

DEEP-SEA MINING Information Portal

NEW



Providing the industry with a unique online resource on the potential environmental impacts of deep-sea mining

The increasing interest in deep-sea mining, from industry and international organisations, has prompted the CEDA Environmental Commission to establish this invaluable resource for anyone who needs to stay up-to-date on the topic from a sustainable dredging perspective.

Among other materials, it contains a high-level assessment of potential environmental impacts and suggested mitigation measures. It assumes certain parameters to ensure that it can be used as widely as possible.

Visit the Deep-Sea Mining Information Portal to find out more about:



- **The deep-sea mining industry in context**
- **CEDA involvement:** Outline of CEDA's links to the industry and how CEDA members are involved throughout the sector
- **Legal frameworks:** Summary of the key regulatory instruments and legal frameworks that govern deep-sea mining operations
- **Environmental management strategy:** Guidance from the International Seabed Authority (ISA) on the use of environmental impact assessments, and details of the outputs from recent workshops on environmental management strategies
- **Introduction to the typical equipment used in deep-sea mining operations**
- **Interactive deep-sea mining infographic:** online graphic providing information on the potential environmental impacts associated with deep-sea mining. Available to download
- **Summary of future innovations and research**



<https://dredging.org/resources/ceda-publications-online/deep-sea-mining-information-portal>

CEDA's Checklist for Successful Dredging Management – See it first at CEDA Dredging Days 2017

One focus of interest for the Dredging Management Commission (DMC) is how the same issues are sometimes experienced differently, by different parties, across the industry. In a bid to share those experiences, and help the industry learn from its mistakes, the DMC has put together the CEDA Checklist for Successful Dredging Management.

By highlighting these differences, the DMC aim to help the various players better understand each other's perspective, come to mutually beneficial solutions, and improve the overall management of dredging projects.

DMC member, Kathleen de Wit, said "As we know, we learn the most of our mistakes and, in an ideal world, the same mistakes shouldn't be made twice... That's why DMC thought it would be good to start with our CEDA members and ask them about their own experiences on the things that have gone wrong in their projects. We wanted to know what happened, when and why... In particular, we wanted to know how it could have been avoided. We were grateful for their honesty, which has allowed us to collect some valuable inputs, and distil them into an undoubtedly interesting checklist of possible project 'booby traps' for you. Forewarned is forearmed."



Don't forget to pick up your personal copy of the Checklist while you're at Dredging Days 2017.

You can put it to use straightaway. Also, while you're at the event, why not take the opportunity to propose further topics using the CEDA Dredging Days 2017 app. You can also let us know what you think should be in the next edition of the Checklist.

Expert Working Group Highlights the Importance of Sediments as a Valuable Resource

Dredging is essential for the maintenance and development of ports, harbours and waterways to improve navigation, remediation and flood management. An unavoidable part of the process is the generation of large volumes of sediment.

Historically, disposal at sea has been the most common method of sediment management employed by many countries. However, over the last few decades, there has been an increasing recognition that sediment is a resource that can provide benefits to environmental and engineering programmes. Recent advances, in what we know about the natural environment and its processes and dynamics, have helped to inform the innovative uses of sediment to support those programmes.

CEC takes a proactive approach

Attitudes towards the environment have become more proactive. Environmental considerations, nature-based approaches, value engineering and mutually beneficial solutions, are increasingly seen as an integral part of dredging projects from an early stage. The current emphasis on sustainable

development, by governments, helps to reinforce the importance of this approach. The coordinated and beneficial use of sediments derived from dredging projects is now a key sustainable practice in the marine environment.

As a result, this year, the CEDA Environment Commission set up a Working Group on Beneficial Sediment Use (WGBU). The WGBU includes experts on beneficial sediment use from various countries and connects CEDA with its sister organisations, WEDA and EADA. The group has been tasked with preparing a CEDA Information Paper, including a series of case studies, on the current status and applications of beneficial sediment use. The paper will highlight the importance of sediments as a valuable resource, for sustainable development, and will invite other expert and practitioners in the field to share their



experience, case studies and lesson learned.

In addition, the WGBU will prepare a Position Paper supporting the theory that the beneficial use of contaminated sediments should be based on the ability to create socio-economic values, manage risk, and encourage natural functions.

Sneak preview

If you're attending Dredging Days 2017, why not check out the presentation *'Beneficial use of sediments in the context of sustainable development: today and tomorrow'*, which will preview the two proposed papers.

Working Group on Sea-floor Integrity prepares for their next meeting

The Marine Strategy Framework Directive (MSFD, 2008/56/EC) establishes a framework within which Member States take the necessary measures to achieve, or maintain, good environmental status (GES) in the marine environment. Several of the 11 qualitative descriptors, which determine GES, are directly or indirectly linked to dredging works and marine construction. Dredging is directly linked to descriptor D6 on sea-floor integrity which states: 'Sea-floor integrity is at a level that ensures that the structure and functions of the ecosystems are safeguarded and benthic ecosystems, in particular, are not adversely affected'.

However, the dredging community is still not as familiar with descriptor D6 as it could be so, the CEDA Environment Commission (CEC) set up a Working Group on Sea-floor Integrity (WGSi) to address it in a

CEDA information paper. The paper will cover what is meant by sea-floor integrity, and why it is important, and the role of the seafloor for marine environments (eco-engineers). It will then move on to discuss how dredging affects sea-floor integrity and how to assess the effects. Managing risk and opportunities will also be covered and there will be useful case studies and recommendations included.

The Working Group works closely with the MSFD NAVI Task Group through the CEDA representatives on NAVI, Chantal Martens (NAVI Chair) and Dafydd Lloyd Jones. Their second face-to-face meeting will take place in November to discuss the first drafts of the paper. The final product will be published in the summer 2018.



UPDATE

Good Environmental Status Revision

The review of Commission Decision 2010/477/EU concerning MSFD criteria for assessing good environmental status (GES) has been completed and Commission Decision 2017/484 now repeals the previous decision. The revised GES decision aims to more precisely define criteria for GES, including setting quantifiable boundaries for GES criteria whenever possible, methodological standards and specifications and standardised methods for monitoring and assessment. It also aims to provide more flexibility, including the application of a risk-based approach, and to increase (sub)regional collaboration and the maximal use of existing EU legislation such as the Water Framework Directive.



Full details of the MSFD update will be published and available for CEDA Members soon.

New Working Group on Contracts

The contracting environment, for dredging and offshore works, is developing with regards to the way in which projects and schemes are funded, procured and delivered. Financial constraints, from funders and owner-organisations, amongst others, are effectively reducing margins and increasing commercial risks. As a result contractors and suppliers are having to adapt how they work, manage risk, and procure services.



DMC meet to finalise the ToR for the Working Group

These constraints are changing procurement and contracting methods, and an increasing volume of work is being carried out using turnkey/EPC-type models. The dredging and offshore industry, and specifically the key parties involved in agreeing and delivering contracts, needs to keep up-to-date with developments.

To facilitate this, the CEDA Dredging Management Commission (DMC) will set up a working group to prepare a guidance paper on contracting and

procurement methods. It will be comprised of specialists from across the CEDA region with particular expertise in procurement, contract selection and contract management, for dredging and offshore works. Where appropriate there may also be input from industry institutions, and experts, such as ICE and FIDIC.

The Terms of Reference (ToR) for the working group can be viewed on the CEDA website and will be formally established, by them, at their first meeting on 21st November 2017.

NEW BOOK

Dredging for Sustainable Infrastructure

We're in the finishing stages of producing our latest tool for the dredging community at large. Written, in co-operation with IADC, the guidance book 'Dredging for Sustainable Infrastructure' will be an essential tool for project owners, regulators, consultants, designers and contractors, who need an up-to-date reference.

The last decade has seen some major developments and innovations which can play a part in the lifecycle of a dredging project. Innovations in technology, engineering and operational practices, can reduce fuel and energy requirements within the dredging process and eventual operation of the infrastructure. Such innovations have come from the three key areas of sustainability: environment, society and economy. From conception, through to planning, design and dredging itself, they affect an entire project. This new book will provide tools to help ensure dredging projects are fit-for-purpose, technically better, and more financially viable and acceptable to the stakeholders.

Dredging is just one element of an infrastructure project which interacts with a surrounding ecosystem, so, 'Dredging for Sustainable Infrastructure' starts with a comprehensive analysis of the social, environmental and economic costs, and the benefits of a project. A second consideration involves improvements to the dredging process by conserving resources, maximising efficiency, increasing productivity and extending the useful lifespan of assets and infrastructure.

A team of experts from international institutes, dredging contractors, consultants and project owners, have worked for nearly 5 years on the book and, following peer-review, it should be available in early 2018.

Polite Laboyrie
Chair, Editorial Board

DREDGING DAYS 2017

Sustainable Dredging. Continued Benefits.

9-10 November 2017 | Ahoy Rotterdam, the Netherlands



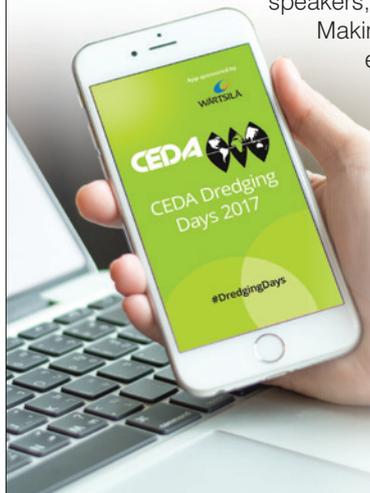
Make the most of Dredging Days 2017

We're thrilled to announce yet another innovation for the CEDA Dredging Days 2017... We've launched our new mobile event app. Downloading the CEDA Dredging Days app to your mobile devices will give you easy access to schedules, speakers, papers, sponsors, exhibitors and so much more.

Making new contacts, and meeting old friends, is now even easier... Why not use the app to plan your day and find your way around.

If you're reading this issue of CEDA News at Dredging Days, you'll already know that you have everything you need to navigate the event, in the palm of your hand. Let us know what you think of it because we're planning to use it for future events.

Send your feedback to the CEDA Secretariat at ceda@dredging.org.



CEDA-NL Focusses on Inland Dredging at Damen Dredging Equipment, Nijkerk

At the end of September, CEDA-NL had another hugely successful meeting which resulted in the coining of the phrase 'Inland dredging' to specifically describe 'small-scale dredging' in the Netherlands. The meeting was kindly hosted by Damen Dredging Equipment at the shipyards in Nijkerk, which is the dredging expertise centre of the Damen Shipyard Group.

'Knowledge dissemination' and 'facilitating networking' are the two main aims of the Dutch section of CEDA. To achieve this we organise 6 meetings a year and each one focuses on an attention-grabbing topic. We always invite three engaging speakers, from different backgrounds, to present their views on each topic, and it's usually followed with a lively discussion with the audience. This time the topic in the spotlight was small-scale dredging.

The meeting started with a tour of the ship yard where there was a range of dredgers, and special dredging equipment, on display, including Cutter Suction Dredgers and DOP submersible dredge pumps. After a delicious and sumptuous dinner the presentations began with a talk by Oliver Marcus, of Damen, on the tools used to tackle specific small-scale

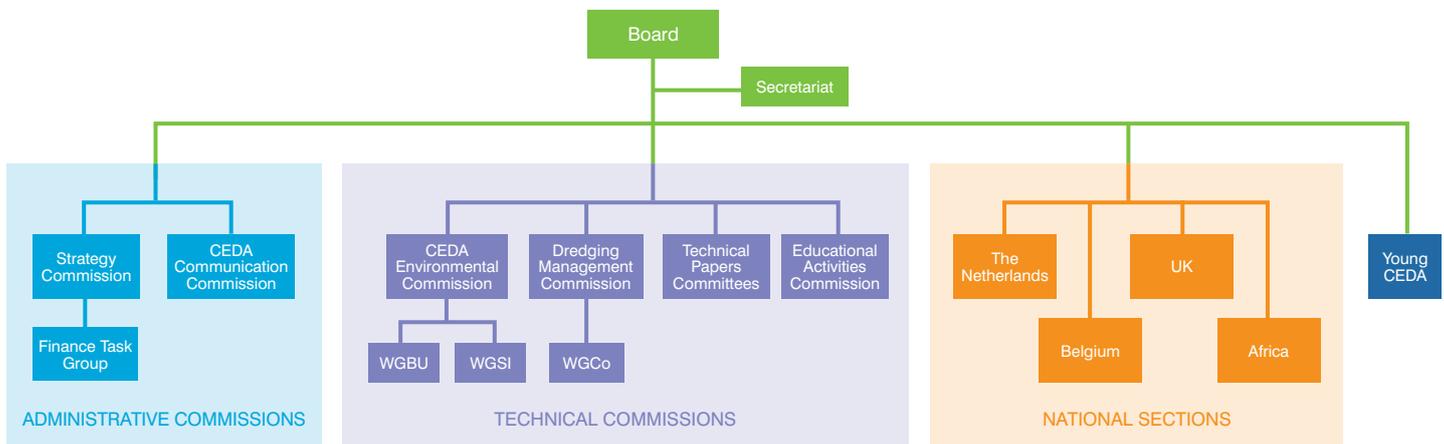


dredging issues. Next, René van der Zweep, from Royal Smals Dredging Contractors, followed with a focus on the new challenges faced by contractors, in the field, both in the Netherlands and abroad. He suggested that the term 'inland dredging' was a far more appropriate name for small-scale dredging, and the audience unanimously agreed that it should be the term to use from then on. Finally, John Stam, from the water board authority Waterschap Hollandse Delta, highlighted the many challenges and future developments of inland dredging from an authority's perspective. (A download, of all three presentations, is available on the CEDA website.)

Following a lively plenary discussion the bar was open for some thorough and lengthy networking.

Johan Pennekamp, Chair CEDA-NL

CEDA ORGANOGRAM



WGBU: Working Group Beneficial Use | WGSi: Working Group Seafloor Integrity | WGCc: Working Group Contracts

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You can find out about anything in this newsletter, and much more, by visiting www.dredging.org or contacting:



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