items related with the concepts of utopia and democracy.



4.3 University and Democracy

Re-thinking the University's role in Society in the Networked Age.

Project website/page	none
Status	ongoing
Period	2009 – present
Funding	in kind
Funding organization	internal funding
Person(s) in charge	Juan Carlos De Martin



Nexa co-director Juan Carlos De Martin continued his research for a book on University and Democracy in the Internet Age.

Background

This research originated in particular from the intuitions of prof. Charles Nesson from the Berkman Center at Harvard, who clearly saw – several years ago – the challenges and the opportunities that the cyberspace posed to universities, also in terms of their civic role.

The first tangible result of these considerations, as elaborated at the Nexa Center, was the international conference University and Cyberspace: Reshaping Knowledge Institutions for the Networked Age (Torino, June 28-30, 2010). The conference was organized by the Nexa Center together with the Berkman Center of Harvard and also represented the last public event of the Communia European Thematic Network on the Digital Public Domain.

Objectives

This research explores the (civic) role of Universities in the Internet age. Universities are entrusted with the increasingly important responsibility of creating, sharing, and fostering the use of

knowledge, and thus are the recipients of tremendous investments of time, money, space, and authority. As we progress further into a networked age, our knowledge institutions are challenged by society to become a driving force to create and disseminate knowledge, using innovative approaches derived from and for the networked world.

Results

Juan Carlos De Martin has kept working on his **book on University and Democracy in the Internet Age**, signing a contract with a Turin-based publisher. The book will be presented at the next Torino Book Fair in May 2014; a CC-licensed version will be available online some time after the launch.

4.4 The role of transparency and accountability online - Global Information Society Watch 2012

Contributing the Italian bit to the overall picture of Internet and the role of transparency and accountability online.

Project website/page	http://nexa.polito.it/gisw2012-italy
Status	ongoing
Period	October 2011 – present
Funding (of which Nexa)	unknown (in kind)
Funding organization	internal funding
Person(s) in charge	Nexa (former) fellow Andrea Cairola

The Nexa Center, in cooperation with the audiovisual festival Eurovisioni, contributed to a specific section of the “Global In-

formation Society Watch 2012” entitled “Popular Resistance to Corruption in Italy”.

Background

The Association for Progressive Communications (APC) is

an international network of civil society organizations and activists of freedom of expression and human rights. APC's vision is "All people have easy and affordable access to a free and open Internet to improve their lives and create a more just world."

In 2007, APC published the first edition of the yearly report Global Information Society Watch.

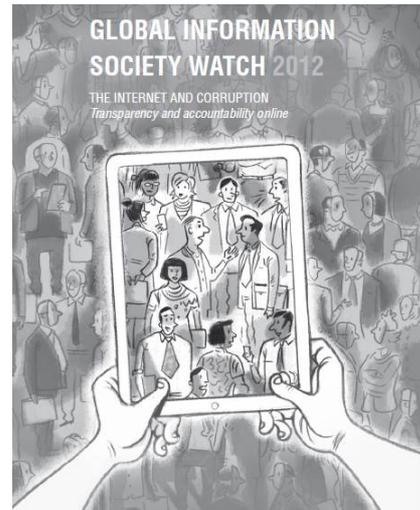
Objectives

The authors of the Italian section of the APC report want to highlight some relevant trends concerning the state of corruption in Italy and the analysis of

the Internet as a potential tool to fight it. In particular, they focus on the birth of the Five Star Movement ("Movimento 5 stelle"), supported by the most popular and influential Italian blogger, Beppe Grillo.

Results

The actual output of this work was, of course, the chapter in the Global Information Society Watch 2012 available at: <http://nexa.polito.it/gisw2012-italy>. However, it is also worth mentioning that several discussion on the "Movimento 5 stelle" have been



addressed in the Nexa mailing list, and during the 2013 edition of "Biennale Democrazia" (p. 34).

4.5 Third parties activities

Google's Internet at Liberty conference 2012, focused on online freedom of expression, and SafetyKids@School, aimed at promoting digital education in schools.

During the reporting period, we were involved in several other initiatives related with fundamental rights online coordinated by third parties. We choose to present them separately, mainly because our contribution was only secondary.

In May, we participated in Google's Internet at Liberty 2012 conference in Washington

D.C., bringing together global activists and representatives of academic centers, corporations, governments, the media and NGOs to present views and examples concerning (violations) of online freedom of expression. The conference and related networking sessions were particularly useful as food-for-thought for further discussions on these topics.

The Nexa Center, and in particular our Director of Privacy Alessandro Mantelero, was also involved in SafetyKids@School, a project coordinated by the Italian Assosecurity association, aimed at increasing the awareness on the use of social media and digital devices amongst young students of primary and secondary schools in Piemonte.

4.6 Anonymity Online in Italy and Free WiFi: Policy Support to Regione Piemonte

Making possible and monitoring the impact of anonymous wireless access to the Internet.

Project website/page	none (past results at http://nexa.polito.it/anonymity)
Status	ongoing (but the main results have already been achieved)
Period	2010 – present
Funding	About 15,000 € in 2012
Funding organization	Regione Piemonte
Person(s) in charge	Federico Morando (as Director of Policy); Nicola Bottero (as legal domain expert).

Supporting the Piedmont Region with respect to the implementation of the regional law (and bylaws) about free and open access to public Wi-Fi, which is arguably the first Italian public act acknowledging the possibility to freely and anonymously connect to the Internet.

Background

During the previous reporting period, the Nexa Center published the final version of the paper *To be or not to be (anonymous)? Riflessioni in tema di libertà e controllo* (i.e. Considerations on freedom and control) by Silvia Bisi, Nexa Research fellow in 2010. As part of the policy support activity of the Center, Nexa fellow Nicola Bottero also wrote

a legal opinion in the form of a “Document summarizing the analysis of norms and regulations concerning the identification of Internet users”. The opinion was focused on the implications of Regional Law n. 5 of April 22, 2011, of the Region of Piedmont (the so-called “Free WiFi Law”).

Objectives

During the reporting period, the Nexa Center aimed at using the aforementioned legal opinion within the implementation process of the Free WiFi Law.

Results

At the end of the previous reporting period, the Nexa Center gave an important contribution to the drafting of a by-law

explicitly providing for free and open access to the WiFi Internet connections made available by Regione Piemonte in its premises and their surroundings (see the regional regulation of May 29, 2012, n. 2/R).

In cooperation, amongst others, with the Top-IX consortium, the Nexa Center contributed to the drafting of a second regional bylaw, updating the previous one and also providing economic support to bars, pubs and other public places offering free and open WiFi connectivity as well as to municipalities or group of municipalities offering free and open WiFi to citizens (see the regional regulation of December 17, 2012, n. 13/R).

4.7 Outlook

The main forthcoming results concerning this thread are expected to be in the University and Democracy thread, thanks to the book that prof. Juan Carlos De Martin is expected to publish in May 2014.

Some interesting developments are also expected to take place in relationship with the fact that the Italian Telecommunication Authority (AGCOM) involved prof. Marco Ricolfi as a high level expert in the ongoing discussions concerning the role of AGCOM in fighting online copyright violations (in a way which is respectful of fundamental rights). Prof. Ricolfi took part as a rapporteur in the workshop “Online copyright: comparing models”, that took place on May 24, 2013 in the “Sala del Mappamondo” of the Italian Chamber

of Deputies and he is currently drafting a written memory focusing on two issues: whether the AGCOM is already competent in enforcing copyright in the online domain and whether some new legislative instruments could create such a competence and to what extent. (Here, we can anticipate that the preliminary conclusion of prof. Ricolfi is essentially negative on the first question and this will arguably generate a substantial debate.)

We also expect to deliver some interesting empirical results concerning the use of the free and open WiFi connectivity offered by Regione Piemonte (conditioned on a pending funding decision by Regione itself).

The other projects will also continue, but on a less proactive basis: in particular, the Center

will contribute to the scientific organization of the Internet Governance Forum Italia 2013, but the forum will be organized in Naples and the local organizers are traditionally expected to take most of the honor and of the burden related with the organization. About the Internet & Democracy activities, Biennale Democrazia will take place again in 2015, so 2014 will probably see just some activities on a smaller case: in particular, we expect to organize some participatory activity with high school students, on the model of the “Dai una Voce alla Democrazia” project described above (p. 34). Finally, we expect to be able to contribute again to the Global Information Society Watch, thanks to the work of our fellows and other friends of the Center.

5. OTHER PROJECTS

In this section, we describe activities and results of projects that cannot be categorized into any of the threads reported above. In particular, our involvement in the EINS European Network in Internet Science (as a platform encompassing several research areas) is described. The work carried out in the field of Linked Data applications (the 'TellMeFirst' open source software) is furthermore illustrated.

5. Other Projects

5.1 **EINS: the European Network of Excellence in Internet Science**

Gathering more than 30 academic institutions across Europe and beyond, EINS aims at paving the way towards an integrated 'Internet Science'.

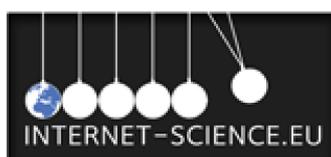
Project website/page	http://www.internet-science.eu/
Status	ongoing
Period	December 2011 – March 2015
Funding (of which Nexa)	4,997,000 € (111,000 €) for the entire project
Funding organization	European Commission (FP7-ICT-2011-7)
Person(s) in charge	Raimondo lemma (<i>Nexa project manager</i>).

The EINS Network of Excellence in Internet Science has reached 18 months of activity in May 2013. The work of thematic Joint Research Actions is proceeding on schedule, with some room for further involvement of social sciences. The First EINS Conference on Internet Science has been held in Brussels in April 2013, with Juan Carlos De Martin as scientific co-chair.

Background

The EINS tasks range from Joint Research Activities (JRAs) to initiatives in support of the integration of partner projects, from dissemination to interaction with external stakeholders in the area of Internet Science. Establishing a dialogue and a common agenda between scientists from different fields is challenging, but it also represents a requirement to effectively pave

the way towards an integrated multidisciplinary science.



Objectives

EINS aimed at consolidating joint work, researchers mobility, and outreach. As for the Joint Research Activities in which the Nexa Center is involved, our main objectives were: (i) to further define the focus of our contributions in the field of “Governance, Regulation and Standards” (JRA4), “Internet Privacy” (JRA5) and “Virtual Communities” (JRA6); (ii) to contribute to the main project tasks, in particular to the EINS First Conference.

Results

In September 2012, the Nexa

Center hosted a two-days joint workshop involving the members of JRA4 and JRA6. During the subsequent months, the scope of Nexa's contribution in those two areas of activity were defined, namely *de facto* standard setting for open data licensing in JRA4, and case studies highlighting the interplay between online and offline interaction in some Italian examples focused on e-democracy and e-participation. Tangible effort has been spent also on JRA5 by Nexa Director of Privacy Alessandro Mantelero, who also spent three months as visiting fellow at Oxford Internet Institute within the EINS mobility programme (p. 58). Co-Director Juan Carlos De Martin has contributed as scientific co-chair to the First EINS Conference on Internet Science, held in Brussels in April 2013.

5.2 TellMeFirst - A knowledge discovery application

TellMeFirst is a tool designed for classifying and enriching textual documents using Linked Open Data.

Project website/page	http://tellmefirst.polito.it
Status	ongoing
Period	April 2012 – present
Funding	About 10,000 € in 2012
Funding organization	internal funding
Persons in charge	Federico Cairo (Nexa project manager in 2012); Giuseppe Futia (current contact person).



TellMeFirst is an open source software designed for classifying and enriching textual documents via Linked Open Data. The recognized topics are expressed as DBpedia resources, a representation of structured information of a Wikipedia entry, and the input text is then enriched with new information retrieved from linked open data repositories

published on the Web.

Background

The adoption of Linked Data best practices for exposing and connecting information on the Web is having a considerable success in several areas: multimedia publishing, open government, health care. A specific line of research is related to natural language processing (NLP) with Linked Data: this method allows you to recognize a specific entity identified by a Uniform Resource Identifier (URI), not a simple string, with opportunities for information enrichment.

Objectives

TellMeFirst intends to leverage NLP and Semantic Web technologies to extract main

topics from texts in the form of DBpedia resources. Input texts are subsequently enhanced with new information and contents retrieved from the Web (images, videos, maps, news) concerning those topics.

Results

A website that shows a demo of TellMefirst functionalities is available online at <http://tellmefirst.polito.it>, and the source code can be downloaded at <https://github.com/TellMeFirst/tellmefirst>. In addition to the stand-alone project, TellMeFirst could be one of the key component of the Internet Science Gateway proposal for addressing the Open Call promoted by the EINS Network of Excellence on Internet Science (p. 47).

5.4 Outlook

In the next reporting period, the Nexa Center plans to intensify its work concerning the European Network of Excellence in Internet Science. This is in line with the EINS description of work and with the plans discussed so far together with the

partners. We also hope to have an opportunity to be involved in some new joint research activities, taking advantage of some internal redistribution of resources from less to more active partners.

About the TellMeFirst project,

our main goal for the next reporting period is to find new venues for collaboration and funding opportunities (with the first one being represented by the Internet Science Gateway proposal described below at p. 47).

6. PROJECT PROPOSALS

In this section, project proposals issued by the Nexa Center (as coordinator or partner) during the reporting period are shortly described, also indicating the outcome of the submission (when already published).

6.1 CRoNN: Cross-disciplinary Research on Network Neutrality

Addressing the Future Internet objective of the FP7 ICT Call 10, and coordinated by the Nexa Center, CRoNN is a multidisciplinary research proposal on network neutrality.

Project website/page	N/A
Status	submitted (rejected)
Period	N/A (duration: 30 months)
Funding (of which Nexa)	2,182,725 € (413,900 €) for the entire project
Funding organization	European Commission (FP7 ICT-2013.1.7 Future Internet Research Experimentation)
Person(s) in charge	Juan Carlos De Martin (<i>scientific coordinator</i>)

CRoNN responds to the FP7 ICT 10 Call by proposing a multidisciplinary research endeavour aimed at gathering new evidence on network neutrality and its impact, also validating theoretical models on the subject.

Background

Decisions on network neutrality affect how infrastructures and services are managed and used, by whom, and under which

patterns. This issue raises complex questions at all levels.

Objectives

Coordinated by the Nexa Center, CRoNN aims at: (i) define and empirically validate multidisciplinary models relevant for network neutrality; (ii) advance the state of the art of active network neutrality measurements (building on <http://www.neubot.org/>) and experiment with neutral and

distributed testbeds (including the FIRE Facility CONFINE); (iii) analyse and interpret the data gathered; (iv) propose a definition of the key Internet service parameters that convey technically and socially meaningful network neutrality information.

Results

CRoNN did not receive a sufficiently high evaluation to compete for funding.

6.2 PASTEUR4OA

Coordination Action encouraging the development of matching policies on Open Access (OA) and Open Data in the European Union according to the European Commission's recent Recommendation.

Project website/page	N/A
Status	submitted (approved; under negotiation phase)
Period	N/A (duration: 30 months)
Funding (of which Nexa)	1,935,984 € (80,891 €) for the entire project
Funding organization	European Commission (SiS.2013.1.3.3-1)
Person(s) in charge	Juan Carlos De Martin (<i>Nexa scientific coordinator</i>); Federico Morando (<i>Nexa project manager</i>).

Coordinated by the Greek National Documentation Centre and addressing the European Science in Society call, PASTEUR4OA involves a broad consortium of project partners who range from research-performing organizations through research funders to OA advocacy organizations, involving also the Nexa Center, to coordinate strategies,

activities and policies on OA.

Background

A considerable progress was achieved on Open access in Europe over the past five years, both in the provision of technical infrastructure and in the policy-related arena. However, a full harmonization between the policies of the Member States is still to be achieved.

Objectives

PASTEUR4OA aims at improving coordination in developing OA policies that align to the European Commission's Recommendations and Horizon2020 rules by realizing the following measurable and verifiable objectives, by engaging policymakers and mapping existing OA-oriented policies to policymakers,

6. Project Proposals

also providing recommendation for future work.

Results

PASTEUR4OA was evaluated as eligible for funding, and is

therefore entering the negotiation phase as of May 2013.

6.3 Commune

Community Networking Platforms for Sustainability and Social Innovation.

Project website/page	N/A
Status	submitted (rejected)
Period	N/A (duration: 30 months)
Funding (of which Nexa)	1,527,926 € (223,350 €) for the entire project
Funding organization	European Commission (FP7 ICT-2013.5.5 Collective Awareness Platforms)
Person(s) in charge	Juan Carlos De Martin (<i>NEXA scientific coordinator</i>)

Coordinated by the Universitat Politècnica de Catalunya, Commune is Collective Awareness Platforms proposal aiming at supporting grassroots experiments and prototypes enabling citizens and communities to create and engage in digital social innovation.

Amongst its partners, it includes the Fundació Privada per a la Xarxa Oberta, Lliure i Neutral Guifi.net, which is arguably the biggest and most successful community network worldwide.

Background

Community networking (i.e. bottom-up networking) is an emerging model for the Future Internet, where communities of citizens can build, operate and own open IP networks and services.

Objectives

Together with the University of Bologna (which would have focused on sociological issues) the Nexa Center was identified as the key multidisciplinary academic partner.

The project aimed at conducting grassroots experiments and adopting quantitative and qualitative research methodologies to understand and then support the working of community networks.

Results

The project proposal was rejected, but the Nexa Center would still be interesting in studying community networks together with some of the Commune partners.

6.4 GRAPPA

Grassroots Social Innovation for European Citizens through Participatory Journalism and Debate.

Project website/page	N/A
Status	submitted (rejected)
Period	N/A (duration: 36 months)
Funding (of which Nexa)	1,732,623 € (€ 210,600) for the entire project
Funding organization	European Commission (FP7 ICT-2013.5.5 Collective Awareness Platforms)
Person(s) in charge	Juan Carlos De Martin (<i>NEXA scientific coordinator</i>)

GRAPPA (Grassroots Social Innovation for European Citizens through Participatory Journalism and Debate) is a Collective Awareness Platform project proposal coordinated by the Center

for Research and Technology Hellas.

GRAPPA consists in a software platform for a citizens journalism that delivers content and

data from young people to young people about topics spanning socio-politics, culture, economy and local community issues.

Background

In analogy to the distillation process of the alcohol beverage Grappa, the platform intended to provide fine-grained tools for the refinement, organization and visualization of the raw heterogeneous data collected.

Objectives

The platform aimed at promoting social innovation by creating augmented awareness about European societies. The Nexa Center intended contribution was focused on the design of the platform, in particular from the social (and legal) point

of view. The Center would have also contributed to the scientific analysis of the results of the pilot implementation.

Results

GRAPPA did not receive a sufficiently high evaluation to compete for funding.

6.5 PICO-RAN

PICO Cloud for Internet COntent optimized of COoperative Cloud Radio Access Network.

Project website/page	N/A
Status	submitted (rejected)
Period	N/A (duration: 36 months)
Funding (of which Nexa)	€ 2,200,000 (70,000€)
Funding organization	European Commission (FP7 ICT-2013.1.7 Future Internet Research Experimentation)
Person(s) in charge	Alessandro Mantelero (<i>NEXA scientific coordinator</i>)

PICO-RAN (PICO Cloud for Internet COntent optimized of COoperative C-RAN) is a medium-scale focused research project proposal coordinated by EURECOM.

Background

Computing paradigm is moving towards cloud computing and intelligent connected and context-aware systems, in which devices, infrastructure, platforms, and services are all expected to seamlessly integrate and cooperate to provide a huge amount of meaningful info that help in supporting human objectives and the way of taking decisions in critical time.

While there might be some existing technologies to support this demand, industry and academia still frantically exploring new and innovative models.

Objectives

PICO-RAN aims at providing a holistic wireless network design approach by cloudification of the radio access networks and by adding a local content- and service-optimized cloud site to each C-RAN (Cloud Radio Access Network) in order to drastically enhance the wireless network performance as well as the perceived quality of experience. The considered approach (based on an open-source architectures

from software down to the hardware level) focuses on innovation in both cloud access stratum and content- and service-optimized network aspects and consequences on implementation architectures and includes studies, prototyping of innovative technologies and input to standardization.

The Nexa Center contribution in the proposal was focused on multidisciplinary aspects, in particular concerning the legal implications of the cloud infrastructure.

Results

The PICO-RAN proposal was not selected for funding.

6. Project Proposals

6.6 **First Tuesday**

Coordinated by the Haifa Centre for Law & Technology, First Tuesday is the proposal of a law clinic addressed to ICT start-ups and entrepreneurs.

Project website/page	N/A
Status	submitted (rejected)
Period	N/A (duration: 30 months)
Funding (of which Nexa)	494,019 € (82,390 €) for the entire project
Funding organization	European Commission (FP7 ICT-2013.11.5)
Person(s) in charge	Juan Carlos De Martin (<i>Nexa scientific coordinator</i>).

Leveraging on its experience in the field (e.g. the SeLiLi law clinic), the Nexa Center has participated in a Coordination action proposal under the EU FP7 ICT Call 10 led by the Haifa Centre for Law & Technology at Haifa University.

Background

ICT entrepreneurs and start-ups face a wide variety of challenges, in the bootstrap as well

as in later stages. Some of these challenges are law-related. Normally, a lawyer's advice is something that these entrepreneurs would look for, but not always have within reach due to low budgets and lack of awareness of the legal implications of design choices and business strategies.

Objectives

The purpose of "First Tuesday" is to perform a basic, yet

accurate and reliable, legal guidance available and accessible to ICT entrepreneurs by developing bridges between them and law students via the "First Tuesday" Law Incubator.

Results

FirstTuesday did not receive a sufficiently high evaluation to compete for funding.

6.7 **ODINO**

A feasibility study to implement collaborative processes around the release and reuse of PSI.

Project website/page	N/A
Status	submitting
Period	N/A (duration: 12 months)
Funding (of which Nexa)	72,876 € (14,916 €) for the entire project
Funding organization	Regione Piemonte – Osservatorio ICT
Person(s) in charge	Juan Carlos De Martin (<i>Nexa scientific coordinator</i>)

Led by the Italian ICT SME Ooros, ODINO is the proposal of a feasibility study addressing collaborative processes involving PSI holders and reusers.

Background

Several Open Government Data initiatives allow data reusers to produce and share through the same platform new

versions of the datasets (pretty much like, conceptually, the versioning process of a piece of software). However, this is not yet a consolidated practice, also because of organisational obstacles.

Objectives

ODINO aims at exploring

the adoption of processes and tools to enable collaboration (e.g. feedbacks, 'forking' of public datasets) between public sector bodies and PSI reusers.

Results

As of June 2013, the proposal is under evaluation.

6.8 Share PSI 2.0

A European Thematic Network to reach consensus on PSI technical standards.

Project website/page	N/A
Status	submitting
Period	N/A (duration: 30 months)
Funding (of which Nexa)	€ 937,500 (€ 20,000).
Funding organization	European Commission (CIP-ICT-PSP2013.2.2b)
Person(s) in charge	Juan Carlos De Martin (<i>Nexa scientific coordinator</i>).

Coordinated by the W3C (with 42 partners) and submitted under the EU ICT-PSP Call 2013, Share PSI 2.0 aims at bringing together stakeholders to continue in the definition of technical standards for PSI.

Background

Agreement on standards to enable interoperability and inte-

gration of public sector information across Europe and beyond are increasingly needed.

Objectives

Coordinated by W3C, Share-PSI 2.0 aims at bringing together a broad range of stakeholders in the reuse of public sector infor-

mation and at helping them to reach consensus on technical standards, complementing existing and ongoing initiatives in the domain.

Results

As of June 2013, Share PSI 2.0 is under evaluation.

6.9 EINS Open Calls

At the beginning of 2013, the EINS Network of Excellence in Internet Science (p. 39) promoted an Open Call for projects. The Nexa Center submitted two proposals, presented below.

6.9.1 MorFEO

A multidisciplinary research project addressing the impact of network discrimination on freedom of expression online.

Project website/page	N/A
Status	submitted (pending evaluation)
Period	N/A (duration: 12 months)
Funding (of which Nexa)	€ 44,824.80 (€ 39,544.80)
Funding organization	European Commission (via the EINS Open Call)
Person(s) in charge	Juan Carlos De Martin (<i>Nexa scientific coordinator</i>)

Coordinated by the Nexa Center with the Lund Internet Institute as partner, MorFEO is a research proposal building on existing knowledge and measurement tools to understand the impact of traffic management on users' online freedom of expression. The evidence gathered will be released as Open Data.

Background

The key question of the debate around network neutrality

is whether –and to what extent– network operators should be allowed to differentiate Internet traffic. This topic has been addressed by computer scientists, economists, and lawyers. However, it is apparent that network neutrality studies could greatly benefit from sociological insights, also considering the users' role.

Objectives

MorFEO aims at: (i) discussing and identifying network

neutrality measurement parameters able to capture the perspective of users' freedom of expression; (ii) measuring such parameters by improving existing tools (e.g., Neubot, described in p. 30); (iii) deriving empirical inferences about the impact of deviations from network neutrality on users' freedom of expression.

Results

As of May 2013, MorFEO is under evaluation.

6. Project Proposals

6.9.2 Internet Science Gateway

A semantic portal which gathers various material published in the Internet Science field for researchers and institutions

Project website/page	N/A
Status	submitted (pending evaluation)
Period	N/A (duration: 12 months)
Funding (of which Nexa)	€ 44,810.80 (€ 33,502.40)
Funding organization	European Commission (via the EINS Open Call)
Person(s) in charge	Juan Carlos De Martin (<i>Nexa scientific coordinator</i>)

Coordinated by the Nexa Center with the Ahref Foundation as partner, the Internet Science Gateway (ISG) is a semantic portal gathering various material published on the web related with the Internet Science (IS) field.

Background

Internet Science is a complex and multidisciplinary sector, in which converge both technical

researches and economic, legal, sociological issues. As well as the involved actors, the types of material produced are highly heterogeneous (in terms of formats and contents).

Objectives

ISG intends to leverage Linked Data to build a IS domain knowledge base (ISKB) that describes most relevant concepts in this area. The ISKB will be

used by the topic extraction component of ISG (see p. 40 above, § 5.2 TellMeFirst - A knowledge discovery application) to extract main topics from IS publications and classify them in the ISG archive. The ISG portal will allow a user to browse and search documents.

Results

As of May 2013, ISG is under evaluation.

6.10 Previous proposals

As far as the project proposals described in the previous annual report are concerned, the LAPSI 2.0 European Thematic Network on the Legal Aspects of Public Sector Information was approved and the project was started, as described above (p. 17).

The Share-PSI 2.0 European Thematic Network proposal, submitted in the previous reporting period was rejected, however the same and other

partners resubmitted an improved proposal with the same name, as described above (p. 46).

Something similar applies to the PROSA European Coordination Action providing Policy Recommendations for Open Science and open Access, which did not get funding, but formed the basis for a consortium that submitted the PASTEUR4OA proposal (see above, p. 42), which was approved and is currently completing its final negotiation phase.

Finally, the AGCOM SCREEN Italian Proposal (which had been approved during the previous reporting period, but was in standby) was not kick-started, officially because of administrative issues, and it should be considered as abandoned. The Smart Cities PRIN (Italian National Project) proposal described in the previous report was also unsuccessful, while the Smart City Proposal for the City of Turin did not have any follow-up.

7. TEACHING

There are several links between the activities of the Center and the teaching activities of the co-directors, faculty fellows and other fellows of the Center, including Marco Ricolfi, Juan Carlos De Marting, Ugo Pagallo, Alessandro Mantelero and several other fellows (e.g. Cristiana Sappa, Giancarlo Frosio, Federico Morando, Massimo Travostino, etc.), teaching - for instance - within the Master of the World Intellectual Property Organization in Turin. Some other teaching activities are also taking place within the Last-JD Joint International Doctoral (Ph.D.) Degree in Law, Science and Technology, in which the Nexa Center is involved as an associate partner.

Only the Digital Revolution undergraduate course at Politecnico di Torino is described here in detail because of its strong affinity with the Center both in terms of topics and people involved (from the professor to the teaching assistant, going through many guest lecturers).

7.1 “Digital Revolution”: an Undergraduate Course at Politecnico di Torino

A Politecnico di Torino undergraduate course – trying to understand the times we are living

Project website/page	http://rivoluzionedigitale.polito.it/
Status	ongoing
Period	March 2012 – present
Funding (of which Nexa)	standard funding by Politecnico di Torino (additional support in kind)
Funding organization	Politecnico di Torino + Nexa internal funding
Person(s) in charge	Juan Carlos De Martin (<i>lecturer</i>); Simone Basso (<i>teaching assistant</i>); Giuseppe Futia (<i>media assistant</i>).

“Rivoluzione Digitale” (Digital Revolution) is an elective course for first year students at Politecnico di Torino that aims to contribute to the education of future engineers and architects as digital individuals, by providing students the multidisciplinary knowledge required to understand the digital revolution, and by teaching them practical on-line-world skills (e.g., blog, mailing list, twitter).

Background

Digital revolution effects are so deep and lasting, and range from business activities to culture, from politics to everyday life, that the traditional education of engineers and architects has to be complemented with selected legal, economic, historical, and social knowledge, under a strong multidisciplinary approach. In this course, we provide students with the basic multidisciplinary knowledge required to understand the digital revolution, and we teach them practical on-line-world skills (e.g., blog, mailing list, twitter).

Objectives

Lectures aim at providing stu-



dents the multidisciplinary knowledge (technical, legal, etc.) required to understand the multiple aspects of the digital revolution, and its impact on the society. Online activities aim to teach students practical skills specifically related to the online realm. Namely, how to create and maintain a blog, netiquette and how to interact on a mailing list, how to use Twitter.

Results

The 2012 edition featured many guest lecturers, including the Nexa co-director prof. Marco Ricolfi, and a few Nexa Trustees. In 2013, the guest speakers will be: prof. Marco Zamperini, prof. Marco Ricolfi, prof. Angelo Raffaele Meo, atty. Carlo Blengino, dott. Luca De Biase and dott. Anna Masera, dott. Davide Gomba, and prof. Maria

Chiara Pievatolo.

In 2012, we enrolled 135 students, who grouped to open 29 blogs. After the semester, 80 students passed the exam (60% of the final grade derived from the online activity evaluation, 40% from a final essay). In the 2013 edition, we enrolled 169 students, who grouped to open 35 blogs. As the course ends in mid June, we are currently tracking and evaluating the students' on-line activity.

Maria Serena Ciaburri, one of the best students of the 2012 course, is currently spending 10 weeks at the Berkman Center at Harvard University as a Summer Intern and we expect to be able to offer a similar opportunity to one of the best students of the 2013 edition.

7.2 Outlook

The “Rivoluzione Digitale” undergraduate course will be held also in the next reporting

period with some modifications, and will take advantage of the intense experimentation that char-

acterized the first edition of the course.

8. FUNDING, ORGANIZATION, RELATIONSHIPS & COMMUNITY

This section provides some financial and budgetary information, details about the internal functioning of the Nexa Center, including recent changes at organizational level, and a synthesis of the relationships of the Center with its community and with other institutions, which are being strengthened by the recent involvement of the Center in the Network of Centers on Internet & Society, and in the Global Network Initiative.

8.1 Budget Summary

Table I below summarizes the **total costs** sustained by the Nexa Center in 2012.

Research personnel		193,000 €
Nexa Center staff	98,000 €	
Tenured personnel	95,000 €	
Other personnel		88,000 €
Other costs		110,000 €
events organization and communication	17,000 €	
travels (Nexa)	33,000 €	
travels (guests/speakers)	5,000 €	
equipment	14,000 €	
functioning costs (heating, phone, cleaning, etc.)	11,000 €	
use of the Center venue	12,000 €	
indirect costs (contribution to the Politecnico di Torino budget, deducted from Nexa projects)	18,000 €	
Total costs		391,000 €

Table I: Nexa Center: costs sustained in 2012

“Other personnel” includes administrative personnel (Selina Fenoglietto until August 2012, and Nadia Tecco from July 2012), personnel dealing with events and communication (Giuseppe Futia), technical personnel (Luca Leschiutta) and an estimate of the cost of other managerial activities, which are not directly related to research (e.g., 30% of

the cost of Federico Morando, managing director in 2012, and of Raimondo lemma, staff research fellow in 2012). Some cost entries (e.g., Tenured personnel) include in kind contributions (see also Table 2 below).

The contribution of the Nexa Center to the budget of Politecnico di Torino is calculated as the share of the external funding de-

ducted by the central administration or the Department of Control and Computer Engineering (DAUIN), mainly to cover indirect costs. This amount is increasing: it was 18,040 € (with a contribution of 5,132 € to the budget of our Department) in 2012, and it will be of at least 26.000 € (5,813€ of which allocated to DAUIN) in 2013.

Project / other source of funding	2012	2013	2014
Grant from Regione Piemonte	25,000 €	96,500 €	48,500 €
EINS - Network of Excellence on Internet Science	13,000 €	29,700 €	34,000 €
Open-DAI	39,000 €	29,600 €	29,900 €
Grant from Google Italy	2,000 €	25,800 €	2,100 €
EVPSI	33,000 €	7,000 €	
LAPSI	84,000 €		
LAPSI 2.0		9,800 €	5,800 €
Past projects leftover	59,000 €	32,600 €	
Grant from Google M-Lab (Google Inc.)		17,100 €	16,100 €
PASTEUR4OA		2,000 €	40,800 €
MorFEO		5,700 €	31,100 €
Grant from Telecom Italia (law&economics of service robotics)		16,900 €	26,700 €
Grant from Telecom Italia (online privacy)			33,200 €
Contribution in kind from Politecnico di Torino (mainly personnel effort)	106,000 €	110,200 €	114,900 €
Contribution in kind from Prof. Marco Ricolfi	30,000 €	30,000 €	30,000 €
Total	391,000 €	412,900 €	413,100 €

Table 2: Nexa Center: expected funding in 2013 and 2014 (as of May 2013)

Table 2 provides an overview of the sources of funding in 2012, and some estimations of the expected funding in 2013 and 2014, which are based on relatively conservative assumptions. In fact, only funding related to ongoing relationships and

agreements (even without strict legal obligation to provide this funding, e.g. because it is subject to the discretionary evaluations of some funding institutions) is reported. No funding is listed in case of simple submitted and unapproved project proposals. It is

also worth mentioning that some of the funding threads (e.g., grants from Telecom Italia) are likely to be available and used by the Center also beyond 2014. In those cases, the figures reported do not capture the entire amount of the funding.

8.1.1 Accountability and transparency principles

(This paragraph was finalised in December 10th, 2013, in light of the debate that took place within the Nexa Board of Trustees between June and December 2013).

The Nexa Center for Internet & Society is an independent research center. While the repu-

tation of the center ultimately rests on the quality, consistency and integrity of its actions over the course of time, the Nexa Center also adopts several ex ante rules to support the independence of the center both in substance as well as in external

perception. In this regard, the issue of funding is particularly sensitive. As a general principle, the Nexa Center does not accept funding that may limit the ability of the center to carry out independent and unbiased research. The Center strives to ensure

that its funding comes from a range of entities, including public sector bodies, foundations, the private sector and individuals, to minimize the dependency from any specific actor (or category of actors). Since funding provided by for-profit entities is particularly sensitive, during each reporting period, including the one covered by this Report, the Nexa Center is committed to follow accountability and transparency guidelines concerning for-profit funding. Such guidelines are formalized as follows:

1. The existence and the nature of all funding over €1,000 will be published on the website of the Nexa Center and regularly updated. Each year, the Nexa Center will also publish on its website the public version of its Annual Report, containing the same information.

2. In a given year, and as a matter of principle, funding coming from any single for-profit entity should not exceed 15% of the budget of the Center in that

year. This threshold will be reexamined at each annual meeting of the Board of Trustees, according to the general principle that, if the Center budget increases, this threshold will be proportionally reduced.

3. The overall contribution coming from for-profit entities should in principle not exceed 1/3 of the overall budget of the Center in that year.

4. If the aforementioned thresholds are to be exceeded, the case will be brought to the attention of the Board of Trustees which will issue a binding recommendation to be included in the Annual Report.

5. In any case, the relationship with for-profit funders will explicitly provide that the Nexa Center accepts to undertake a certain research activity based only on the scientific method and without being constrained by any previous indication or directive from the funder (e.g., in terms of expected deliverables and research products, apart

from agreeing on the definition of the field of research and organizational details).

6. Consultancy and similar activities involving more specific directives from a third party, if undertaken, will be clearly labeled as such.

7. Any changes to these policies will be subject to the approval of the Board of Trustees.

Regarding the reporting period, the funding guidelines have been respected as far as point 2.–5. above are concerned. Point 1 will be acted upon after the 2013 meeting of the Board of Trustees. Regarding point 2., funding from a single for-profit entity (essentially coming from Google Inc.) remained below the 15% cap (implying a maximum funding of about €59,000 in 2012). The same goes for the criteria expressed at point 3. Considering current estimations of the 2013 budget, criteria at points 2 and 3 will be respected also in the next reporting period.

Funding coming from for-profit entities	% of 2012 budget (absolute value)	% of 2013 budget (absolute value)
Google	0.51%	10.39%
Google Italy s.r.l., Corso Europa 2 20122 Milan	(2,000 €)	(25,800 €)
Google Inc., 1600 Amphitheatre Parkway Mountain View, CA USA		(17,100 €)
Telecom Italia		4.09 %
Telecom Italia S.p.A., Piazza degli Affari n. 2, 20123 Milano		(16,900 €)
Total from for-profit entities	0.51%	14.48%

Table 3: Funding coming from for-profit entities

8.1.2 Exploring new funding models

The Nexa Center is now arguably focused on a sufficiently wide set of research areas, interconnected with each other, and calling for different kinds of expertise to be effectively addressed.

At the same time, the Center keeps on increasing the efficiency of its internal organization, so to be able in principle to handle even more projects and staff members.

In order to actually scale up, opening new research threads beyond its ad-hoc funded activities, and being able at the same time to continue attracting visit-

ing scholars, the Center would need further financial resources.

In particular, to achieve the aforementioned objectives, additional resources should come in the form of unrestricted donations to be invested without the strict constraints of funded projects (e.g., in terms of timing, scope, expected deliverables). This would allow the Center to invest in research endeavors with a further degree of flexibility.

In this vein, the Nexa Center started exploring less traditional forms of funding. In particular, in collaboration with prof. Alberto

Oddenino (Università degli Studi di Torino, Law School), we worked to increase our understanding of the emerging **crowd-funding models** and their possible application to research projects, given the Italian legislative framework.

During the reporting period, we also increased our knowledge and understanding of the **associative forms** acknowledged by the Italian legislation, so to assess the feasibility of the creation of an association focused on supporting the research activity carried out by the Nexa Center, being also able to attract funding.

8.2 Organizational Structure

During the reporting period, some effort has been devoted to further consolidate the internal management structure and processes of the Center, still maintaining a certain degree of flexi-

bility that we deem necessary to effectively perform our tasks.

In particular, since January, the role of **Director of Research & Policy** was established within the Center, and

taken in charge by Federico Morando. Consequently, Raimondo lemma took the position of **Managing Director**. On the one hand, this new structure allows a clearer separation be-

tween the activities related with research & policy strategy and the internal organizational and managerial tasks of the Center. On the other hand, some overlapping and interplay has been foreseen between the two aforementioned roles (e.g., there are now two full-time employees of the Center who can represent Nexa in most scientific and strategic meetings) and this (limited) redundancy provides further flexibility to the functioning

of the Center.

Furthermore, Nexa Faculty Fellow Alessandro Mantelero was named **Director of Privacy**, in light of his strong expertise and (present and expected) contributions in the field. Alessandro will therefore serve as coordinator of Nexa projects, research and policy support activities in this domain.

Besides, some actions have

been undertaken to involve in a more constant basis the Nexa Fellows.

In this vein, the Center started issuing a **monthly update report** addressed to the Fellows, shortly describing the main ongoing activities (research projects, meetings, events) and related contact persons.

8.3 New Trustees

During the reporting period, three new Trustees joined the Nexa Center for Internet & Society, further enriching the composition our Board of Trustees. We shortly present them in chronological order of affiliation.

Brett Frischmann (<http://nexa.polito.it/people/bfrischmann>), professor of Law at the Benjamin N. Cardozo School of Law, Yeshiva University, where he teaches intellectual property and internet law. Brett Frischmann also presented his most recent book “Infrastructure: The Social

Value of Shared Resources” at the Nexa Center in July 2012 (<http://nexa.polito.it/2012-frischmann>).

Bruce Sterling (<http://nexa.polito.it/people/bsterling>), author, journalist, editor, and critic. Bruce Sterling is best known for his ten science fiction novels. Amongst his various collaborations, he run projects on augmented reality at the Art Center College of Design in Pasadena (2005 and 2011), and was the Guest Curator for the Share Festival of Digital Art and Cul-

ture in Torino (2008).

Lucie Guibault (<http://nexa.polito.it/people/lguibault>), associate professor at the Institute for Information Law of the University of Amsterdam (UvA). She is specialized in international and comparative copyright and intellectual property law. Lucie Guibault has been carrying out research for the European Commission, Dutch ministries, UNESCO and the Council of Europe.

8.4 Fellowships 2013 and Faculty Associates

A list of the current Fellows of the Center is available at page 73 ff. of this Report.

Since its creation, the Nexa Center took advantage of the cooperation of a group of more or less strictly connected fellows, who provided countless insights and enriched the knowledge-sharing activity of the Nexa Center. The explicit model for this kind of interaction was the network of fellows of the Berkman Center for Internet & Society at Harvard University, obviously with several adaptations and on a smaller scale.

While the Fellows of the Nexa Center typically contribute *pro bono* to the activities of the center, some of them, the “Research Fellows”, perform a research specifically for the Nexa Center as a Ph.D. Student or with some kind of research grant (e.g., as “assegnisti di ricerca”). Finally, “Faculty Fellows” are tenured professors of the Politecnico di Torino or of the Università di Torino, which are the two universities forming the aca-

demic constituency of the Nexa Center.

Formally becoming a Fellow of the Nexa Center implies the membership in a closed mailing-list devoted to the Fellows, the possibility of taking part to internal “closed-doors” meetings at the Center (for instance, brainstorming sessions, but also the meeting of the Board of Trustees) and, of course, the possibility of publicly using the ti-

tle of Fellow of the Nexa Center for Internet & Society, and of appearing as such on the website of the Nexa Center. On top of that, depending on their research proposals, fellows may receive a limited amount of financial support (defined on a case by case basis) and reimbursement for travel and similar expenses related to their approved projects related to the Center.

During the month of June, the Nexa Center will also announce its Fellows for the next academic year (2013/2014). All the current Fellows (as listed at p. 73 ff. of this report) will be confirmed and five new fellows will be added:

Daniele Trincherio (Faculty Fellow) is professor at Politecnico di Torino (Dept. of Electronics and Telecommunications), where he manages the iXem Lab (which he co-founded with Riccardo Stefanelli in 2004). His research interests encompass Wireless Networks, Sensor Networks, Internet of Things, and solutions to reduce digital divide in developing countries, and in marginal areas of developed ones. He is member of the Institute of IEEE.

Giovanni Arata (Fellow) is a freelance journalist, blogger and researcher with a PhD in "Information Systems and Organization". He is leading the #socialPA project (p. 21) and led the "Dai una Voce alla Democrazia" project within Biennale Democrazia (p. 34);

Giovanni B. Gallus (Fellow) is a practicing lawyer, mainly in the field of Criminal Law, ICT Law, Copyright and Data Protection Law. He holds an LL.M. granted by the University of

London - UCL, and a PhD by the University of Molise. President of the Italian Association of Cyber-lawyers ("Circolo dei Giuristi Telematici"), he is also fellow of the Hermes Center for Transparency and Digital Human Rights and a passionate user and supporter of Free Software.

Stefano Leucci (Fellow) holds a degree in IT Law. He focuses his studies on information security and computer-related crimes, with particular interest in corporate crimes and issues related to IPRs in the digital environment. He currently works as IT Law and forensics advisor at TrentoRISE, in the open data project in Trentino.

Elena Pavan (Fellow) is the leading investigator and project manager of www.REACTION-project.info. She holds a degree in Communication Sciences and a PhD in Sociology (Univ. of Trento, 2009). Her most recent research interests pertain to the relationships between collective action/political participation and social media use. Her PhD dissertation on Internet governance and multistakeholderism has been released in January 2012 as a book for Lexington Publications. For the Nexa Center, she is involved, on a *pro bono* basis, in the EINS Network (p. 39).

In June 2013, the Nexa Center furthermore enriched its network establishing the position of **Faculty Associate** and it announced its two first Faculty Associates:

Andrea Cairola is a journalist and an expert in international cooperation in the field of media development and promotion of freedom of expression. His didactic activities include

teaching video-journalism at the School of Journalism of the Catholic University of Milan as well as in other academic settings and in grass-root projects. He holds a degree in Economics from the Bocconi University in Milan, a MA in International Journalism from the City University of London, and a certificate as Media Law Advocate by the Programme in Comparative Media Law and Policy of the Oxford University. Since 2012, he is holding the position of "Communication and Information Adviser" at the Beijing Office of UNESCO. For UNESCO, he also worked based in Kazakhstan, and Afghanistan and in the "Freedom of Expression Division" at the Paris-headquarter. Andrea also worked as a print and broadcast journalist, authoring video contributions aired on "Report" and "Presadiretta", prime-time investigative programmes on the Italian public broadcaster RAI. In 2003, he has written and co-directed the award-winning documentary Citizen Berlusconi. He has participated to several conferences and academic-seminars in Europe and Asia on issues related to journalism and information; he also contributed, edited or reviewed publications about comparative media law, press freedom, investigative journalism, Internet and society, and freedom of information.

Giorgio Ventre is Professor of Computer Networks in the Department of Electrical and Information Engineering of the University of Napoli Federico II where he is leader of the COMICS research group on computer networking and multimedia communications. He owns a degree in Electronic Engineering and a PhD in Computer Engi-

neering, both from the Federico II. From 1991 to 1993 he was with the Tenet Group at the International Computer Science Institute and the University of California at Berkeley. In 1993 he joined the University of Napoli Federico II as an assistant professor. In 1999 Giorgio Ventre was co-founder of ITEM, the first national research laboratory of the Italian University Consortium for Informatics (CINI), and from

2004 to 2011 was President of CRIAI, a industrial research centre on ICT in Napoli. He is now Director of ITEM and member of the board of CINI. He has been principal investigator for a number of national and international research projects and in four EU-funded research projects on the Future Internet. Giorgio Ventre has co-authored more than 200 publications and he is senior member of the IEEE

and of the ACM, and he is member of AICA and of IET. He is area editor for the Computer Networks journal, Elsevier. His researches are sponsored by the European Commission, the Italian Government and by several national and international companies. He has also launched four start-up companies from the research activities developed in his lab.

8.5 Alliances and Cooperations

During the reporting period, the Nexa Center reinforced its ongoing collaborations with various Italian institutions, in particular the Top-IX consortium (which was a co-organizer of the Italian IGF 2012, but also collaborated with other older projects, e.g., hosting the first Neubot master server) and CSP – Innovation in ICT (another co-organizer of the Italian IGF that interacts with Nexa on a regular

basis and, for instance, supported the “Dai una Voce alla Democrazia” initiative within Biennale Democrazia 2013).

At the Italian level, the Center also kick-started some joint initiatives with the ActionAid ONG.

In general, however, it is at the International level that the reporting period saw the more relevant developments. On top

of various European proposals, involving historical and new partners (which are describe in § 6. Project Proposals, p. 41), the following two sections detail two global initiatives involving (or even co-founded by) Nexa.

Moreover, the Nexa Center is an associate partner of the Last-JD Joint International Doctoral (Ph.D.) Degree in Law, Science and Technology.

8.5.1 The global Network of Internet & Society Centers

The Nexa Center is amongst the eight founding members of the Network of Interdisciplinary Internet & Society Research Centers (NoC).

The NoC is a collaborative initiative among academic institutions with a focus on interdisciplinary research and a strong attention to the social impact and policy implications of their research agenda.

Following the guiding principles of the NoC, its “participants are committed to the principles of openness, collaboration, and diversity.” The Network is peer-based and, at the organizational level, the role of coordinator of the Network will be taken in turn by various members.

Together with the other seven founding members, the Berkman Center for Internet &

Society hosted the launch meeting of the NoC at Harvard University on December 6-8, 2012. The first symposium organized by the NoC concerned “Internet-Driven Developments: Structural Changes and Tipping Points” and brought together representatives from research centers located in 22 countries across 5 continents.

8.5.2 Global Network Initiative

In March 2013, the Nexa Center for Internet & Society joined the Global Network Initiative as the first Italian partici-

pant in this NGO.

GNI champions fundamental human rights online, with a focus

on privacy and freedom of expression. GNI includes civil society and academic participants, but also investors and several

major ICT companies (such as Google, Microsoft, Yahoo! or Facebook), with the aim of providing them with a standard framework to deal with fundamental rights online, ensuring ac-

countability and enabling opportunities for policy engagement and shared learning across stakeholders.

GNI Executive Director Susan Morgan welcomed the Nexa

Center as “a critical source of interdisciplinary research, informed by expertise in technology, law, and economics, on Internet policy from a European perspective.”

8.6 Visitors at the Nexa Center and Nexa Researchers Abroad

As in the previous reporting period, during the Fall and Winter 2012, prof. De Martin spent several weeks at Harvard University as Berkman Center faculty fellow.

In the context of the mobility programme of the EINS Network, Nexa faculty fellow Alessandro Mantelero is currently spending some months as visiting scholar at the Oxford Internet Institute in the UK.

Maria Serena Ciaburri, one of the best students of the 2012 edition of the *Rivoluzione Digitale* course (p. 49), is currently spending 10 weeks at the Berkman Center at Harvard University as a Summer Intern.

Various junior researchers spent some time at the Nexa Center. Angelica Tavella, an undergraduate student at University of California, Berkeley, spent some months at the Center during the Fall and Winter 2012, doing research on the Italian cultural heritage law and its impact on the digital reproduction of artifacts. Dash Elhauge, from the US, spent about three months as an intern of the Nexa Center, contributing to the Neubot and TellMeFirst software projects. At the beginning of 2013, Claudio Tamburrino, a graduate student from the WIPO LL.M, also spent two months at Nexa, doing research on the public domain, studying various old copyright

laws (including some predating the unification of the Kingdom of Italy, which could still influence the public domain status of several works).

Finally, in the context of the S2EuNet project (in which the Nexa Center is not formally involved), prof. Alfredo Sánchez from the Universidad de las Américas Puebla spent a week at the Politecnico di Torino during May and was hosted at the Nexa Center, where he had a chance of discussing various potential collaborations in fields such as digital libraries, natural language processing, and network neutrality.

8.7 Outlook

In the next reporting period we expect that the activities of the Network of Internet & Society Centers will accelerate and the Nexa Center is strongly committed to be an active participant.

We also expect that the next few months will offer the occa-

sion to get more directly involved in the activities of GNI.

Finally, and even if some constraints concerning the current budget of the Center may limit our ability to host foreign researchers or support the visiting period of our own researchers, some ad hoc funding is available,

e.g., within the EINS network of excellence, and we already received some applications from potential visiting researchers, e.g., from Alina Östling, a political and social science PhD candidate from the European University Institute with a strong professional background in democratic governance and new technologies.

9. OUTREACH

This section summarizes the activities of the Nexa Center aimed at increasing awareness about the Center and its main fields of research. Notice that some project-specific activities of this nature have been described in previous sections.

9.1 Introduction

During the fifth meeting of the Board of Trustees, the importance of understanding the core mission of the center for the next years was underlined. With the aim of strengthening this aspect, the Nexa Center for Internet & Society joined the global Network of Internet & Society Centers (NoC), a collaborative initiative among academic institutions with a focus on interdisciplinary research on the

development, social impact, policy implications, and legal issues concerning the Internet. Moreover this year the Nexa Center joined the Global Network Initiative, a multi-stakeholder group established for negotiating and creating a collaborative approach to protect and advance freedom of expression and privacy in the ICT sector.

For more information, refer to...

<http://nexa.polito.it/newsroom>
<http://nexa.polito.it/press-releases>

His Executive Director Susan Morgan, argued that “the Nexa Center is a critical source of interdisciplinary research, informed by expertise in technology, law, and economics, on Internet policy from a European perspective.”

9.2 Creative Commons Tenth Anniversary

10-years celebrations of Creative Commons organized by the CC Italian Affiliate. For additional information: <http://creativecommons.it/CC10party>

In order to celebrate the 10th birthday of Creative Commons, on December 16, 2012, an evening party took place in Turin, organized by the working group on Creative Commons in Italy.

After an introduction on the potential use of Creative Commons licenses with the witness

of some artists, during the party there was a live performance of several musical groups who spread their works using such licenses.

During the celebrations, Juan Carlos De Martin passed the ba-

For more information, refer to...

<http://creativecommons.it/CC10party>

ton of public lead of Creative Commons Italy to Federico Morando.

9.3 Nexa Wednesdays

An established tradition of continuing innovation and exchange of opinions!

The monthly meetings open to the public called Nexa Wednesdays became a usual appointment for the Nexa Center fellows and friends since September 2008. At the time of finalizing this report, fifty-three Nexa Wednesdays have taken place. The meetings held on the second Wednesday of each month, from 18:00 to 20:00, and they are available in live streaming at: <http://nexa.polito.it/upcoming-events>. You can find a list of all the Nexa Wednesdays at <http://nexa.polito.it/mercoledì>.

Attendance at Nexa Wednes-

day as a rule exceeds 20 and sometimes 30 participants (thus, attendance frequently almost saturates the physical capacity of the Center's meeting room).

In order to promote an interdisciplinary exchange on the Internet & Society field, also introducing new people to the discussion, guests of the meeting are encouraged to use a simple language, avoiding unnecessary technicalities.

On the occasion of the 50th meeting, the Nexa Center has published an A3 format poster with a brief summary of all 50

Nexa Wednesday. The poster is available at: http://nexa.polito.it/nexacenter-files/50_mercoledì_di_nexa.pdf.

This is a short summary of Nexa Wednesdays and related topics:

43rd Nexa Wednesday - Digital evidence and fundamental freedoms: June 13, 2012; guests: Monica Senore e Giuseppe Vaciago.

44th Nexa Wednesday - Tell me where are your friends, I'll tell you who you are: opportunities and risks

of new generation of social media: July 11, 2012; guest: **Giancarolo Ruffo**.

45th Nexa Wednesday - The Onlife Initiative: Rethinking Public Spaces in the Digital Transition: September 12, 2012; guests: **Nicole De Wandre, Luciano Floridi, Ugo Pagallo**.

46th Nexa Wednesday - Digital Agenda: the experience of the City of Bologna: October 10, 2012; guest **Michele D'Alena**.

47th Nexa Wednesday - E-government: practical experience:

and instructions for use: November 14, 2012; guests **Alessandro Mantelero, Franco Carcillo, Giovanni Menduni, David Osimo**.

48th Nexa Wednesday - Which regulation for NGN networks: December 12, 2012; guest **Carlo Cambini**.

49th Nexa Wednesday - Smart disclosure and new consumer protection forms: January 9, 2013; guest **Elisa Brodi**.

50th Nexa Wednesday - Creative Commons: towards 4.0 licenses: February 13, 2013;

guests: **Federico Morando, Massimo Travostino**.

51st Nexa Wednesday - Open, respectful & smart city: March 13, 2013; brainstorming with co-directors, fellows and staff of the Nexa Center.

52nd Nexa Wednesday - Smart City Manifesto: April 10, 2013; guest: **Simona Lodi**.

53rd Nexa Wednesday - Rites and myths of democracy 2.0: May 8, 2010; guest: **Carlo Milani**.

Centro Nexa su Internet & Società
Politecnico di Torino (DALIN)

I primi 50 "mercoledì di Nexa"

Dal settembre 2008 ogni 2° mercoledì del mese alle ore 18 il Centro Nexa su Internet & Società ha aperto le sue porte non solo a esperti e professionisti, ma anche a semplici appassionati e cittadini per discutere, con linguaggio comprensibile a tutti, delle Rete. Ospiti da tutta Italia e dall'estero si sono alternati a esperti locali per presentare progetti, discutere idee e in generale permettere a competenze e sensibilità diverse di confrontarsi. I "mercoledì di Nexa" si svolgono presso la sede del Centro Nexa, in Via Boglio 65/a (primo piano), e sono anche trasmessi "live" sul nostro sito: <http://nexa.polito.it/upcoming-events>. Oltre ai "mercoledì", dal maggio 2012 il Centro Nexa organizza anche i "Nexa lunch seminars", che si tengono ogni 4° mercoledì del mese alle ore 13, <http://nexa.polito.it/lunch-seminars>.

The image displays a grid of 50 small cards, each representing a Nexa Wednesday event. Each card includes a date, a title, a speaker's name, and a small portrait photo. The cards are arranged in five columns and ten rows. Some cards have logos like 'Nexa Center', 'WiFi', or 'Open Access'. At the bottom right of the grid, there is contact information for the Nexa Center, including a website URL (<http://nexa.polito.it/mercoledì>), a Twitter handle (@nexacenter), a Facebook page (<http://facebook.com/nexa.center>), and a mailing list sign-up link (<https://www-nexa.polito.it/cgi-bin/mailing/listinfo/nexa-announce>).

9.4 Nexa Lunch Seminars

Since May 2012, the Nexa Center launched a series of meetings entitled "Nexa Lunch Seminar" held on the fourth Wednesday of the month, from 13.00 to 14.00. As in the case of

Nexa Wednesdays, it is possible to follow all the meetings live over the Internet by streaming video at: <http://nexa.polito.it/upcoming-events>. A list of the Nexa Lunch Seminars is available at

<http://nexa.polito.it/lunch-seminars>.

This is a short summary of Nexa Lunch Seminars and related topics:

3rd Nexa Lunch Seminar - Which cloud for Public Administration?: July 25, 2012; guests: **Raimondo Iemma, Alessandro Mantelero.**

4th Nexa Lunch Seminar - DIY - Do Internet Yourself - For those who do not believe in the need for technology in the rural world: September 26, 2012; guest: **Daniele Trinchero.**

5th Nexa Lunch Seminar - Brainstorming on open data and public budgets: October

24, 2012; brainstorming with co-directors, fellows and staff of the Nexa Center.

6th Nexa Lunch Seminar - #TwitterPA. Presentation of the 2012 report on the use of Twitter in public administration: November 28, 2012; guests: **Giovanni Arata, Alessandro Mantelero.**

7th Nexa Lunch Seminar - The collective intelligence to organize knowledge on the Web: January 23, 2013; guest: **Federico Cairo.**

8th Nexa Lunch Seminar - The role of cadastral information for the creation of services: February 27, 2013; guest: **Paolo Mistrangelo.**

9th Nexa Lunch Seminar - How to evaluate the Open Data quality: March 27, 2013; guests: **Marco Torchiano, Antonio Vetrò.**

10th Nexa Lunch Seminar - Transparency Decree: a FOIA or “just” Open Data?: April 24, 2013; guests: **Federico Morando, Christian Quintili.**



9.5 Other Meetings

In addition to the Nexa Wednesdays and Nexa Lunch Seminars, the Center organized some other meetings:

Presentation of the book **“Infrastructure: The Social Value of Shared Resources”** with its author **Brett Frischmann:** July 4, 2012.

An **“Ideathon”** to contribute to the public consultation launched by the Italian Ministry of Education on “General Principles of the Internet - Internet Governance”: October 10, 2012.

“The news and the right to be forgotten: Newspapers and archives in the Internet Age”, a seminar organized by **Alessandro Mantelero**, faculty

fellow of the Nexa Center: October 22, 2012.

E-privacy 2012 Winter Edition, organized by the Winston Smith Project and the Nexa Center. The topic of the winter edition conference was “E-government and e-democracy: perspectives and privacy implications”, on which the organizing committee opened a call for presentations: November 19, 2012.

2013 International Open Data Day in Italy that took place in parallel with other Open Data workshops and hackathon in Italy: February 23, 2013.

2013 Public Domain celebrations, organized in collaboration with the Library System

of the Politecnico di Torino: March 8, 2013.

“Paradoxes of the Web Economy” organized as part of the seminar series “Around the media. exchanges and discussions”, promoted by Prof. **Pepino Ortoleva** of the University of Turin: March 12, 2013.

“Internet & Democrazia” seminars during the 2013 edition of “Biennale Democrazia”: April 11-14, 2013. (p. 34).

Open Data Seminar organized in collaboration with the **Last-JD** Joint International Doctoral (Ph.D.) Degree in Law, Science and Technology: April 24, 2013.

“Open Access Knowledge:

opportunities and challenges” organized for the “Salone Internazionale del Libro di Torino”: May 16, 2013.

9.6 Website

After the complete redesign of the Nexa Center's website (<http://nexa.polito.it/>) deployed at the end of 2011, in 2012 some changes were made to improve the user's browsing experience, for example in the newsroom website section (<http://nexa.polito.it/newsroom>). During the reporting period (Figure 2) the website:

- collected a significant amount of traffic, with relevant improvements since the previous report (about 31,100 visits and

16,900 unique; while data for the previous year were: 22,600 visits and 12,200 unique);

- has been extensively linked on the Web. According to Google web-master tools, over 770 domains contain links to the Nexa Center's website (about 650 the previous year). During the reporting period the website obtained a good international exposure: if 82% of traffic came from Italy, about 3% came from the US, about 2% from France and the UK and

about 1% each from Germany, Spain, Belgium, Turkey and The Netherlands.

The first graph (Figure 1) depicts the Nexa web site pageviews from October 2010 (beginning of measurements) up to now as registered by Google Analytics. The peaks are in conjunction with the annual conferences.

The second graph (Figure 2) shows a peak in October 2012, during the IGF Italia 2012 conference (p. 33).



Figure 2: Page-views of the Nexa website during the reporting period



9.7 Media Exposure

Traditional newspapers and weekly magazines, such as “La Stampa”, “La Repubblica”, “Il Sole 24 Ore”, “Il Fatto Quotidiano” and “L’Espresso” spread the Nexa Center's press releases and news related to the center. The co-directors of the Nexa Center gave various interviews

to newspapers and radios (Rai Radio 3, Radio 24), both traditional and online. Regarding the foreign press, some months ago Eric Pfanner, a journalist of “The International Herald Tribune”, interviewed Prof. Marco Ricolfi on the acquittal of 3 Google Executives by Italian Appeals Court in

a privacy case.

The Nexa Center fellows were also often interviewed by Italian media: Alessandro Mantelero provided some insights about drones during an episode of TGR Leonardo, a RAI television news that deals with science and technology. Some of the

fellows became contributors in blogs and online newspapers, addressing issues related to many research topics of the center. For example, the lawyer Carlo Blengino is blogger at “Il Post”, one of the most important online magazines in Italy (<http://www.ilpost.it/car->

[loblengino](#)).

The co-director Juan Carlos De Martin continues his collaboration as op-ed contributor at “La Stampa”, confirming that “Internet & Society” is becoming an increasingly important topic in Italy. Some of the matters discussed in the editorials of prof.

De Martin gave rise to many discussions on social media and Nexa mailing list. Many of discussions that took place in the Nexa mailing-list were also taken into blogs of prominent journalists such as Anna Masera (“La Stampa”). (See <http://nexa.polito.it/newsroom>).

9.8 Mailing Lists and Social Media

To subscribe to the Nexa Center mailing-lists or access their archives, please visit <http://nexa.polito.it/mailling-lists>.

The Center has three main mailing-lists:

- the **Nexa-Fellows** mailing-list is a private list connecting the core Nexa Center collaborators; it is used for various purposes, including confidential communications and to coordinate the activities of the fellows on specific projects; the list has about 35 members (Nexa Center fellows and staff) and relatively low traffic (about 340 messages since April 2010);
- the **Nexa-Announce** mailing-list is a low traffic list used to spread information about Nexa Center public events and publications; it is open to anybody, upon subscription, in read only mode.
- the **Nexa mailing-list** is used to inform all the fellows and friends of the Nexa Center about the events and publications of the Center, and to circulate information regarding books, reports and other materials about “Internet & Society” in general; the list is open to anybody, upon subscription, and all the members can both read and post new messages; the list has about 473 mem-

bers (416 one year ago) and collected almost 3,300 posts since May 2011 (in the previous reporting period they were about 2,200);

bers (416 one year ago) and collected almost 3,300 posts since May 2011 (in the previous reporting period they were about 2,200);

The Center also uses various internal mailing-lists to connect the members of the staff and/or some sub-sets of them working on specific projects. The general internal mailing-list of the staff of the Center saw about 1400

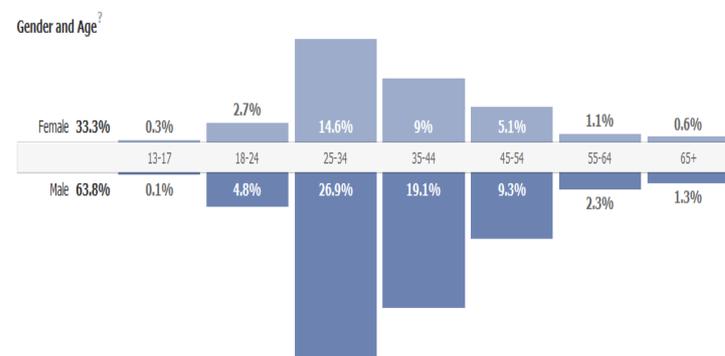
posts since May 2011.

During the reporting period, the Center also increased the use of social networks Facebook (facebook.com/nexa.center) and Twitter (@[nexacenter](#)).

On Twitter, the center has 1036 followers (559 the previous year) while, the total number of fans on Facebook is 794 (622 the previous year), with distribution shown in Figure 3.

The fans of the page come mainly from Italy (596) and the US (41), but also from the UK (19), France (12), Spain (11), Germany (11), India (10) and other European and non-European countries.

Figure 3: Gender and Age Statistics on Facebook fans



9.9. Outlook

The recurring appointment represented by the Nexa Wednesdays and Lunch Seminars are, by now, an established tradition. The number of sporadic meetings that take place during the year also grew considerably, giving a further opportunity for dissemination of the contents related to the activities and research areas of the Nexa Center.

This year, the photographs of the meetings organized by the Nexa Center are systematically published on Flickr, Facebook, Twitter and on the Nexa website. For some meetings, such as the presentation of the book by prof. Brett Frischmann "Infrastructure: The Social Value of Shared Resources", the full video of the presentation was also re-

leased. These efforts are intended to treat the entire life cycle of events and not only their advertising. With new graphics, applied not only to the website, but gradually to official mailing-lists announcements, the brand of the Center is further strengthening.

In the last year overall the outreach tools of the Center experimented a process of tumultuous innovations during the past reporting period and may need some fine tuning and a consolidation process. This process will include the systematic review of the website of the Center and the provision of news and contributions published on blogs and websites by Nexa trustees and fellows (reported

on the 'Nexa planet' website section). For these contents and for its own activities, the Nexa Center is also considering the publication of a periodic newsletter.

Considering that the outreach tools of the Center as such are now quite mature, we plan to develop the communication strategy of the Center in an increasingly organic way, with an internal communication plan explicitly taking into account all the projects of the Center.

The 2013 Nexa Annual Conference will be held in Turin, on November 30, 2013, having as focus "Internet & Democracy".

ANNEX I – NEXA PEOPLE

Some pieces of biographical information about the co-directors, staff, trustees and fellows of the Center follow.

1.1 Directors

Juan Carlos De Martin - Founder and Co-Director

See dedicated box at page 5 of the *Summary* section above.

Marco Ricolfi - Founder and Co-Director

See dedicated box at page 6 of the *Summary* section above.

1.2 Trustees

Phillip Aigrain



Dr. Philippe Aigrain was trained as a mathematician and theoretical computer scientist, and holds a Doctorate and a "Habilitation à Diriger les Recherches" qualification from University Paris 7. From 1972 to 1981, he worked in software engineering research labs of software companies. He was a research fellow at U.C. Berkeley in 1982. Since then, and before joining the European Commission in 1996, he headed research teams in the field of computer processing, indexing, retrieval and user interface for audiovisual media (video, music, still images). He is the author of more than 50 research and technology assessment papers.

He is presently CEO of Sopinspace, Society for Public Information Spaces, a company founded by him in 2004. Sopinspace develops free software and provides commercial services for the organization of public debates and collaborative work over the Internet. In parallel, he is active as an analyst of the stakes of the information revolution and engaged in actions for the reform of intellectual rights regimes. This is part of a long commitment to the development of technical tools, processes and social environments that help everyone to be more creative, more capable or critical thinking and constructive exchanges with others. He has authored two books on the information commons and related policy issues: "Cause commune: l'information entre bien commun et propriété", Fayard 2005 (translated in Italian and Arabic), and "Internet & Création: comment reconnaître les échanges sur internet en finançant la création" (English translation: "*Sharing: Culture and the Economy in the Internet Age*"). His books and numerous papers on the information commons, access to knowledge and intellectual rights are accessible under CC licenses on his blog.

Yochai Benkler



Yochai Benkler is the Berkman Professor of Entrepreneurial Legal Studies at Harvard, and faculty co-director of the Berkman Center for Internet and Society. Before joining the faculty at Harvard Law School, he was Joseph M. Field '55 Professor of Law at Yale. He writes about the Internet and the emergence of networked economy and society, as well as the organization of infrastructure, such as wireless communications. In the 1990s he played a role in characterizing the centrality of information commons to innovation, information production, and freedom in both its autonomy and democracy senses. In the 2000s, he worked more on the sources and economic and political significance of radically decentralized individual action

and collaboration in the production of information, knowledge and culture. His work traverses a wide range of disciplines and sectors, and is taught in a variety of professional schools and academic departments. In real world applications, his work has been widely discussed in both the business sector and civil society. His books include *The Wealth of Networks: How social production transforms markets and freedom* (2006), which received the Don K. Price award from the American Political Science Association for best book on science, technology, and politics, the American Sociological Association's CITASA Book Award an outstanding book related to the sociology of communications or information technology, the Donald McGannon award for best book on social and ethical relevance in communications policy research, was named best business book about the future by *Strategy & Business*, and otherwise enjoyed the gentle breath of *Fortuna*. In civil society, Benkler's work was recognized by the Electronic Frontier Foundation's Pioneer Award in 2007, and the Public Knowledge IP3 Award in 2006. His articles include *Overcoming Agoraphobia* (1997/98, initiating the debate over spectrum commons); *Commons as Neglected Factor of Information Production* (1998) and *Free as the Air to Common Use* (1998,

characterizing the role of the commons in information production and its relation to freedom); From Consumers to Users (2000, characterizing the need to preserve commons as a core policy goal, across all layers of the information environment); Coase's Penguin, or Linux and the Nature of the Firm (characterizing peer production as a basic phenomenon of the networked economy) and Sharing Nicely (2002, characterizing shareable goods and explaining sharing of material resources online). His work can be freely accessed at benkler.org.

Maurizio Borghi



Maurizio Borghi is Professor of Law at Bournemouth University, where he is the Director of the Centre for Intellectual Property Policy & Management (CIPPM). Prior to joining Bournemouth he has been lecturer at Brunel University Law School, research fellow at Bocconi University of Milan and visiting scholar at the Center for the Study of Law and Society at the University of California, Berkeley. His research is primarily focused on developing a right-based understanding of law for the information society. In this vein, he has extensively published on the subjects of copyright, data protection, and the role of law in the digital age. His monograph 'Copyright and Mass Digitization' (co-authored with Stavroula Karapapa) has been published in 2013 by Oxford University Press.

Mario Calderini



Mario has a PhD in Economics from the University of Manchester and he has a BSc and an MSc in mechanical engineering from Politecnico di Torino. He served as Senior Advisor to the Italian Minister for Research and Innovation Policies and coordinated the 'Smart Communities' Working Group for the steering committee of the Italian Digital Agenda. He teaches Management of Innovation and Technology Strategy at undergraduate, master and postgraduate level and in the Alta Scuola Politecnica. Mario sits in the scientific committee of the PhD program in "Economics and Management of Technology" at Politecnico di Torino and University of Bergamo and of the PhD program in "Economics of Institutions and Creativity" at Uni-

versity of Torino. His main research interest is in the Economics and Management of Innovation. His numerous publications in international journals cover research and innovation management issues, technology policies and empirical studies on the determinants of innovative activity. He has been involved in several research projects and his research has attracted funds and sponsorships to Politecnico di Torino from several Institutions such as the European Commission, the Italian Ministry for Research, the Italian Ministry of Industry, the Italian Authority for Communications and several research foundations, private consultancy companies, banks and industry associations. Mario Calderini is the delegate for Public Policies of the Fondazione COTEC per l'Innovazione Tecnologica, under the Honorary Presidency of Giorgio Napolitano, President of the Italian Republic. He is the co-director of Fondazione Rosselli's Laboratorio di Economia dell'Innovazione "Franco Momigliano" and has a permanent cooperation with Fondazione Giovanni Agnelli. He is currently a member of the Intellectual Property Rights Commission at Politecnico di Torino and a member of the Dean's board for Politecnico's Fourth Faculty of Management. Mario Calderini is also a member of the Scientific Committee of "Quaestio", the Lombardy Region System for Research and Technology Transfer Centres Evaluation, and sits in the permanent product liability working group established by the European Community in order to monitor the impact of Directive 85/374/CE on liability for defective products. In 2005 he joined the expert group of the United Nations Conference on Trade and Development (UNCTAD) with the task of peer reviewing the UN's World Investment Report 2005. In 2006 he was nominated by the Italian Delegation as an expert to the Administrative Council of the European Patent Office (EPO). In the recent past, he was a member of the National Physics of the Matter Institute International Evaluation Panel and the national representative in the European Commission's Board for Regional Technology Advisor Centre.

Luca De Biase



Luca De Biase is a journalist and writer. He is the founder and chief editor of Nòva, the science and technology crossplatform section at Il Sole 24 Ore. He is the president of Fondazione Ahref, which is meant to research and help improve the information ecosystem emerging in the social media. He is author of "Economia della felicità", "Il mago d'ebiz" and "In nome del popolo mondiale". He blogs at blog.debiase.com and lucadebiase.nova100.ilssole24ore.com. He edited with Giorgio Meletti "Bidone.com". He contributed to the project and implementation of various initiatives, such as Skillpass, ScienceXpress, I nonni raccontano, EquiLiber, Reporters Online. He teaches Journalism and social media at Iulm in Milan. He

teaches Social media and international policy at Sciences Po, Paris.

Josef Drexl



Professor Dr. Josef Drexl, LL.M., graduated from the University of Munich and holds a Ph.D. degree (1990) and a habilitation degree of the same University, in addition to an LL.M. degree from the University of California at Berkeley.

Josef Drexl worked as a law professor at the Universities of Würzburg and Munich from 1997 to 2006; he continues to be a honorary professor at the University of Munich. Since 2002 he has been a director of the Max Planck Institute for Intellectual Property and Competition Law in Munich. In 2003, Professor Drexl was elected the first chair of the Academic Society for Competition Law (ASCOLA). As the Chair of the Managing Board of the Munich Intellectual Property Law Center

(MIPLC) he is responsible for an internationally renowned LL.M. program in IP. He acted as a visiting professor at Oxford University, LUISS University (Rome) and New York University. He regularly teaches in the LL.M. program in EU law at the University of Paris 2 Panthéon-Assas. Professor Drexl is an expert in international and European competition law, intellectual property law, consumer law and WTO law.

Brett Frischmann



Brett Frischmann is Professor of Law at the Benjamin N. Cardozo School of Law, Yeshiva University, where he teaches intellectual property and Internet law. He is currently the Director of Cardozo's IP and Information Law Program, an Affiliated Scholar of the Center for Internet and Society at Stanford Law School, and an Affiliated Faculty Member of The Vincent and Elinor Ostrom Workshop in Political Theory and Policy Analysis, Indiana University.

He received a BA in Astrophysics from Columbia University, an MS in Earth Resources Engineering from Columbia University, and a JD from the Georgetown University Law Center.

After clerking for the Honorable Fred I. Parker of the U.S. Court of Appeals for the Second Circuit and practicing at Wilmer, Cutler & Pickering in Washington, DC, he joined the Loyola University, Chicago law faculty in 2002.

Urs Gasser



Urs Gasser is the Executive Director of the Berkman Center for Internet & Society at Harvard University. He teaches at Harvard Law School, at the University of St. Gallen (Switzerland) and Fudan University School of Management (China). He is a visiting professor at KEIO University (Japan) and a Fellow at the Gruter Institute for Law and Behavioral Research.

Urs Gasser has written several books, is the co-author of "Interop: The Promise and Perils of Highly Interconnected Systems" (Basic Books, 2012, with John Palfrey) and "Born Digital: Understanding the First Generation of Digital Natives" (Basic Books, 2008, with John Palfrey) that has been translated into 10 languages (including Chinese), and has published over 70 articles in professional journals.

His research and teaching activities focus on information law and policy issues. Current projects, several of them in collaboration with leading research institutions in the U.S., Europe, and Asia, explore policy and educational challenges for young Internet users, the regulation of digital technology (currently with focus on cloud computing), interoperability, information quality, the law's impact on innovation and risk in the ICT space, and alternative governance systems. He graduated from the University of St. Gallen (J.D., S.J.D.) as well as Harvard Law School (LL.M.) and received several academic awards and prizes for his research.

Jean-Claude Guédon



Prof. Jean-Claude Guédon began his career at Glendon College (York University) in Toronto, Ontario in 1970 and has been a professor at the Université de Montréal since 1973, first in the Institut d'histoire et de sociopolitique des sciences, and, since 1987, in the Département de littérature comparée. He is a long-time member of the Internet Society serving as co-chair of the program committee in 1996, 1998 and 2000, and member of the same committee in 1997, 1999 and 2002.

In 1991, with Bill Reading and Walter Moser, he launched the first electronic scholarly journal in Canada: *Surfaces*. Between 1998 and 2003, he was Chair of the Advisory

Board for CNSLP (Canadian National Site Licence Project, now known as CRKN (Canadian Research Knowledge network). From 2002 until 2006, he was a member of OSI's Information Program sub-board. Between 2003 and 2007, he was a member of the Advisory Board of eIFL (Electronic Information for Libraries). In 2006 he was elected (until November 2008) Vice-President of the Canadian Society for the Humanities and Social Sci-

ences.

He has advised numerous governmental bodies, including the Ministère de la Recherche (France) for their e-publication project in the humanities and the social sciences; the Agence de la francophonie for matters pertaining to new technologies; the Quebec Minister of Communication in charge of the information highway; and the Quebec Ministry of education for the integration of the new technologies into the curriculum. He regularly acts as expert for the European Commission. He is also on the editorial board of several journals, and his three books are all available in Italian.

Lucie Guibault



Dr. Lucie Guibault is associate professor at the Institute for Information Law of the University of Amsterdam (UvA). She studied law at the Université de Montréal (Canada) and received in 2002 her doctorate from the University of Amsterdam, where she defended her thesis on Copyright Limitations and Contracts: An Analysis of the Contractual Overridability of Limitations on Copyright.

She is specialized in international and comparative copyright and intellectual property law. Lucie Guibault has been carrying out research for the European Commission, Dutch ministries, UNESCO and the Council of Europe. Her main areas of interest include copyright and related rights in the information society, open content

licensing, collective rights management, limitations and exceptions in copyright, and author's contract law. She has been involved as legal partner in Creative Commons Netherlands since 2005 and in projects related to Europeana (EuropeanaConnect and Europeana Awareness) since 2009.

She is in charge of the coordination of the IViR International Copyright Law Summer Course. Dr. Guibault is member of the international editorial board of *Les Cahiers de propriété intellectuelle*, member of the editorial board of the *Journal of Intellectual Property and Information Technology (JIPITEC)*, and correspondent for the *Netherlands for Computer Law Review International (CRI)*.

Anna Masera



Anna Masera graduated in History at Yale in 1983. In 1984 she was awarded a master degree in journalism from the Columbia University. In 1986 she started to work as journalist for "Italia Oggi", an Italian daily newspaper. Then she worked for the press agency Reuters and later for Mondadori, writing for two monthly magazines: "Fortune Italia" and "Espansione". In the meantime she was also a consultant for the talk show "Milano, Italia" of the Italian public broadcaster. She started to work for Panorama "life and style" section in 1994 when Internet started to gain widespread diffusion. Since then she is following the development of new media: first she founded "Panorama Web", then she was hired by "La Stampa" in 1999 to launch their website. She is currently deputy editor and blogger for "LaStampa.it" and she also blogs on the "Guardian".

launch their website. She is currently deputy editor and blogger for "LaStampa.it" and she also blogs on the "Guardian".

Angelo Raffaele Meo



1961-1969 Assistant Professor of Electrical Engineering at Politecnico di Torino.

1970- Full Professor of Computer Science at Politecnico di Torino.

1970-1999 head of "Centro per l'Elaborazione Numerale dei Segnali" CNR.

1979-1985 director of the "Progetto Finalizzato Informatica", CNR.

1991-1996 scientific director of "Centro di Supercalcolo Piemonte".

He has published more than one hundred papers dealing with computer science. In particular, he investigated switching theory, hardware design, signal processing, speech analysis and synthesis, and pattern recognition. He has coordinated many academic and industrial national research projects on computer science. He was president of the Academy of Sciences of Torino. In 2002 he was called by the Italian Minister of Technology to preside at a Commission entrusted with the task of promoting open source in the Italian Public Administration.

president of the Academy of Sciences of Torino. In 2002 he was called by the Italian Minister of Technology to preside at a Commission entrusted with the task of promoting open source in the Italian Public Administration.

Charles Nesson



Charles Rothwell Nesson is the William F. Weld Professor of Law at Harvard Law School and the founder of the Berkman Center for Internet & Society and of the Global Poker Strategic Thinking Society. He is author of *Evidence*, with Murray and Green, and has participated in several cases before the U.S. Supreme Court, including *Daubert v. Merrell Dow Pharmaceuticals*. In 1971, Nesson defended Daniel Ellsberg in the Pentagon Papers case. He was co-counsel for the plaintiffs in the case against W.R. Grace that was made into the film *A Civil Action*.

Nesson attended Harvard College as an undergraduate, and then Harvard Law School where he joined the list of only a handful of people in history to have grad-

uated *summa cum laude*. Nesson was a law clerk to Justice John Marshall Harlan II on the United States Supreme Court, 1965 term. He then worked as a special assistant in the Department of Justice Civil Rights Division. His first case, *White v. Crook*, made race and gender-based jury selection in Alabama unconstitutional. Nesson joined the Harvard Law School faculty in 1966, and was tenured in 1969.

He is "currently leading a project to reify university as a meta player in cyberspace, to legitimize and teach poker and the value of strategic poker thinking, and to advance restorative justice in Jamaica". In 2006 he taught *CyberOne: Law in the Court of Public Opinion* with Rebecca Nesson and Gene Koo. He teaches courses in the law and practice of Evidence (how to prove the "truth"), *Trials in Second Life*, and a reading group with Fern Nesson on Freedom.

Michelangelo Pistoletto



Michelangelo Pistoletto was born in Biella in 1933. He began to exhibit his work in 1955 and in 1960 he had his first solo show at Galleria Galatea in Turin. An inquiry into self-portraiture characterizes his early work. In the two-year period 1961-1962 made the first Mirror Paintings, which directly include the viewer and real time in the work, and open up perspective, reversing the Renaissance perspective that had been closed by the twentieth-century avant-gardes. These works quickly brought Pistoletto international acclaim, leading, in the sixties, to one-man shows in important galleries and museums in Europe and the United States. The Mirror Paintings are the foundation of his subsequent artistic output and theoretical

thought.

In 1965 and 1966 he produced a set of works entitled *Minus Objects*, considered fundamental to the birth of *Arte Povera*, an art movement of which Pistoletto was an animating force and a protagonist. In 1967 he began to work outside traditional exhibition spaces, with the first instances of that "creative collaboration" he developed over the following decades by bringing together artists from different disciplines and diverse sectors of society. In 1975-76 he presented a cycle of twelve consecutive exhibitions, *Le Stanze*, at Galleria Stein in Turin. This was the first of a series of complex, year-long works called "time continents". Others are *White Year* (1989) and *Happy Turtle* (1992).

In 1978, in a show at Galleria Persano in Turin, Pistoletto defined two main directions his future artwork would take: *Division and Multiplication of the Mirror and Art Takes On Religion*. In the early eighties he made a series of sculptures in rigid polyurethane, translated into marble for his solo show in 1984 at Forte di Belvedere in Florence. From 1985 to 1989 he created the series of "dark" volumes called *Art of Squalor*. During the nineties, with *Project Art* and with the creation in Biella of *Cittadellarte - Fondazione Pistoletto* and the University of Ideas, he brought art into active relation with diverse spheres of society with the aim of inspiring and producing responsible social change. In 2003 he won the Venice Biennale's Golden Lion for Lifelong Achievement. In 2004 the University of Turin awarded him a *laurea honoris causa* in Political Science. On that occasion the artist announced what has become the most recent phase of his work, *Third Paradise*. In 2007, in Jerusalem, he received the Wolf Foundation Prize in the Arts, "for his constantly inventive career as an artist, educator and activist whose restless intelligence has created prescient forms of art that contribute to fresh understanding of the world."

David Post



David Post is currently the I. Herman Stern Professor of Law at the Beasley School of Law at Temple University, where he teaches intellectual property law and the law of cyberspace. He is

also a Fellow at the Center for Democracy and Technology, a Fellow of the Institute for Information Law and Policy at New York Law School, an Adjunct Scholar at the Cato Institute, and a contributor to the influential *Volokh Conspiracy* blog.

Professor Post is the author of *In Search of Jefferson's Moose: Notes on the State of Cyberspace* (Oxford, 2009), a Jeffersonian view of Internet law and policy. He is also coauthor of *Cyberlaw: Problems of Policy and Jurisprudence in the Information Age*

(West, 2007), and numerous scholarly articles on intellectual property, the law of cyberspace, and complexity theory. He has been a regular columnist for the *American Lawyer* and *InformationWeek*, a commentator on the *Lehrer News Hour*, *Court TV's Supreme Court Preview*, *NPR's All Things Considered*, *BBC's World*, and recently was featured in the PBS documentary *The Supreme Court*.

After receiving a Ph.D. in physical anthropology, he taught in the Anthropology Department at Columbia University before attending Georgetown Law Center, from which he graduated *summa cum laude* in 1986. After clerking with then Judge Ruth Bader Ginsburg on the DC Circuit Court of Appeals, he spent 6 years at the Washington D.C. law firm of Wilmer, Cutler & Pickering, after which he then clerked again for Justice Ginsburg during her first term at the Supreme Court (1993 - 1994), before joining the faculty of the Georgetown University Law

Center (1994 – 1997) and then Temple University Law School (1997 – present). Professor Post's writings can be accessed online at www.davidpost.com.

Stefano Quintarelli



Stefano Quintarelli is a serial entrepreneur (and prolific blogger), who pioneered the commercial development of the Internet in Italy. In 2013 he was elected to the Chamber of Deputies of the Italian Parliament as an independent candidate in the list "Scelta Civica".

He graduated in IT science at the University of Milan. In 1989 he founded MI.NE.R.S. (Milano Network Researchers and Students), the student telecom association that developed the first e-mail independent system in Italy.

In 1994, he was one of the founder of I.NET, the first commercial ISP in Italy for professionals, that hosted the Milan Internet Exchange (MIX), the first and most

important exchange point of ISP traffic in Italy, he also contributed to the birth of AIIP the Italian association of Internet Providers.

He was one of the founding members of: CLUSIT, Italian association for IT security; AIPSI, Italian association of professionals of IT security (Italian division of ISSA.org); Equiliber, Association for balanced information on technology innovation; VolPex, consortium for interoperability, quality and transparency of IP services.

He has been a supporter of civic IT backing the first civic networks in Italy (e.g. RCM the civic network of Milan and ONDE - Online Desenzano). He promoted the birth of DMIN.IT, the forum on digital media development in Italy, coordinated by Leonardo Chiariglione (the president of MPEG).

He is a supporter of network neutrality and knowledge sharing and he sustained since the beginning the activities of "Condividi la Conoscenza", the conferences organized by sen. Fiorello Cortiana and in 2005 he introduced in Italy the network neutrality topic in a congress with Lawrence Lessig and in other occasions.

He is author of many books and papers on Internet published on the most important Italian newspapers and he is scientific coordinator of updating workshops on technological topics for the Italian finance community.

He chaired the Italian ISP association (AIIP) till January 2007, he is a member of the Programming committee of Federcomin (innovation services of the Italian federation of industry).

He has been awarded by "Corriere della Sera-Economia" as one of the 30 most innovative Italian entrepreneurs.

Stefano Rodotà



Prof. Stefano Rodotà: Professor of Civil Law, University of Rome; former Chairman of the Italian Data Protection Authority; former Chairman of the European Group of the Data Protection Authorities Chairman of the Commission on Genetic Testing and Counselling; Member of the European Group on Ethics in science and technologies, Member of the Convention drafting the Charter of Fundamental Rights of the European Union (2000); Former Member of the HUGO Ethics Committee (1997-2000); Member of the Ethics Committee of the National Research Council; Work in the field of the legal and social effects of scientific innovation (1972-2000); Important work in the field of bioethics (1989-2000); Author of sev-

eral books and editor of a number of periodicals; Member of the Italian Parliament (1979-1994); Vice-President of the Chamber of Deputies (1992); Member of the Parliamentary Assembly of the Council of Europe (1983-1994); Member of the European Commission's Group of Advisers on the Ethical Implications of Biotechnology (1994-1997); Member of the European Group on Ethics (since 1998); Chairman of the European Group of Authorities for the Protection of Privacy (1999-2000).

Bruce Sterling



Bruce Sterling, author, journalist, editor, and critic, was born in 1954. Best known for his ten science fiction novels, he also writes short stories, book reviews, design criticism, opinion columns, and introductions for books ranging from Ernst Juenger to Jules Verne. His nonfiction works include "The Hacker Crackdown: Law and Disorder on the Electronic Frontier", "Tomorrow now: envisioning the next fifty years" (2003) and "Shaping things" (2005).

He is a contributing editor of WIRED magazine and writes a weblog. During 2005, he was the "Visionary in Residence" at Art Center College of Design in Pasadena.

In 2008 he was the Guest Curator for the Share Festival of Digital Art and Culture in Torino, Italy, and the Visionary in Residence at the Sandberg Instituut in Amsterdam. In 2011 he returned to Art Center as "Visionary in Residence" to run a special project on Augmented Reality.

He has appeared in ABC's Nightline, BBC's The Late Show, CBC's Morningside, on MTV and TechTV, and in Time, Newsweek, The Wall Street Journal, the New York Times, Fortune, Nature, I.D., Metropolis, Technology Review, Der Spiegel, La Stampa, La Repubblica, and many other venues.

Sacha Wunsch-Vincent



Dr. Sacha Wunsch-Vincent is Senior Economic Officer in the Office of the Chief Economist of the World Intellectual Property Organisation in Geneva. Before joining the WIPO, he was Co-Leader of the Innovation Strategy at the Science, Technology and Industry Directorate of the Organization for Economic Co-operation and Development (OECD) in Paris. Previously, he was a Swiss National Science Fellow at the Berkeley Centre for Law & Technology (University of California) and at the Institute for International Economics, in Washington, D.C.. He also worked as economist at the International Trade Center (UNCTAD&WTO). He publishes and works on newer generation trade and technology issues and serves as an advisor with a number of institutions such as the World Economic Forum, the UN ICT Task Force, and the World Bank. He teaches international trade at the Institut d'Etudes Politiques de Paris (Sciences-Po) and at the World Bank Institute. Sacha holds a Masters of International Economics (MERIT, University of Maastricht) and a PhD in Economics (University of St. Gallen).

1.3 Staff

Federico Morando - Director of Research and Policy & Research Fellow

See dedicated box at page 7 of the *Summary* section above.

Raimondo Iemma - Managing Director & Research Fellow

See dedicated box at page 8 of the *Summary* section above.

Selina Fenoglietto - Administrative Manager

See dedicated box at page 9 of the *Summary* section above.

Nadia Tecco - Administrative Assistant

See dedicated box at page 9 of the *Summary* section above.

Claudio Artusio - Staff Research Fellow

See dedicated box at page 10 of the *Summary* section above.

Luca Leschiutta - IT Manager

See dedicated box at page 11 of the *Summary* section above.

Giuseppe Futia – Communication Manager

See dedicated box at page 11 of the *Summary* section above.

1.4 Fellows

Ugo Pagallo - Faculty Fellow 2011-2013



Ugo Pagallo is a Full Professor in Philosophy of Law at the University of Torino, Law School, since 2000, Faculty at the Center for Transnational Legal Studies (CTLs) in London, U.K., and Visiting Professor of Comparative Privacy Law at Georgetown Law School in Washington, D.C. He is editor of the Digitalica series published by Giappichelli in Turin and co-editor of the AICOL series by Springer: Since 2008 member of the Programme Committee of ETHICOMP. In addition to numerous essays in scholarly journals like *Journal of Business Ethics*, *AI & Society*, *Journal of Information, Communication and Ethics in Society*, *Hobbes Studies*, *Journal of Chinese Philosophy*, *Apuntes filosóficos*, and so forth, he is the author of eight monographs. His main interests are AI & Law, Network theory, Robotics, and Information Technology Law (specially data protection law and copyright).

Alessandro Mantelero - Faculty Fellow 2011-2013 & Director of Privacy



Alessandro Mantelero is Confirmed Assistant Professor at Politecnico di Torino, Fourth School of Engineering Management and Industrial Engineering, where he teaches Private Law. He graduated cum laude in Law at the University of Turin on 1998. Ph.D. in Civil Law from the same University. Alessandro is author of numerous publications, among which are the following: *Attività di impresa in Internet e tutela della persona*, CEDAM, Padova, 2004, and *Il costo della privacy tra valore della persona e ragione d'impresa*, Giuffrè, Milano, 2007. He is currently focusing his studies on data protection, ISP liability and legal implications of cloud computing. webpage:<http://staff.polito.it/alessandro.mantelero/>

Simone Basso – Research Fellow 2011-2013



Simone Basso is a fellow of the Nexa Center for Internet & Society since 2010, where he leads the research and development of the Neubot software project on network neutrality. His main research interests are network performance, network neutrality, TCP, Internet traffic management, peer to peer networks, and streaming. He is currently a PhD student at the Department of Control and Computer Engineering of Politecnico di Torino, where he received the Bachelor's (in 2006) and the MoS degrees (in 2009).

Federico Cairo – Research Fellow 2012-2013



Federico Cairo, graduated in Philosophy at the Collegio Superiore of University of Bologna (2005) and in Media Engineering at Politecnico di Torino (2008), is currently a Ph.D. student at the Interuniversity Department of Regional and Urban Studies and Planning (DIST) of Politecnico di Torino. His research mainly focuses on Semantic Web technologies for digital libraries and ontology-based search engines. After collaborating as an ontology engineer with CSI-Piemonte and CELI on the projects CoOPERARE (2010), dati.piemonte.it (2010), OPSA (2011), he was awarded a "Working Capital - Premio Nazionale Innovazione" by Telecom Italia for the project TellMeFirst (2011), an ontology-based document enhancer. He is now a

research fellow at the Nexa Center for Internet & Society, working on Open-DAI (2012) and other projects about Linked Open Data publication and reuse.

Cristiana Sappa – Research Fellow 2011-2013



Dr. Cristiana Sappa holds a degree in Business Law, a post-graduate diploma in Intellectual Property and New Technologies and a PhD in Private Law, major Intellectual Property Law and Competition. Her main research fields are Intellectual Property Law and Competition Law, with a particular interest in digitization related legal issues. She is currently project manager of two public sector information related projects: LAPSI Thematic Network and EVPSI research project.

Mauro Alovisio – Fellow 2012-2013



Mauro Alovisio graduated in Law at the University of Turin, Italy. He has specialized in Data Protection and New Technologies Law. Currently he is working at the Legal Office of the University of Turin.

During his professional activity he dealt with the privacy and the reorganization of the public administration through the use of the new technologies.

Mauro is author of scientific articles published in Italian journals and co-author on law books. He is the President of "Centro Studi di Informatica Giuridica" and he is a member of the "Commissione Informatica del Consiglio dell'Ordine degli Avvocati di Torino". As part of his Nexa fellowship, Mauro will focus on research topics

related to personal data in the EVPSI project and within the implementation of pilots in the Open-DAI project, also touching other issues related to public administrations in digital environment.

Eleonora Bassi – Fellow 2012-2013



Eleonora Bassi holds a Degree in Law (cum laude) and a PhD in Philosophy of Law and Legal Theory (University of Turin, Law School). Her main research fields are legal theory, privacy and data protection law, fundamental rights. She has been involved in the EVPSI project and in the LAPSI Thematic Network studying privacy issues related to open data policies. Currently she is post-doc Research Fellow at the University of Trento (DISI) and her work is on open data policies and big data legal issues.

Lorenzo Benussi - Founding Fellow



Lorenzo Benussi, degree (Laurea Magistrale) in Communication Sciences and PhD in Economics of Innovation, is Business Developer at the TOP-IX Consortium where he is appointed to support the development of innovative projects and research fellow of the Nexa Centre. Prior to joining TOP-IX, he was research fellow at the University of Turin and the University of Manchester where he taught and conducted researches on the economics and management of innovation and he

was co-director of OpensourceLab. His main interest, both as professional and researcher, is the evolution of ICT due to the pervasive diffusion of digital networks.

Enrico Bertacchini – Founding Fellow



Dr. Enrico Bertacchini is assistant professor at the Department of Economics and Statistics “S. Cogneetti De Martiis”, University of Turin, where he teaches Cultural Economics and Governance of Economic Processes. He graduated in Economics at the University of Turin and holds a Master in Economics from CORIPE–Collegio Carlo Alberto and a Ph.D. in Institutions, Economics and Law from the Universities of Turin and Gent. His main interests within the “Internet & Society” field concern Internet as an infrastructure for the production of and access to information goods and the economic analysis of the information society. He has multidisciplinary competences concerning the economics of culture and the economic analysis

of intellectual property, with a particular focus on commons-based models for the production of and access to information goods. His works has been published, among others, in the Journal of Cultural Economics, International Journal of Cultural Policy, International Journal of Arts Management, Review of Law and Economics, Ecological Economics and Regional Studies.

Carlo Blengino – Fellow 2011-2013



Carlo Blengino lives in Turin and is a lawyer and a partner of the legal firm “Studio Legale Catalano Penalisti Associati”. He deals exclusively with criminal law cases, with special reference to culpable crimes, professional liabilities, economics criminal laws, intellectual property rights, crimes involved with IT and new technologies, defense of privacy and personal data. Since the early nineties, he has debated in law courts the main issues of copyright, from CDs rental to campaigns for file sharing (among his many defenses, the one in the well-known sentence on downloading -Cass.149/07- and the defense of many users in the Peppermint case). He thus gained a concrete experience of sanctions in the area of copyright law. He is a

member of the IT Commission within the Bar Council of Turin. He contributes to several on-line magazines, to the magazine “Diritto dell’Informazione e dell’Informatica” of the Calamandrei Foundation and his works are published by Giappichelli Editore, UTET Giuridica and EGEA.

Nicola Bottero – Founding Fellow



Nicola Bottero is a practicing lawyer with a degree in Law from the University of Turin with a thesis on comparative law. He also graduated in the Intellectual property Specialization Course jointly organized by the University of Turin and the WIPO Academy. On top of practicing private law, industrial law and commercial law, works with the Chairs of Commercial and Industrial Law at the Law Faculty of the Universities of Turin and of Eastern Piedmont. He also teaches industrial law within some master degrees. He has been a member of the working group of Creative Commons Italy since its beginnings in 2003.

Marco Ciurcina – Founding Fellow



Marco Ciurcina. Rome, Italy, 05.02.65. Italian lawyer, working in the field of commercial and contractual law, Information Technology law, Copyright, Patent and Trademark law. He teaches “Law and ethics of communication” at the Politecnico di Torino, Faculty of Information Science. Free software and digital freedoms activist.

Alessandro Cogo – Founding Fellow



Dr. Alessandro Cogo received his degree at the Faculty of Law of the University of Turin on 2002 and holds a Ph.D. in Intellectual Property Law from the Universities of Pavia and Munich. He is assistant professor at the Law Department of the University of Turin and teaches intellectual property law at the University of Eastern Piedmont. Author of a book on Copyright contracts, essays, commentaries and case comments, he is currently focusing his studies on the liability for the infringement of IPRs.

Deborah De Angelis – Founding Fellow



Deborah De Angelis has a degree in Law from Luiss University in Rome; in January 2000 she became a lawyer specialized in digital music law. In 2001 she founded the legal office DDA. She also authored various publications in matters relating to authors' digital rights. In May 2004 became a member of the Creative Commons Italy working group. Since January 2008 she is the President of A-DJ, an international associations who cares legally protecting and promoting professional DJs.

She has a deep knowledge of all legal issues related to the working of collecting societies (with particular reference to the Italian Society of Authors and Editors, SIAE): this expertise is especially valuable within the Creative Commons and re-

lated projects. In 2008-2009, she coordinated the Creative Commons Italy / SIAE Working Group.

Giulio De Petra – Fellow 2011-2013



Giulio De Petra received his degree in Economics from University of Siena, Italy. He worked in the service organization in BNL (Banca Nazionale del Lavoro), one of the top Italian banks, as expert in software design methodologies and in database administration. Later, he moved to the consulting division of IPACRI (Istituto per l'Automazione della Casse di Risparmio Italiane), where he was in charge of the research activities and projects. It has been senior consultant for the RSO Institute and it was for several years ICT advisor for the mayor of the city of Rome. Later, he became executive manager in AIPA (Autorità per l'Informatica nella Pubblica Amministrazione) - public local administration division. After he became di-

rector general for eGovernment at the Prime Minister's department of Public Administration where he promoted the first national plan for eGovernment. Afterwards he became general manager in CNIPA (Centro Nazionale per l'Innovazione della Pubblica Amministrazione) leading as a director the public local administration department. Giulio De Petra then became general executive manager for Innovation before for the Autonomous Region of Sardinia and later for the Calabria Region. It has been member of the Prime Minister's Committee for the Statistical Information Assurance and he was vice president of ASSINTER (National association of the regional public administration companies working in the ICT field). Since 2010 he has been working at Informatica Trentina, as executive manager.

Giulio De Petra founded and supported many national associations working on political and social issues of technological innovation, including "ICT for Democracy", "Network", "The NetCentury – for a Free Knowledge Society".

Giancarlo Frosio – Fellow 2011-2013



Giancarlo F. Frosio is a qualified attorney with a doctoral degree (Scientiae Juridicae Doctor, S.J.D.) in intellectual property law from Duke University Law School in Durham, NC. Additionally, he holds an LL.M. with emphasis in intellectual property law from Duke University Law School, an LL.M. in information technology and telecommunications law from Strathclyde University in Glasgow, and a law degree from Università Cattolica in Milan. His research focuses on copyright law, digitization, history of creativity, public domain, open access, Internet and user based creativity, intermediary liability of Information Service providers, network information economy, access to knowledge (A2K), and identity politics. He has served as the

Deputy Director and Lecturer of the LL.M. in Intellectual Property law jointly organized by WIPO and the University of Turin for the past three editions. He is also a fellow of the Nexa Research Center for Internet and Society in Turin, where he acted as Chief Editor and author of the Final Strategic Report of COMMUNIA, the European Thematic Network on the Digital Public Domain funded by the European Commission within the eContentplus framework. Recently, he has also been appointed to the post of Research Fellow at the University of Nottingham. The post is one of the research projects of the new Centre for Copyright and New Business Models in the Creative Economy (CREATE) funded by the UK Research Councils. In August 2013, Giancarlo will join the Center for Internet and Society at Stanford Law School as a research and teaching fellow. He is the author of numerous legal articles and publications. At the moment, he is working on his book "Cumulative Creativity: From the Oral Formulaic Tradition to Digital Remix."

Thomas Margoni - Fellow 2011-2013



Thomas Margoni (JD, LL.M, PhD) is a Senior Researcher in copyright law at the Institute for Information Law (IViR), faculty of law - university of Amsterdam. His research focus concentrates on the relationship between law (primarily copyright and patents) and new technologies (including computer and bio-technology) areas in which he has published many articles and book chapters. Between 2008 and

2012 he was a post-doctoral researcher at university of Western Ontario (Canada), where he also taught courses in the field of intellectual property, computer law, and biotech law. Since 2008 he has been a fellow at the Nexa center for Internet and Society, where he directs the free licences law clinic SeLiLi (<http://selili.polito.it>).

Monica A. Senor – Fellow 2012-2013



Monica A. Senor is partner of Studio Legale Catalano Penalisti Associati law firm since 2001. She is a criminal lawyer, specialising in legal issues concerning data protection and criminal law related to new technologies; from a criminal procedure point of view, she specializes in digital and biometric forensics. She's a member of the IT Commission of the Turin Bar Association and because of this role she works with the Court of Turin on the implementation of the digitalization of the criminal proceeding. She's the scientific coordinator and also teacher of a private training course for lawyers' state licensing exam. She contributes to online magazines, such as Medialaws and Penale.it and her papers have also been published by Giappichelli,

EGEA, Springer and UTET Giuridica. She holds lectures and presentations on IT law matters.

Massimo Travostino – Founding Fellow



Massimo Travostino graduated in law from University of Turin (1993) and has a post-graduate degree in international and comparative law (1996). He is a practicing lawyer at Studio Legale Pecoraro-Travostino and assists public entities and private companies in commercial and contract law, with a focus on intellectual property/information technology and telecommunication sectors. He carries out regular teaching activity and is author of articles and essays.

Giuseppe Vaciago – Fellow 2012-2013



Giuseppe Vaciago has been a lawyer of the Milan Bar since 2002 and for the last 10 years his primary focus has been IT Law with a focus on cyber crime. He has assisted many national and international IT companies. Academically, he received his PhD on Digital Forensics from Università di Milano and he is a lecturer at Insubria University (Varese and Como) where he holds a course on IT law. He recently attended Fordham Law School and Stanford Law School as a Visiting Scholar to expand his studies in his own particular research area. Giuseppe Vaciago is the author of many publications on cybercrime, including both scientific journals and textbooks, which have been adopted by the University where he teaches. He has also

delivered many lectures and presentations in both Italy and abroad. He is also fellow at the Cybercrime Institute of Kolin and member of the Editorial Board of Journal of Digital Investigation. As part of his Nexa fellowship, Giuseppe will propose research topics related to computer forensics and fundamental rights from an "Internet & Society" perspective.

1.5 Alumni

Silvia Bisi – Fellow 2010-2012

Elias Carotti - Research Fellow 2009-2012

Irene Cassarino - Fellow 2009-2012

Davide Bardone – Research Fellow 2009-2011

Andrea Cairola - Research Fellow 2009-2011

Carolina di Vonzo – Fellow 2009-2011

Corrado Druetta – Research Fellow 2009-2011

Valentin Vitkov – Fellow 2009-2011

Maria Crea – Staff 2011

Federica Cedriano – Staff 2009-2011

Antonella Giulia Pizzaleo – Research Fellow 2009-2010

Ilaria Buri – Staff 2009-2010

Anna Piccitto – Staff 2009-2010

Maria Teresa Medina Quintana – Staff 2006-2008

Andrea Glorioso – Staff 2006-2007

ANNEX II – NEXA PUBLICATIONS

This section includes published articles, but also other products of the research of the Nexa fellows, encompassing reports and some selected blog-posts and presentations. Please, notice that the list is not comprehensive and just includes a set of contributions signaled by the Nexa fellows themselves.

All Nexa Staff members and Fellows are listed in bold type.

Reasearch Publications (books; articles; papers)

M. ALOVISIO, E. BASSI, *Protezione dei dati personali e riutilizzo dell'informazione del settore pubblico*, in M. Ricolfi, C. Sappa (eds.), *Extracting value From Public Sector Information: Legal Frameworks and Regional Policies*, ESI, Napoli (book chapter), 2013.

M. ALOVISIO, *La trasparenza nell'organizzazione della p.a.*, in B. Ponti (ed.), *Commento al Codice della trasparenza*, Maggioli (book chapter), 2013.

M. ALOVISIO, *Pre-employment- screening sui social*, in newsletter Associazione Italiana per la Direzione del Personale AIDP Lombardia Speciale Risorse Umane e socialnetwork (online law review), 2013, <http://www.aidp.it/aidp/ALLEGATI/OTHER/4143.pdf>

M. ALOVISIO, *Open data e riuso dei dati nel Testo unico sulla trasparenza*, in *Quotidiano della pubblica amministrazione*, Ipsa (online law review), 2013, <http://www.pa.leggiditalia.it/>

M. ALOVISIO, *Sanzioni e responsabilità nel Testo unico sulla trasparenza*, in *Quotidiano della pubblica amministrazione*, Ipsa (online law review), 2013, <http://www.pa.leggiditalia.it/>

M. ALOVISIO (CO-AUTHOR), *La sicurezza nei social media Guida all'utilizzo sicuro dei social media per le aziende del Made in Italy*, in *Community Oracle* (e-book), 2013, <http://social.clusit.it/views/Social/Homepage.html>

C. ARTUSIO, *Riflessioni su segni distintivi e dati pubblici*, in M. Ricolfi, C. Sappa (eds.), *Extracting value From Public Sector Information: Legal Frameworks and Regional Policies*, ESI, Napoli (book chapter), 2013.

E. BASSI, U. PAGALLO, *Open Data Protection: Challenges, Perspectives and Tools for the Re-use of PSI*, *Digital Enlightenment Yearbook* (academic article), forthcoming.

E. BASSI, D. LEONI, S. LEUCCI, J. PANE, L. VACCARI, *Opening Public Deliberations: Transparency, Privacy, Anonymisation* (academic article), forthcoming.

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S. BASSO, J. C. DE MARTIN, M. MEO, *Strengthening Measurements from the Edges: Application-Level Packet Loss Rate Estimation*, *ACM SIGCOMM Computer Communication Review* (journal paper), forthcoming.

S. BASSO, J. C. DE MARTIN, E. MASALA, A. SERVETTI, *Challenges and Issues on Collecting and Analyzing Large Volumes of Network Data Measurements* (conference paper submitted to: *East-European Conference on Advances in Databases and Information Systems (ADBIS) 2013, Special session on Big Data: New Trends and Applications*), submitted.

E. BERTACCHINI, F. MORANDO, *The Future of Museums in the Digital Age: New Models of Access and Use of Digital Collections*, in *International Journal of Arts Management*, Volume 15, n. 2, Winter (academic article) 2013, <http://www.gestiondesarts.com/en/the-future-of-museums-in-the-digital-age-new-models-for-access-to-and-use-of-digital-collections/#.UaC97uAso4g>

C. BLENGINO, *Diritto d'autore/ Acta, nel metodo il difetto*, in *Formiche.net* (online review), 2012, <http://www.formiche.net/2012/05/02/diritto-dautore-acta-nel-metodo-il-difetto/>

M. BOGATAJ, J. PUSSER, C. SAPPA, P. TORREMANS, *Policy Recommendation as to the Issue of the Proposed Inclusion of Cultural and Research Institutions in the Scope of PSI Directive*, in *MUJLT* (review), 2013.

P. CASANOVAS, U. PAGALLO, M. PALMIRANI, G. SARTOR, *AI Approaches to the Complexity of Legal Systems. Models and Ethical Challenges for Legal Systems, Legal Language and Legal Ontologies, Argumentation and Software Agents*, Dordrecht (book as editor), 2012, <http://www.springer.com/computer/ai/book/978-3-642-35730-5>

M. CIURCINA (CO-AUTHOR), *Beni culturali: brevi note su dati e loro uso pubblico alla luce delle recenti modifiche legislative*, in *Atti del Convegno ArcheoFOSS 2012* (book chapter), forthcoming.

M. CIURCINA (CO-AUTHOR), *Il MOD: MAPPA Open Data archaeological archive*, in F. Anichini, F. Fabiani, G. Gattiglia, M.

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- M. CIURCINA**, *LiquidFeedback, Democrazia Liquida*, in *Oxygen*, n. 19 (article), 2013.
- A. COGO**, *Opere cinematografiche e diritti futuri: qualche spunto in argomento*, in *Giurisprudenza Italiana (case comment)*, forthcoming.
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- A. COGO**, *La determinazione amministrativa dei corrispettivi*, in *Annali italiani del diritto d'autore, della cultura e dello spettacolo*, 2012 (academic article), 2013.
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- D. DE ANGELIS**, *ART.700 cpc e la procedura d'urgenza – capitolo:ART.700 cpc e la procedura d'urgenza nella proprietà intellettuale*, in *Maggioli* (book chapter), 2013.
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- D. DE ANGELIS**, *La proposta di direttiva circa la gestione collettiva dei diritti d'autore e la concessione di licenze multiterritoriali*, in *DDA Studio Legale* (online article), 2013, <http://www.ddastudiolegale.it/2013/01/la-proposta-di-direttiva-circa-la-gestione-collettiva-dei-diritti-dautore-e-la-concessione-di-licenze-multiterritoriali/>
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- M. DURANTE, U. PAGALLO**, *Diritto, memoria, oblio*, in F. Pizzetti, *Il caso del diritto all'oblio*, Giappichelli, Torino (book chapter), 2013.
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- A. MANTELERO**, *Responsabilità del provider*, in F. Delfini, G. Finocchiaro (ed.), *Diritto privato dell'informatica*, Torino (book chapter), forthcoming.
- A. MANTELERO**, *Competitive value of data protection: the impact of data protection regulation on on-line behaviour*, in *International Data Privacy Law* (academic article), forthcoming.
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- A. MANTELERO**, *La tutela del diritto d'autore verso nuove strategie nei rapporti fra titolari ed intermediari*, in F. Pizzetti (ed.), *Il caso del diritto di autore*, 2nd Ed., Giappichelli, Torino (book chapter) 2013, <http://www.giappichelli.it/Home/978-88-348-9202-2,3489202.asp>
- A. MANTELERO**, *Il diritto all'oblio dalla carta stampata ad Internet*, in F. Pizzetti (ed.), *Il caso del diritto all'oblio*, Giappichelli, Torino (book chapter), 2013, <http://www.giappichelli.it/Home/978-88-348-2816-8,3482816.asp>
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