EUROPEAN COOPERATION
IN SCIENCE AND TECHNOLOGY

SMIRES Science and Management of Intermittent Rivers and Ephemeral Streams

SMIRES Training Course

Economics of Sustainable Water Management of Intermittent Rivers and Ephemeral Streams in accordance to the Water Framework Directive (WFD), the Millennium Ecosystems Assessment (MEA) and Sustainable Development Goals of the UN Agenda 2030

4th-6th of February, 2019

Coordinator: Prof. Phoebe Koundouri

International Centre for Research on the Environment and the Economy

Under the auspices of the UN SDSN and EIT Climate KIC-Greece

SDSN GREECE www.unsdsn.gr

ICRE8 www.icre8.eu

National and Kapodistrian University of Athens PESD http://pesd.econ.uoa.gr/

eit Climate-KIC https://www.climate-kic.org/countries/greece/

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Intermittent rivers and ephemeral streams (IRES) are waterways that cease to flow and sometimes dry. IRES cover more than half of the global river network and are expanding due to global change. IRES are highly dynamic aquatic-terrestrial ecosystems characterized by a rich biodiversity and providing multiple benefits to societies including water, food, transport and leisure. Despite their prevalence, we still have much to learn about the occurrence, hydrology, biogeochemistry, ecology, social perception and economic value of IRES. Our limited understanding of IRES affects our ability to manage these ecosystems effectively, and IRES remain poorly protected by both national and European water legislation.

SMIRES is a COST Action funded by the European Union to generate networking, capacity building and knowledge synthesis in IRES science and management. We bring together academics and water managers, early-career and established researchers, and scientists from different countries to pursue a common goal: to advance the science and management of IRES. Our members share diverse experiences and expertise to enable the development of novel and sometimes unexpected multi-disciplinary solutions that meet key challenges in IRES science and management. SMIRES members comprise a diverse network of more than 200 collaborators from across and beyond Europe. SMIRES groups share expertise to synthesize national and international knowledge on IRES and to develop tools and guidelines to promote their efficient management.

Project Coordinator: IRSTEA (Institut national de recherche en sciences et technologies pour l'environnement et l'agriculture)

Funded by: EC-DG Research- H2020 COST Action: European Cooperation in Science & Technology

Budget: € 700,000

Training course coordinator: Prof. Phoebe Koundouri

Project Website: www.smires.eu

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Description and Main Topics

In February 2019 will take place the SMIRES training course on **Economics of Sustainable Water Management of Intermittent Rivers and Ephemeral Streams in accordance to the Water Framework Directive (WFD), the Millennium Ecosystems Assessment (MEA) and Sustainable Development Goals of the UN Agenda 2030 on 4th-6th of February 2018**.

The training course will introduce the basic principles of resource economics related to IRES with focus on the Water Framework Directive and the Millennium Ecosystems Assessment. The topics covered include: Economic instruments for sustainable water management, market and non-market valuation techniques, uncertainty and risk implications for water management, political economy and participatory approaches to IRES management. The training course will be under the auspices of the UN SDSN Greece (www.unsdsn.gr) and will draw heavily on practical examples from the water-related projects of ICRE8 (www.icre8.eu), the UN SDSN Greece co-hosting institution, and from EIT-Climate KIC Greece (https://www.climate-kic.org/countries/greece/). Participants will be able to understand in depth the economics of IRES management and implications for sustainable development with the help of the lecturers and application to case studies. The course will develop in morning and afternoon theory and application sessions, seminar and keynote lectures. The stepwise approach aims at ensuring that participants assimilate the basics of economics of sustainable IRES management.

Target Groups

The workshop is envisioned for postgraduate students, researchers at any stage in their professional career, as well as professionals interested in the economics of IRES management and sustainable development.

Coordinator

The course is coordinated by Prof. Phoebe Koundouri. Professor Dr. Phoebe Koundouri holds a PhD (2000), MSc (1996) and MPhil (1995) in Economics from the University of Cambridge (UK). She is Professor in Economic and Econometric Theory and Applications (with emphasis on Natural Resources, Energy and the Environment) at the School of Economics, Athens University of Economics and Business (Greece) and the Founder and Scientific Director of the Research Laboratory: ReSEES:

Research on Socio-Economic and Environmental Sustainability (http://www.icre8.eu/resees) at the same University. She is Visiting Senior Research Fellow at the CCCEP: Centre for Climate Change Economics and Policy (www.cccep.ac.uk/people/), London School of Economics (UK). Phoebe Koundouri is the Founder and Scientific Director of the non-for-profit ICRE8: International Centre for Research on the Environment and the Economy (www.icre8.eu). ICRE8 is the host of the United Nations Sustainable Development Solutions Network (UNSDSN)-Greece (www.unsdsn.gr) and Prof. Koundouri is the Co-Chair of UNSDSN-Greece. She is also Director of the EIT Climate KIC-Greece (https://www.climate-kic.org/countries/greece/). She has published 15 edited books and monographs, and more than 250 articles in academic journals and edited volumes. She is a highly cited academic author ranked in the top 1% of all female economists in the world. Since 1996, she has coordinated and/or participated in more than 60 research projects on natural resources management issues. She has organized a number of international conferences and supervised numerous PhD students. Over the last two decades, Phoebe Koundouri has given keynote and public lecturers all over the world, and received scholarships and prizes for academic excellence from various academic institutions and foundations.

Application deadline and costs

Application deadline for the training course is December 15th, 2018, 17:00.
Applicants need to register by signing up here: http://fleximeets.com/smires2019/.
Successful applicants will be notified by December 20th
The training course is limited to 20 participants. No fees apply to the training course. Trainees have to cover their own travel, accommodation and subsistence costs. Selected trainees will receive a fixed grant amounting to 390 Euros, immediately after the training school.

Agenda

Day 1 February 4th, 2019	
10.00-12.00	**Seminar lecture: Sustainable development goals, MEA and Agenda 2030- Links to Management of Intermittent Rivers and Ephemeral Streams**
	Presenter: Prof. Phoebe Koundouri
	Key words: Optimal, Integrated and Interdisciplinary Management of IRES; Efficient Allocation of Resources; Total Economic Value of Resources, Cost-Benefit Analysis and Investment Decisions; Economic and Social Instruments; UN Development Goals, MEA
12.00-12.30	**Coffee break & Networking Session**
12.30-14.30	**Theory and application session I: Valuation of natural resources for sustainable development**
	Presenter: Dr. Emmanouil Tyllianakis
	Key words: Valuation Methods, Natural Resources, Water, Sustainability, Scarce Resources

14.30-15.30	**Lunch break & Networking Session**
15.30-17.30	**Theory and application session II: Non-market valuation methods- Choice & Lab Experiments, Contingent valuation**
	Presenter: Dr Achilleas Vassilopoulos
	Keywords: Non-market Valuation, Experimental Economics, Contigent Valuation, Choice Experiments
17.30-18.00	**Day one wrap-up session**
	Presenter: Achilleas Vassilopoulos
Day 2 February 5th, 2019	
10.00-12.00	**Keynote lecture: Sustainable IRES management under climate change**
	Presenter: Prof. Andreas Papandreou
	Key words: Sustainable Management of Natural Resources, Climate Change, Economic Policy
12.00-12.30	**Coffee break & Networking Session**
12.30-14.30	**Theory and application session III: Benefit transfer methods**
	Presenter: Dr. Stella Tsani
	Key words: Non-market Valuation, Ecosystem Services, Benefit Transfer, Policy Site, Validation
14.30-15.30	**Lunch break & Networking Session**
15.30-17.30	**Keynote lecture: Long-term discounting and uncertainty**
	Presenter: Prof. Nikitas Pittis
	Key words: Uncertainty, Risk, Discount Rate, Social Preferences, Decision Making
17.30-18.00	**Day two wrap-up session**
	Presenter: Stella Tsani
Day 3 February 6th, 2019	
10.00-12.00	**Theory and application session IV: Participatory approaches to Ecosystem Services valuation**
	Presenter: Dr. Ebun Akinsete
	Key words: Stakeholder Participation, Citizen Engagement, Joint Valuation Methods for IRES
12.00-12.30	**Coffee break & Networking Session**
12.30-14.30	**Theory and application session V: Water features and rivers as part of the urban design: Services provided, past and current trends**
	Presenter: Dr Stella Apostolaki
	Key words: IRES, services, urban design, cities, ecosystem
14.30-15.30	**Lunch break**
15.30-17.30	**Keynote lecture: Linking water values to water prices**
	Presenter: Phoebe Koundouri
	Key words: Water Pricing, Cost recovery, Socio-economic assessment
17.30-18.00	**Day three wrap-up session**
	Presenter: Stella Apostolaki

Short bios of presenters

Dr. Ebun Akinsete is an Associate Lecturer at the School of Applied Social Studies, Robert Gordon University (Aberdeen), and Senior Partner with Nigerian-based consultancy GEN Sustainable Solutions. With a BSc (Hons) in Architectural Technology, MSc in Project Management and PhD in Urban Regeneration and Sustainable Communities, she has several years of both industrial and academic experience in Europe, Asia and Africa; collaborating with governmental agencies, NGOs, aid organizations, academic institutions, the private sector and local communities. Her main areas of interest are sustainable development, urban regeneration, SDG policy and implementation, community development, climate change mitigation, transition management, renewable energy, stakeholder participation, participatory planning, evaluation and impact assessment for sustainability, and sustainability in developing nations.

Dr. Stella Apostolaki is a senior researcher at ICRE8. She holds a BS (Hons) in Environmental Science; MS in Urban Water and Environmental Management; PhD, Abertay University, Dundee, Scotland, UK. Dr. Apostolaki teaches modules in environmental science, biodiversity conservation and water management, at the Department of Science and Mathematics of the American College of Greece – Deree. Her main research interests are on integrated water management and innovation, sustainable development, sustainable storm water management and climate change, conservation of biodiversity, public awareness – stakeholder engagement methods and public education, green urban planning with emphasis on amenity and biodiversity. Her work has been published in journals, international conference proceedings, books, while it has been widely cited.

Prof. Andreas Papandreou is a Professor in the Economics Department of the National and Kapodistrian University of Athens. He has 26 years of academic experience in various Universities. His work spans the fields of environmental, institutional, political and welfare economics. Among his publications are Externality and Institutions (1998) published by OUP. He is the Director of the Political Economy of Sustainable Development Lab (PESD), and Research Associate of the International Center of Research on the Environment and the Economy (ICRE8).

Prof. Nikitas Pittis is Full Professor in Financial Econometrics at the Department of Banking and Financial Management of the University of Piraeus, since 2004. He is also member of the Board of Directors of Eurobank EFG Asset Management Investment Firm. He holds a PhD in Econometrics from Birkbeck College of the University of London (UK). He was Associate Professor at the University of Piraeus (2000-2003), as well as Associate Professor and Assistant Professor at the Department of Economics of the University of Cyprus (1996-2000). He has taught economics and econometrics at the London School of Economics of the University of London (1989-1991) and at the Swiss Federal Institute of Technology, Zurich (1993). He has worked as an economist in the research department of UBS in Zurich (1992-1993) and as a senior research associate at the National Institute of Economic and Social Research in London (1991-1992). He was also member of the Board of

Economic Advisors at the Ministry of Economics and Finance of the Greek Government (2004-2006).

Dr. Stella Tsani holds a PhD in Economics and Business from the University of Reading, UK. She heads the Department of Energy, Economic Policy and Regional Cooperation at the International Centre for Research on the Environment and the Economy. She is also adjunct Assistant Professor at the Athens University of Economics and Business. She obtained her BSc degree in Economics from the National and Kapodistiran University of Athens, Greece and her MA degree in Business and Management in Emerging Markets from the University of Reading, UK. Her research interests focus on resource economics, energy, development, political economy, and socio-economic analysis. She has led research in projects funded by the European Commission (FP7, Horizon 2020) and various Directorates (DGENV, DGENER), the World Bank, Revenue Watch Institute USA, etc. She has worked for the Centre for Euro Asian studies in the UK, Europrism in Cyprus, the Public Finance Monitoring Centre in Azerbaijan, the Bank of Greece, the Institute of Energy for South East Europe and the E3MLab at the National Technical University of Athens in Greece. She has published in leading peer-reviewed journals including: Economics Letters, Resources Policy, Energy Economics, Economic Systems, etc.

Dr. Emmanouil Tyllianakis is an Environmental Economist working for the Centre of Environment, Fisheries and Aquaculture Science (Cefas) in the UK focusing on ecosystems services valuation and environmental policy in projects across the UK and Commonwealth countries. He is also an associate at the Centre for Social and Economic Research on the Global Environment (CSERGE) at the University of East Anglia. His research interests revolve around environmental policy, environmental risk perceptions, applied microeconomics and coastal and marine ecosystems valuation. He holds a Ph.D. in Environmental Economics from the University of Patras, an MSc in Environmental Economics from the University of Manchester, and BSc in Economics from the University of Patras.

Dr. Achilleas Vassilopoulos is an Assistant Professor at the Department of Economics, University of Ioannina, Greece. He holds an MBA and a PhD in consumer theory from the Department of Agricultural Economics of the Agricultural University of Athens (AUA) and he has served as a visiting scholar at the University of Arkansas, USA (Dale Bumpers College, Dept. of Agricultural Economics & Agribusiness). He has worked as a consultant-economist for the Food and Agriculture Organization of the United Nations (UN FAO) and the Innovation and Entrepreneurship Unit of AUA and has participated in more than ten EU-funded projects on behalf of both public and private institutes in Greece and abroad. His research interest focuses on the analysis of economic behavior using quantitative and experimental methods with an emphasis on the agro-food sector and the environment. His academic work has been published in journals such as Economic Modelling, Economics Letters, Journal of Applied Statistics, Journal of Consumer Affairs, European Review of Agricultural Economics and others.

Venue

ATHENA Research and Innovation Information Technologies, Artemidos 6 & Epidavrou, 151 25 Maroussi, Greece

From the Airport to Athena Research and Innovation Center

Train

Athens International Airport 'Eleftherios Venizelos" is directly connected with most main airports in Europe. Detailed information about flights schedule can be found in airport's webpage:

http://www.aia.gr/traveler/

The suburban railway (proastiakos) operates from 5:25 to 00:00 every day. The fastest way to reach Athena Research and Innovation Centre from the airport, is by getting on at the airport stop and getting off at Kifisias stop (direction towards Kiato).

Taxi

Taxis are located right outside of the arrivals hall. The Athena Research and Innovation Center should take approximately 30 minutes approximately, subject to traffic conditions, and the fare should be around € 35.

A taxi fare from Kifisia to ATHENA is approximately 5,5 euros.

A taxi fare from Syntagma (Athens center) to ATHENA is approximately 9 euros.

Buses

ATHENA is easily accessible by bus (frequent routes) from Kifissia suburb or Athens center.

Accommodation

There is only one hotel in the office area (Marousi) and two small apartment hotels, all walking distance from ATHENA. Marousi is a suburb with some night life and shopping.

Staying in Kifissia suburb is a nice idea if you have visited Athens before, since it has a great nightlife and shopping area. Much greener than Marousi, you can also visit Goulandri Museum of Natural History (http://www.gnhm.gr/en/), which also has a nice café.

List of hotels

Name	Category	Location	Distance	Webpage	Cost (euros)

Civitel Hotel	****	near ATHENA	0,85 km, 10 minutes walk to ATHENA	http://www.civitel.gr	110-130
Urban Residence		near ATHENA	2,3 km, 27 minutes walk to ATHENA	http://urbanresidence.gr/en/	120-140
Athens Habitat		near ATHENA	0,65 km, 7 minutes walk to ATHENA	http://athenshabitat.gr/	90-110
The Y Hotel	****	Kifisia, Northern Suburb, to "Athena" by taxi	5,5 km from ATHENA	http://www.theyhotel.gr	120-140
Nafsika Coco-Mat Hotel	***	Kifisia, Northern Suburb, to "Athena" by taxi. Near "KAT" metro station	4,4 km from ATHENA	http://nafsika.coco-mat-hotels.com/	120-190
Athens Way Hotel		located at 500 meters from "Panepistimio" metro station		http://www.athenswayhotel.gr/	65-85
President Hotel	****	kifisias, kentro		http://president.gr	70-90
Airotel Stratos Vassilikos Hotel	****	Michalakopoulou, center		http://www.airotel.gr/en/Stratos-Vassilikos-793.htm	70-90

Airotel Alexandros Hotel	****	Timoleontos Vassou 8, center		http://www.airotel.gr/el/Alexandros-Hotel-791.htm	70-90
Golden Age Hotel	****	Michalakopoulou, center		http://hotelgoldenage.com/	70-90
Philippos	***	near Acropolis		http://www.philipposhotel.gr/main.php	70-90
Titania	****	near Syntagma		http://www.titania.gr	70-90
Amalia	****	near Syntagma		http://www.amaliahotelathens.gr	90-110
Herodion	****	near Acropolis		http://www.herodion.gr	80-100
Electra	****	Center, Ermou		http://www.electrahotels.gr/electra-hotel-athens/the-hotel	90-110
Fresh	****	near Omonoia metro station		http://www.freshhotel.gr	90-110
Athens gate	****	near Acropolis		https://athensgate.reserve-online.net/about	100-120
Periscope	****	10 minutes' walk from Syntagma square and a 5 minutes' walk from Evangelismos Metro station, center		http://www.yeshotels.gr	120-140
NJV Athens Plaza	*****	near Syntagma		http://www.njvathensplaza.gr/en	120-140
New Hotel	*****	located 200 meters from Synatgma		http://newhotel.athenshotels.it/	145-175

		square			

Learn more about:

Marousi: https://en.wikipedia.org/wiki/Marousi

Kifisia: http://www.athensguide.com/kifissia/

https://en.wikipedia.org/wiki/Kifissia