



EMVIS S.A.



National Research  
Council of Italy



Swedish  
Meteorological and  
Hydrological  
Institute



EOMAP GmbH &  
Co.KG



International  
Water Association



Burgundy School  
of Business



Ente Acque della  
Sardegna



US Environmental  
Protection Agency



Commonwealth  
Scientific and  
Industrial Research  
Organization



Melbourne Water



SatDek

**Day 3 - 17 November '21**

## **POTABLE WATER**

### **PrimeWater Multi-User Panel Stakeholders week (15-19 Nov)**

*How to repurpose satellite-derived water quality data and forecasts into water industry intelligent services.*

#### **ABOUT THE MULTI-USER PANEL**

The purpose of the MUP is to serve as an international panel of users providing expert feedback on Earth Observation (EO)-enabled services developed or extended in the context of PrimeWater and participate in the co-generation process itself through dialogue.

#### **THE OBJECTIVES OF THE MUP STAKEHOLDERS WEEK**

The main objectives of this workshop will be: (a) to provide an overview and update on the services that PrimeWater can offer to participants; (b) to understand how different sectors are using EO service to address issues such as Extreme hydrological events (EHEs) and harmful algal bloom (HAB) events and (c) to discuss the added value of PrimeWater products when addressing these issues.

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### **Useful links for Day 3**

- User preferences for Earth Observation services – access the survey [here](#)
- Mentimeter
  - 1<sup>st</sup> mentimeter: <https://www.menti.com/3bnm8mpb28>
  - 2<sup>nd</sup> mentimeter: <https://www.menti.com/vbbzh6y9qr>

# AGENDA

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## SESSION 1

17 November, 08:00 – 08:45 GMT

- Welcome and introduction – *Samuela Guida, IWA*
- Setting the scene – *Andrea Virdis, ENAS*
- Short to medium term forecasting of water quality for operational applications: opportunities and limitations - *Evangelos Romas, EMVIS*
- Q&A with audience – *all*

Mini-break

## SESSION 2

17 November, 08:45 – 09:30 GMT

Moderator: **Katharine Cross**, IWA

Presentations (10 minutes each):

- *Earth Observation in water safety planning – A Utility Perspective*, **Cláudia Guerreiro**, Aquapor
- *Chamber of Economy Polish Waterworks*, **Klara Ramm**, EurEau
- Title TBC, **Godfrey Barasa**, Nairobi City Water and Sewerage Company

Q&A with audience (10 minutes)

Mini-break

## SESSION 3

17 November, 09:30 – 10:15 GMT

Introduction to survey “User preferences for Earth Observation services” - *Lara Agnoli and Nikos Georgantzis, BSB*

Closing Remarks



### **Cláudia Guerreiro, Aquapor**

Claudia is Head of Projects & Innovation and Water Quality at Aquapor, with a background in innovation and water quality, which started out with a Master in Environmental Engineering. Her area of expertise is focused on water supply system risk assessment, through the implementation of Water Safety Plans, in projects that covered more than 700000 people in Portugal. As Head of Project and Innovation she coordinates projects aiming to develop, in partnership with R&D Centres, innovative urban water cycle challenges. She is passionate about innovation in the water sector and enjoys collaborative working to deliver successful projects.



### **Klara Ramm, EurEau**

Klara Ramm has been associated with the environmental protection sector, especially water and wastewater management. Since 2006, she has been cooperating with the Chamber of Commerce “Polish Waterworks”. She represents the Polish water utilities in the EurEau federation, which brings together the European community of this sector. She is a chair of the working group “Value of Water Services”. Klara Ramm implements national and international projects related to water management, is a member of the Board of the Horizon Europe Mission for healthy oceans, seas, coastal and inland waters.

### **Godfrey Masinde Barasa, Nairobi City Water and Sewerage Company**

Bio to be shared after the session.

## Presenters from PrimeWater Consortium

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**Katharine Cross, IWA**

Katharine has extensive experience in the water sector from global to local scale with a focus on climate resilience and adaptation, nature-based solutions, water-energy-food nexus, water governance and the digitalisation of the water sector. She has worked in Asia, Africa, Europe, North America, and South America with NGOs, government, and the private sector. She previously worked for the International Water Association developing and managing strategic programmes. Katharine is currently working for a number of organisations including IWA on climate-smart utilities, water wise cities and digital water, as a senior advisor for Water-Cities supporting the transition of cities towards sustainable water management, and as the Mekong Coordinator for the Australian Water Partnership.



**Samuela Guida, IWA**

Dr Samuela Guida is the IWA Strategic Programmes and Engagement Manager. She is responsible for coordinating IWA Strategic Programmes as well as projects, initiatives, and Communities of Practice related to the programmes. She is also responsible for the identification of and engagement with key global and regional partners who are aligned with IWA's strategic goals and for coordinating and supporting the functioning of IWA members' groups – working closely with member engagement team, regional offices, communications team, and other key staff at IWA. She has an academic background in Industrial Biotechnology and a Master's Degree from the University of Padova in Italy. In 2020, she obtained her PhD from Cranfield University (Water Science Institute, UK) with a Thesis on the removal and recovery of nutrients (ammonium and phosphorus) from wastewater through the ion exchange (IEX) process at demonstration scale.



**Apostolos Tzimas, EMVIS**

Apostolos Tzimas is the Managing Director of EMVIS SA (<http://emvis.gr/>). He has a deep knowledge of the water sector with particular focus on water infrastructure planning, development and management, working closely with public and private sector water bodies. In the field of water resources management, he provides specialized consultancy services and advisory work to competent central and regional authorities for issues related to the implementation of EU water related legislation. He is acting as technology purveyor in digital transformation projects in the water sector. He has co-ordinated the EU funded Research & Innovation project SPACE-O (<http://www.space-o.eu/>). Currently he is the co-ordinator of the EU flagship project for international cooperation of EU Copernicus Program PRIMEWATER (<https://www.primewater.eu/>) and IFOS Project (<http://emvis.gr/index.php/ifos>) funded by Innovation Norway. He is active member of authoritative professional associations (IWA, CIWEM, ISWA, IEMSS) and Technology Platforms (Water Europe).



**Evangelos Romas, EMVIS**

Evangelos Romas is a researcher in the field of hydraulic and hydroecological modelling. He is Head of the Research and Development unit of EMVIS SA with significant experience in 3D hydrodynamic and water quality models for surface water bodies, process simulation, automated calibration and data assimilation techniques, using satellite imagery and in-situ monitoring datasets. He has deep knowledge of major programming stacks and database systems, and professional experience in developing and applying customized ICT solutions in the field of water resources for the implementation of Environmental and Water related Directives. In recent EU-funded collaborative projects (SPACE-O, PrimeWater, IFOS), he has coordinated the architectural design and development of an operational platform for real-time forecasting of water quality characteristics in inland and coastal water bodies.



#### **Andrea Viridis, ENAS**

Andrea Viridis is a chemical engineer that has been working in ENAS for 25 years. During this period has carried on several activities as the following: Management and design of drinking water treatment plants; Experimental studies on reclaiming wastewater effluent for agricultural purposes and environmental protection in drought condition; Planning of the management of the water resources stored in the dams to be distributed to the end users for industrial, agricultural and drinking water purposes; Technical support to many international cooperation projects in matter of water resources management. Currently he is in charge of the organizational unit of ENAS devoted to the management of the data concerning the water quantity and quality distributed through the multisectoral water network system operated by ENAS.



#### **Lara Agnoli, BSB**

Lara Agnoli is Associate Professor of Wine Marketing and Economics at the Burgundy School of Business in Dijon, France. She holds a Ph.D. in Wine Economics and Rural Development from the University of Florence, Italy. Her research activity is mainly focused on the analysis of consumers and customers' decision-making process, choices and behaviours.



#### **Nikos Georgantzis, BSB**

Nikos Georgantzis studied Economics at the University of Piraeus and he has an MPhil from the University of Wales (UC Swansea) and an MA and PhD from the European University Institute (Florence, Italy). He is Professor of Experimental Economics and Director of the Wine and Spirits Business Lab at the School of Wine and Spirits Business, (Burgundy School of Business) in Dijon, France. He is a founding member of the academic Spinoff, Experimentia Consulting SL, which has been awarded two nation-wide prizes (2003 and 2006) for business creation proposals. For over 10 years, he has been the director of two PhD programs (Castellón and Granada) and has been a visiting professor in various universities (Crete, Cyprus, Paris II, Economics U. in Bratislava, Chapman, Autónoma de Colombia, U. Nacional in Bogotá, etc.). He has acted as a principal investigator for over 20 research projects funded by national and private organizations in Spain, the UK, France and the EU. Research interests range over a broad spectrum of topics, including Wine Economics, Economic Psychology, Microeconomics, Industrial Organization, Behavioural Economics, Labour Economics, Environmental Economics and International Economics, among others.