



European University Institute

ROBERT SCHUMAN CENTRE FOR ADVANCED STUDIES



FLORENCE SCHOOL OF REGULATION COMMUNICATIONS & MEDIA

REGULATING SMART CITIES: INFRASTRUCTURE, SHARING AND FINANCING



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INTENSIVE TRAINING COURSE

Turin

8-10 November 2017



RATIONALE

The role of cities has become increasingly significant in recent decades. The majority of the world's population lives in those urban areas where most of the wealth is produced, energy and information are consumed and waste and pollution are generated. These urban agglomerations are witnessing major technological and social transformations, resulting in new lifestyles and inequalities at the same time.

The smart city, which has become a buzzword in urban development strategy, is considered to be one of the most powerful tools to deal with contemporary challenges at local level, such as pollution, energy efficiency, transportation, social inclusion and welfare, and to attract investments. In this framework, cities are considered as potential platforms where major building blocks such as infrastructure, urban planning, rules enforcement and active citizenship might be glued together into a system that is able to respond dynamically to a new set of citizens' needs.

The main challenges associated with the realisation of a smart city lie in its multi-layer dimensions. As a consequence, an approach that integrates planning and management of the different layers would be required. In turn, this should entail a holistic consideration of different policy areas (ICT, transport, energy and water) with the inclusion of all stakeholders, such as governmental and non-governmental actors, private sector players and citizens. Overall, the main goal is to offer better services and to increase quality of life while guaranteeing infrastructure security and personal safety of citizens-consumers.

The Turin School of Local Regulation and the Florence School of Regulation, Communications & Media Area of the European University Institute are promoting a three-day intensive training to discuss some of the most problematic issues related to the realisation of smart cities.

The course analyses the factors driving the development of smart city projects, with the aim of providing participants with the knowledge and skills that are needed to understand their main technological, economic and regulatory challenges.

TOPICS COVERED

- Regulation of smart infrastructures
- Regulation of smart services
- Competition
- Interconnection and standards
- Open vs. closed infrastructure
- Sharing platforms
- City planning
- Urban informatics
- Sharing economy
- Project finance and PPPs
- Asset management
- Innovation procurement
- Big data & open data
- Social impact of smart platforms
- Welfare and inclusion technologies

WHAT WE OFFER

- Multidisciplinary lectures (industry experts, policy makers, academics)
- A platform to exchange experiences and best practices
- International case studies
- Interactive sessions
- Debate with policy makers

PROGRAMME

DAY 1 | SMART CITIES: UNDERSTANDING THE FUTURE OF INFRASTRUCTURE

An overview of the concept of smart city, its evolution and importance as a political tool, on the actors and services it involves and how these are regulated:

- State-of-the-art in current smart city projects
- Designing the architecture of e-infrastructure (openness v. closeness, interoperability, connectivity, standards, security)
- Technology and urban planning

DAY 2 | BUSINESS MODELS AND FINANCING

Analysing how new business models are impacting local systems and how they can be regulated

- Smart business models
- Financing smart city projects
- A new smart model: best practices from the public and the private sectors
- Case studies

DAY 3 | REGULATORY AND COMPETITION CHALLENGES FOR SMART CITIES

Technology-based sharing platforms are touching more and more people's lives; how can policy and regulation cope with new technologies?

- Sharing platforms: competition and regulatory issues
- Big data challenges
- Consumer protection
- Safety and security
- The role of the local regulation
- Debate

ELIGIBLE PARTICIPANTS

- Policy makers
- Regulators
- City planners
- Utility network specialists
- Industry experts
- Software architects
- Startups
- Researchers
- Local decision makers
- Community managers

FEES

- Fees include: course tuition, case study materials, coffee breaks, lunches and one social dinner.
- ▶ Full fee 700 Euro
Application and full payment deadline: 1 October 2017 5pm CET
- ▶ Early-bird fee 500 Euro
Application and full payment deadline: 14 July 2017 5pm CET

THE VENUE

- The training course takes place at, Rinascimenti Sociali, Via Maria Vittoria 38, Turin.
- Participants will benefit from a remarkable location and its fully-equipped facilities.

The initiative is endorsed by



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<http://turinschool.eu/eep/SC2017/apply>

THE FLORENCE SCHOOL OF REGULATION COMMUNICATIONS & MEDIA AREA

The Florence School of Regulation, founded in 2004 by the European University Institute (EUI) and the Council of European Energy Regulators (CEER) with the support of the European Commission, is a centre of debate, training and research about regulation and competition policy in the network industries. It is part of RSCAS.

The Communications & Media Area (FSR C&M) was established in 2009 in partnership with the European Electronic Communications Regulators (IRG/BEREC), and work closely with the European Commission (DG CNECT). It aims to provide state-of-the-art training for practitioners, to carry out analytical and empirical research, and to promote informed discussions on key policy issues in the electronic communications, Internet and media sector. The FSR C&M is directed by Professor Pier Luigi Parcu, with the support of a high level Scientific Committee composed by widely-known academic experts in the field and qualified research associates and project assistants.

Florence School of Regulation - Comms & Media,
Robert Schuman Centre for Advanced Studies
Via Boccaccio 121/111,
I-50133, Firenze (Italy)
<http://fsr.eui.eu/communications-media/>

TURIN SCHOOL OF LOCAL REGULATION

The Turin School of Local Regulation (TSLR) is a network school with a specific mission: focusing on local aspects of regulation and governance of public services and bridging the gap between the academic research and the local decision-makers.

The TSLR was officially launched by Foundation for the Environment in 2012 to capitalise a 15-year experience on training and capacity building on regulation of local public services. The School adopts a policy-oriented approach, with the aim of spreading the culture and instruments of regulation and regulatory reform at local level.

In terms of topics and sectors covered, the TSLR focuses on different aspects connected to local regulation (like investment decisions, procurement, tariff setting, asset management and distributional aspects) and on different sectors, namely energy distribution, urban waste and water cycle, local public transport, green areas and sport facilities, local welfare policies.

Turin School of Local Regulation
Via Maria Vittoria 38,
10123, Turin (Italy)
<http://turinschool.eu>

Regulating Smart Cities: Infrastructure, Sharing and Financing

3-day Intensive Training

TURIN, 8-10 NOVEMBER 2017

WEDNESDAY 8 NOVEMBER 2017 - SMART CITIES: UNDERSTANDING THE FUTURE OF INFRASTRUCTURE

- 09:00 - 10:30 **SMART CITIES: CURRENT TRENDS AND CHALLENGES IN THE EU**
PIER LUIGI PARCU - FSR C&M
- 10:30 - 11:00 *COFFEE BREAK*
- 11:00 - 12:30 **STATE-OF-THE-ART IN CURRENT SMART CITY PROJECTS**
CHRISTIAN CLAUSS - IBM
- 12:30 - 14:00 *LUNCH*
- 14:00 - 15:30 **DESIGNING THE ARCHITECTURE OF E-INFRASTRUCTURE**
(OPEN, INTEROPERABLE AND TECHNICALLY-SOUND STANDARDS; SMART AND SECURE INFRASTRUCTURE)
JEROEN SCHEER - ALLIANDER
- 15:30 - 16:00 *COFFEE BREAK*
- 16:00 - 17:30 **SMART CITIES: TECHNOLOGY AND URBAN PLANNING**
PATRIZIA LOMBARDI - POLYTECHNIC OF TURIN

THURSDAY NOVEMBER 9 - BUSINESS MODELS AND FINANCING

- 09:00 - 10:30 **"SMART" BUSINESS MODELS**
SCOTT MARCUS - BRUEGEL, FSR C&M
- 10:30 - 11:00 *COFFEE BREAK*
- 11:00 - 12:30 **FINANCING SMART CITY PROJECTS**
SERGIO OLIVERO - SITI
- 12:30 - 14:00 *LUNCH*
- 14:00 - 15:30 **A NEW SMART CITY MODEL: BEST PRACTICES FOR THE PUBLIC AND PRIVATE SECTORS**
MASSIMO ALULLI - ANCI
- 15:30 - 16:00 *COFFEE BREAK*
- 16:00 - 17:30 **DISCUSSION AND CASE STUDY**
GRAZIELLA ROCCELLA - PLANET IDEA
ANDREA SBANDATI - CISPEL

FRIDAY NOVEMBER 10 - REGULATORY AND COMPETITION CHALLENGES FOR SMART CITIES

- 09.00 - 10:30 **SHARING PLATFORMS: COMPETITION AND REGULATORY ISSUES**
MARIA LUISA STASI - FSR C&M
- 10:30 - 11:00 *COFFEE BREAK*
- 11:00 - 12:30 **SHARING PLATFORMS: COMPETITION AND REGULATORY ISSUES**
MARC REALP - ACCO
- 12.30 - 14.00 *LUNCH*
- 14.00 - 15.30 **THE ROLE OF LOCAL REGULATION**
JUAN MONTERO - UNED UNIVERSITY
- 15.30 - 16.00 *COFFEE BREAK*
- 16.00 - 17.00 **FINAL DISCUSSION**
- 17.00 - 17.30 **CONCLUDING REMARKS**
PIER LUIGI PARCU - FSR C&M
FRANCO BECCHIS - TSLR

SPEAKERS



Franco BECCHIS, *Turin School of Local Regulation (TSLR), Scientific Organiser of the Training Course*
Scientific Director of the Foundation for the Environment and of the initiative 'Turin School of Local Regulation', he coordinates research programmes on the interaction between economics, energy and the environment and on local public services, as well as capacity building and support activities for local public entities. He has been contract Professor in Environmental Economics at the Polytechnic of Torino, University of East Piedmont and Saint John International University. His last academic publication is "The Political Economy of Local Regulation", Palgrave Macmillan, 2017.



Pier Luigi PARCU, *Florence School of Regulation, Communications & Media Area (FSR C&M), Scientific Organiser of the Training Course*

Pier Luigi Parcu is currently Director of the Centre for Media Pluralism and Media Freedom and Area Director of the FSR Communications & Media. He is also Chairman of a consultancy company specialised in antitrust and regulatory issues of network industries. From 2000 to 2003, he has been CEO of the Independent System Operator running the Italian Electricity Grid (GRTN). From 1991 to 2000 he was the Director of Investigation at the Italian Competition Authority (AGCM) in charge of several regulated sectors. Previously, he served as Chief Economist at the Italian Security and Exchange Commission (CONSOB) and as Economist at the International Monetary Fund (IMF).



Massimo ALULLI, *National Association of Italian Municipalities (ANCI)*

Massimo Allulli holds a PhD in Political Science at the Istituto Italiano di Scienze Umane in Florence, and a BA in Sociology at Sapienza Università di Roma. He is researcher at the Research Department of the National Association of Italian Municipalities. Previously, he was contracted professor in Urban Political Sociology at Sapienza Università di Roma and visiting instructor at Cornell University, Department of City and Regional Planning. Massimo is author and co-author of articles and reports in the field of innovation in urban policy. Among his contributions: *Cities in search of Policy. The urban issue in the Italian National Political Agenda* (with W. Tortorella, 2013); *Il Patto di Amsterdam: l'Agenda urbana europea a una svolta?* (2016), *L'innovazione sociale e i Comuni. Istruzioni per l'uso* (2016).



Christian CLAUSS, *Executive in IBM's Smarter Cities*

Christian CLAUSS has been an executive in IBM's Smarter Cities since 2010 in the areas of Solution Architecture, Technical Strategy, and Business Development. He has worked directly with cities such as Barcelona, Madrid, Nice, Singapore, and Miami to plan and implement systems for intelligent transportation, water, waste, and emergency management. Prior to his work on Smarter Cities, Mr. Clauss lead teams developing products for sensor information management and supply chain traceability.

Prior to joining IBM, Mr. Clauss held technical roles at General Electric, Apple Computer, and Sun Microsystems.



Patrizia LOMBARDI, *Polytechnic University of Turin*

Patrizia Lombardi (PhD, MSc, BA/MA) is Chair of Urban Planning Evaluation and Project Appraisal of Politecnico di Torino (POLITO) and Head of the Interuniversity Department of Regional and Urban Studies and Planning (DIST). She is Scientific Coordinator of the UNESCO Master 'World Heritage and Cultural Projects for Development' managed by ITC-ILO since 2010. She coordinates the Green Team / Sustainable Path of POLITO. She is an established figure in the field of evaluating smart and sustainable urban development for over 20 years, publishing widely in the subject area and coordinating, or serving as lead partner and principal investigator, in several Pan-European Projects related to Smart Cities, Energy transition, and Cultural heritage: BEQUEST, INTEL CITY, INTEL CITIES, ISAAC; SURPRISE; Marie-Curie UNI-metrics (coordinator); MILESECURE-2050 (coordinator); POCACITO; DIMMER; KIC InnoEnergy/EIT ICT Lab; EEB Cluster/MIUR; SHAPE- ENERGY (H2020).



Scott MARCUS, *Bruegel*

J. Scott Marcus is an independent consultant dealing with policy and regulatory issues related to electronic communications. Current and past private consulting clients have included the European Parliament; the Electronic Frontier Foundation; the ITU; national regulatory authorities of Bahrain, Jamaica, and Namibia; Systra (the systems engineering arm of the French rail system) and various market players. He served as a Director for WIK-Consult GmbH; as Senior Advisor for Internet Technology for the FCC, and Chief Technology Officer of Genuity, Inc. In early 2014, he was appointed by Italian Prime Minister Enrico Letta to review the state of broadband infrastructure in Italy. He is a Visiting Fellow at Bruegel and a GLOCOM Fellow of the International University of Japan. Scott holds a B.A. in Political Science from the City College of New York, and an M.S. from the School of Engineering, Columbia University.



Juan MONTERO, *UNED University (Madrid)*

Juan Montero (PhD EUI) is Professor of administrative law in UNED University (Madrid), Scientific Adviser to the Florence School of Regulation (Transport Chapter) and of counsel in MLAB Abogados (Madrid). He has extensively lectured and published on the regulation of telecommunications and transport services. Over the past years, his research has been focused on the regulation of platforms and the sharing economy. He has co-authored the report for the European Parliament '*Infrastructure funding challenges in the sharing economy*' and the book '*La regulación de la economía colaborativa*', as well as different papers on the digitalization of transportation services, carpooling, ride-sharing, etc. He provides legal advice to the leading online platform in the transport industry.



Sergio OLIVERO, *Polytechnic University of Turin*

Sergio Olivero is head of the Research Area Security and Business Models for Energy Networks and Infrastructures at SiTI. He holds a degree in Electronic Engineering (Politecnico di Torino, 1989) and he worked at Telecom Italia in the field of ICT and in several other private companies in the field of security and civil protection. Since 2008, he has managed a series of Italian and international projects funded by the EC with a focus on in the fields of security, civil protection, smart grids, energy and harmonized geospatial data, many of them funded by the European Commission. In the field of energy, the work of his team is centered on energy-driven innovative business models to attract private investments by reducing the level of physical and financial risk, within an overall global strategy towards city renovation through energy efficiency. He is chief officer of the initiative X-Team (International Cultural Heritage Security), activated to protect museums, archaeological sites and artworks against anthropic threats. Since 1989 he has been a member of the Italian Association of Engineers.



Marc REALP, *Catalan Competition Authority (ACCO)*

Marc Realp holds a PhD and a degree in Telecommunications Engineering from de Polytechnic University of Catalonia, a Master's in Optoelectronics and Communication Systems from the University of Northumbria at Newcastle and a Programme for Management Development from ESADE business school. Expert in the regulation of the telecom sector in Europe and Spain, he has been strategy advisor for various public administrations and telecommunications operators and has participated in numerous public and private initiatives for the promotion and deployment of broadband in Catalonia and Spain. He has been also working on the promotion of more competitive ICT markets and regulation with less barriers to entry. Since July 2016, he is the Director-General of the Catalan Competition Authority (ACCO).



Graziella ROCCELLA, *Planet Idea*

Graziella Roccella has been Adjunct Professor in Architectural Design at Politecnico di Torino and is now Chief Operating Officer at Planet Idea Srl Smart Engineering where she leads a group of 25 engineers, architects, IoT and Social Innovation Experts. Her research topics focus on the link between Smart City and Smart Land, combining interests in the field of economic sustainability with the closure of production cycles in peri-urban areas.



Andrea SBANDATI, *Confservizi Cispel Toscana*

Andrea Sbandati is the General Director of CISPTEL Toscana, a Regional Association of local public services enterprises in the sector of public utilities. Since 1990, he has worked in the environmental sector with important institutions. A major part of his research and works is related to public utilities, especially to waste management. Since 1997 to present, he has been a member of Quadrifoglio Consortium where he holds the position of Vice-president. He is also a collaborator for the Regional Agency for Resources Recovery SpA in Florence and for CRS Proacqua in Rome.



Jeroen SCHEER, *Alliander*

Drs Jeroen (J.P.) Scheer MScM DCIA is Chief Technology Officer (CTO) and Leader Digital Transformation at Alliander. His day to day responsibilities include the direction and leadership of all digital innovations, solutions and investments within Alliander. He is worldwide recognized as one of the core leaders and architects managing the transition of the energy sector and the grid to the age of digital. Mr. Scheer has been active in the energy sector for more than sixteen years, in The Netherlands, Belgium, Germany, Poland and Sweden. He also presides several worldwide standardization bodies regarding the energy transition and its digital solutions. Besides, he is a well-sought after keynote speaker at many conferences and Guest Lecturer at several leading Universities. Recently, he led the team and was lead author of the EU EIP Smart Cities & Communities Reference Architecture & Design Principles



Maria Luisa STASI, *Florence School of Regulation, Communications & Media Area (FSR C&M)*

Maria Luisa Stasi joined the European University Institute in May 2013. She coordinates the activities of the FCP - Florence Competition Programme in Law and Economics - and works as research associate at the Florence School of Regulation. Her research interests cover a wide range of European law issues, with particular expertise in competition and regulation in the network industries. From 2008, she worked as an associate lawyer in the EU and competition law department of Bonelli Erede international law firm, based in Milan and Brussels. In 2012, she joined the Academy of European Law (ERA) as a course director, where she organised training, seminars and workshops addressed to public and private enforcers in various fields of EU law. She is the author of several publications on competition and regulation issues.

Maria Luisa holds a LLM in European Legal Studies (College of Europe, Bruges) and a Master's degree in International Relations and Diplomatic Studies (Lumsa University, Rome). She graduated in law (J.D) with honours from the University of Perugia in 2004. She is member of the Italian Bar Association since 2008.

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