

CURRICULUM VITAE

February 2021

- 1. Family name:** Marsal-Llacuna
- 2. First names:** Maria-Lluïsa
- 3. Date and place of birth:** 28 July 1974
Igalada (Barcelona)
- 4. Passport:** Spanish
UK NINO holder

5. Education: (grade earning is shown in chronological order, (oldest-newest))

Institution (date from – date to)	Degree(s) or Diploma(s) obtained:
Polytechnic University of Catalunya (UPC), Barcelona, Spain	Bachelor of Science and Arts (Architecture) February 2001
Polytechnic University of Catalunya (UPC), Barcelona, Spain	Advanced Studies Diploma (Urban Planning) September 2007
Polytechnic University of Catalunya (UPC), Barcelona, Spain	Doctorate (Urban Planning, specialization in social infrastructure) December 2008, including PhD fellowship at TU Berlin (Germany)
University of Girona (UdG), Girona, Spain	Master of Science (Applied Informatics and Systems Computation) September 2012
University of Girona (UdG), Girona, Spain	Doctorate (ICT, specialization in intelligent systems) November 2013, including PhD fellowship at IBM Research (California, USA)

6. Language skills: (language acquisition is shown in chronological order (1 – excellent; 5 – basic))

Language	Reading	Speaking	Writing
Catalan	mother tongue	mother tongue	mother tongue
Spanish	native	native	native
English	1	1	1
French	2	2	2

7. Membership of professional and expert bodies:

International

- GBA, Government Blockchain Association, Barcelona Chapter Lead
- Ehtereum Enterprise Alliance, member
- ITU-UN United for Smart Sustainable Cities (U4SSC) Blockchain4Cities WG, former leader-current member
- ITU member of WISE, Women in Standardisation Expert Group
- UN Habitat III expert on Housing and Member of Habitat III General Assembly of Partners (GAP)
- ITU associate member in standardisation committee ITU-T SG20 on IoT and smart cites
- ISO/TC 268 Sustainable Cities and Communities, national expert in WG2, City Indicators
- ISO/TC 307 Blockchain and DLT technologies, national expert in SG2, Blockchain Use Cases
- IEC/SEG1 Systems Evaluation Group on Smart Cities, expert in WG2 on Urban Planning & Sim.
- CEN-CENELEC Smart & Sustainable Cities & Communities Coord.Group (SSCC-CG), national expert
- EU EIP on Smart Cities and communities, member of Integrated Planning Action Cluster
- Net4Socitey (EU Research Directory for Socio-Economic Sciences and Humanities), member
- STEM Europe-European School Net, member
- Buckminster Fuller Institute, member
- RESER, European Association for Research on Services, member
- Steering Committee of the Cross-Border Catalan Euro District, Board member.

National

- UNE/ISO CTN 178, Sustainable Cities & Comm., national committee, former Chair SC2 GT3-member
- UNE/ISO CTN 71, Blockchain and DLT technologies, national committee, member
- AETU, Spanish Association of Urban Planners, member
- SSMED, Spanish Association of Service Science Management Engineering and Design, member

Regional

- AAUC, Architects and Urban Planners Association of Catalonia, member

8. Other skills (e.g. computer literacy etc.)

- Served as Project Director and Team Leader on a wide range of urban planning and municipal administration projects, project design, management, and implementation skills
- Practical experience with numerous aspects of public administration and good municipal governance
- Human Resources Management and leadership of working groups
- Presenter, lecturer, and public speaker
- Excellent writing, reporting, and editing skills
- Manager of Content Language Integrated Learning (CLIL)
- Sound knowledge of Geographic Information Systems (GIS)
- Advanced knowledge of computers, computerized information management systems, and data mining
- Organizer of events, working with a wide range of counterparts and constituencies

9. Present position (including honorary positions):

- Technological Innovation and International Action Lead at Catalan Institute of Energy. Government of Catalonia. (March 2018-present)
- Lecturer on Blockchain4Cities at different universities (March 2018-present)
- Barcelona Chapter Lead at Government Blockchain Association (December 2018-present)

10. Past positions:

- Senior Researcher on Blockchain4Cities at University Pompeu Fabra (Sept. 2017-March 2018)
- Smart Cities –including standards and blockchain- Senior Consultant at Future Cities Catapult (UK's Ministry of Innovation, Jobs and Skills), in partnership with the British Standards Institution, United Kingdom (Sept. 2015-Sept. 2017)
- Senior Lecturer and Researcher at the University of Girona, Spain (Sept. 2009-Sept. 2015), including: Director, Official Master's Program in Smart Cities, University of Girona (Jan. 2013-Sept. 2015) Director, Girona Smart City Lab, University of Girona (Jan. 2013-Sept. 2015)
- Associate Lecturer and Researcher at the Polytechnic University of Catalunya, Spain (Sept. 2001-Sept. 2009)
- Urban Strategist responsible for the implementation of the new municipal planning at Cervera Municipality, Spain (Oct. 2002-Oct. 2003)

11. Key qualifications:

Expert:

- Blockchain4Cities pioneer: blockchain-based solutions for governments and local administration
- Smart Cities expert: created and launched the first Smart Cities Master Programme in the world
- Significant experience in the formulation and design of Urban Development Policy and Strategies in a number of European Union Member States, with a wide range of governmental and non-governmental parties
- Significant experience in the implementation and evaluation of programs and projects which promote urban development in European Union Member States, including Spain, France and Germany.
- Managed urban development projects in the following Spanish locations, Barcelona, Barcelona Metropolitan Area, Cervera, Organyà, Santa Margarida de Montbui, Alcoi, Terrassa and Logroño.
- Successful work with a wide range of urban development counterparts, including national governments, municipal governments, institutions of higher learning, civil society organizations, business leaders, technology companies, public and private consultancy agencies, professional associations, and think tanks.
- Experience with urban development issues in developing countries, such as Kyrgyzstan and Ukraine, including difficult issues relating to the adaptation of outdated municipal services regimes to modern economic requirements, how to most effectively and efficiently meet the needs of citizens in countries in transition, and how to address migration and migrant worker issues affecting municipalities.
- Reviewer for EU project proposals in the FP7 and in the current H2020 research programs

Teaching:

- Guest Lecturer, Master's in Blockchain Technology, UPC, summer semester 2018-2019
- Guest Lecturer, Master's in City&Technology, IAAC, winter semester 2018-2019
- Guest Lecturer, Department of ICT, UPF, Sept. 2017-March 2018
- Senior Lecturer, Department of Architecture, Urban Planning Area, UdG, Sept. 2011-Sept. 2015
- Visiting Lecturer, Department of Architecture, Urban Planning Area, UdG, Sept. 2009-Sept. 2011
- Assistant Lecturer, Department of Urban and Regional Planning, UPC, Sept. 2004-Sept. 2009
- Associate Lecturer, Department of Urban and Regional Planning, UPC, Sept. 2001-Sept. 2004

Researcher:

- Blockchain4Cities researcher at University Pompeu Fabra, member of the Network Technologies and Strategies research group, NeTS
- Senior Researcher, Department of Architecture, Urban Planning Area, UdG, member of the Research Group on Control Engineering and Intelligent Systems (eXIT) Sept. 2011-Sept. 2015. Main research projects: EU project proposal preparation for ARTEMIS, ITEA and 7FP calls, joint research with HafenCity University Hamburg on Urban Systems Computation
- Post-Doctoral research sabbatical at IBM Almaden Research Center (San José, California, US), Nov. 2010-March 2011, July 2011.
- Senior Researcher, Department of Architecture, Urban Planning Area, UdG, main researcher and founder of the Research Group on Service Science (ReGSS), Sept. 2009-Sept. 2011. Management of key research projects, including contacts with representatives of the business community, high-technology companies, and the Ministry of Governance, in the field of Service Science and public facilities, SEPURE project (EU 7FP proposal preparation).

- Post-Doctoral Researcher, Department of Urban and Regional Planning, UPC, Sept. 2008-Sept. 2009. Main research projects: ERIPFASE project (EU 7FP proposal preparation), Planning Housing in Catalunya (Spanish Research National Plan)
- Pre-Doctoral research sabbatical at Technische Universität Berlin, TU (Institut Fur Stadt Und Regional Planung), Feb. 2007-June 2007
- Junior Researcher, Department of Urban and Regional Planning, UPC, Sept. 2004-Sept. 2009
- Pre-Doctoral Researcher, Department of Urban and Regional Planning, UPC, Sept. 2001-Sept. 2004
- Undergraduate Researcher, Department of Urban and Regional Planning, UPC, Sept. 1996-Sept. 2001

12. Projects per topic and nature

Country, City/Area	Dates	Name of Organization, Position, Project name [contact person for ref]	Job duties in the related projects
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URBAN INFRASTRUCTURE:

Buildings (for education, healthcare, administrative and industrial use) and services infrastructure (transport, water, etc)

Catalunya	March 2018-current	Catalan Energy Agency. Government of Catalonia. ioCAT project leader. The ioCAT project is a blockchain-based project that uses a PoA on Ethereum with city council nodes as validators for citizens to transact energy	Ideation, design, project management, stakeholder engagement, city council assistance and technical support. Coordination and leadership of developer teams involved in the project.
International	Sept. 2016 Sept. 2017	United Nations. United 4 Smart and Sustainable Cities (UN alliance of 12 agencies, led by ITU). <u>WG1 Chair</u> of Phase 1 of the programme: Implementing Sustainable Development Goal 11 by connecting sustainability policies with urban planning practices through ICTs. [cristina.bueti@itu.int]	Responsibilities for WG1 included the organisation of work with international participants, from different sectors and industries. Participants were requested to submit contributions and use cases. Elaboration of the final deliverable for the UN, accessible from: https://goo.gl/fLz68w
UK	Dec. 2015 April 2016	Ministry of Business Innovation and Skills. Innovate UK. <u>Smart Cities expert</u> for Future Cities Catapult on blockchain applications for cities [catherine.mulligan@futurecities.catapult.org.uk]	Design blockchain based smart cities use cases that would benefit from increased security to guarantee a level of operational resiliency not previously possible.
Spain	Feb. 2011 Oct 2013	Ministry of Science, Spanish Gov. Research National Plan (2008-2013): Subprogram of fundamental non-oriented research, UdG <u>Team Leader</u> Planning Housing in Catalunya (Project ID:CSO2010-21521-C03-01) [Josep M Vilanova: jmvicla@arquired.es]	Legal research, drafting/providing legal opinions, concerning compliance with urban planning requirements. Elaboration of housing policies for Catalonia through categorization of baselines and common challenges. Elaboration of an implementation plan and monitoring strategies.
Catalunya	Mar. 2010 Dec. 2010	Ministry of Governance and Public Administration, Generalitat de Catalunya, <u>Project Director</u> , Facilities and Services Integrated Planning and Programming (ProjectID:025/10)[Pep Mur: pep.mur@gencat.cat]	Use of public participation mechanisms and surveys to collect data on the use of facilities and services and elaboration of models for integrated planning and programming of public facilities and services.
Catalunya	Apr. 2006 Sep. 2009	Ministry of Housing, Generalitat de Catalunya, <u>Expert</u> , Catalonia's Territorial Master Plan on Housing (Project ID: non-competitive/ internal) [Ricard Pie: ricard.pie@upc.edu]	Legal research, and drafting/providing legal opinions, concerning compliance with urban planning requirements. Supported elaboration of the Master Plan.
Catalunya (Barcelona Metropolitan Area)	Sept. 2001 Sept. 2002	Barcelona Metropolitan Area Council, <u>Assistant</u> , <i>Analysis and Quantitative Assessment of recent urban changes in the Barcelona Metropolitan Region</i> [Amador Ferrer: aferrer@bcn.net]	Development of econometric models to assess metropolitan capacity and zoning requirements for underutilized/vacant buildings and undeveloped land
Catalunya (Barcelona Metropolitan Area)	Sept. 2001 Sept. 2002	Barcelona Metropolitan Area Council, <u>Assistant</u> , <i>Assessment of recent changes in Barcelona's Metropolitan Area</i> [Amador Ferrer: aferrer@bcn.net]	
Catalunya (Barcelona Metropolitan Area)	Sept. 1997 Feb. 1998	Barcelona Metropolitan Area Council, <u>Assistant</u> , <i>Metropolitan Spatial Structure: Genesis, Shapes and Evolution</i> [Antonio Font: Antonio.font@upc.edu]	Formulation of standard and customized infrastructure solutions for preserving the unique character of different constituent cities of the Barcelona Metropolitan Area
Catalunya (Barcelona)	Jun 1998 Sept. 999	Barcelona Municipality, <u>Assistant</u> , EU Project: <i>POSIDONIA (Urban Strategies for Mediterranean Cities)</i>	

		[Juli Esteban: jesteban@bcn.net]	
Catalunya (Barcelona)	May 1998. Nov. 1998	Catalan Federation of Municipalities, <u>Assistant</u> , <i>20 Years of Municipal Planning in Catalunya (retrospective)</i> [Joaquim Sabaté: joaquim.sabate@upc.edu]	Evaluation of the implementation of municipal master plans in Catalonia, covering the realization of public works during the first twenty years of Spanish democracy.
Switzerland (Lausanne)	Feb. 1997 July 1997	Jaume Riba Architects, <u>Assistant</u> , <i>EUROPAN Competition. Residential Project in Lausanne</i> [Jaume Riba: jaumeriba@coac.net]	Analysis and diagnosis of residential requirements in Lausanne, and residential project design

TELECOMMUNICATIONS AND INFORMATION TECHNOLOGY:

Information Technology and its applications: Platforms: software, networks: packages, Expert information systems (EIS)/Management information systems (MIS), Decision Support Systems, Information System as a tool for knowledge management, Information systems for Public management

Catalunya (Barcelona)	Feb 2019 March 2019	Mobile World Capital. <u>Panelist</u> Working Group on Public Innovation: Where Government meets emerging tech. [oblanchard@mobileworldcapital.com]	Participation in the preparation of a position paper and article on challenges and opportunities for blockchain technology and artificial intelligence in the public sector.
Ireland	Jan. 2019	Government of Ireland. <u>Advisory Judge</u> . BlockAthon Ireland (Blockchain Hackathon for Public Service) https://blockathonireland.splashthat.com/	Participation in the design of judging criteria, selection of government use cases and served as a judge during the Hackathon, which took place in Dublin from Jan 25 th to 27 th 2019. https://www.youtube.com/watch?v=MRTzLKNPq14
International	Sept. 2017 Sept. 2018	United Nations. United 4 Smart and Sustainable Cities (UN alliance of 12 agencies, led by ITU). <u>WG1 Chair</u> of Phase 2 of the programme: Blockchain4Cities. [cristina.bueti@itu.int]	Building on Phase 1 good work, on this second Phase explorations on how to implement SDG11 using blockchain technology are being conducted, focusing on providing governments with a toolkit for city governance based on blockchain and distributed systems
UK	March 2017 Aug. 2017	Ministry of Business Innovation and Skills. Innovate UK. <u>Expert</u> Consultancy on the future of BIM (Building Information Modelling), including blockchain [Teresa G: tgonzalez@futurecities.catapult.org.uk]	Recommendations on the next generation design of BIM standards and interoperability with smart city and IoT (Internet of Things) standards, including UIS and GIS in combination with blockchain strategies
UK	Sept 2015 Sept 2016	Ministry of Business Innovation and Skills. Innovate UK. <u>Expert</u> for Future Cities Catapult. <i>Internet of Things UK Competition (IoTUK)</i> -including standards and blockchain-[Matt Fox: mfox@futurecities.catapult.org.uk]	Design of standards evaluation package: <i>Standards in Use Framework</i> for the assessment of conformance of IoTUK projects against BSI standards PAS181 on Smart City concept and PAS 182 on Data Models.
EU	June 2013 Sept 2015	European Union. FP7, Artemis 2012 call. <u>UdG team leader</u> . <i>Project Adaptive Cooperative Control in Urban Systems (ACCUS)</i> (Project ID: R071/13) [Quim Meléndez: joaquim.melendez@udg.edu]	IP for University of Girona in WP2 Requirements and Specifications, WP4 System Architecture, services and network process, WP7 Dissemination and Exploitation
US	Nov. 2010 Nov. 2011	IBM Almaden Research Center and UdG, <u>Project Director</u> , Joint Research Agreement on Smarter Urban Planning (Project ID: A1056615)[Guang-Jie Ren: gren@ibm.us]	Design and configuration of new multipurpose urban spatial layouts (mainly focusing in public infrastructure). Design of software requirements for monitoring the performance of infrastructures.
US-Spain	Nov. 2010 Nov. 2011	IBM Spain and UdG, <u>Project Director</u> , Research contract in the field of Service Science (Project ID: R73/10) [Ying-Tat Leung: ytl@ibm.us]	Formulation of service-pairing Algorithms for optimal location of services and optimization of facilities and buildings, to improve the efficiency of time utilization by citizens

GOVERNANCE AND HOME AFFAIRS:

Promotion and protection of human rights: In the context of the human rights approach to poverty reduction, inclusive focus on people's participation and empowerment, linkages to national and international human rights norms and standards, equality and non-discrimination, monitoring and accountability.

Catalunya	Sept. 2017 Sept. 2018	University Pompeu Fabra. Department of Information and Communication Technologies, in partnership with AOC. <i>Blockchain4Cities in Catalunya</i> . <u>Project lead</u> . [Miquel Estapé: mestape@aoc.cat]	A consortia of 8 municipalities, including: Barcelona, l'Hospitalet, Esplugues, Sant Sadurn d'Anoia, Valls, Igualada and Cunit has been formed to collaboratively develop use cases on the use of blockchain for Catalan local administration.
UK	Sept. 2015 March 2016	Cities Standards Institute, <u>Lead</u> for Future Cities Catapult, in partnership with the British Standards Institution. [Dan Palmer: dan.palmer@bsigroup.com]	Development of the national Smart Cities standards portfolio for the UK, in partnership with BSI. Four national standards were developed under my leadership and have been all followed the international route and taken as ISO standards

UK	Sept. 2015 Sept. 2016	Cities Standards Institute, Future Cities Catapult and British Standards Institution. <u>Project Director</u> , <i>Standards in Use Framework</i> . Implementation in UK cities [Nick Vat: Nick.Vat@slough.gov.uk]	Implementation of the <i>Standards in Use Framework</i> , for PAS 181 Conceptual Framework for Smart Cities (policies and governance standard), and PAS 182 Data Models (information services standard) to assess city's conformance
Spain-International	Nov. 2014 Nov. 2015	AENOR <u>Project Director</u> , <i>Standardization project on the safeguarding Urban Human Rights in the Smart City</i> (Project ID: non-competitive/ internal) [Tania Marcos:TMARCOS@aenor.es]	Formulation of standards, in collaboration with NGOs (Charity, Red Cross, etc.) for safeguarding of the right to the city of citizens. This project is initiated in Spain and will be extended to CEN (Europe) and ISO (International)
EU	Nov. 2008 Jan. 2009	Ministry of Science, Spanish Government. Research National Plan (2008-2011): Complimentary Actions for fundamental non-oriented research, <u>Main proposer</u> , funding of EU project proposal preparation: <i>European Reference Indicators for Public Facilities and Services (ERIPFASE)</i> presented at 7 th . FP SSH (Project ID: TIN2009-06170-E) [Antonio Font: Antonio.font@upc.edu]	Revision of traditional urban planning methodologies, focusing on updating urban planning standards for social infrastructure to meet citizens' needs. Systematization and automated classification of social infrastructure by nature of service. Elaboration of baselines and benchmarks for the self-monitoring and control of pre-classified facilities. Recommendations on how to improve the performance of service.

Decentralisation and local development: Decentralisation (subsidiarity, legislation, accountability), support to local authorities (local and regional levels, including municipalities). Community based development (empowerment and participatory approaches, gender issues, micro-projects) and local development strategies (social, economic, multi-sector)

France, Oriental Pyrenees	Feb. 2013 April 2013	European Union. POCTEFA 2007-2012 call. <u>UdG's team leader</u> . Project for the creation of the Catalan Transborder Eurodistrict (EuroCat) (Project ID: R017/13) [Joaquim Tarrés:joaquim.tarres@gencat.cat]	IP for University of Girona. Construction of a strategic data base to show the benefits of EuroCat. Analysis, development of metrics and monitoring actions and projects undertaken in the frame of EuroCat
France, Oriental Pyrenees	Jan. 2013 Sept. 2013	Agence d'Urbanisme Catalane (AURCA). <u>Expert</u> . Observatory of facilities and services in the Oriental Pyrenees (Project ID: non-competitive/ internal) [Gilles Planas: gilles.planas@aurca.org]	Construction of a data base, mapping, classification and visualization of facilities and services. Surveillance, recommendations for services compaction and facilities optimization. Implementation plan and monitoring strategies.
Catalunya (Figueres)	Nov.2009 June 2010	Figueres Municipality, <u>Expert</u> , Master Plan's strategic diagnosis and analysis of urban potentials (Project ID: 096/09) [Xavier Ludevid: xludevid@figueres.org]	Development and refinement of econometric models for assessing urban capacity and costs of utilization. Recommendations on policies for strategic urban development.
Catalunya (Catalan Pyrenees)	Jan. 2003 Jul. 2003	Organyà Municipality, <u>Project Director</u> Municipal Strategic Master Plan (Project ID: C4941) [Joan Vilanova: jvilanova@ajorganya.org]	Economic analysis concerning feasibility and profitability of various municipal planning designs and proposals, using econometric models and business forecasting systems
Catalunya (Cervera)	Apr. 2004 Nov. 2005	Cervera Municipality, <u>Project Director</u> , Municipal Master Plan (Project ID: C5518) [Joan Roca: jroca@ajcervera.org]	
Catalunya (Cervera)	Oct. 2002- Oct. 2003	Cervera Municipality, <u>Expert</u> , Durable and Sustainable Development in Cervera through Strategic Projects (Project ID: non-competitive/ internal)[Salvador Bordes: sbordes@ajcervera.org]	
Catalunya (Cervera)	Feb. 2002 Sep. 2002	Cervera Municipality, <u>Project Director</u> , Municipal Strategic Master Plan (Project ID: C4672) [Joan Roca: jroca@ajcervera.org]	
Catalunya (Sta.Mgda. Montbui)	Jan. 2002 Sept. 2002	Sta.Margarida de Montbui Municipality, <u>Project Director</u> , Municipal Strategic Master Plan (Project ID: C4659) [Teo Romero: teoromero@montbui.net]	
Spain (Logroño)	May 2001 July 2001	Logroño Municipality, <u>Expert</u> , Development and Urbanization Plan in Santa Juliana area, Logroño city (Project ID: non-competitive/ intern.)[Javier Monclús: Javier.monclus@upc.edu]	
Spain (Alcoi)	June 1999 Apr. 2001	Alcoi Municipality, <u>Assistant</u> , Alcoi's Master Plan, Second Phase [Antonio Font: Antonio.font@upc.edu]	
Catalunya (Terrassa)	Mar. 1999 May- 1999	Terrassa Municipality, <u>Assistant</u> , Terrassa's Master Plan [Manuel de Sola-Morales: now retired]	

Catalunya (Terrassa)	Mar. 1998 June 1998	Alcoi Municipality, <u>Assistant</u> , Alcoi's Master Plan. First Phase [Antonio Font: Antonio.font@upc.edu]	
Catalunya	Sep. 2005 Sep. 2009	Association of Catalan Architects, <u>Team Leader</u> , State-of-the-Art Urban Planning in Catalonia (Project ID: non-competitive/ internal) [JM. Vilanova: jm.vilanova@arquied.es]	Evaluation and classification of municipal master plans and their level of implementation in Catalan cities. Recommendations to cities for future revisions of their master plans.

Enhancement of the role of civil society: Covering different organizational forms (NGOs, Community Based Organisations, media, trade unions, diverse roles (service delivery and advocacy), and fundamentals such as the legal framework. Capacity building (development of strategies, management and human resources development), including design and delivery of training/mentoring/tutoring and other forms of support at strategic and functional levels, advocacy, internal governance, decision-making processes, accountability and transparency, and fund raising. Networking at local, national, regional, and international levels, coalition building, and dialogue with government institutions)

Ukraine (Kiev)	Feb. 2015- Feb. 2016	International Cooperation project. Administration of the City of Kiev and Kiev's Professional Bar Association. <u>Project Director</u> . <i>Measuring the safeguarding of human rights in the city of Kiev.</i> (Project ID: non-competitive/ internal) [Artem Shaipov: ashaipov@fair.org.ua]	Expert assistance in the implementation of the set of indicators developed by Dr. Marsal to measure the safeguarding of human rights in the city. Organization of a "call for stakeholders" to raise awareness in the provision of data and design of a "public participation" campaign to collect citizens' opinion in the results obtained.
EU	Sept. 2011- Sept. 2015	European Union FP7 ICT Work Programme. <u>Girona Pilot, Team Leader</u> (within UAB group) <i>Future Policy Modelling Project (FUPOL)</i> (Project ID: 287119) [Ignasi Ingerto: iingerto@aslogic.es]	Large Scale research project with 17 partners from Austria, Croatia, China, Cyprus, France, Macedonia, Germany, Kenya, Latvia, Romania and Spain to develop an e-services toolkit to support the involvement of all city stakeholders in the policy cycle
Kyrgyz Republic (Bishkek)	May 2013	European Union. International Cooperation. <u>Expert</u> . Training Facility for Government Institutions and Civil Society in the Kyrgyz Republic (Project ID: 2012/296828- V1) [Mark Segal: marksegal111@yahoo.com]	Responsible for implementing an initiative covering strategic urban planning, smart cities, and urban technology, including the delivery of major training events and the provision of technical assistance for strategic urban development.
Spain	Apr. 2011 Apr. 2013	IBM Spain and Ministry of Governance and UdG, <u>Project Director</u> , Joint Research Agreement on Public Facilities and Services (Project ID: R11/11) [Pep Mur: pep.mur@gencat.cat]	Work with diverse institutions to facilitate public outreach and inform citizens regarding various aspects of municipal governance and urban planning. Public participation consultations on the use of facilities and services.

CULTURE, EDUCATION, EMPLOYEMENT, AND SOCIAL AFFAIRS

Education (formal and non-formal): Higher education (Degree and diploma programmes at universities, colleges and polytechnics; scholarships and inter-university cooperation programmes).

Vocational Education and Training -: VET sub-sector analysis, reform, management, vocational reform (including analysis and measures to strengthen the links between VET and the labour market and to promote involvement of the private sector)

Use of Information and Knowledge Economy: Use of Information and Knowledge Economy

Ukraine (Voznesensk)	Dec.2017 March 2018	United Nations Economic Commission for Europe (UNECE). Smart Sustainable City Profile for Voznesensk. <u>Expert</u> for Social and Cultural Indicators [domenica.carriero@un.org]	Elaboration of Voznesensk's city profile in the area of socio-cultural indicators, focusing on providing smart city strategies to improved city performance in those areas
Kraków (Poland)	Apr.2015 Sept. 2015	Jagellonian University Kraków and UdG, <u>Project co-director</u> Bilateral Research and teaching agreement on Smart Cities (Project ID: LLP Erasmus_E Giro02) [Jacek Ostaszewski: erasmus@adm.uj.edu.pl]	Development of a common curriculum on smart cities for the exchange of students and professors at Master's level. Development of novel, cross-disciplinary, IT based and remote teaching methodologies.
Belgium (Schiedam)	Jan.2015 Sept 2015	University of Girona and the City of Schiedam. <u>Project Director</u> <i>Sister Cities for the Official Master's Program in Smart Cities at UdG</i> (Project ID: non-competitive/ internal) [Leonie Hulshof: let.hulshof@schiedam.nl]	"Agenda of Innovations for the City". Master's Thesis projects. Supervision of development and implementation of municipal projects by the twenty students in the Master's Program in collaboration with the city. The projects focus on executive solutions, in the areas of intelligent mobility, public participation, smart urban planning, energy efficiency and smart governance, for implementation by the city.
Catalunya (Sabadell)	Sept.2014 Jan. 2015	University of Girona and the City of Sabadell. <u>Project Director</u> <i>Sister cities for the Official Master's Program in Smart Cities at UdG</i> (Project ID: non-competitive/ internal) [Oriol Llevot: OLllevot@ajsabadell.cat]	
Catalunya	Sept.2013 Sept.2014	University of Girona and the City of Girona. <u>Project Director</u> <i>Sister Cities for the Official Master's Program in Smart Cities at UdG</i>	

(Girona)		(Project ID: non-competitive/ internal) [Jordi Valls: jordi.valls@ajgirona.cat]	
International	Sept. 2012 Sept. 2013	University of Girona and several IT companies and institutions. <u>Project Director</u> <i>Design of Practicums for the Master's Program in Smart Cities</i> (Project ID: non-competitive/ internal)	Sponsorship raising and design of a 3 month paid practicum program for students in sponsoring companies/institutions, including: IBM, Cisco, Abertis, Indra, SeCe, Ajuntament de Figueres, Diputació de Girona and Ajuntament de Girona
Germany (Hamburg)	Nov. 2011 Nov. 2013	HafenCity University Hamburg and UdG, <u>Project co-director</u> <i>Bilateral Research and teaching agreement on Intelligent Urban Systems</i> (Project ID: LLP Erasmus_E Giro03) [Alenka Poplin: alenka.poplin@hcu-hamburg.de]	Development of a common curriculum for teaching about intelligent urban systems. Development of novel, cross-disciplinary, IT based and remote teaching methodologies for undergraduate and master levels.
Germany (Berlin)	Nov. 2008 Nov. 2012	Technische Universität Berlin. Institut für Stadt-und-Regionalplanung and UPC, <u>Project co-director</u> , <i>Bilateral Research and teaching Agreement on Urban Planning Legal Studies and comparative urbanism</i> (Project ID: LLP Erasmus_E Barcelo03) [Gerd Schmidt-Eichstaedt: now retired]	Development of a common curriculum for teaching comparative legal systems and legislation with respect to urban planning, and how the legal framework is realized through master plans and municipal governance.
Catalunya (Girona)	Nov. 2010 Nov. 2011	UdG. Research Vice-Rectorate, <u>Project Director</u> , "Special Actions Research Funding" (Project ID: BRAE-VR-ReGSS) [Josep Calbó: josep.calbo@udg.edu]	Development of new research curricula for efficiency in the elaboration of PhD Theses. Elaboration of methodologies to better guide students in the elaboration of PhD Theses.
France-Catalunya	July 2010 Oct. 2010	Generalitat de Catalunya in Perpinyà, Office of the Vice President, <u>Project Director</u> , Forum of urban planning experiences and good practices in the Catalan Eurodistrict trans-border area (Project ID: VCP/147/2010, 32/0112/2010) [Jordi Fernández-Cuadrench: jfcuadrench@gencat.cat]	Inventories of successful urban planning and territorial experiences. Elaboration of requirements for the identification of good practices. Public presentations in France and Spain. Training to civil servants for the implementation of good practices: recommendations on escalation and replicability adjustments
US	Oct. 2010 Oct. 2012	IBM Spain and UdG, <u>Project Director</u> , Joint Research Agreement on Service Science (Project ID: R54/10) [Jim Spohrer: jim.spohrer@ibm.us]	Design of technical specifications and ToR for better integration of public services into public facilities, in order to make services economically, socially and environmentally more efficient.

TRADE AND PRIVATE SECTOR

Private sector: Investment promotion (domestic and foreign). Supporting professional/commercial/advisory bodies (professional associations, decentralised advisory agencies, local consultancy strengthening, Chambers of commerce, European Information Correspondence Centres (EICC), Business Centres

Catalunya	Sept. 2017 Sept.2018	University Pompeu Fabra. Department of Information and Communication Technologies, in partnership with EIPM. <i>Blockchain for real estate and built assets</i> [pcoll@eipm.es]	Design of a blockchain-based solution to bring land registries to the next level and allow the user to document their own assets and update any changes directly on the blockchain, without needing third party intermediaries such as notary or registers
Spain	Dec.2009 June.2010	Decathlon Spain, <u>Expert Strategic advice to select the location for a new commercial complex</u> (Project ID: 010/10) [Luis Baron: luisbaron@decathlon.es]	Design and deployment of innovative methodologies for selecting strategic locations according to client requirements, planning constraints and legal compliance.
France-Catalunya	July 2007 Oct. 2010	Generalitat de Catalunya in Perpinyà, Office of the Vice President, <u>Project Director</u> , Atlas of Activity and Economic Actors in the Catalan Eurodistrict trans-border area (Project ID: VCP/147/2010,37/0112/2010) [Jordi Fernández-Cuadrench: jfcuadrench@gencat.cat]	Identification of economic hubs, typification by nature. Elaboration of strategies based on the specialization of hubs. Work with economic actors, urban planners, and real estate developers to configure strategic and feasible proposals which develop local economies, through sustainable and equitable growth.

HUMANITARIAN AID, CRISIS MANAGEMENT AND POST-CRISIS ASSISTANCE: Civil protection:

EU	May 2010 Aug. 2010	Ministry of Universities and Research, Generalitat de Catalunya, <u>Main proposer</u> , Funding of EU project proposal preparation: <i>Integrated Indicators for Public Facilities and Services to Rebalance the Social Public Realm in Europe (SEPURE)</i> presented at 7 th . FP SSH (Project ID: 2009LID2-C-13) [Nadia Fava: nadia.fava@udg.edu]	Analysis of municipal planning requirements and how to optimally meet the needs of citizens in accordance with applicable legislation. Elaboration of a system of indicators to measure the performance of public infrastructure and the identification of faults and weaknesses. Recommendations on how to recover faults and weaknesses, increase resilience of public services infrastructure in periods of economic crisis
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13. Courses and Training

Author of signature course on blockchain for cities, with the following first editions in different schools and universities:

2018 June-July, Blockchain4SmartCities, at UPF Summer School:

<https://www.summerschoolsineurope.eu/course/10627/blockchain-for-smart-cities>

2018 December-March 2019, Blockchain4SmartCities, at Association of Civil Engineers of Catalonia:

<http://www.camins.cat/wp-content/uploads/2018/10/Programa-curs-blockchain-redu%C3%Aft.pdf>

2019 January- February, Blockchain4SmartCities, IAAC's Master's programme in City and Technology:

<http://www.iaacblog.com/programs/blockchain4cities/>

14. Publications:

Scientific publications in Indexed Journals:

Marsal-Llacuna, ML. (2021) [Cryptourbanomics: A Method to Boost Urban Sustainability with Blockchain Technology](#). *Sustainability* 13 (5), 2438

DOI: <https://doi.org/10.3390/su13052438>

Marsal-Llacuna, ML. (2020) [The People's Smart City Dashboard \(PSCD\): delivering on bottom-up governance with blockchain](#). *Technological Forecasting and Social Change* 158, September 2020, 120150, Special Issue on Blockchain Technology and Management

DOI: <https://doi.org/10.1016/j.techfore.2020.120150>

Marsal-Llacuna, ML. (2018) [Future Living Framework: Is Blockchain the next enabling network?](#) *Technological Forecasting and Social Change* 128, 226-234

DOI: <https://doi.org/10.1016/j.techfore.2017.12.005>

Marsal-Llacuna, ML. (2018) [The Standards Revolution: Who will first put this new kid on the Blockchain?](#). *Proceedings ITU-Kaleidoscope2017 IEEE Xplorer*.

DOI: [10.23919/ITU-WT.2017.8246988](https://doi.org/10.23919/ITU-WT.2017.8246988)

Marsal-Llacuna, ML. (2018) [How to succeed in implementing \(smart\) sustainable urban agendas: "keep cities smart, make communities smarter"](#). *Environment, Development and Sustainability* 20, 1-22

DOI: <https://doi.org/10.1007/s10668-018-0115-1>

Marsal-Llacuna, ML. (2018) [The Standards Evolution: A pioneering Meta-Standard Framework Architecture as a novel self-conformity assessment and learning tool](#). *Computer, Standards and Interfaces* 55, 106-115

DOI: <https://doi.org/10.1016/j.csi.2017.06.002>

Marsal-Llacuna, ML. (2017) [Building Universal Socio-Cultural Indicators for standardizing the Safeguarding of Citizens' Rights in Smart Cities](#). *Social Indicators Research* 130, 563-579

DOI: <https://doi.org/10.1007/s11205-015-1192-2>

Marsal-Llacuna, ML., Wood-Hill, M. (2016) [The Intelligent method \(III\) for "smarter" standards development and standardisation instruments](#). *Computer, Standards and Interfaces*, 50, 142-152

DOI: <https://doi.org/10.1016/j.csi.2016.09.010>

Marsal-Llacuna, ML. (2016) [City Indicators on Social Sustainability as Standardization Technologies for Smarter \(citizen-centered\) Governance of Cities](#). *Social Indicators Research* 128 (3), 1193-1216

DOI: <https://doi.org/10.1007/s11205-015-1075-6>

Marsal-Llacuna, ML., Segal ME. (2016) [The Intelligent Method \(II\) for "smarter" urban policy-making and regulation drafting](#). *Cities* 61, 83-95

DOI: <https://doi.org/10.1016/j.cities.2016.05.006>

Rusek, R., Marsal-Llacuna, ML., et al. (2016) [Compatibility of municipal services based on service similarity](#). *Cities* 59, 40-47

DOI: <https://doi.org/10.1016/j.cities.2016.05.024>

- Marsal-Llacuna, ML., Segal ME. (2016) [The Intelligent Method \(I\) for making “smarter” city projects and plans](#), *Cities* 55, 127–138
DOI: <https://doi.org/10.1016/j.cities.2016.02.006>
- Marsal-Llacuna, ML., Fabregat-Gesa, R. (2016) [Modelling Citizens’ Urban Time-Use using an Adaptive Hypermedia Pervasive Survey to Obtain an Urban Planning, Citizen-centric, Methodological Reinvention](#), *Time and Society* 25(2), 272-294
DOI: <https://doi.org/10.1177/0961463X15577259>
- Marsal-Llacuna, ML. (2015) [Measuring the standardized definition of “smart city”: a proposal on global metrics to set the terms of reference for urban “smartness”](#). *Lecture Notes in Computer Science* 9156, 593–611 (ICSSA 2015 PartII-CTP, Canada)
DOI: https://doi.org/10.1007/978-3-319-21407-8_42
- Marsal-Llacuna, ML. (2015) [Conceptualizing, modeling and simulation sustainability as tools to implement urban smartness](#). *Lecture Notes in Computer Science* 9157, 447–494 (ICSSA 2015 Part III-GEO-AND-MOD, Canada)
DOI: https://doi.org/10.1007/978-3-319-21470-2_35
- Marsal-Llacuna, ML., López-Ibáñez, B. (2014) [Smart Urban Planning: Designing Urban Land Use from Urban Time Use](#), *Journal of Urban Technology* 21(1), 39-54
DOI: <https://doi.org/10.1080/10630732.2014.884385>
- Marsal-Llacuna, ML., Colomer-Llinàs, J., Melendez-Frigola, J. (2014), [Lessons in Urban Monitoring taken from Sustainable and Liveable Cities to better address the Smart Cities Initiative: the Need for Intelligent Indexes](#), *Technological Forecasting and Social Change* 90, 611-622
DOI: <https://doi.org/10.1016/j.techfore.2014.01.012>
- Marsal-Llacuna, ML., De la Rosa Esteve, JL (2013), [The Representation for AI Modell: an Agent-Based Collaborative Model for more Meaningful Citizen Participation in Urban Planning](#), *Lecture Notes in Computer Science* 7973, 324-339 (ICSSA 2013 PartIII-GEO-AN-MOD, Vietnam)
DOI: https://doi.org/10.1007/978-3-642-39646-5_24
- Marsal-Llacuna, ML., Boada-Oliveras, I. (2013), [3D-VUPID. 3D-Visual Urban Planning Integrated Data](#), *Lecture Notes in Computer Science* 7974, 17-32 (ICSSA 2013 PartII-CTP, Vietnam)
DOI: https://doi.org/10.1007/978-3-642-39649-6_2
- Marsal-Llacuna, ML., Vilanova Claret, JM (2012) [Hegemonia y Declive de un Ciclo Desarrollista ya Destronado. Urbanismo y Construcción en España \(1997-2007\)](#) *Biblio 3w-Geocritica* Vol.XVIII,1015
- Marsal-Llacuna, ML., Leung, YT., Ren, GJ (2011) [Smarter Urban Planning: Matching Land Use with Citizens Needs and Financial Constraints](#), *Lecture Notes in Computer Science* 6783, 2-30. (ICSSA 2011, Part I-CTP, Spain)
DOI: https://doi.org/10.1007/978-3-642-21887-3_8

Non-indexed scientific publications (books, book chapters and journals):

- Marsal-Llacuna, ML. (2017) The Theory of Human Motivation (today), a System-of-System (technological) Perspective: The Intelligent Actionable Future Living, in *Creating, Analyzing and sustaining Smarter Cities. A systems Perspective*. Lawson, H. and Abbott-Donnelly, I., Eds. Kings College Publications. London (UK).
- Marsal-Llacuna, ML., Segal, ME. (2012) *Legally-based Land Surrenders and Regional Subsidization: the Effects of Unlimited Economic Solidarity on the Public Realm in Spanish Autonomous Regions*. LAP-Lambert Academic Publishing. Saarbrücken (Germany). ISBN: 978-3-659-22005-0
- Marsal-Llacuna, ML (2011) *Planning & Programming Facilities & Services with Service Science Management Engineering (SSME)*, in Health Studies: Economic, Management and Policy. ATINER. Angus, D., Boutsoli, Z., eds. Athens (Greece). ISBN: 978-960-9549-25-7
- Marsal-Llacuna, ML (2010) *La Cosa Publica i l'Urbanisme. O Perque tenim els Equipaments que tenim*. Pages Editors. Lleida-Barcelona (Spain). ISBN: 978-84-9779-963-8

- Vilanova-Claret, JM., Pie-Ninot, R., Marsal-Llacuna, ML. et al. (2010) *Pla Territorial Sectorial d'Habitatge de Catalunya*. Departament de Medi Ambient i Habitatge. Generalitat de Catalunya. Barcelona (Spain). ISBN: B-42.872-2010
- Marsal-Llacuna, ML (2010) *European Reference Indicators for Public Facilities and Services: Approach to an Integrated Production in Reference Values for the Basic Social Services Infrastructure*, in *The Resilience of the Global Economy*. Journal of the European Association for Research on Services (RESER), Gothenburg (Germany). ISBN: 978-960-6672-79-8
- Marsal-Llacuna, ML (2010), *El Potencial Public de les Comunitats Autonomes*, INGURUAK Revista Vasca de Sociologia y Ciencia Politica. Monografico especial: Sociedad e Innovacion en el Siglo XXI. Asociacion Vasca de Sociologia y Ciencia Politica-Universidad del Pais Vasco (UPV). Bilbao (Spain). ISSN: 0214-7912
- Marsal-Llacuna, ML., Fava, N. (2010) *European Reference Indicators for Public Facilities and Services. Approach to an Integrated Production in Reference Values for the Basic Social Services Infrastructure*. Proceedings of the 15th. International Conference on Urban Planning, Regional Development and Information Society. Competence Center of Urban and Regional Planning (CORP) & (CEIT Alanova). Vienna (Austria). ISBN: 978-3-9502139-8-0
- Fava, N., Marsal-Llacuna, ML (2010) *Learning from Barcelona: Towards Urban Sustainability*. Proceedings of the 15th. International Conference on Urban Planning, Regional Development and Information Society. Competence Center of Urban and Regional Planning (CORP) & (CEIT Alanova). Vienna (Austria). ISBN: 978-3-9502139-8-0
- Marsal-Llacuna, ML (2009) *"European Welfare Society": per un Indicizzazione di Servizi e Attezzature di Base*. Urbanistica. Rivista dell'Istituto Nazionale di Urbanistica. Venezia (Italy). ISSN: 0042-1022
- Font-Arellano, A., Castiñeira-Palou, I., Marsal-Llacuna, ML., et al. (2009) *El Proyecto de Nuevos Patronos Residenciales*. Edicions UPC. Escola d'Arquitectura del Valles. Barcelona (Spain). ISBN: 987-84-7653-417-5
- Marsal-Llacuna, ML (2008), *Infraestructures Socials a Catalunya. Eficiencia en les Cessions amb Desti a Equipament Public com a resposta al Deficit Democratic*, Actes del III Congrés d'Enginyeria i Cultura Catalana: Tecnologia, Territori i Societat, Associació d'Enginyeria i Cultura Catalana. Palma Mallorca (Spain), ISBN: 978-84-612-7601-1
- Font-Arellano, A., Marsal-Llacuna, ML. et al. (2005) *Transformacions Urbanitzadores 1977-2000. Area Metropolitana i Regio Urbana de Barcelona*. Mancomunitat de Municipis. Area Metropolitana de Barcelona. Barcelona (Spain). ISBN: 84-930080-8-7
- Font-Arellano, A., Llop-Torné, C., Marsal-Llacuna, ML. et al. (2004) *l'Explosio de la Ciutat/ the Explosion of the City*. Col.legi d'Arquitectes de Catalunya. Barcelona (Spain). ISBN: 84-96185-18-4
- Font-Arellano, A., Marsal-Llacuna, ML (2002) *Des de Barcelona: Arquitectures i Ciutat 1958-1975*, in *Territori i Ciutat a la Catalunya dels Seixanta*. Col.legi d'Arquitectes de Catalunya. Barcelona (Spain). ISBN: 84-959551
- Font-Arellano, A., Marsal-Llacuna, ML (2000) *La Experiencia Reciente en Cataluña. Planeamiento Urbanistico para el Siglo XXI*, Urban. Revista del Departamento de Urbanisitca y Ordenacion del Territorio (UPM). Madrid (Spain). ISSN: 1138-0810
- Ferrer-Aixala, A., Sabate-Bel, J., Marsal-Llacuna, ML (2000), *l'Urbanisme a Catalunya (1979-1999)*, Papers. Regio Metropolitana de Barcelona, Institut d'Estudis Metropolitans de Barcelona. Barcelona (Spain). ISSN: 1888-3621
- Ferrer-Aixala, A., Sabate-Bel, J., Marsal-Llacuna, ML (1999) *20 Anys d'Ajuntaments Democratics*, in *l'Urbanisme Municipal*. Federacio de Municipis de Catalunya. Barcelona (Spain) ISBN: 84-87286-33-x
- Font-Arellano, A., Llop-Torné, C., Vilanova-Claret, JM., Marsal-Llacuna, ML., et al. (1999) *La Construccio del Territori Metropolita. Morfogenesi de la Regio Urbana de Barcelona*. Mancomunitat de Municipis. Area Metropolitana de Barcelona. Barcelona (Spain) ISBN: 84-930080-5-2

Author and co-author of numerous manuals, academic and technical publications presenting project results, good practices, and recommendations to interested parties.

15. Patents

USA 13/ 954.802 (30/07/2013) "Methods and Devices for Urban Planning"

16. Other relevant information

Keynote Speaker:

Invited speaker at a number of seminars and workshops and congresses in different countries:

Harnessing the Benefits of Blockchain for the Delivery of Global Environmental Benefits UN STAP Workshop (Washington, 21-22 October 2019), *Making citizen-centered energy possible with Blockchain* Cities solutions, Sustainable energy Week 2018 (Brussels, June 2018), *De Smart Cities a Blockchain* 4Cities: com el Blockchain canviarà el disseny de la ciutat i la mobilitat-Seminaris de Transport Càtedra Abertis UPC i Associació Catalana de Ciència Regional (Barcelona, February 2018), Aplicacions del blockchain, Barcelona Activa (Barcelona, February 2018), Perquè blockchain i Distributed Ledgers no són el mateix-Cercle de Directors TIC (Barcelona, November 2017), *Blockchain per sector públic*- ProComuns i Ajuntament de Barcelona (Barcelona, Juliol 2017), *Blockchain* 4Cities -Becon i Generalitat de Catalunya (Barcelona, March 2017), *Financing Smart Sustainable Cities*-Forum Liechtenstein (Liechtenstein, November 2016), *Habitat III, Special Event on Smart Cities* (Quito, October 2016), *U4SSC Kick-off meetings* (Geneva, July 2016), *ITU Habitat III expert meeting on ICT and the New Urban Agenda* (Geneva, July 2016), *SDOs First Smart Cities Event* (Singapore, 2016), *World Smart City Forum* (Singapore, July 2016), *Smart Cities Roundtable, British Embassy in Berlin* (Berlin, June 2016), *BA School of Business and Finance* (Riga, February 2015), *EuroTowns, General Assembly and Congress* (Girona, Oct. 2014), *International University of Seville* (Seville, Sept. 2014), *Generalitat de Catalunya, Parlament Jove Científic Català* (Barcelona, March 2014), *Tribuna Girona, Smart Cities Series* (Girona, October 2013), *Spanish Conference of Rectors, Sustainability Commission Meeting* (October 2013), *Diputació de Barcelona, Expert Seminar on Public Facilities Planning* (Barcelona, October 2012), *IBM Seminar on Service Demand Estimation, Multi-Service Programming and Multi-Service Facility Design* (Almaden Research Center, US, July 2011), *Speaker Series Carnegie Mellon University 2011 on Innovation in Large Service Systems* (Nasa Research Park, US, Feb. 2011), *IBM Smarter Planet Executive Speaker Series* (Almaden Research Center, US, Jan. 2011), *2010 International IN3-Harosa Workshop on Hybrid Algorithms* (Barcelona, Spain, Nov. 2011), *Seminar on ICT and Health in Catalonia* (Girona, Spain, May 2010), *Seminar of Professional Orientation for Architects* (Barcelona, March 2009) *Seminar Welfare Space in Europe* (Venetia, Italy, June 2008), *Seminar Urbanism and Urbanization* (Barcelona, June 2005), *Seminar The explosion of the City* (Barcelona, June 2002).

Conferences presenter:

ITU-Kaleidoscope2017: Challenges for a data-driven society (Nanjing, China, November 2017), *2nd Int. Conf. Applied Methods in Social Sciences: People, Goods and Regions in a Globalized World 2015* (Poznan, Poland, Mai 2015), *Annual Conference of the EU Stakeholder Platform in Smart Cities* (Berlin Germany, Mai 2015), *Smart City World Expo and Congress 2014* (Barcelona, Spain, Nov. 2014), *Bergamo 2.(035), MIT-UniBG International Workshop "A new Urban Concept* (Bergamo, Italy, Sept. 2014), *Smart City World Expo and Congress 2013* (Barcelona, Spain, Nov. 2013), *13th. International Conference on Computational Science and its Applications* (Ho-Chi-Minh, Vietnam, June 2013), *Annual Conference of the EU Stakeholder Platform in Smart Cities* (Budapest, Hungary, Mai 2013), *ARTEMIS 2012 Brokerage Event* (Prague, Czech Republic, Jan. 2012), *ARTEMIS 2012 Spring Event* (Nuremberg, Germany, Feb. 2012), *11th. International Conference on Computational Science and its Applications* (Santander, Spain, June 2011), *20th. International Conference European Association for Research on Services* (Gothenburg, Sweden, Oct. 2010), *9th. Annual International Conference on Health, Economics, Management and Policy* (Athens, Greece, June 2010), *15th. International Conference on Urban Planning, Regional Development and Information Society* (Vienna, Austria, May 2010), *VIII Basque Congress on Sociology and Political Science* (Bilbao, Spain, Feb. 2002), *Meeting Point Housing Congress 2009* (Barcelona, Oct. 2009) *III Engineering and Catalan Culture Congress* (Palma de Mallorca, Spain, Dec. 2008).

Volunteer at: Second National Conference of Cuban Geography (Havana, Cuba, 1996) and the XIX Congress of the International Union of Architects (Barcelona, 1996).

Exhibition organizer:

Commissioner and Organizer of: *The Construction of Metropolitan Territories* (Barcelona, June-August 2000), *Ideas Contest for the Barcelona Street in Girona* (Girona, Apr.-May 2010), *Two Streets and One Square* (Perpignan, Jan.-March 2011).

Awards and Acknowledgments:

VALORTEC, *one of the best 10 patents in Catalunya* (author, Nov. 2013) Falling Walls International Lab 2012, *Finalist Breakthrough on Urban Planning* (author, Munich, July 2012), Best of IBM (IBM Research, USA, March 2011), Spanish Biennale of Architecture and Urban Planning 2011 (BEAU XI) *Research Award Ex-Aequo to the Catalunya Territorial Master Plan on Housing* (co-author, Madrid, July 2011), Catalan Regional Planners Association (SCOT), 'Award Territory' Finalist with the title *Public Threshold* (author, Barcelona, April 2009), Distinguished Expert Woman by the Generalitat de Catalunya (June 2009), Interflora *Best final degree project in urban planning* (author, Spanish Ministry of Education, February 2001)

17. Media appearances (TV, Radio and relevant press coverage)

Besides the following TV and Radio appearances, Dr Marsal had multiple mentions in written press that are not included since it would be too long to list:

2013, TEDx City 2.0

<https://www.youtube.com/watch?v=xWmB3z0k4Vo&index=2&list=PLsRNoUx8w3rOBnUyOgi-layJu7zs0-6D>
<http://www.youtube.com/watch?v=NNngq2915Zk&feature=share&list=PLF9lwh-QWc2XQuvXuVWaypCLIMxvAC1oq>

2013, Explaining what a smart city is (National Radio interview)

http://www.cadenaser.com/catalunya/audios/hora-l-catala-tenim-paraula-defineix-millor-les-smart-cities-espavilades-ciutats-espavilades/csrgsrpor/20131129csrgsrscat_14/Aes/

2013, Launch of the Master's Programme in Smart Cities (Local TV news)

<http://tv.girona.xiptv.cat/ultima-hora/capitol/la-universitat-de-girona-crea-un-nou-master-sobre-smart-cities>

2013, Smart Cities Lab (Local TV news, starting in minute 1:25)

<http://tv.girona.xiptv.cat/la-setmana-girona/capitol/capitol-12-1>

2013, Master's Programme in Smart Cities (National TV news, starting in minute 2:00)

<http://www.tv3.cat/3alacarta/#/videos/4786800>

2014, New edition of the Master's Programme in Smart Cities (Local TV interview)

http://tv.girona.xiptv.cat/modetv?chapter_id=165234

2015, Smart Urban Planning project (Local TV news, intro from minute 1:52 to 2:02; report from minute 6:00 to 8:00)

<http://tv.girona.xiptv.cat/noticies/capitol/noticies-migdia-del-20-02-2015>

2015, Smart Cities Lab (National Radio interview)

<http://www.ccma.cat/catradio/alacarta/informatius-catalunya-radio/lentrevista-del-catalunya-al-dia-girona-luisa-marcas-investigadora-de-la-udg/audio/873211/>

2016, UN Habitat III conference channel (UN channel video interview)

<https://trello.com/c/v8HiNP3w/118-video-interview-luisa-marsal-of-future-cities-catapult-on-city-standards>
<https://vimeo.com/187930731>

2017, Bitcoin and Blockchain (National Radio debate)

<http://www.ccma.cat/catradio/alacarta/el-suplement-destiu/els-bitcoins-una-alternativa-a-la-banca-tradicional/audio/971844/>

2017, Association Blockchain Catalunya, inaugural event at UPF (UPF's You Tube channel)

<https://youtu.be/DOHfgH3jwiQ>

2017, Association Blockchain Catalunya, (National Radio report)

<http://www.ccma.cat/catradio/alacarta/economia-i-empresa/associacio-blockchain-catalunya-tecnologia-per-a-intercanvis-digitalis-segurs/audio/982287/>

2017, Blockchain Seminar (Cercle Directors TIC You Tube channel)

<http://cerclodirectorstic.com/2017/11/27/jornada-ctic-blockchain/>
<https://www.youtube.com/watch?v=Dj1yxs72HXE>

2017, Blockchain Interview (Via Empresa business journal, interview report)

http://www.viaempresa.cat/innovacio/el-blockchain-es-un-internet-distribuit-i-sense-gegants-que-el-monopolitzin_52000_102.html

2018, Opinion article on Blockchain and public administration (La Vanguardia, Diners, 07 January)

2018, ioCAT blockchain project (CoinDesk, world's leading blockchain newsletter, 1 June)
<https://www.coindesk.com/catalan-government-takes-back-power-blockchain-electricity/>

2018, Blockchain and energy (La Vanguardia, Tendencias, 16 June)

2018, Blockchain and energy (El Punt Avui, 08 July)
<http://www.elpuntavui.cat/economia/article/18-economia/1424965-la-gestio-de-l-energia-suma-la-blockchain.html>

2018, ioCAT blockchain project (National TV news, 24 July, starting at minute 32:57 to 35:00)
<http://www.ccma.cat/tv3/alacarta/telenoticies-migdia/telenoticies-migdia-24072018/video/5778676/>

2018, ioCAT blockchain project (National TV news, 24 July, starting at 1:20 to 1:58)
<http://www.ccma.cat/324/el-govern-i-la-seva-revolucio-del-blockchain-per-la-identitat-digital-dels-catalans/noticia/2868178/>

2018, Opinion article on blockchain in Barcelona (La Vanguardia, Economia, 26 November)

2019, Opinion article on bitcoin and cryptocurrencies (La Vanguardia, Diners, 24 February)

2019, Interview for the Mobile World Capital <https://digitalfuturesociety.com/qanda/lluisa-marsal/> (Digital Future Society, 4 December)