Healthy Sediments

14th International SedNet Conference

6–10 October 2025

Madrid, Spain

Preliminary Conference Programme

Healthy Sediments: What Are They and How Can They Be Achieved?

Sediments fulfil fundamental functions as riverbeds, aquatic habitats, and play an integral role in the biogeochemical cycles of aquatic systems. Due to their quality and quantity, sediments have key functions for indispensable ecosystem services, including important human uses of water bodies.

In line with the objectives of the European Water Framework Directive (WFD), Marine Strategy Framework Directive (MSFD), Mission Starfish 2030 (aiming to restore our oceans and waters), and the Green Deal (aiming for zero pollution), sediments must be healthy to help regenerate biodiversity, create good conditions for the provision of habitats and ecosystem services, and contribute to the good chemical and ecological status of water bodies. Water pollution causes sediments to function both as sinks and sources of pollutants. The remobilisation and transport of these polluted sediments can potentially negatively impact water quality and, consequently, the health of aquatic organisms. Additionally, activities such as mining and river regulation disrupt the natural sediment flow. To meet the objectives of European environmental policies, it is essential to achieve healthy sediments. We therefore need to define what constitutes healthy sediments and, thereafter, protect and, where needed, restore their health and balance. A strategy is needed to ensure the sustainable management and use of sediments.

In summary, healthy sediments are key to supporting life, maintaining biodiversity, enriching soil, and sustaining ecosystems. But how can the health of sediments be defined? What indicators can be used for assessment? The conference will address the critical topic of "Healthy Sediments" through six thematic sessions:

1. **Sediment Quality and Risk Assessment**
2. **Sediment Flows**
3. **Nature Based Solutions and Beneficial Use**
4. **Sediment Literacy & Citizen Science**
5. **Data Collecting, Sharing and AI**
6. **Sediment Management Concepts and Policy**

To register for the conference, please complete the registration form available via the following link: https://form.jotform.com/250964471813360.

Pre-conference Programme

MONDAY, 6 OCTOBER 2025

SedNet Working Group Meetings	
9:00 – 17:00	Working Group Sediment in Circular Economy (CE)
t.b.c.	Working Group Sediment Quality
t.b.c.	**Icebreaker**

Conference Day 1

TUESDAY, 7 OCTOBER 2025

8:30 – 9:00	**Registration**	
9:00 – 10:20	**Plenary Opening Session** • Welcome by SedNet chairs • Presentation by local organization • Presentation by conference team on 'Healthy Sediments'	
10:20 – 11:00	**Coffee break**	
11:00 – 12:40	**Session 1** **Sediment Quality and Risk assessment**	**Session 2** **Sediment Flows**
12:40 – 14:10	**Lunch**	
14:10 – 15:45	**Session 1** *continued*	**Session 2** *continued*
15:45 – 16:15	**Coffee break**	
16:15 – 18:00	**Session 1** *continued*	**16:15 – 16:55** **Session 2** *continued* **17:15 – 18:00** **Session 3** **Nature Based Solutions and Beneficial Use**
18:00 – 20:00	**Reception and meet the poster presenters at their poster**	

Conference Day 2

WEDNESDAY, 8 OCTOBER 2025

9:00 – 10:35	**Session 1** *continued*	**Session 3** *continued*
10:35 – 11:05	**Coffee break**	
11:05 – 12:35	**Session 1** *continued*	**Session 3** *continued*
12:35 – 14:00	**Lunch**	
14:00 – 15:00	**Session 4** **Sediment Literacy & Citizen Science**	**Session 3** *continued*
15:00 – 15:30	**Coffee break**	
15:30 – 16:55	**Session 4** *continued*	**Session 6** **Sediment Management Concepts and Policy**
16:55 – 17:50	**Meet the poster presenters at their poster**	
20:00 – 23:00	**Conference dinner**	

Conference Day 3

THURSDAY, 9 OCTOBER 2025

9:30 – 10:35	Session 5 Data Collecting, Sharing and AI	Session 6 *continued*
10:35 – 11:05	Coffee break	
11:05 – 12:25	Session 5 *continued*	Session 6 *continued*
12:25 – 14:05	Lunch	
14:05 – 15:20	Session 5 *continued*	Session 6 *continued*
15:20 – 15:50	Coffee break	
15:50 – 16:20	Closing session	
	Goodbye drink	

Excursion Day

FRIDAY, 10 OCTOBER 2025

Excursion details t.b.c.

Hotel recommendations

Ilunion Pio XII

Avenida de Pio XII, 77, Chamartín, 28016 Madrid

1,5 km walk to the conference location

Hotel Mirador de Chamartín

Del Arte, 14 (esquina Caleruega, 67), Ciudad Lineal, 28033 Madrid

1,8 km walk to the conference location

Crisol Vía Castellana

Paseo de la Castellana, 220, Chamartín, 28046 Madrid

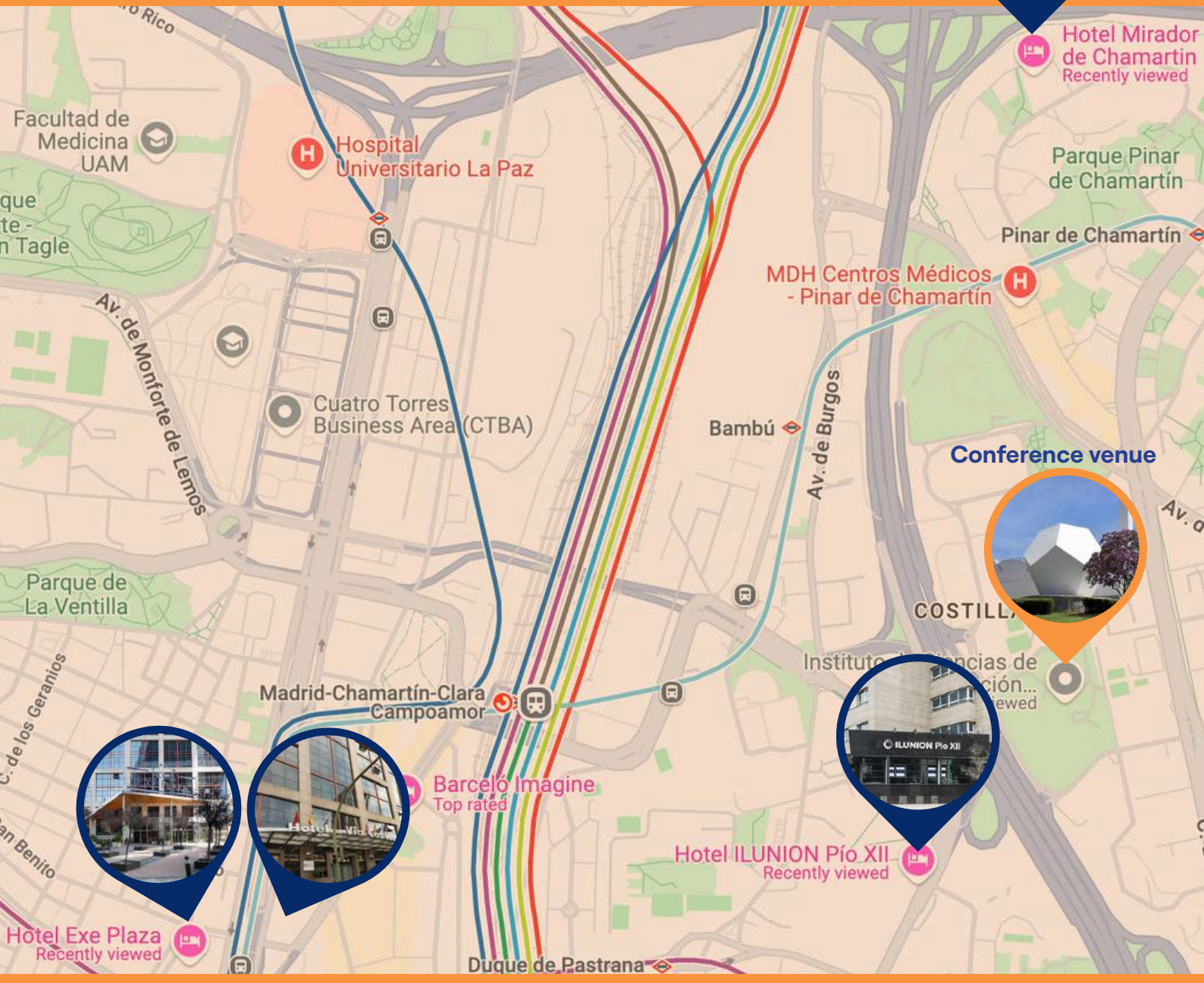
2,5 km walk to the conference location or with bus 107

Exe Plaza

Paseo de la Castellana, 191, Tetuan, 28046 Madrid

2,5 km walk to the conference location

Hotel recommendations on the map



The nearest metro station to the Institute is Bambu, which connects directly to the center of Madrid. If you choose to stay in the city center, you can take the metro to Bambu station. From there, it is a 20-minute walk (1,3 km) to the Conference venue.

Conference Organisation

The conference is co-organised by SedNet and Instituto de Ciencias de la Construcción Eduardo Torroja- IETcc.

The Instituto de Ciencias de la Construcción Eduardo Torroja (IETcc) is a prominent Spanish research institution dedicated to the science and technology of construction. Founded in 1934 and named after the renowned civil engineer Eduardo Torroja, the institute is part of the Spanish National Research Council (CSIC). The CSIC is Spain's largest public research institution, founded in 1939. It operates under the Ministry of Science and Innovation, conducting multidisciplinary research across physical sciences, life sciences, social sciences, and humanities. CSIC plays a key role in advancing scientific knowledge and innovation in Spain and internationally. The IETcc focuses on advancing knowledge in construction materials, structural engineering, and building technologies, with a strong emphasis on sustainability, innovation, and improving the durability and safety of built environments. Its multidisciplinary research supports the development of standards, best practices, and cutting-edge solutions in the construction industry.

Conference Venue

This conference will only be a physical event. The conference is organised at the Instituto de Ciencias de la Construcción Eduardo Torroja (IETcc), in Madrid, Spain. Madrid, the capital of Spain, is a vibrant and historic city known for its rich cultural heritage, stunning architecture, and lively atmosphere. As the political, economic, and cultural centre of the country, Madrid is home to iconic landmarks like the Royal Palace, Prado Museum, and Puerta del Sol. The city is renowned for its bustling streets, world-class art galleries, diverse cuisine, and vibrant nightlife, offering a blend of tradition and modernity. With a population of over 3 million, Madrid is a dynamic metropolis that embodies the spirit of Spain.

The address of the conference venue is: C. de Serrano Galvache, 4, Cdad. Lineal, 28033 Madrid.

Language

The conference language will be English. No translation facilities will be provided.

Excursion

On the day after the conference, Friday, the 10thof October, an excursion will be organised. Details will be announced in the final conference programme.

Conference Fee

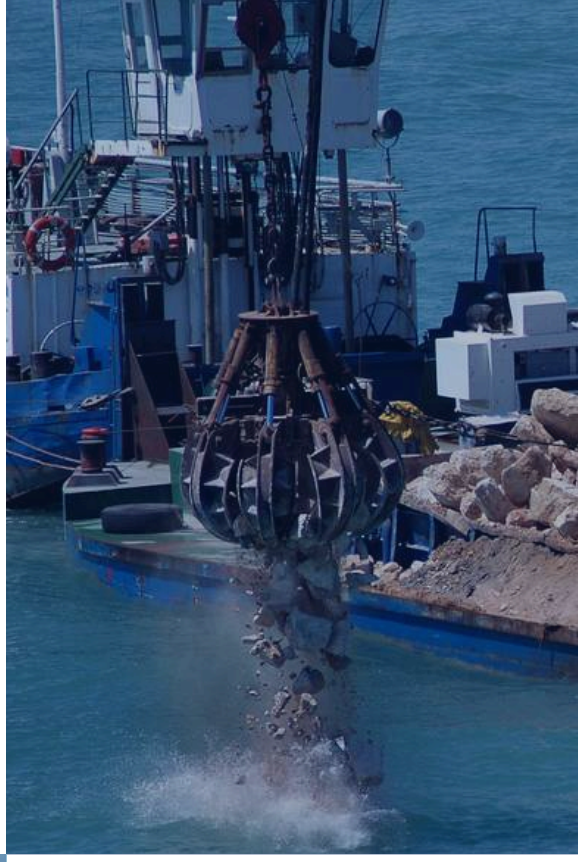
Regular fee: € 550,00 excl. VAT
Students: € 150,00 excl. VAT

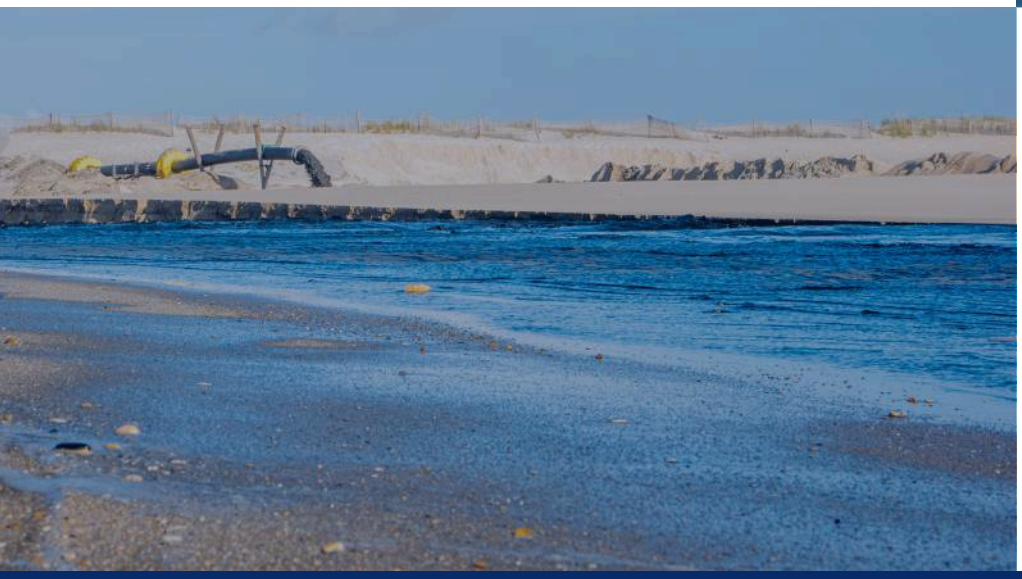
If a student has submitted an abstract that has been selected for oral presentation, then his/her fee will be waived.

The fee includes admission to the 3-day conference programme, social events, conference dinner on the 8th of October and an excursion on the 10 of October. Details about the social events and excursion will be provided in the preliminary conference programme.

Registration

To register, please follow the link provided below: https://form.jotform.com/250964471813360





Further Information

SedNet Secretariat,
Chayenne van Dijk

E-mail: secretariat@sednet.org
Website: www.sednet.org

SedNet is the European network which aims to incorporate sediment issues and knowledge into European strategies to support the achievement of good environmental status or potential and to develop new tools for sediment management. Its focus is on all sediment quality and quantity issues at the river-sea system scale, ranging from freshwater to estuarine and marine sediments. SedNet brings together sediment professionals from science, administration, industry and consultancy. It interacts with the various networks in Europe that operate at national or international level or that focus on specific fields (such as science, policymaking, sediment management, industry, education). Special attention was devoted in recent years to the integration of sediment management in the Water Framework Directive implementation process, and particularly in the River Basin Management Plans.

For more information about SedNet visit the website: **www.sednet.org**

Session 1: Sediment Quality and Risk Assessment

Titles are not in order of presentation.

Presentations		
Title	**Presenter**	**Organisation**
A regional systemic approach to assess spatial distribution, transfer, exposure and remediation of wide-spread PFAS pollution in Willebroek	T.b.c.	Flemish Public Waste Agency, Flemish Environmental Agency
Assessing the impact of dredge disposal on different ecosystem components in the Belgian part of the North Sea	Stephie Seghers	Flanders Research Institute for Agriculture, Fisheries and Food
Changes in trends of the seawater column parameters and sediment elements' concentrations from 2005 to 2024 in marinas located in the Adriatic Sea	Jasmina Obhođaš	Association Lijepa Naša, Institute Ruđer Bošković
Coastal microplastic monitoring: Harmonized protocols for sampling and analysis	Danijela Joksimović	Institute of marine biology-UoM
Ecotoxicological assessment of river sediments downstream of a firefighting training site	Rébecca Beauvais	Swiss Centre for Applied Ecotoxicology
Electrokinetic decontamination of Tributyltin (TBT) in dredged sediment	Marta Castellote	Eduardo Torroja Institute of Construction Sciences
Emerging contaminants (ECs) in inland water sediments of the anthropogenically affected areas in Poland. A One Health perspective	Pilar Ortiz Sandoval	University of Granada & AGH University of Krakow
Emissions - The long-term memory of sediments	Arjan Wijdeveld	Deltares
Long-Term Monitoring of Chemical Sediment Composition in the German Bight: Insights into Past and Future Trends and Changes	Anna Plass	Federal Maritime and Hydrographic Agency
On the importance to test sediment toxicity in rare earth element enriched waters	Susanne Heise	HAW Hamburg
Quantitative analysis of PFAS distribution in aqueous environmental samples of the Hungarian section of the Danube River	Esther Orenibi	Eötvös Loránd University
Scaling complexity: novel hydraulic flume experiments on the interaction of sediments with nutrients and pollutants	Peter Flödl	Institute of Hydraulic Engineering and River Research
Sediment pollution, chronic toxicity and metal bioaccumulation in freshwater macroinvertebrates from Pb/Zn mining districts	Leire Méndez-Fernández	University of the Basque Country
Sediment risk assessment in Europe: comparison of environmental regulations	Carmen Casado-Martinez	Swiss Centre for Applied Ecotoxicology
Study of PFAS contamination in the Garonne and its watershed	Quentin Dubois	University of Bordeaux
The current situation with TBT in Sweden – contamination situation, sources, transport pathways and ongoing research	Tobias Porsbring	Swedish Geotechincal Institute

Session 1: Sediment Quality and Risk Assessment

Presentations		
Title	**Presenter**	**Organisation**
The Rhône Sediment Observatory (OSR) monitoring network for suspended sediment and contaminants long-term assessment	Marina Coquery	INRAE
Trends of per- and polyfluoroalkyl substances recorded in sedimentary archives upstream and downstream of the Lyon metropolis	Brice Mourier	University of Lyon
Tribochemical decomposition of aromatic pollutants in dredged sediment	Roman Nevshupa	Eduardo Torroja Institute of Construction Sciences
Posters		
Title	**Presenter**	**Organisation**
Microplastic pollution in a special protection area for migratory birds	Francesca Fabrizi	Institute for Marine Biological Resources and Biotechnology (IRBIM)
Organic ultraviolet filters (OUVFs) in sediments of freshwater bathing areas in Southern Poland Current sink and future risk?	Marta Koziarska	AGH University of Krakow
Field Measurement of Greenhouse Gas Emissions and Gas Mediated Contaminant Dispersion from Fiberbanks	Paul Frogner-Kockum	Swedish Geotechnical Institute
Mercury contamination from sediments to the terrestrial ecosystem. The case study of the Toce River (Northern Italy)	Laura Marziali	National Research Council, Water Research Institute (CNR-IRSA, Brugherio)
Bioessays with the European amphipod Gammarus fossarum to assess freshwater sediments toxicity	Cécile Luc-Rey	Biomonitoring Aquatic Environment & RiverLy - Fonctionnement des hydrosystèmes
Ammonium in marine sediments: from a confounding factor in ecotoxicological assessments to a contaminant?	Lorenzo Morroni	ISPRA, DISVA
Assessment of Rare Earth Elements (REEs) Toxicity in Sediment Environments Using Caenorhabditis elegans	Zhenghua Wang	Hunan University of Science & Technology and Hamburg University of Applied Science
Gammarus fossarum as European amphipod species for substance toxicity assessment using spiked sediment	Anthony Mathiron	BIOMAE
Potantial Ecological Risk Assesments in the Gediz Delta derived by 210Pb and 137Cs sediment dating	İlker Sert	Institute of Nuclear Sciences
eDNA metabarcoding for the assessment of benthic macroinvertebrate biodiversity in Mediterranean coastal lagoons	Maurizio Pinna	University of Salento & NBFC
The NRRP Return Project: Environmental integrated monitoring plan for both traditional and emerging contaminants	Sarah Vercelli	University of Genoa, Casaccia Research Center, ENEA Portici Research Center
Preliminary ecotoxicological analysis to optimize sediment quality characterization of the Ravenna Port, Italy	Chiara Fratini	Bioscience Research Center and University of Palermo

Session 1: Sediment Quality and Risk Assessment

Posters		
Title	**Presenter**	**Organisation**
Red mud: hazardous waste or secondary raw material with potential?	Mirza Nuhanović	University of Sarajevo
Molecular speciation and transformation of particulate phosphorus within the fluvial suspended sediments along an agricultural catchment stream (t.b.c.)	David. W O'Connell	Trinity College Dublin
Exploration of sediment research by water authority HHNK within its Water Framework Directive Impulse Program	Chantal van Drimmelen	Hoogheemraadschap Hollands Noorderkwartier
Historical analysis of micro plastics and heavy metals from the sediment records in İzmir Bay	Gunseli Yaprak	Ege University
Measurement of Microplastics in Sand Samples Taken from Azerbaijan Coasts of the Caspian Sea	Famil Humbatov	Ministry of Science and Education of the Azerbaijan Republic
Abundance of microplastic pollution in sediments of different aquatic ecosystems in Montenegro	Neda Bošković	University of Montenegro
Metals and phosphorus in riverine sediments from catchments under distinct environmental pressures potential availability assessment	Anabela Reis	Department of Geology, School of Life and Environmental Sciences, University of Trás-os-Montes e Alto Douro
Ostreopsis species noticed for the first time in the area of Boka Kotorska Bay (South Adriatic Sea)	Dragana Drakulović	University of Montenegro
Spatial distribution of 40K, 137Cs, 226Ra and 238U in the coastal and shelf sediments of the western Black Sea	Krasimira Slavova	Bulgarian Academy of Sciences
Environmental characterization for sediment management the case of the Port of Civitavecchia (Rome, Italy)	Cristian Mugnai	ISPRA
Rock-glacier springs as key water sources for the future is trace element contamination a risk	Laura Marziali	Water Research Institute, National Research Council (IRSA-CNR, Brugherio)
The new breakwater of the Port of Genoa (Italy): a complex marine environmental monitoring strategy	Sonya Montini	University of Genoa
Reconstruction of historical events by studying radionuclides and chemical concentrations in a sediment core at North Cretan deep basin, Greece	Christos Tsabaris	Hellenic Centre for Marine Research, Institute of Oceanography
Nuclear and related analytical techniques for environmental safety of the Russian coastline of the Black Sea: marine bottom sediments case study	Marina Frontasyeva	NAA and Applied Research Division of Nuclear Physics
Understanding the Heavy Metal Pollution Pattern in Sediments of a Typical Small- and Medium-Sized Reservoir in China	Qiushi Shen	Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences
The littoral wetland to be a higher phosphorus sink and internal source than the open water area in a diversion input lake	Cheng Liu	Chinese Academy of Sciences, Nanjing

Session 2: Sediment Flows

Presentations		
Title	**Presenter**	**Organisation**
Past, present and future suspended sediment transport in large German rivers	Thomas Hoffmann	Federal Institute of Hydrology
Sediment Dynamics in an Alpine River A Case Study from the Ötztal, Austrian Alps	Sabrina Schwarz	BOKU University
Analysis of sediment transport in Ebro Delta channels to optimise the irrigation network efficiency in diverting sediment to vulnerable areas	Josep Coma	HAEDES
Tracing gravel in the German Upper Rhine using radio acoustic transmitters – findings from a preliminary study	Martin Struck	Federal Waterways Engineering and Research Institute
Wet season sediment plume distribution across northern Australia; primary productivity and climate change	Paula Cartwright	James Cook University
Glacio-fluvial sediment connectivity: A catchment-scale perspective in a rap-idly retreating glaciated area in the Austrian Alps	Michael Paster	BOKU University
Urslau case study A comparison of transport equations with long-term monitored bedload data	Andrea Lammer	Institute of Hydraulic Engineering and River Research
Exploring the role of sediment availability in the morphological response during floods, the case of the Tenetra stream (Marche, Italy)	Erica Guidi	University of Urbino
Landscape Reading of River Systems Exploring the Geological History of Alpine Rivers	Lisa Schmalfuss	Institute of Hydraulic Engineering and River Research, University of Natural Resources and Life Sciences
Sediment Transport and Metal Dynamics in an Acid Mine Drainage-Affected Estuary Insights from the Ria of Huelva	M Dolores Basallote	Institute of Marine Sciences of Andalusia
Posters		
Title	**Presenter**	**Organisation**
Morphological changes after sequential experimental floods the case study of the Spöl River, Switzerland	Maha Sheikh	University of Bern & Swiss National Park
Abrasion in nature a single particle analysis	Dorian Shire-Peterlechner	Institute of Hydraulic Engineering and River Research
Influence of pre-existing bed on diluted turbidity current propagation	Shaheen Akhtar Wahab	Delft University of Technology
Investigating Sources and Transport Dynamics of Suspended Sediments in a Mediterranean Forested Catchment	Diletta Chirici	University of Florence
Continuous Sediment Transfer – Restoring Sediment Continuity in impounded Waters	Lara Gehrmann	Hülskens Sediments GmbH
Assessment of bioavailable metal/loids in metal-rich estuarine sediments using passive samplers and sequential extraction techniques	Carlos R Cánovas	University of Huelva

Session 3: Nature Based Solutions and Beneficial Use

Presentations		
Title	**Presenter**	**Organisation**
Beneficial use options for dredged sediments circular economy and climate change-based assessment and classifications	Bruno Lemière, Arjan Wijdeveld, Julia Gebert (t.b.c.)	monitor-env, Deltares, TU Braunschweig
Field labs sustainable use of sediments in the Rhine Meuse delta	Marco Wensveen	Port of Rotterdam Authority
Reuse of dredged sediments from hydropower reservoirs in France: Recent experiments highlighting current enablers and barriers	Emmanuel Branche	EDF
River Works Soil-Based Programming in the River Area	Maria Barciela-Rial	HAN University of Applied Sciences
Description of and criteria for nature-based solutions involving sediments that reduce erosion as well as slope instability	Johan Nyberg	SGI, Dept. for Natural hazards and geodata
LIFE NARMENA: Nature based remediation techniques for heavy metals in sediment – results of a constructed wetland in the Winterbeek site	Jan De Vos	ABO nv
Soil carbon and nutrient addition from dewatered sediment application to agricultural land –benefits and synergies for dredging and Net Zero	Richard Lord	Net Zero Industry Innovation Centre
Aquaforest: a Nature-based-Solutions for restoring and developing new mangrove habitats through eco-engineering	Maria Ibanez	Haedes
First morphological response of a large nearshore nourishment project using fine sand, Knokke, Belgium	Anne-Lise Montreuil	Antea Group Belgium
Dewatering of Dredged Sediment by Natural Solutions	Miguel de Lucas	Medeina Engineering
One Person's Medicine is another Person's Poison Carnon Valley – Metal Impacted Sediments	Philip Studds	Ramboll
Dredging project and environmental monitoring programme in the O Burgo Estuary (A Coruña, Spain)	Carlos Gil Villar	Demarcación de Costas de Galicia, MITECO
Posters		
Title	**Presenter**	**Organisation**
Enhancing Dike Safety with Ripened Dredged Sediment	Maria Barciela-Rial & Wouter van de Star	HAN University of Applied Sciences, Deltares, EcoShape
Assessing the Effectiveness of Freshwater Rinsing in Reducing Salinity of Marine Dredged Sediment for Ceramic Industry Applications	Claudia Mc Leod	HAN University of Applied sciences
Rapid optioneering and assessment of NBS for sediment management at the basin scale (t.b.c.)	Alexander Nicholson	Arup

Session 3: Nature Based Solutions and Beneficial Use

Posters		
Title	**Presenter**	**Organisation**
Sustainable navigation in Malamocco-Marghera navigation channel (Venice Lagoon)	Sina Saremi	DHI
Valorization of Dredged Materials as Sustainable Construction Resources: An Overview (t.b.c.)	Amine el Mahdi Safhi	Østfold University College
Sustainable reuse of posidonia oceanica fibers and dredged marine sediments for lightweight and eco-friendly mortars (t.b.c.)	F. Dimunn	Politecnico di Bari
Transforming Sediments into A Sustainable Material for Blocks Production	Hugo Ekkelenkamp	NETICS B.V
In-Situ capping of contaminated sediments in Puddefjorden, Bergen Harbour, Norway, using rock materials from tunnel boring machine (TBM)	Bjørn Christian Kvisvik	COWI
Rheology and Settling Processes of Mud for Defining Critical Limits for Navigability in the Port of Felixstowe	Cornelius Ravikumar	Delft University of Technology
Organic Matter Decomposition During Sediment Ripening	Nazeir Elnaker	Delft University of Technology
Capillary Suction Time: Assessing the Potential of a Rapid, Small-Scale Method for Determining the Material Properties of Dredged Sediment	Maria Barciela-Rial	HAN University of Applied Sciences
Towards carbon neutral construction using Olivine and Calcined Sediment	Marc Antoun	NETICS B.V.
Open field ripening reduces shrinkage and increases compactibility of dredged sediment (t.b.c.)	Julia Gebert	Delft University of Technology & Technische Universität Braunschweig
Using stable isotope technology for environmental safety and sustainable development of water resources in Georgia	George Melikadze	M. Nodia Institute of Geophysics, Ivane Javakhishvili Tbilisi State University
Woody plants as accumulators of toxic elements from soil	Marina Frontasyeva	Joint Institute for Nuclear Research

Session 4: Sediment Literacy & Citizen Science

Presentations		
Title	**Presenter**	**Organisation**
A Citizen Science Method Engaging non-experts in monitoring river sediment and morphological changes	Eva Manzenreiter	BOKU University
Sediment Literacy Empowering Future Generations for Sustainable Interactions with Natural Resources in an Increasingly Complex World	Bianca Pischke	beconpe Consulting
Dirt or no Dirt, that is the Question - Improving Citizens Sediment Literacy	Ivonne Stresius	Faculty of Life Science, Hamburg University of Applied Sciences
Citizen Science and Macroinvertebrate Monitoring Key Learnings from the CS4Rivers Project	Chiara Vitillo	University of Siena
Remediation of polluted marine sediments in Bergen city harbour; a collaborative approach to environmental conservation	Anne Christine Knag	Agency for Urban Environment, City of Bergen
The Mediterranean Remediation and Innovation Hub (MEDREHUB)	Raffaele Vaccaro	Nisida Environment Srl

Session 5: Data Collecting, Sharing and AI

Presentations		
Title	**Presenter**	**Organisation**
LandSeaLot: improving (also sediment dynamics) observation capacity in the land-sea interface area	Jos Brils	Deltares
Using a web application to ensure quality-assured data entry into an open access sediment contaminant database	Richard Heal	Cefas
Introducing the Sediment Management Framework Application	Claire Mason	Cefas
Tools to Inform Sediment Assessment, Management, and Regulation: Book Update	Richard J Wenning	Wenning Environmental LLC
Rivers do not only transport sediment Monitoring and quantifying the instream large wood regime combining field and drone surveys and AI techniques	Virginia Ruiz-Villanueva	University of Bern
Streamlining erosion and sediment transport modelling the 'pywatemsedem' package	Sacha Gobeyn	Fluves
Suspended Sediment Load Prediction using Machine Learning models	Taha Hamadene	Nuclear Safety and Radiation Protection Authority
The synergistic use of bathymetric measurements and ADCP for the hydromorphological monitoring of waterways	Arseni Maxim	"Dunarea de Jos" University of Galati
Time-integrated sediment quality monitoring in large rivers. Temporal variations in suspended and floodplain sediments in the Drava River	Samdandorj Manaljav	Eötvös Loránd University

Session 5: Data Collecting, Sharing and AI

Posters		
Title	**Presenter**	**Organisation**
Evaluation of a Continuous Sediment Ebullition Monitor	Stacy Hopkins	ExxonMobil Environmental and Property Solutions Company
On-site sediment toxicity monitoring using a field operable biosensor	Robert Marks	The Ben Gurion University of the Negev
Enhancing Harmful Heavy Metal Contamination Profiling in Coastal Sediments: A Modified Geochemical Index Approach	Tatiana Gonzalez Cano	Korea Institute of Ocean Science and Technology, University of Science and Technology, Admiral Padilla Naval Academy of Cadets

Session 6: Sediment Management Concepts and Policy

Presentations		
Title	**Presenter**	**Organisation**
Data-driven approach to implement an integrated water and sediment management strategy in Flanders	Katrien Van de Wiele	VITO & OVAM
Spanish Framework for coastal sediment management. Regulatory conditions and impact on sediment balance	Ana Lloret	CEDEX, Centre for Port and Coastal Studies
Assessment of dredged sediments in the light of the WFD-EQS. Justified trouble due to advanced assessment tools	Henning Schroeder	Federal Institute of Hydrology
iNNO SED - Innovative Sediment Management in the Danube River Basin	Baranya Sándor	Budapest University of Technology and Economics
Flanders policy continues to focus on an integrated approach of contaminated sediments : legislation and code of good practice	Katrien Van de Wiele	OVAM
Using sediment samples to assess substances in relation to the Water Framework Directive (WFD)	Signe Marie Ingvardsen and Thomas Ruby Bentzen	COWI
The sediment's role in the management of beach and recreational use of water	Elena Romano	ISPRA
Circular management of dredged sediments from port maintenance	Arash Sepehri	Delft University of Technology
Sediment management in hydropower reservoirs on the Drava river	Polonca Ojsteršek	Dravske elektrarne Maribor d.o.o.
Banning the dumping of polluted sediments - The French choice	Xavier Dolbeau & Philippe Bataillard	EGIS & BRGM
Comparison of Freshwater Sediment Quality Guidelines (SQGs) for potentially toxic elements (PTEs) Historical Perspectives and Future Directions	Ahmedin Hiya	Eötvös Loránd University

Session 6: Sediment Management Concepts and Policy

Presentations		
Title	**Presenter**	**Organisation**
DanubeSediment_Q2 - Sustainable, Integrated Transnational Sediment Quantity and Quality Management in the Danube River Basin	Helmut Habersack	University of Natural Resources and Life Sciences, Vienna
Sediment management concept of the River Elbe (Germany) – implementation status and an example for supporting research (t.b.c.)	Marvin Brinke	Federal Institute of Hydrology (BfG)
Optimization of Sediment Restoration Through Combined Remedy and Risk Management	Senda Ozkan, Steve McGee, Keir Craigie, Gary Braun (t.b.c.)	Tetra Tech
Posters		
Title	**Presenter**	**Organisation**
Impacts of Sterilization and Organic Matter Removal on the Rheology and Settling Behavior of Fluid Mud	Fatemeh Chamanmotlagh	Delft University of Technology
Durability and Performance of Concrete with Dredged Marine Sediments in Seawater Environments (t.b.c.)	Habiba LHARTI	University of Montpellier
AMORAS sediment treatment Estimate of sediment import through lock exchange at the right-bank port of Antwerp	Bart De Maerschalck	FlandersHydraulics
High concentrations of certain trace metal elements in Martinique port sediments	Julie Droit	CEREMA
Exploratory Pilot Study of a Novel Remedial Dredging Technology for Removal of Contaminated Sediment	Martijn van Ruiten	Hydrex Research Center
Regional Geochemical Baseline for the Southern Madeira Island Challenges and Implications for Environmental Assessments (t.b.c.)	Sandra Moreira	Hydrografic Institute & Institute Dom Luiz
Sustainable sediment management through the use of innovative geosynthetics	James Philip Feest	Huesker
Adaptive Management for environmental aspects of dredging and reclamation projects Reactive and Pro-Active (t.b.c.)	Boudewijn de Crop	IMDC