



The Future of the Internet: Technology, Law, Ethics, Economics, and Society

Piazza San Giovanni in Monte 2 – Bologna

November 20–21, 2017

Summary report on IGF Italia 2017, held on November 20 and 21 at the University of Bologna

Attendance was as follows: 120 persons registered online and 47 registered at the event, for a total of 167 participants. A total of 145 persons were in attendance: 72 of them from academia; 17 from the private sector; 11 from governmental organizations; 5 from administrative agencies; and 8 from other agencies, organizations, and associations.

Method

The purpose of IGF Italia 2017 was to favour an exchange among all parties having a stake in the Internet ecosystem, this on a “bottom-up” approach based on principles of equal, transparent, open, and inclusive participation.

In keeping with this method, care was taken to make sure that IGF Italia 2017 was cross-disciplinary, plural, and multifaceted, with gender-balanced panels whose composition would reflect the interests of all parties concerned.

The issues addressed were not just technological but also concerned the economic, legal, and social aspect of Internet governance, so as to (a) take different perspectives into account in framing the issues relating to Internet governance in Italy and (b) offer system-wide, comprehensive solutions that could be submitted to the relevant governmental and nongovernmental organisms.

Because IGF Italia is a localized edition within a global framework, this year the event was designed on the basis of the principles the United Nations issued in 2016 for national and regional initiatives ([IGF NRIS Toolkit](#)). This model lays out a method and sets a quality standard in keeping with local peculiarities. For this reason an online participatory platform was opened this year, and the agenda was built on an open, shared basis, drawing input from the bottom.

Youth Participation

We believe it is essential to involve youths in Internet governance, not only because they will be the main users of the rules and services we are now framing in designing an Internet-governance model but also, and even more importantly, because we can learn about digital creativity from them, all the while teaching digital citizenship to them. This last point needs to be underscored, so that we do not backslide into an unthinking, hyper-connected, impulsive use of digital technology. For this reason, new ways of engaging youths were experimented at IGF Italia 2017, bringing to the classroom at the University of Bologna the issues identified in Italy by the Commission for Internet Rights and Duties chaired by the late Prof. Rodotà, to whom we all look to when it comes to understanding the values that underpin a fair and balanced Internet. In 2015 the commission issued a Declaration of Internet Rights which we hope will become a basis for the universities in Italy, while also serving as a benchmark against which to assess legal provisions concerned with digital technology. For this reason, the programme this year included a Youth IGF session aimed at the under-25 crowd, as well as a theatrical performance called Rete Ribelle (Rebel Web) scripted by Roberto Disma, artistic coordinator at Generazione Ypsilon and founder of Teatro alla Lettera.

New Issues

The emerging issues we considered included (i) the ability manipulate information using algorithms; (ii) the filter bubble; (iii) data sovereignty; (iv) the protection of national big data and of the strategic Internet infrastructure in Italy; (v) digital identity, identity theft, and cyberattacks; (vi) the use of artificial intelligence in the public and private sectors; (vii) the use of sensors for the Internet of Things; (viii) blockchain technology; and (ix) drones.

Because these issues are not self-contained, parallel sessions were introduced this year so as to address related issues such as (x) online rights and freedoms; (xi) the rights of individuals and enterprises; (xii) the ethics and sustainability of artificial intelligence and big data; (xiii) new economic models on the Internet tying local and global networks; (ix) Industry 4.0; and (x) the forms of protection available to labour in the transition toward the fourth industrial revolution.

Unlike any previous edition, IGF Italia 2017 included an **Internet and Work** panel devoted to the risks and opportunities that come with digital technology in the sphere of work and the professions. We explored some solutions that may be adopted to mitigate the emerging conflicts attendant on the uptake of these

technologies, to which end we considered the possibility of creating new professional roles, building new skills, and developing tools for protecting workers. It was stressed that whatever solutions are adopted, they need to be implemented in a timely manner, in such a way as to keep pace with the rapid advance of digital technology.

Another one of the panels was **Internet Ethics and Social Sustainability**. Its purpose was to address the ethical issues that artificial intelligence can give rise to when it comes to the use of big data, as when this technology is used to profile users, or when it promotes stereotypes based on predictive algorithms designed to work without the aid of human intelligence, or when decision-making is automated on the basis of viral mechanisms that wind up having consequences on people's lives. Also addressed in the panel was the issue of the filter bubble limiting the information we access, as well as the issue of the hyper-surveillance of citizens and businesses at the hands of government and over-the-top content providers, with the risk of hyper-centralizing Internet control and the data that moves through it. In addition, the panel was devoted to thinking about the way artificial intelligence can be designed so as to improve our quality of life and life prospects without subjecting the planet to an unsustainable power draw.

There was, finally, a **Cybersecurity and Internet** panel focused on the problem of cyberattacks and cyberwar, whose execution has been described as fluid and liquid, as well as on the risks posed by the deep Web and the skills needed to guarantee the security of consumers and of businesses that work mainly through the Internet. Also a focus of this panel was the problem of making sure that when citizens interface with the government, their data is secure: this holds for all data used in providing government services (such as healthcare and education) and for the data used in the political sphere, and citizens therefore expect public sector bodies to use secure platforms in providing such services and to frame their policies accordingly.

Results

For three years now, IGF Italia has been working to advance the project of creating a permanent continuous apparatus that will make it possible to address all Internet-related issues in Italy on a multistakeholder approach. This Bologna edition marked a turning point in carrying this project forward, with concrete results that were presented to the government agencies charged with regulating the Internet, as has been the practice for some time now in several other European and non-European countries. A significant contribution came from the enthusiasm and energy of the youths, whose forms of independent initiative and organization are driving the

paradigm shift we are witnessing, in a manner very much reminiscent of Thomas Kuhn's description of the way that one paradigm can displace another.

In the closing plenary session, the results of the program committee's work were presented by the Agenzia per l'Italia Digitale (Agency for Digital Italy) in the form of a **Manifesto** proposing that a multistakeholder body be set up for the purpose of addressing Internet-governance issues in Italy. This Manifesto will be made publicly available and brought to the attention of all government agencies whose activity may fall within the scope of these issues. The idea is to have an advisory body that can support the government's decision-making by bringing in stakeholders in such a way that they can express their concerns, share views, and offer solutions whenever a policy issue comes up that relates to the digital world. According to the 2017 Digital Economy and Society Index (DESI), Italy is ranked fourth-to-last in Europe under the headings of connectivity, Internet access, digital skills in the public sector, the ability to grow the digital economy, and Industry 4.0. And so, as the Manifesto underscores, we cannot afford to wait any longer, especially in view of the European Commission's Digital Single Market strategy, putting pressure on EU member states to comply with rules in policy areas such as privacy, security, digital identity, and trust services, and setting out many other harmonization and standardization instruments functional to the single European space. As the Manifesto also states, it is essential that we lay out and pursue a strategy enabling Italy to keep pace with the rest of Europe, all the while taking Italy's specific problems into account.

Conclusions

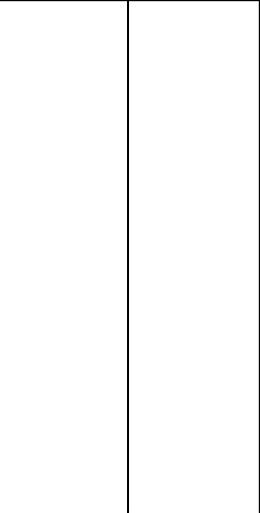
IGF Italia 2017 has led to several positive results that can be summarized as follows:

1. We have streamlined the event's organization, while answering the need to take a bottom-up approach in addressing the issues forming its agenda.
2. We have significantly managed to bring youths into the conversation on Internet governance.
3. The event now proceeds from a full appreciation that in order to effect the cultural transformation from old media to a new media landscape, it will be necessary to involve not only society, technology experts, and government but also media players themselves.
4. We are now paying closer attention to the ethics of promoting the advancement of technology—which in part means smoothing out the social

and labour conflicts that may arise as some of the older professions are being pushed out of the market while new ones are pressing in.

5. We have made a commitment to the idea that the ability to exercise basic rights and freedoms depends crucially on cybersecurity, and so that there can be no trade-off between the two. In other words, cybersecurity cannot come at the cost of curtailed rights and freedoms.
6. We have reinforced the idea that the job of defining and governing the Internet cannot be left to market players alone, without an active and vigilant role of governments making sure that access to this resource, arguably the most important on the planet at this time, is open, free, and fair.
7. We have resolved to set up a permanent organism and to request the Agenzia per l'Italia Digitale to perform at least the organisational secretariat functions . Its membership is to include relevant institutions, businesses, technology experts, academia, and the community. They will all have an equal role and will be empowered to
 - a. monitor the way emerging Internet-governance issues are dealt with in Italy;
 - b. take input from the bottom and address these concerns by proposing solutions in agreement with governance institutions;
 - c. sit at the table at regional, national, and international Internet-governance meetings; and
 - d. promote citizen participation by encouraging everyone to take on Internet-governance issues and spread the relative culture in the knowledge society.





Programme

Monday, November 20, 2017

9:00 AM Registration, Reception, and Coffee

AULA PRODI, PIAZZA SAN GIOVANNI IN MONTE 2

10:00 AM Welcoming Remarks

Francesco Ubertini, University of Bologna

Luca Sabattini, Emilia-Romagna Region

Marco Lombardo, City of Bologna

Carla Faralli, CIRSFID, University of Bologna

Gabriele Falciasecca, Fondazione Marconi

Vinton Gray Cerf, Marconi Society (VIA REMOTE CONNECTION)

11:00 AM – 1:00 PM PLENARY SESSION: THE STATE OF THE INTERNET IN ITALY

AULA PRODI, PIAZZA SAN GIOVANNI IN MONTE 2

MODERATOR:

ANNA MASERA

SCHEDULED TALKS:

* PAOLO COPPOLA, MEMBER OF THE CHAMBER OF DEPUTIES

* RITA FORSI, MINISTRY OF ECONOMIC DEVELOPMENT

* ANTONIO SAMARITANI, AGENZIA PER L'ITALIA DIGITALE (VIA REMOTE CONNECTION)

* GIUSEPPE BUSIA, SECRETARY-GENERAL OF THE ITALIAN DATA PROTECTION AUTHORITY

* STEFANO TRUMPY, INTERNET SOCIETY ITALIA

* GIACOMO MAZZONE, EUROPEAN BROADCASTING UNION

QUESTIONS FROM THE AUDIENCE

**2:30–4:00 PM SESSION I:
THE INTERNET AND THE LAW: ONLINE
FREEDOM**

AULA CONFERENZE, ASSOCIAZIONE ITALO
BRITANNICA, VIA FARINI 35

MODERATOR:
GIOVANNI SARTOR

SCHEDULED TALKS:

- * GIOVANNA DE MINICO, FEDERICO II
UNIVERSITY, ERMES
- * GIUSELLA FINOCCHIARO, UNIVERSITY OF
BOLOGNA
- * ANTONIO SANTANGELO, NEXA, POLITECNICO
DI TORINO
- * MARINA PIETRANGELO, ITTIG-CNR

QUESTIONS FROM THE AUDIENCE

**4:30–6:00 PM SESSION III:
THE INTERNET AND BUSINESS: BETWEEN
THE LOCAL AND THE GLOBAL**

AULA CONFERENZE, ASSOCIAZIONE ITALO
BRITANNICA, VIA FARINI 35

MODERATOR:
NICOLA DI TURI

SCHEDULED TALKS:

- * VITTORIO BERTOLA, OPEN-XCHANGE E
INTERNET SOCIETY ITALIA
- * ANDREA STAZI, GOOGLE
- * UGO BONELLI, STATI GENERALI
DELL'INNOVAZIONE
- * KUSSAI SHAHIN, LEPIDA SPA
- * LUCA BELLI, HEAD OF INTERNET
GOVERNANCE AT FUNDAÇÃO GETULIO
VARGAS, BRAZIL (VIA REMOTE CONNECTION)

QUESTIONS FROM THE AUDIENCE

**2:30–4:00 PM SESSION II:
THE FUTURE OF THE INTERNET AND
ETHICS: SOCIAL SUSTAINABILITY AND
DEVELOPMENT, AI**

AULA PRODI

MODERATOR:
MONICA PALMIRANI

SCHEDULED TALKS:

- * JOY MARINO, MIX MILAN INTERNET
EXCHANGE E INTERNET SOCIETY ITALIA
- * CHIARA PETRIOLI, LA SAPIENZA
- * FULVIO ANANASSO, CDTI E STATI
GENERALI DELL'INNOVAZIONE
- * CONCETTINA CASSA, AGENZIA PER
L'ITALIA DIGITALE
- * EMANUELA DONETTI, MUNICIPIA
ENGINEERING

QUESTIONS FROM THE AUDIENCE

**4:30–6:00 PM SESSION IV:
YOUTH IGF**

AULA PRODI

MODERATOR:
LAURA CAMARDELLI

SCHEDULED TALKS:

- * ANGELO ALÙ, INTERNET SOCIETY ITALIA
- * ALESSANDRO PICARONE, FEDERICO II
UNIVERSITY
- * FEDERICA GIAQUINTA, GENERAZIONE Y
- * GIANMARCO COLA E GIULIA CAVALLARI,
UNIVERSITY OF BOLOGNA

QUESTIONS FROM THE AUDIENCE

Tuesday, November 21, 2017

9:30–11:00 AM SESSION V:

THE INTERNET AND THE LAW: THE INDIVIDUAL AND THE MARKET

AULA CONFERENZE, ASSOCIAZIONE ITALO BRITANNICA, VIA FARINI 35

MODERATOR:

FERNANDA FAINI

SCHEDULED TALKS:

- * PIERO DE CHIARA, AGCOM
- * MARILÙ CAPPARELLI, GOOGLE
- * MARCO OROFINO, UNIVERSITY OF MILAN
- * ANDREA ZANNI, WIKIMEDIA ITALIA
- * MAURIZIO NAPOLITANO, FBK AND MEMBER OF SOD

QUESTIONS FROM THE AUDIENCE

11:30 AM–1:00 PM SESSION VII:

THE INTERNET AND WORK: CHANGES, OPPORTUNITIES, AND CONFLICTS

AULA CONFERENZE, ASSOCIAZIONE ITALO BRITANNICA, VIA FARINI 35

MODERATOR:

FRANCESCO GARIBALDO

SCHEDULED TALKS:

- * PASQUALE POPOLIZIO, INTERNATIONAL WEB ASSOCIATION ITALIA
- * GIULIO DE PETRA, CENTRO PER LA RIFORMA DELLO STATO
- * DOMENICO SQUILLACE, UNINFO
- * DIANORA POLETTI, UNIVERSITY OF PISA
- * CARMELO CARAVELLA, INNOVATION GROUP AT CGIL

QUESTIONS FROM THE AUDIENCE

9:30–11:00 AM SESSION VI:

CYBERSECURITY AND THE INTERNET

AULA PRODI

MODERATOR:

ARTURO DI CORINTO

SCHEDULED TALKS:

- * MICHELE COLAJANNI, UNIVERSITY MODENA E REGGIO EMILIA, CYBERACADEMY
- * DANIELE VANNOZZI, REGISTRO.IT
- * LEONARDO VALCAMONICI, CINECA
- * FRANCESCA BOSCO, UNITED NATIONS INTERREGIONAL CRIME AND JUSTICE RESEARCH INSTITUTE
- * MAURA GAMBASSI, MISE

QUESTIONS FROM THE AUDIENCE

11:30 AM–1:00 PM SESSION VIII:

INDUSTRY 4.0 AND THE INTERNET

AULA PRODI

MODERATOR:

GUIDO ROMEO

SCHEDULED TALKS:

- * ALBERTO DE ANGELIS, IBM
- * MATTEO MASI, CISCO
- * DANIELE TUMIETTO, UNINFO
- * PIERPAOLO MARCHESI, TELECOM
- * EMILIA GARITO, QUANTUM LEAP

QUESTIONS FROM THE AUDIENCE

2:30–4:00 PM PLENARY SESSION: THE FUTURE OF THE INTERNET

AULA PRODI, PIAZZA SAN GIOVANNI IN MONTE 2

MODERATOR:

GUIDO ROMEO

SCHEDULED TALKS:

- * MARA MUCCI, MEMBER OF THE ITALIAN CHAMBER OF DEPUTIES
- * MAURIZIO DÈCINA, POLITECNICO DI MILANO
- * ELIO CATANIA, CONFINDUSTRIA
- * ANDREA BECCALLI, STAKEHOLDER ENGAGEMENT TEAM AT ICANN
- * GIOVANNI BUTTARELLI, EUROPEAN DATA PROTECTION SUPERVISOR
- * MODERATORS' TALKS AND CONCURRENT SESSIONS

QUESTIONS FROM THE AUDIENCE

Organizing Committee

University of Bologna, CIRSFD (University of Bologna), Lepida SpA, Emilia-Romagna Region, City of Bologna, Marconi Foundation, CINECA, Agenzia per l'Italia Digitale, MISE, IWA Italy, ISOC Italia, Circolo dei Giuristi Telematici, SIIG, ERMES (Federico II University), NEXA (Politecnico di Torino), ICANN, European Broadcasting Union.

Programme Committee

Stefano Trumpy, Laura Abba, Monica Palmirani, Andrea Beccalli, Vittorio Bertola, Concettina Cassa, Laura Camardelli, Giovanna De Minico, Giulio De Petra, Maura Gambassi, Giacomo Mazzone, Pasquale Popolizio.

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