



# Giovanni Quaranta

**Nationality:** Italian

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**Address:** University of Basilicata, DiUSS - Department for Humanistic, Scientific and Social Innovation, Via dell'Ateneo Lucano 10, 85100, Potenza, Italy (Work)

## ABOUT ME

### Full Professor

Professor of Natural Resources Economics and Agricultural Economics and Policy, at University of Basilicata, Italy

His main topic of research activity is the sustainable management of natural resources, especially focusing on the evaluation of trade-off between economic and environmental impacts associated to different management options. He also works on local and rural development initiatives supported by EU and local policies.

He has been, and is currently involved, as local project leader in many international research programs (among the others, some EU well known projects included: MEDIMONT (1992-95), MEDALUS II (1992-94), MEDALUS III (1994-96), DESERTLINKS (2001-05), DESIRE (2006-11), LEDDRA (2010-14), CASCADE (2012-17), iSQAPER (2015-20), FAIRWY (2017-21), SHUI (2018-22). He acts also as scientific responsible of international projects, funded by Interreg III B Archimed: IMAGE (2006-10), HADRIAMED (2006-10), EUREKA (2008-12), EDECCA (2008-12), as well as many local (national and regional) projects. He is a member of several national and international organizations and advisory bodies, including the EAAE - European Association of Agricultural Economists, ESRS - European Society for Rural Sociology. He published over 100 scientific papers on the specific topic. He is also the scientific responsible of the Post-graduate Master courses on Management of territory and sustainable development, activated at University of Basilicata.

Since 2006 he is also Chief of scientific committee of MEDES Foundation, dealing with Mediterranean Sustainable and Resilient Development ([www.medes.ei](http://www.medes.ei))

## WORK EXPERIENCE

### RECENT PARTNERSHIP AND VISITING

- 2016/ October: Visiting Researcher for academic exchange and technical cooperation by CRSRI - Changjiang River Scientific Research Institute-Wuhan (China)
- 2016/February: Visiting Professor by Moscow State University of Environmental Engineering
- 2014 / December: Visiting Professor of natural resource management by AUA - Agricultural University of Athens (Greece)
- 2014/October: Visiting Professor of Local Development and Use of Natural Resources by CRSRI - Changjiang River Scientific Research Institute -Wuhan (China)
- 2007-2008: Local Coordinator of the "Evaluation and integration of strategic indicators and benchmarks for assessing and monitoring desertification under the UNCCD", Project funded by JRC Joint Research Centre of the European Commission

2019 - CURRENT Italy

**PROFESSOR OF AGRICULTURAL ECONOMICS AND POLICY** UNIVERSITY OF BASILICATA, DIUSS-  
DEPARTMENT FOR HUMANISTIC, SCIENTIFIC AND SOCIAL INNOVATION, EX DIMIE

2018 - CURRENT Italy

**PROFESSOR OF EU PROJECTS FOR LOCAL DEVELOPMENT** UNIVERSITY OF BASILICATA, DIUSS-DEPARTMENT  
FOR HUMANISTIC, SCIENTIFIC AND SOCIAL INNOVATION, EX DIMIE

2011 – CURRENT Italy

**PROFESSOR OF NATURAL RESOURCES ECONOMICS** UNIVERSITY OF BASILICATA, DIUSS-DEPARTMENT FOR HUMANISTIC, SCIENTIFIC AND SOCIAL INNOVATION, EX DIMIE

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2014 – 2017 Italy

**PROFESSOR OF ECOLOGICAL ECONOMICS** UNIVERSITY OF BASILICATA, DIMIE - DEPARTMENT OF MATHEMATICS, COMPUTER SCIENCE, AND ECONOMICS

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2006 – CURRENT

**APPOINTED AS PRESIDENT OF THE OBSERVATORY BY THE SENATE OF UNIVERSITY OF BASILICATA**  
UNIVERSITY OF BASILICATA

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The Observatory is dealing with economic problems of land degradation of the Mediterranean.

2006 – CURRENT

**MEMBER OF THE ADVISORY BOARD OF EUROPEAN DESERTNET**

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2005

**APPOINTED BY THE EUROPEAN COMMISSION AS EVALUATOR OF EUROPEAN PROJECTS FP6-2004-SSP-4**

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Directorate I-Environment

2005

**APPOINTED BY EUROPEAN COMMISSION AS EXPERT**

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Expert at the First Network Meeting, "Rural development Environmental Efficiency Across Europe: Bridging the Local Experience" Ispra, 28-29 November 2005.

2003 – CURRENT Italy

**COORDINATOR OF MASTER COURSES ON SUSTAINABILITY TOPICS** UNIVERSITY OF BASILICATA

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2003 – 2009

**APPOINTED AS MEMBER OF THE ITALIAN NATIONAL COMMITTEE TO COMBAT DESERTIFICATION AND DROUGHT**

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1996 – CURRENT

**RESPONSIBLE**

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Responsible of 7 international projects, 15 research unit of international projects and 26 national/regional projects

1994 – 2012

**PROFESSOR OF AGRICULTURAL ECONOMICS AND POLICY** UNIVERSITY OF BASILICATA

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## ● **EDUCATION AND TRAINING**

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1993 Naples, Italy

**PHD IN AGRICULTURAL ECONOMICS AND POLICY** University of Naples "Federico II"

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10/1991 – 12/1992 Stanford, United States

**VISITING SCHOLAR** University of Arizona Tucson, Arizona and Stanford University, Stanford, California

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1993 Naples, Italy

**MASTER DEGREE "XXIX CORSO DI SPECIALIZZAZIONE IN ECONOMIA AGRARIA"** University of Naples "Federico II"

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Agricultural economics; natural resources management; socio-economic aspects of land degradation; socio-ecological systems analysis; resilience thinking; participatory approaches; community involvement; business models; social innovation; dissemination and exploitation of agricultural innovation

## ● **WORK ACTIVITIES**

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**Editorial activity**

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● **LANGUAGE SKILLS**

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **DIGITAL SKILLS**

Editing

Data base

Statistical packages

● **JOB-RELATED SKILLS**

Managerial skills

● **OTHER SKILLS**

Capacity to work and lead multidisciplinary teams

● **PUBLICATIONS**

Imbrenda, V., Maialetti, M., Sateriano, A., Scarpitta, D., Quaranta, G., Chelli, F., Salvati, L. Scrutinizing the Statistical Distribution of a Composite Index of Soil Degradation as a Measure of Early Desertification Risk in Advanced Economies. *Environments* 2024, 11, 246. <https://doi.org/10.3390/environments11110246>

Bruno, E., Salvia R., Quaranta G., Cudlin P., Punzo G., Salvati L. Identifying On-Site and Off-Site Drivers of Land Degradation in Advanced Economies: A Spatial Approach for Italy. *Environmental and Resource Economics*, 2024, <https://doi.org/10.1007/s10640-024-00888-5>

D’Agata, A.; Quaranta, G.; Salvia, R.; Carlucci, M.; Salvati, L. Mixed Land Use as an Intrinsic Feature of Sprawl: A Short-Term Analysis of Settlement Growth and Population Distribution Using European Urban Atlas. *Land* 2023, 12, 972. <https://doi.org/10.3390/land12050972>

Bartolacci, F.; Salvia, R.; Quaranta, G.; Salvati, L. Seeking the Optimal Dimension of Local Administrative Units: A Reflection on Urban Concentration and Changes in Municipal Size. *Sustainability* 2022, 14, 15240. <https://doi.org/10.3390/su14221524>

Rodrigo-Comino, J., Salvia, R., Egidi, G., Salvati, L., Giménez-Morera, A., Quaranta, G. Desertification and Degradation Risks vs Poverty: A Key Topic in Mediterranean Europe, 2022, 48(1):23-40, DOI: <https://doi.org/10.18172/cig.4850>

Salvia, R.; Quaranta, V.; Sateriano, A.; Quaranta, G. Land Resource Depletion, Regional Disparities, and the Claim for a Renewed ‘Sustainability Thinking’ under Early Desertification Conditions. *Resources* 2022, 11, 28. <https://doi.org/10.3390/resources11030028>

Salvia, R.; Colantoni, A.; Bianchini, L.; Egidi, G.; Polinesi, G.; Salvati, L.; Quaranta, G. 'Old' Territorial Disparities and 'New' Spatial Patterns: Unraveling the Latent Nexus between Sustainable Development and Desertification Risk in Italy. *Economies* 2022, 10, 50. <https://doi.org/10.3390/economies10020050>

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Halbac-Cotoara-Zamfir, R.; Marucci, A.; Salvia, R.; Quaranta, G.; Sateriano, A.; Cecchini, M.; Bianchini, L. Caring of the Fringe? Mediterranean Desertification between Peri-Urban Ecology and Socioeconomics. *Sustainability* 2022, 14, 1426. <https://doi.org/10.3390/su14031426>

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Bianchini, L.; Salvia, R.; Quaranta, G.; Egidi, G.; Salvati, L.; Marucci, A. Forest Transition and Metropolitan Transformations in Developed Countries: Interpreting Apparent and Latent Dynamics with Local Regression Models. *Land* 2022, 11, 12. <https://doi.org/10.3390/land11010012>

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Salvia, R.; Quaranta, G.; Cividino, S.; Cudlinova, E.; Salvati, L. Insights into the 'ecological economics' of land degradation: A multi-scale analysis with implications for regional development policy and local mitigation measures *Environmental Science and Policy*, 2021, 126, pp. 197–203, 10.1016/j.envsci.2021.10.003

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Tomao, A.; Quaranta, G.; Salvia, R.; Vinci, S.; Salvati, L. Revisiting the 'southern mood'? Post-crisis Mediterranean urbanities between economic downturns and land-use change, *Land Use Policy*, 2021, 111, 105740, ISSN 0264-8377, <https://doi.org/10.1016/j.landusepol.2021.105740>

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Tomao, A.; Mattioli, W.; Fanfani, D.; Ferrara, C.; Quaranta, G.; Salvia, R.; Salvati, L. Economic Downturns and Land-Use Change: A Spatial Analysis of Urban Transformations in Rome (Italy) Using a Geographically Weighted Principal Component Analysis. *Sustainability* 2021, 13, 11293. <https://doi.org/10.3390/su132011293>

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Salvia, R.; Salvati, L.; Quaranta, G. Beyond the Transition: Long-Term Population Trends in a Disadvantaged Region of Southern Europe, 1861–2017. *Sustainability* 2021, 13, 6636. <https://doi.org/10.3390/su13126636>

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Rodrigo-Comino, J.; Salvia, R.; Quaranta, G.; Cudlín, P.; Salvati, L.; Gimenez-Morera, A. Climate Aridity and the Geographical Shift of Olive Trees in a Mediterranean Northern Region. *Climate* 2021, 9, 64. <https://doi.org/10.3390/cli9040064>

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Nickayin, S.S.; Salvati, L.; Coluzzi, R.; Lanfredi, M.; Halbac-Cotoara-Zamfir, R.; Salvia, R.; Quaranta, G.; Alhuseen, A.; Gaburova, L. What Happens in the City When Long-Term Urban Expansion and (Un)Sustainable Fringe Development Occur: The Case Study of Rome. *ISPRS Int. J. Geo-Inf.* 2021, 10, 231. <https://doi.org/10.3390/ijgi10040231>

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Rodrigo-Comino, J.; Egidi, G.; Salvati, L.; Quaranta, G.; Salvia, R.; Gimenez-Morera, A. High-to-Low (Regional) Fertility Transitions in a Peripheral European Country: The Contribution of Exploratory Time Series Analysis. *Data* 2021, 6, 19. <https://doi.org/10.3390/data6020019>

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Nickayin, S.S.; Perrone, F.; Ermini, B.; Quaranta, G.; Salvia, R.; Gambella, F.; Egidi, G. Soil Quality and Peri-Urban Expansion of Cities: A Mediterranean Experience (Athens, Greece). *Sustainability* 2021, 13, 2042. <https://doi.org/10.3390/su13042042>

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Egidi, G.; Salvati, L.; Falcone, A.; Quaranta, G.; Salvia, R.; Vcelakova, R.; Giménez-Morera, A. Re-Framing the Latent Nexus between Land-Use Change, Urbanization and Demographic Transitions in Advanced Economies. *Sustainability* 2021, 13, 533. <https://doi.org/10.3390/su13020533>

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Gambella, F.; Quaranta, G.; Morrow, N.; Vcelakova, R.; Salvati, L.; Gimenez Morera, A.; Rodrigo-Comino, J. Soil Degradation and Socioeconomic Systems' Complexity: Uncovering the Latent Nexus. *Land* 2021, 10, 30. <https://doi.org/10.3390/land10010030>

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Nickayin, S.S.; Quaranta, G.; Salvia, R.; Cividino, S.; Cudlin, P.; Salvati, L. Reporting land degradation sensitivity through multiple indicators: Does scale matter? *Ecological Indicators*, 2021, 125, 107560 10.1016/j.ecolind.2021.107560

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Nickayin, S.S.; Tomao, A.; Quaranta, G.; Salvati, L.; Gimenez Morera, A. Going toward Resilience? Town Planning, Peri-Urban Landscapes, and the Expansion of Athens, Greece. *Sustainability* 2020, 12, 10471. <https://doi.org/10.3390/su122410471>

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Halbac-Cotoara-Zamfir, R.; Smiraglia, D.; Quaranta, G.; Salvia, R.; Salvati, L.; Giménez-Morera, A. Land Degradation and Mitigation Policies in the Mediterranean Region: A Brief Commentary. *Sustainability* 2020, 12, 8313. <https://doi.org/10.3390/su12208313>

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Egidi, G.; Quaranta, G.; Salvati, L.; Gambella, F.; Mosconi, E.M.; Giménez Morera, A.; Colantoni, A. Unraveling Causes and Consequences of International Retirement Migration to Coastal and Rural Areas in Mediterranean Europe. *Land* 2020, 9, 410. <https://doi.org/10.3390/land9110410>

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Salvia, R.; Egidi, G.; Salvati, L.; Rodrigo-Comino, J.; Quaranta, G. In-Between 'Smart' Urban Growth and 'Sluggish' Rural Development? Reframing Population Dynamics in Greece, 1940–2019. *Sustainability* 2020, 12, 6165. <https://doi.org/10.3390/su12156165>

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Salvia, R.; Halbac-Cotoara-Zamfir, R.; Cividino, S.; Salvati, L.; Quaranta, G. From Rural Spaces to Peri-Urban Districts: Metropolitan Growth, Sparse Settlements and Demographic Dynamics in a Mediterranean Region. *Land* 2020, 9, 200. <https://doi.org/10.3390/land9060200>

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Quaranta, G., Salvia, R., Salvati, L., De Paola, V., Coluzzi, R., Imbrenda, V., Simoniello, T. Long-term impacts of grazing management on land degradation in a rural community of Southern Italy: Depopulation matters *Land Degradation and Development*, 2020, 31(16), pp. 2379–2394 10.1002/ldr.3583

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Salvia, R., Quaranta, G. Place-based rural development and resilience: A lesson from a small community *Sustainability (Switzerland)*, 2017, 9(6), 889 10.3390/su9060889

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Wilson, G., Quaranta, G., Kelly, C., Salvia, R. Community resilience, land degradation and endogenous lock-in effects: evidence from the Alento region, Campania, Italy *Journal of Environmental Planning and Management*, 2016, 59(3), pp. 518–537 10.1080/09640568.2015.1024306

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Quaranta, G., Citro, E., Salvia, R. Economic and social sustainable synergies to promote innovations in rural tourism and local development *Sustainability (Switzerland)*, 2016, 8(7), 668 10.3390/su8070668

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Salvia, R.; Quaranta, G. Adaptive Cycle as a Tool to Select Resilient Patterns of Rural Development. *Sustainability* 2015, 7, 11114–11138. <https://doi.org/10.3390/su70811114>

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Nichola Geeson, Giovanni Quaranta, Rosanna Salvia, Jane Brandt, Long-term involvement of stakeholders in research projects on desertification and land degradation: How has their perception of the issues changed and what strategies have emerged for combating desertification?, *Journal of Arid Environments*, Volume 114, 2015, Pages 124–133, ISSN 0140-1963, <https://doi.org/10.1016/j.jaridenv.2014.12.002>

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Quaranta, G.; Salvia, R.. Sustainability patterns and policy fit: Evidences from a mixed approach applied in a euro-mediterranean area (Alento Basin, Campania Region, Italy). 2014. *Rivista di Studi sulla Sostenibilita*, Issue 2, pp. 59 - 81. DOI: 10.3280/RISS2014-002005

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Quaranta G., Salvia R.. An Index to Measure Rural Diversity in the Light of Rural Resilience and Rural Development Debate. *European Countryside*. 2014;6(2): 161-178. <https://doi.org/10.2478/euco-2014-0009>

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Geeson, N., Brandt, J., Quaranta, G. et al. Designing a Public Web-Based Information System to Illustrate and Disseminate the Development and Results of the DESIRE Project to Combat Desertification. *Environmental Management* 54, 1043–1055 (2014). <https://doi.org/10.1007/s00267-013-0069-x>

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Quaranta, G.; Salvia, C. Preserving the Mediterranean Landscape: The Role of Local Traditional Food, *International Conference on Environment: Survival and Sustainability*, Environmental Earth Sciences, 2011, pp. 187-194, DOI 10.1007/978-3-540-95991-5-19

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Kok, K., Patel, M., Rothman, D.S., Quaranta, G. Multi-scale narratives from an IA perspective: Part II. Participatory local scenario development, *Futures*, 2006, 38 (3): 285-311, ISSN 0016-3287, <https://doi.org/10.1016/j.futures.2005.07.006>

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Bathurst, J.C. , Sheffield, J., Leng, X., Quaranta, G. Decision support system for desertification mitigation in the Agri basin, southern Italy, *Physics and Chemistry of the Earth, Parts A/B/C*, 2003, 28(14-15):579-587, ISSN 1474-7065, [https://doi.org/10.1016/S1474-7065\(03\)00104-9](https://doi.org/10.1016/S1474-7065(03)00104-9)

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Basso, F., Bove, E., Dumontet, S., Ferrara, A., Pisante, M., Quaranta, G., Taberner, M. Evaluating environmental sensitivity at the basin scale through the use of geographic information systems and remotely sensed data: an example covering the Agri basin (Southern Italy), *CATENA*, 2000, 40(1): 19-35, ISSN 0341-8162, [https://doi.org/10.1016/S0341-8162\(99\)00062-4](https://doi.org/10.1016/S0341-8162(99)00062-4)

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Imbrenda, V.; Maialetti, M.; Sateriano, A.; Scarpitta, D.; Quaranta, G.; Chelli, F.; Salvati, L. Scrutinizing the Statistical Distribution of a Composite Index of Soil Degradation as a Measure of Early Desertification Risk in Advanced Economies. *Environments* 2024, 11, 246. <https://doi.org/10.3390/environments11110246>

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## ● PROJECTS

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SHui - Soil Hydrology research platform underpinning innovation to manage water scarcity in European and Chinese cropping systems. Horizon 2020

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MultiPass - Una multi-stakeholder partnership a support del Piano Paesaggistico per una Basilicata sostenibile. Bando SNSvS 2

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CASCADE - Catastrophic shifts in drylands: how can we prevent ecosystem degradation?. VII FP

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## ● MEMBERSHIP AND SERVICE

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25/10/2022 – 02/09/2024

Director (University of Basilicata, DiMIE - Department of Mathematics, Computer Science, and Economics) Service

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## ● OTHER RELEVANT INFORMATION

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President of Scientific Committee of Foundation for Sustainable Development of the Mediterranean Basin [www.medes.eu](http://www.medes.eu)

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*According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV*

12/2024