

CURRICULUN VITAE

Francisco Nunes Correia

1. **Family name:** Nunes **Correia**
2. **First names:** Francisco
3. **Date of birth:** 7 April 1951
4. **Nationality:** Portuguese
5. **Civil status:** Married, two sons
6. **Education:**

Institution (Date)	Degrees or Diplomas obtained:
1992	"Agregado" in Civil Engineering (Environment and Water Resources) at Technical University of Lisbon
1984	Ph. D. in Civil Engineering (Hydrology and Water Resources) at Colorado State University, Fort Collins, Colorado, U.S.A.
1978	Master of Science in Civil Engineering (Hydrology and Water Resources) at Colorado State University, Fort Collins, Colorado, U.S.A.
1975	Degree in Civil Engineering (Hydraulics) by IST, the engineering school of the Technical University of Lisbon

7. **Language skills:** Indicate competence on a scale of 1 to 5 (1 - excellent; 5 - basic)

Language	Reading	Speaking	Writing
Portuguese	Mother language		
English	1	1	1
French	1	2	3
Spanish	1	2	3

8. **Membership of professional bodies:** Portuguese Engineers League (OE), Portuguese Water Resources Association (APRH), International Water Resources Association (IWRA), International Water Association (IWA).
9. **Other skills:** Rich and diversified experience at high-level consultancy and leadership. Broad and comprehensive view at technical and policy levels in the areas of environment, water resources and regional development.
10. **Present position:** President of the Portuguese Water Partnership; Full Professor (tenure) of Environment and Water Resources, and member of CERis (Civil Engineering research and innovation for sustainability) at IST, University of Lisbon, the main engineering school in Portugal;
11. **Years within the career:** After graduation in 1975, he started a diversified career combining and alternating academic activities as a professor and researcher, with professional activities as engineer, and public positions in key institutions as decision and policy maker.

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12. Key qualifications:

- With a **Doctoral degree** and the **degree of “Agregado”** (the highest degree conferred by the Portuguese universities) in **Civil Engineering** in the areas of Hydrology and Water Resources, Professor Francisco Nunes Correia is currently Full Professor of **Environment and Water Resources** at Instituto Superior Técnico (IST), the main engineering school in Portugal, and a well renowned expert in water resources and environment management and policy. He is also President of the **Portuguese Water Partnership** that he helped founding.
- As Professor at IST, he is a member of CERis (Civil Engineering research and innovation for sustainability), the comprehensive research and consultancy centre in all areas related to civil engineering and environment. Professor Francisco Nunes Correia is currently the coordinator of the Water Resources and Environment Group of CERis and has been involved in several research projects, namely as **coordinator at the European level** of pioneering studies on water governance such as **EUROWATER** and **WATER 21**, and also as national coordinator of other EU projects in the areas of floods and droughts.
- He is a member of the **High Level Steering Group of the EU Water Innovation Partnership on Water**, appointed by the EU Commissioner for Science and innovation (since 2013), and a member of the **OECD Water Governance Initiative**, appointed by the Director of Regional Policies of OECD (since 2013).
- Between 2005 and 2009 he was **Minister of Environment, Land Use Planning and Regional Development**. During this period and under his supervision, important reforms were undertaken in several areas, notably a new Water Law and related institutional changes, in conformity with the EU Water Framework Directive, a new framework for territorial administration and the preparation of a new framework programme for the use of the EU Structural Funds. As an important part of his activity, he participated in several European Ministerial Councils and presided over those Councils in the second semester of 2007 during the **Portuguese Presidency of the European Union**.
- Being the Minister responsible for Regional Development, he coordinated the allocation of the EU **Structural Funds and Cohesion Funds** and supervised several programmes aiming at the development of the least developed regions in Portugal. He dedicated also special attention to the **cooperation activities**, especially in the context of the Community of Portuguese Speaking Countries (CPLP) and the Community of the Iberian-American Countries. He visited and worked closely with the Governments of Brazil, Cape-Verde, Angola and Mozambique, among others, in order to implement cooperation activities and coordinate positions at international meetings.
- The President of the Portuguese Republic awarded him a decoration as **Grand-Officer of the Order of Infante D. Henrique**, in June 2010, in recognition of the activity undertaken as Minister of Environment, Land Use Planning and Regional Development.
- Before becoming a member of the Portuguese Government, Prof. Nunes Correia hold other **preeminent public positions**, notably as Director-General for Water and Natural Resources (1986-1989), Coordinator of the National Programme for Environmental Policy (1992-1995), National Coordinator of the POLIS Programme for the Renewal and Environmental Enhancement of Cities (2000-2002), and President of the National Laboratory of Civil Engineering (2002-2005).
- As an expert in water resources he was invited to be a member of the **National Water Council**, since its creation in 1994, and to participate in the Task Force for the Reform of the Legal and Institutional Framework for the Water Sector appointed in 2000.
- He has a relevant experience of water resources management issues in Brazil as a result of his participation in the **World Bank projects PROSAM-Alto Iguçu**, in which he participated in the reform of the water sector in Paraná, and **PROÁGUA Semi-Árido**, in which he participated in the evaluation of water policy developments in the Northeast states of Brazil.
- In May 2010 he participated by request of CESO in the project **“Sectorial Dialogues Brazil – European Union”** and he was a keynote speaker in the Seminar on the EU Water Framework Directive (WFD) and the Brazilian Water Resources Management System (SINGREH).

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- In 2012 and 2013 he collaborated through CESO as a consultant of the Brazilian Ministry of National Integration under the project “Sectorial Dialogues Brazil –European Union” in relation to the programme “**Water for All**” and in the **National Conference on Regional Development**.
- He has been also deeply involved in other regions of the world, notably Angola (National Water Plan), Mozambique and Cape Verde (several cooperation actions), and Macao-China (environment studies and reform).

13. Specific experience worldwide: Diversified professional experience in several regions of the world

Country	Date from - Date to
Portugal	Since 1976
European Union	Since 1990
Latin America (Brazil)	Since 1996
China (Macao)	Since 1997
Africa	Since 2005

14. Professional experience:

Date	Location	Affiliation	Professional Role	Description
Since 2014	Angola	COBA	Consultancy through IST	Preparation of the National Water Plan of Angola (water resources governance model and international river basins)
Since 2014	Brazil	OECD	Consultancy through IST	Evaluation of the water governance model in Brazil and preparation of recommendations;
Since 2013	OECD Countries	OECD	Consultancy through IST	Collaboration in the preparation of recommendations for the principles of water governance
2013	The Netherlands	OECD temporary collaboration	Peer- reviewer	Participation in the OECD-Netherlands Policy Dialogue on Water Governance
Since 2011	Portugal	Portuguese Water Partnership	President	The Portuguese Water Partnership pools together enterprises, universities, professional associations and governmental organisations dedicated to the water sector

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Date	Location	Affiliation	Professional Role	Description
Since 2009	Portugal	IST (Instituto Superior Técnico) – Main affiliation	Professor, Researcher and consultancy activities through the University	Returned to original position at IST as Full Professor of Environment and Water Resources, after concluding the ministerial mandate (2005-2009); President of CEHIDRO, the IST research centre on Hydraulics, Water Resources and Environment (2011 and 2012); President of the Department of Civil Engineering, Architecture and Geo-resources (2013 - 2014)
2005 to 2009	Portugal (with relevant activity in the European Union and intense collaboration with African and South American countries)	Portuguese Government	Minister of Environment, Land-Use Management and Regional Development	Among many other activities, the promotion of a deep reform of the water management system in Portugal, including the approval of a new Water Law and complementary legislation in conformity with the EU Water Framework Directive. The management of all funds for regional development in Portugal, including the EU structural funds, was also an important duty.
2004 and 2005	Portugal (with intense collaboration with African and South American countries and Macao)	LNEC (National Laboratory of Civil Engineering)	President	The National Laboratory of Civil Engineering (LNEC) was created in 1946 and evolved as one of the most prestigious research organisation in Portugal. It is a State Laboratory, integrated in the Ministry of Public Works, and with a very diversified activity, including all dimensions of environment and water policy and management.
2000 to 2003	Portugal	POLIS Programme (Ministry of Environment and Land-Use Management)	National Coordinator	Preparation, launching and implementation nationwide of the POLIS Programme for Urban Rehabilitation and Environmental Enhancement of Portuguese Cities

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Date	Location	Affiliation	Professional Role	Description
2000 and 2001	Brazil	World Bank (PROÁGUA Semi-Árido Project)	International consultant	Contribution for the evaluation of the project "PROÁGUA Semi-Árido" dedicated to the improvement of water governance in the semi-arid states of Brazil
2000 to 2002	Portugal	Ministry of Environment and Land-Use Management	Member of the Task Force for the Reform of the Water Sector	Formulate concrete proposals aiming at the deep reform of the legal and institutional framework for water management in Portugal
1999 and 2000	Portugal	Directorate-General for Land Use Planning and Urban Development	Consultant	Characterization of the Portuguese regions that are vulnerable to desertification and formulation of measures and recommendations to overcome the problems of desertification and water scarcity
1998 to 2002	Mediterranean Region	European Commission	Coordinator of the Portuguese participation in the project "PolAgWat - The Relationship Between Sectoral Policies and Agricultural Water Use in Mediterranean Countries"	How to equate and solve the problems of water resources management in the arid and semi-arid environments of the Mediterranean region, with emphasis on the water use in the agriculture sector
1997 to 1999	Macao (Chinese territory under Portuguese administration at that time)	Macao Government	International consultant	Evaluation of the environmental performance of Macao and formulation of recommendations and advise for improving the environmental condition and the administration capacity in this Chinese territory

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Date	Location	Affiliation	Professional Role	Description
1996 to 1999	European Union	European Commission	European Coordinator of the EU Project WATER 21	WATER 21 Project aimed at providing a critical evaluation of water policies in the European Union and formulating recommendations for improving the sustainability of those policies, opening the way for the Water Framework Directive approved in 2000. Teams from France, Germany, Netherlands, Portugal and United Kingdom participated in this project.
1996 to 2002	Brazil	World Bank (PROSAM Project)	International consultant	Consultant for the reform of the water resources management system in the State of Paraná, including the preparation of a new water law, the negotiation of a compact with the Federal Government and the creation of a River Basin Agency in the Alto Iguaçu River
Since 1994	Portugal	National Water Council	Member – Invited Expert	Advisory Council of the Portuguese Government in all water related matters
1993 to 1995	European Union	European Commission	European Coordinator of the EU Project EUROWATER.	EUROWATER aimed at providing a structured and systematic comparison of the legal and institutional system of water resources management in several countries of the European Union, clarifying what is similar and what is clearly distinct in the several governance models existing in Europe. Teams from France, Germany, Netherlands, Portugal and United Kingdom participated in this project.
1993 to 1995	Portugal	Ministry of Environment	Coordinator of the Task Force.	Preparation of the National Plan for Environmental Policy. The Task Force was created in 1993 by the Minister of Environment and Natural Resources. The Plan was approved by the Government in 1995

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Date	Location	Affiliation	Professional Role	Description
1993 to 1995	Portugal and Spain (Iberian Peninsula)	Portuguese Government	Consultant of the Portuguese Government	Negotiation with Spain of a new agreement for sharing water resources in the Portuguese-Spanish river basins
1991 to 1996	Portugal	EPAL (Portuguese Water Company)	President of the Auditing Committee	Regular auditing of EPAL the Portuguese largest water supply company, providing water for approximately 3 million inhabitants
1986 to 1989	Portugal	Ministry of Planning and Territorial Administration	Director-General for Natural Resources	This Directorate-General was responsible for the management of water resources at the national level and for helping formulating and implementing all water policies in Portugal
1975 to 1986	Portugal	Research Assistant and Researcher at LNEC and Assistant Professor at IST	LNEC and IST	Beginning of research activity in hydrology, water resources and systems analysis applied to water resources, at LNEC and IST, and research activity to obtain the MSc (1978) and the PhD (1984) degrees at Colorado State University in the USA

15. Other relevant information:

15.1. PRIZES AND AWARDS

- Grand-Officer of the Order of Infante D. Henrique, honorific decoration conferred by the President of the Portuguese Republic in June 2010.
- Award conferred by the Minister of Environment and Land Use Planning in recognition of the activity undertaken as Coordinator of the POLIS Programme for the Renewal and Environmental Enhancement of Cities in March 2002.
- Award conferred by the Minister of Environment and Natural Resources in recognition of the activity undertaken as Coordinator of the National Plan of Environmental Policy, in October 1995.
- “Manuel Rocha” Research Prize awarded by the National Laboratory of Civil Engineering and given by the Prime Minister, in May 1985.
- Research Prize awarded by the Portuguese Water Resources Association for the best research work in the period 1983-1984.
- Award conferred by the Minister of Education in recognition of the activity undertaken as a member of the ministerial cabinet, in January 1984.

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15.2. PUBLICATIONS

Author or co-author of 10 books and more than 130 articles, chapters and technical reports. A selection of titles is presented below.

Five selected books:

1. *Institutions for Water Resources Management in Europe*. Balkema Publishers. Rotterdam, 1998 (Editor e co-author) ISBN 90 5410 439 2. Also translated in German: *Institutionen der Wasserwirtschaft in Europa - Länderbericht*. Springer-Verlag, Berlin, 1997.
2. *Selected Issues in Water Resources Management in Europe* (Editor e co-autor) ISBN 90 5410 440 6. Also translated in German: *Dimensionen Europäischer Wasserpolitik - Themenberichte*. Springer-Verlag, Berlin, 1997.
3. *Water Resources Management – Brazilian and European Trends and Approaches*, International Water Resources Association and Brazilian Water Resources Association, Porto Alegre, Brazil, 2000 (author e co-editor with G. V. Canali, F. Lobato, E. S. Machado).
4. *Desertification in Portugal – Relevance to Land-Use Management and Urban Development – 2 Volumes* (in Portuguese). Direcção-Geral do Ordenamento do Território e Desenvolvimento Urbano, Lisbon, 2004.
5. *Environmental Management of River Systems* (in Portuguese). ISA Press, Lisbon, 2004 (author e co-editor with M. G. Saraiva e I. Moreira).

Five selected invited keynote lectures:

1. *Water Governance – Aiming at Better Policies and Innovation*, invited keynote speech, World Water Congress & Exhibition “Inspiring Change”, International Water Association, 24 September 2014
2. *The Role of Good Governance as a Basis for Achieving Water Security*. High Level Event “The Way Towards Rio+20”, 6th World Water Forum, Marseille, 12 March 2012
3. *The Portuguese Water Law of 2005 and the New Management Model*. XIV World Water Congress, International Water Resources Association, Porto de Galinhas, Brazil, 2011
4. *Towards a Portuguese Strategy for Water Scarcity and Drought*. Symposium on River Basin Level Responses to Water Scarcity and Drought under Uncertain Climate Futures, UNESCO IHP-HELP Douro River Basin, Mirandela, 27-28 May, 2010
5. *Institutional Water Issues in Europe*. Keynote Paper presented at the XI World Water Congress, International Water Resources Association, Madrid, 2003.

Ten articles in scientific journals and chapters of books:

1. *International Experiences in Promoting an Universal Access to Water* (in Portuguese). Water for All Program, Ministry of National Integration, Brazil, 2013 (book in press).
2. *Simulating flows in horizontal subsurface flow constructed wetlands operating in Portugal*. *Ecological Engineering* 36, 596–600, 2010 (co-author with Galvão, A. F., Matos, J. S., Ferreira, F. S.).
3. *Multi-criteria Evaluation of Flood Control Measures: The Case of Ribeira do Livramento*. *Water Resources Management*, Vol. 18, No. 3, 2004, European Water Resources Association, Kluwer Academic Publishers (co-author with A. Bana e Costa e P. Antão da Silva).
4. *POLIS – The Portuguese Programme on Urban Environment. A Contribution to the Discussion on European Urban Policy*. *European Planning Studies*, Vol. 12, No. 3, 2004, Taylor & Francis (co-author with M. R. Partidário).
5. *Water and Environment Policies in the Construction of the European Union* (in Portuguese). In “O Desafio da Água no Século XXI”, Instituto Português de Relações Internacionais, Editorial Notícias, Lisbon, 2003.

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6. *International Framework for the Management of Transboundary Water Resources*, Water International, Journal of the International Water Resources Association, Vol. 24, Nº 2, June 1999 (co-author with J. E. da Silva).
7. *Water Resources in the Mediterranean Region*, Water International, Journal of the International Water Resources Association, Vol. 24 Nº 1, March 1999.
8. *Floodplain Management in Urban Developing Areas: Part I – Urban Growth Scenarios and Land Use Controls; Part II – GIS- based Flood Analysis and Urban Growth Modelling*. Water Resources Management Journal, European Water Resources Association, Kluwer Academic Publishers, Vol. 12, No. 1, February 1999 (co-author with M. G. Saraiva, F. N. Silva e I. Ramos).
9. *Flood Hazard Assessment and Management: Interface with the Public*, Water Resources Management Journal, European Water Resources Association, Kluwer Academic Publishers, Vol. 12, No. 3, June 1998 (co-author with M. Fordham, M. G. Saraiva e F. Bernardo).
10. *Coupling GIS with Hydrologic and Hydraulic Flood Modelling*, Water Resources Management Journal, European Water Resources Association, Kluwer Academic Publishers, Vol. 12, No. 3, June 1998 (co-author with F. Rego, M. G. Saraiva e I. Ramos).

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Francisco Nunes Correia