



# ANNUAL REPORT 2022 AND 2023

UNDERSTANDING DREDGING



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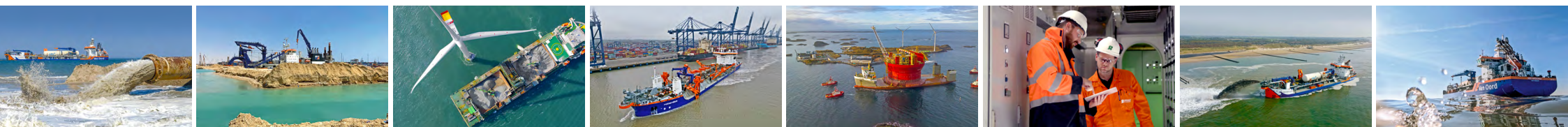
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# CEDA ANNUAL REPORT 22/23

# MESSAGE FROM THE PRESIDENT AND THE GENERAL MANAGER

We are very happy to see that a lot of members, corporate and individual, are very active in our commissions, working groups, courses and gatherings.

This annual report reflects their efforts with the great result of finished and upcoming reports. Thanks to this, CEDA can continue to be relevant and motivate their members and volunteers to continue with this.

Mieke van Loenen  
General Manager from 2022

In 2022, we could finally go back to organising face to face meetings with the WODCON in Copenhagen in May as a great post COVID reunion. You can read more about all our activities in this Annual Report. We would like to highlight a few items below:

## **Membership Survey**

After analysing the results of the membership survey, we can inform you of the following actions that the CEDA Strategy Commission & CEDA Board have agreed on. A lot of these



Polite Laboyrie  
President

actions have already been completed, some are work in progress and some are still under discussion:

- Creating more public/private connections
- Better promote the CEDA online resources through the newsletter
- Find out what would attract young members to write papers
- Further promote Dredgepoint
- Collect dredging facts which address common misconceptions
- Give CEDA a higher profile and give more information on our policy work
- Engage more CEDA members to be (more) active

## WODCON

In May 2022 we held WODCON, in Copenhagen. We are happy to report that the event was a huge success. There were 400 participants, 35 exhibitors and 15 sponsors, all coming from a total of 22 countries. It was a wonderful reunion of the dredging community, with a lot of great content and plenty of networking opportunities. The financial result was also very positive enabling CEDA to continue its activities and implement new ideas in the years to come.

## Dredging Days

In 2022, work started on one of the most important events on our calendar: the CEDA Dredging Days, taking place from 27-29 May 2024 in Rotterdam, the Netherlands. The theme is "Dredging in a changing world, Leading science and business in the dredging industry". Registration for the event is open and we hope to see you all there!

## Staff

As you all probably know by now, Mieke van Loenen officially became CEDA's General Manager on 1<sup>st</sup> of January 2022, whilst Anna Csiti continued to work with CEDA, in a part-time management advisory capacity, until June 2022. In addition, Linda Adams started to work at the CEDA Secretariat in March 2022.

## Change in presidency

During the 45<sup>th</sup> Annual General Meeting in November 2023, Polite Laboyrie announced his intention to step down as CEDA president.

Polite *"After more than 8 years of serving as President of CEDA, I believe it is the right time for me to step down from this*

*position. Let me emphasize that this decision is not because I do not like the role or the work we have accomplished together. On the contrary, I have thoroughly enjoyed being President and I feel privileged to have been part of such a dedicated and accomplished organisation and working together with all our passionate members and their organisations. However, I strongly believe that fresh perspectives and new ideas are essential for the growth and continued success of CEDA. When I started as President in 2015, I had a clear set of goals in mind, and when I look back I can say that we have accomplished a lot of them. I want to assure you that my stepping down as President does not mean I am disengaging from CEDA. On the contrary, I am committed to remaining involved and offering my support in any way I can. I believe my experience and knowledge of CEDA could still be valuable if needed. Together, we have built a strong foundation, and I have no doubt that under new leadership, CEDA will continue to flourish."*

At the same time, we are very excited to announce that the membership accepted the board nomination to elect Kathleen De Wit, International Marine & Dredging Consultants (IMDC), Belgium to become the new CEDA president.

Unfortunately, we also experienced big losses last year.

On Saturday, July 15<sup>th</sup> 2023, at the age of 64, we lost a remarkable individual whose contributions have left an indelible mark on our dredging community, prof. dr. ir. Cees van Rhee. Cees held an esteemed position serving as the Secretary & Treasurer for CEDA's Board of Directors for over 15 years. Additionally, he actively participated in numerous commissions, working groups, and activities that CEDA organised. His dedication was unparalleled, evident in his role as the Chair of

the Technical Paper Commission for all our major events and as the Conference Chair for these occasions. Cees's profound expertise in the dredging field and his meticulous attention to detail have been invaluable to CEDA and its members throughout the years. He was highly respected by all who had the privilege of knowing him.

At the end of 2023, the family of prof. ir. Willem Vlasblom informed us that Wim had passed away peacefully on Friday, December 8<sup>th</sup>. Wim was a prominent and active member of CEDA. He affiliated with many a CEDA "Dredging Days" conference and WODCON. He was a valuable member of CEDA's Board of Directors for many years, holding the position of Treasurer. Most of us knew Wim as a straightforward man, who was clear and sharp, but he was also sociable and committed. Wim did not care for status or ranking. Everybody was important to him in equal measure and he was always ready to reach out with a helping hand.

We will honour both of them during the Dredging Days in May 2024.

# ABOUT CEDA

CEDA exists to champion the professional success of individuals and organisations in the dredging and associated fields.

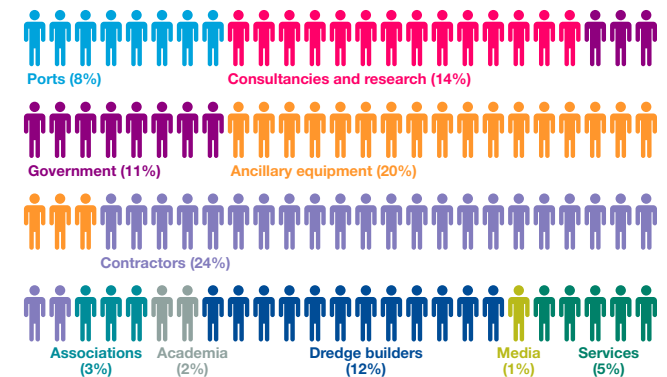
## Leading Independent Forum

CEDA is an established authority and the leading independent forum for the professional dredging community, and associated industries, in Europe, Africa and the Middle East. We represent dredging professionals and organisations, from government, academia and business, in the region. We foster and promote the understanding and advancement of dredging to the wider community.

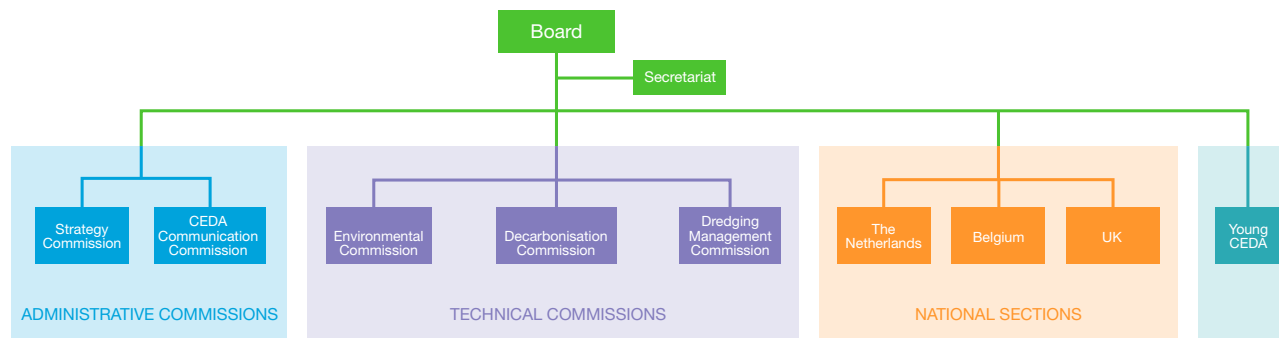
## Source of Specialist Knowledge

We are a recognised reference point for high-quality specialist knowledge on all aspects of dredging and provide a multidisciplinary network for professional contacts. Drawing on the collective knowledge of our members, and as an impartial organisation, CEDA regularly gives expert advice to government and international regulatory bodies.

## MEMBERSHIP BREAKDOWN



## ORGANOGRAM



## Diverse Membership

CEDA members are representative of consultancies, research and educational institutions, port authorities, government agencies, dredging contractors, designers and builders of dredging vessels, suppliers of ancillary equipment and organisations providing a whole range of related services.

At the end of 2023, CEDA had 227 individual members and 113 corporate members from 36 countries.

## Connecting Professionals Globally

As part of the World Organisation of Dredging Associations (WODA), CEDA is in a good position to represent the professional values of our members around the world. CEDA's two sister associations, WEDA (Western Dredging Association) and EADA (Eastern Dredging Association), serve the Americas, and Asia, Australia and the Pacific regions respectively.

Since WODCON XXII in Shanghai, the chairmanship of WODA resided with CEDA's President, Polite Laboyrie. After WODCON XXIII in Copenhagen, chairmanship was handed over to WEDA.

There are three Working Groups active under WODA:

- Reservoir Dredging
- Safety in Dredging
- Deep Sea Mining



# ORGANISATION

## **CEDA Board of Directors**

CEDA is governed by the Board of Directors, which generally meets twice a year. Elections are held every two years. For the full list of Board members please see the volunteer list on page 32.

## **CEDA Annual General Meeting (AGM)**

The 44<sup>th</sup> AGM was held online on Thursday 24 November 2022. In 2023, the 45<sup>th</sup> AGM was held during the CEDA Innovation Event at Europort on 9 November 2023.

## **Secretariat**

The day-to-day management of CEDA is carried out by a permanent secretariat based in Delft, the Netherlands. After working for CEDA for over 25 years, Anna Csiti officially retired at the end of 2021 but stayed on as an advisor until June 2022. In 2022 and 2023 CEDA employed two new staff members: Mieke van Loenen, General Manager and Linda Adams, Secretary.

The main areas of work for the secretariat include:

- Planning, managing, executing and supporting the execution of various CEDA projects
- Overseeing, organising and assisting CEDA activities including CEDA Dredging Days, seminars and conferences
- Supporting the Board of Directors and the various CEDA commissions and working groups
- Acting as CEDA's contact point for other related organisations, individuals and national sections
- Developing and maintaining the online presence of CEDA
- Managing CEDA's financial and operational administration
- Membership administration
- Acting as the secretariat for the Dutch Section

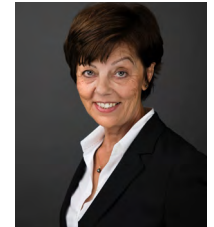
In addition to the central CEDA Secretariat, every national section organises its own national secretariat.



**Mieke van Loenen**  
General Manager



**Linda Adams**  
Secretary



**Anna Csiti**  
Management  
Advisor

# NATIONAL SECTIONS

Our national sections, in regions with a cluster of CEDA members, encourage local networking with regional and national events. They organise their own technical programmes and site visits to the same high standards as any other CEDA event.

The sections provide members with the perfect opportunity to meet peers, exchange knowledge and discuss local dredging topics in an informal, friendly and professional atmosphere.

There are currently three national sections:

- Belgian Section
- Dutch Section
- UK Section

The African section is currently on hold. In both 2022 and 2023, our national sections ran a series of successful meetings and site visits. Presentations are available on the website.





## Belgian Section



**Jos Smits**  
Chair



**Lydia De Cauwer**  
Secretary

During 2022 and 2023 (post COVID-19) everything went back to normal. Whilst we realise that webinars are a valuable option for the exchange of experience amongst our members, we are convinced the physical meetings are extremely important and therefore, we decided to organise many site visits and live events in the coming year(s).

### New Year's Reception 2022

It was planned to start the year on February 1<sup>st</sup> with a "traditional" New Year's Reception in Fort Napoleon on the Belgian coast; however, corona rose again and we had to cancel this meeting last minute.

### Site Visit: New Lock in Terneuzen

Due to corona we chose for safety and decided to postpone the next activity until June 28<sup>th</sup>. We had the possibility to visit this large scale project and enjoy a detailed presentation by the Project Manager. To compensate for the cancelled New Years event and the long intermediate period since our last meeting, we were also able to enjoy a barbeque after the visit.

### Site Visit: Renewal of the Lock Sint Baafsvyve

On September 13<sup>th</sup> we organised a second site visit. This time we visited an inland lock, which is part of the new link in between the Seine and the Scheldt Estuary. Before the site visit we received an explanation about the actual status of the Seine-Scheldt project; in Flanders by Frank Serpentier (de Vlaamse Waterweg) and in France by Joris Meerschaert (SBE).



*Renewal lock Sint Baafsvyve*



*New lock Terneuzen*

### New Year's Reception 2023

On February 10<sup>th</sup> we could finally organise a "real" New Years Reception. We met at Fort Napoleon on the Belgian coast and invited Tom Hautekiet as keynote speaker. He explained to us the new structure and vision of the Port of Antwerp-Bruges after the merger of both ports. This was followed by a reception to allow our members to meet and exchange new year's wishes in a "standard" way.



*Jacques Vermeiren (CEO Port of Antwerp-Bruges),*

*Annick De Ridder (Schepen van de Haven van de stad Antwerpen)*

*Tom Hautekiet (CCO, Port of Antwerp-Bruges)*

### Club Evening on “Nature Based Solutions”

For the first time in a few years we gathered again for a “traditional club evening” in Hotel Beveren on June 13<sup>th</sup>.

Keynote speakers were:

- Marc Huygens, Thibaud Mascart en Tomas Sterckx (DEME Group) who spoke about Nature based Solutions, what are we talking about?”
- Edward Van Keer (Ministry of Public Works) and Annelies Bolle (IMDC) who explained about the project “Coastal Vision from co-creation towards a strategic Management Plan for the Belgian Coast”.

After the presentations we arranged for some networking drinks.

### Site Visit: Oosterweel Project - COTU Building Dock

On October 10<sup>th</sup> we had the opportunity to visit the construction site of the tunnel elements for a new tunnel under the Scheldt, downstream of Antwerp. The building dock is located in Zeebrugge. Once the tunnel elements are ready for installation they will be floated and transported from Zeebrugge to Antwerp where they will be sunken and linked to each other.

Elke Rombaut (DEME) explained to us about the overall project and the different construction phases.



*Oosterweel Project*

## Dutch Section



**Dirk Roukema**  
Chair



**Linda Adams**  
Secretary

The focus of the Dutch Section (CEDA-NL) is on knowledge sharing and networking. Our member meetings are organised to make this happen in an inspiring and combined manner: sharing knowledge and enhancing personal contact between professionals and stakeholders in the dredging industry.

Our members are also active in various CEDA Working Groups and Commissions, which further expresses our role at the heart of the CEDA network. We actively co-operate with complementary branch organisations like the Royal Dutch Branch Association of Shipbuilders (KNVTS), the Hydrographic Society Benelux (HSB) and Dutch Branch of the Association for Offshore Energy (IRO). Also, we liaise actively with Young CEDA to support the young professionals in the industry.

Below some highlights from 2022:

March 15<sup>th</sup> - CEDA-NL and IRO members were happy to have the opportunity to meet each other again 'in person' in the charming and stylish Landvast complex in Alblasserdam. The ambitious Delta 21 plan projected west of the Haringvliet estuary was a prime example of what 'Renewable energy at sea' could entail.

April 21<sup>st</sup> - CEDA-NL and KNVTS were guests at the Royal IHC office in Kinderdijk for another memorable event 'The Suez Canal and the Ever Given'. As the highlight, Jody Sheilds (Boskalis/SMIT Salvage), being one of the salvage team members, gave a first-hand account of the operations, including insightful details of what happened behind the scenes.

June 14<sup>th</sup> - Bakker Sliedrecht hosted our event 'Electrification and sustainability in the maritime sector'. Various examples were presented to serve as sneak previews into the future of electrification and the use of batteries and hydrogen for powering vessels. Prior to the plenary session, our members had the opportunity to visit the Bakker Experience Centre.

September 13<sup>th</sup> - CEDA-NL and HSB were guests at the Boskalis auditorium in the Papendrecht head office to discuss various aspects of cables and pipelines at sea. The installation process and how to verify burial depth, ensuring that databases contain correct xyz-data, and liability of damage to cables for shipowners. This event clearly showed the versatility of dredging.



*CEDA/HSB event 2022*



*Singapore projects*

November 10<sup>th</sup> - the theme of our event was 'Singapore'. Introductions were given by Cesare Mosca of Boskalis (Tuas Terminal 2), Prof Kees d'Angremond (Pulau Tekong polder project) and Helena van der Vegt of Deltares (Sand scarcity and sustainable solutions).

In 2023 CEDA-NL continued with a series of events, strong on content but also very much serving as a platform for sharing knowledge and networking with colleagues in the industry. The efforts to get the events organised and hosted are made worthwhile by the enthusiasm of the CEDA-members and guests participating actively. The highlights of 2023 were:

January 24<sup>th</sup> - the Fehmarnbelt project was introduced by members of the Boskalis/Van Oord project team, hosted at Van Oord's Gorinchem office.



*CEDA/IRO event 2023*

March 30<sup>th</sup> - the joint event with IRO took place in Landvast Alblasterdam again. Four short presentations on 'Manmade islands as energy hubs' served as introduction to a panel discussion.

April 20<sup>th</sup> - the theme of the joint event with KNVTS was 'Making vessels go green'. The introductions contained high-level considerations (life-cycle assessments for alternative fuels) as well as concrete innovations (capturing CO2 on board), and were closed by a classic shipbuilding project (the TSHD Hegemann V).

June 6<sup>th</sup> - the Annual General Meeting took place at Beachclub Birds in Kijkduin. The North Sea beach, combined with perfect summer conditions, made it the ideal setting for a special program. Bart van Westen (Deltares) provided an overview of the Sand Engine project (just about visible in the distance) and the achievements of the project and the monitoring program. Johan Pennekamp, CEDA-NL chairman until his retirement

in 2021, looked back at 40 years of CEDA-NL. This 40-year anniversary was then celebrated whilst enjoying a tasteful BBQ and drinks and the slowly setting sun.

September 26<sup>th</sup> - Deltares hosted our event on research and innovation in coastal morphology and monitoring. We were taken to the complex morphology of the Holwerd-Ameland fairway, and the potential of satellite images as well as fibre optics for water depth monitoring.

The usual November event was swapped for the CEDA-innovation pitch talks at the Europort exhibition.

In July 2023 we received the sad news that prof. dr. ir. Cees van Rhee suddenly passed away at the age of 64. Not much

later, in December 2023, prof. ir. Willem Vlasblom passed away at the age of 81. Cees van Rhee was the successor of Willem Vlasblom as professors in Dredging Technology at the Delft University of Technology. Both have been of great value to the Dutch (and international) dredging industry. They will be dearly missed, as valued colleagues, eminent scholars, active supporters of CEDA, and most of all as dear friends. They live on in our memories.

To close off this report on an upbeat, I am happy to inform you that in 2022 the Board of CEDA-NL has decided to honour Mr Johan Pennekamp, who has been our charismatic chairman for 20 years, to become our honorary chairman.



*CEDA NL executive committee*

## UK Section



**Jamie Gardiner**

Chair



**Kate Beardsley**

Secretary

Throughout 2022 the Committee continued to hold hybrid meetings and events, with the December meeting, event and drinks reception held in person only. The committee also awarded its second award for Outstanding Contribution to the UK Dredging Industry at the December event, presented by Mieke van Loenen, CEDA General Manager, and awarded to three very worthy recipients. Individual membership numbers reduced from 40 (2021) to 37 (2022), whilst corporate members increased from 8 (2021) to 12 (2022). 2022 was a busy year for the CEDA UK Committee, with four seminars and two site visits.

### March 9<sup>th</sup> - John Sargent Lecture: THE UK'S NET ZERO JOURNEY - A MARINE PERSPECTIVE

This presentation discussed the journey that the UK is taking towards achieving its 2050 net zero target, outlining some of the existing and future challenges and opportunities that this journey presents, for policy and planning, technology and supply chain, habitat and environment.

### May 5<sup>th</sup> - Seminar: MEASURES TO MANAGE THE EFFECTS OF DREDGING PROJECTS

This seminar discussed the latest approaches and technologies to manage the effects of dredging activities, using actual case studies from around the world.

### August 10<sup>th</sup> - Site Visit: BLENHEIM PALACE

After completing phase one of this £5 million restoration project which saw the refurbishment and repair of the cascade weir connecting the Great Lake to the River Glym in 2020, Land & Water undertook phase two to desilt Queen's Pool. Land & Water removed c 300,000 cubic metres of silt over the course of nine months, to return the lake to its ideal depth of two metres from its current shallows of 30 cm. It's believed to be the largest 'inland' dredging project undertaken in the country.



*site visit Blenheim Palace 2022*

### September 28<sup>th</sup> - Seminar & Site Visit: DREDGING IN THE HARWICH HAVEN

A major project was underway to deepen the Harwich Haven approach channel. The works ensured the Port of Felixstowe would continue to be a leading facility in global shipping. A range of dredging techniques were utilised to deliver the project, which was undertaken by a Boskalis Westminster/Van Oord Joint Venture. The project also undertook beneficial reuse of suitable dredged arisings and contributed to a local project to increase the lobster population.



*site visit Harwich Haven 2022*

### December 1<sup>st</sup> - Seminar: REDUCING GREEN HOUSE GAS EMISSIONS IN THE DREDGING INDUSTRY IN THE DRIVE TO NET ZERO

The UK is committed to reach net zero greenhouse gas emissions (GHG) by 2050 across their economy including the domestic maritime sector, which is the largest contributor to the UK's domestic GHG emissions. This seminar considers the repercussions of the drive to net zero on the dredging industry and explores what is being done to help achieve decarbonisation.

### CEDA UK Outstanding Contribution Award 2022

2022 saw CEDA UK present its second Outstanding Contribution award, which recognises individuals who have made an outstanding contribution to the UK dredging industry, e.g. by years of service, promotion of the industry

or contribution towards inspiring, informing or founding best practice and innovation in the industry. The 2022 Outstanding Contribution awards were presented by Mieke van Loenen, CEDA General Manager, and awarded to Nick Smith and jointly nominated Frank Weston and Peter de Vaal.

Throughout 2023 the Committee continued to hold hybrid meetings and events. The committee awarded its third award for Outstanding Contribution to the UK Dredging Industry at the December event. Individual membership numbers have increased from 37 (2022) to 40 (2023), whilst corporate members remained the same at 12. We also have an additional 28 individuals registered from our corporate members, meaning we have a total of 81 individuals registered with us. 2023 was another busy year for the CEDA UK Committee, with three seminars. A site visit to Blenheim Palace was organised in the summer, but unfortunately this had to be cancelled.

March 7<sup>th</sup> - John Sargent Lecture: DOCK FILLING FOR THE NEW EVERTON STADIUM PROJECT AT BRAMLEY MOORE DOCK, LIVERPOOL

This presentation provided an overview of the operation including preparation works, filling, compacting and testing in order to allow follow on works to commence for construction of the new stadium.



*John Sargent Lecture New Everton Stadium Project 2023*

October 5<sup>th</sup> - Seminar: TECHNOLOGICAL ADVANCES IN THE DREDGING INDUSTRY

This seminar looked at how modern technological advances is allowing the dredging industry to meet the ever-increasing demands of the Maritime Sector.

December 7<sup>th</sup> - Seminar: DREDGING INNOVATION 2023

This seminar presented a selection of dredging projects from around the UK bringing news of the latest practical applications of re-use of dredged material as well as innovative developments and use of a new dredging technique. The presentations provided a practical insight to the projects. Challenges faced and lessons learned were discussed as well as the future in terms of developing/progressing/continuing these applications on other projects.

CEDA UK Outstanding Contribution Award 2023

2023 saw CEDA UK present its third Outstanding Contribution award to John Brien, whom, after more than 45 years working at the Harwich Port Authority, retired at the end of 2023. We thank John for his commitment and outstanding achievements over the years.



*John Brien, receiver outstanding contribution award 2023*

CEDA input to legislation

CEDA UK takes an active interest in the development of National and European legislation that may affect the dredging industry. The focus during 2022 was the implementation of the revised Action Levels being carried out by Cefas. The Committee wrote to Defra, who is responsible for implementing environmental policy and regulation in England and Wales, to request information about the process and timescale for adopting any changes to the Cefas Action Levels, and to convey the importance of this to the UK Dredging Industry. In the UK, CEDA attends the UK Water Framework Directive/ Marine Strategy Framework Directive Navigation Sector Group which provides a forum for the navigation industry and government to liaise over the progress with these pieces of legislation.

Committee members have continued to play an active role in wider CEDA activities; Will Shields and Michael Costaras represented the Committee on the CEDA Main Board.

# COMMISSIONS

CEDA currently has six commissions:

- Strategy Commission
- Communications Commission
- Dredging Management Commission
- Environment Commission
- Commission on Decarbonisation
- Young CEDA Commission

## Strategy Commission

In 2021, we conducted a membership survey with the aim to canvas opinion on the services the association provides, and how it could offer members greater value. In 2022 and 2023, the strategy commission analysed these results, and formed some concrete action points.

Other topics on the agenda of the strategy meetings included:

- CEDA Middle East section
- CEDA Africa section
- Future Dredging Days
- WG Certification of Sustainable Marine and Freshwater Infrastructure Projects
- Safety

Early 2023, Rogier Kalis (Royal IHC) took over as chairman from Wim Klomp (Royal HaskoningDHV).

*Meeting at Van Oord, May 2023*

## Communications Commission

The communication commission has been instrumental in the switch from the magazine Dredging and Port Construction to the CEDA Industry Newsletter in 2021. Since then the newsletter has evolved and the commission holds regular online meetings to determine relevant topics for our members.

## Dredging Management Commission

The Dredging Management Commission (DMC) is a forum to bring various stakeholders together for discussions, innovations and matters regarding the management of dredging works in the broadest sense.

In May 2023, the chairmanship of the commission was handed over to Maurice de Kok (Van Oord). During 2022 and 2023, the commission had several meetings during which the work of the commission and its working groups were discussed. Meetings were organised and hosted by:

- Van Oord, the Netherlands
- Port of Rotterdam, the Netherlands
- Zeebrugge, Belgium
- Boskalis, the Netherlands
- The commission currently has one active Working Group on Cables.



## Environment Commission

CEDA Environment Commission (CEC) develops and implements CEDA's environmental policy and represents the Association at meetings of international conventions and other regulatory forums. The CEC meets twice a year to discuss the developments with the CEDA representatives in the different organisations and the progress of the papers that are being prepared by the working groups.

In 2022 the CEC met online in July and in person in Hamburg in October. In 2023 the CEC meetings were both held in person in Antwerp in March and in Utrecht in October.

The following CEDA Position Papers and Information Papers were produced under the remit of the CEC:

Both the Working Group on Energy Efficiency (WGEE) and the Working Group on Seafloor Integrity (WGSi) completed their work and published the resulting paper (see page 23).

The Working Group on Adaptive Management (WGAM) completed the majority of its work in 2022 and 2023, the publication of the paper is expected in 2024 and the results will be presented during the Dredging Days 2024.

In 2023 a new working group was started to cover the release of greenhouse gas from the sediment being dredged and the Terms of Reference were made to initiate a new working group on substances of possible concern, for kick-off in 2024.

### Environmental policy work

A key task of the CEDA Environment Commission (CEC) is to develop and implement the environmental policy of CEDA and represent CEDA at meetings of international conventions and other regulatory forums, such as the London Convention and Protocol (LC/LP) and the Oslo and Paris Convention (OSPAR).

A number of Directives of the European Commission are relevant for dredging and related activities, including the management of dredged sediments. CEDA is involved as stakeholder in the implementation process of the Marine Strategy Framework Directive (MSFD) and is chairing the MSFD NAVI group, which is a stakeholder group providing input to the EU on this legislative process.

CEC, changes in membership:

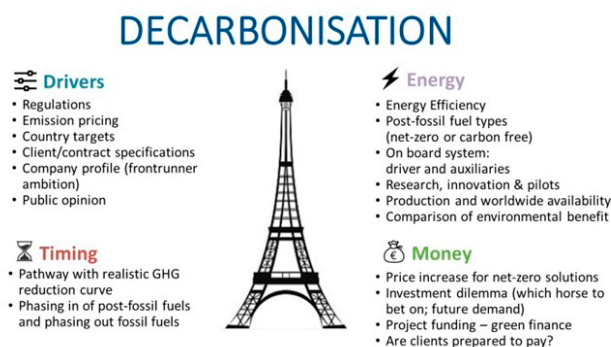
- Volker Steege (German Federal Government, Germany) retired and was replaced by Jennifer Wey.
- Alessandra Feola (ISPRA, Italy) resigned from CEC
- Jemma Londsdales (Cefas, UK) changed jobs and was replaced by Joe Perry



Site visit to the Markeermeeerlijk project October 2022

## Commission on Decarbonisation

In November 2021 the CEDA Board of Directors decided to establish the CEDA Commission on Decarbonisation (CCD). This Commission acts as a platform to collectively and regularly gain and share insights on the Decarbonisation of dredging equipment and projects, and what this would mean in practice. These insights will contribute to developing policies and/or deciding investments in future times.



### Overview of decarbonisation themes

The first meeting of the CCD was organised on March 25<sup>th</sup>, 2022. This kick-off meeting was followed by another 4 meetings in 2022 and 2023. Decarbonisation includes many aspects, see figure above. Typically, a CCD meeting focuses on one of these aspects, like; Fit for 55, Electrification and Biofuels. To ensure state-of-the-art insights, knowledgeable experts are invited to join the meetings.

A prime goal of the CCD is to organise Decarbonisation related sessions, like: the “Energy Efficiency and Decarbonisation” sessions at WODCON XXIII with high level keynote speakers (May 2022), the “Energy Efficiency” session at the CEDA

Innovation Event (November 2023), and upcoming is the “Decarbonisation” session at the CEDA Dredging Days (May 2024). Prime starting point for the design of these sessions was and is a high level of audience participation.

The CCD is a relatively young commission with members representing contractors, consultants, equipment suppliers, ministries and port authorities, based in Belgium, France, the Netherlands and the UK. Still, additional members are welcome to represent the full CEDA region as well as to represent the full value chain of Decarbonisation.

## Young CEDA Commission

Young CEDA is dedicated to creating a platform for young professionals & students, to connect with each other whilst allowing for the opportunity to learn about developments & projects in the dredging industry.

Young CEDA's activities are planned and implemented by members of the Young CEDA Commission, an international group of enthusiastic young professionals from various fields such as contractors, consultants, shipbuilders, ports or governments. Their diverse background ensures to promote the varied interests of Young CEDA members in a balanced way.

After the relief of the COVID-19 restrictions, the first live event was held on March 1<sup>st</sup> 2022, with a site visit to Van Oord's dredging works in the tailing pond in the Averijhaven in Velsen-Noord. With 60 people in attendance, we saw just how much everyone had missed these live events.

The momentum continued with the following, highly populated, events taking place in 2022:



June 2<sup>nd</sup> - Site Visit: Baggerbedrijf de Boer, Zeeheldenwijk, Urk  
A great opportunity for our young members to get a glimpse of the Trailing Suction Hopper Dredger (TSHD) Mahury, which was used in Urk to suck up the sand from the IJsselmeer and transfer this via a pipeline to the new Zeeheldenwijk.

September 6<sup>th</sup> - Each year Young CEDA members give an introduction presentation to students at the Technical University of Delft. Our latest presentation can be found on our website

September 15<sup>th</sup> - Site Visit: Damen Dredging Equipment, Nijkerk  
A unique visit to Damen's yard in Nijkerk, which specialises in the design, manufacture, and supply of highly efficient dredging equipment such as Cutter Suction Dredgers, DOP dredgers, Trailing Suction Pipe systems, and other dredging components.

Towards the end of 2022 Mark Petri (TenneT) handed over the chairmanship of this commission to Jan-Berend Koster (Baggerbedrijf de Boer).

The following events took place in 2023:

May 1<sup>st</sup> - Simulator & Dredging Case event: Boskalis, Papendrecht

Our Young CEDA members were invited to work on a case study and put their experience and knowledge to the test in the dredging simulator. During the case study, they learned the basics of production estimating. Afterwards, they were able to compare their estimates to the results of the simulator and find out why there is a difference.

September 4<sup>th</sup> - Yearly Young CEDA introduction presentation given to 40 students at the Delft University of Technology.

September 8<sup>th</sup> - Site Visit: Van Oord Calypso Event, Cruise Terminal, Rotterdam

We were thrilled to extend this invitation to our Young CEDA members, to attend Young Van Oord's Calypso event, where the Calypso's crew provided a guided tour on the new offshore wind vessel! It was a great chance to learn about this brand new offshore wind vessel and to connect and network with fellow young professionals.

September 19<sup>th</sup> - Site Visit: Deltares' Experimental Facilities, Delft  
Our members were invited to take a peek into the Water Soil Flume and Physical Laboratory of Deltares to witness these

project related activities in their experimental facilities. Their experts guided us through the ins and outs of offshore wind farm projects, from innovative engineering practices to ecological implication.

October 17<sup>th</sup>- CSD & TSHS Simulator event: Royal IHC, Kinderdijk  
The Royal IHC Vessel familiarisation event took us on a tour on board the Beagle4 (TSHD), docked at their facilities in Kinderdijk, and gave us the chance to get a unique "hands on" experience in their CSD & TSHD simulators.

We are extremely grateful to all of our corporate members who have hosted our events and allow us to share these opportunities with the upcoming stars of the dredging industry.

*Site visit to Baggerbedrijf de Boer June 2022*



# WORKING GROUPS

Ad-hoc working groups or task groups are set up regularly to perform certain tasks. They bring together the wealth of up-to-date specialist knowledge and the experience of top international experts with broadly diverse backgrounds. Normally, these groups have a definite life time.

Currently the following working groups are operational:

- CEDA Working Group on Certification of Sustainable Marine and Freshwater Infrastructure Projects
- CEDA Working Group on Adaptive Management
- CEDA Working Group on Cables
- CEDA Working Group on Greenhouse Gas Emissions and uptake from sediment in dredging
- CEDA Working Group on Substances of possible concern in sediment
- WODA Working Group on Safety
- WODA Working Group on Reservoir Dredging
- WODA Working Group on Deep Sea Mining

## **CEDA Working Group on Certification of Sustainable Marine and Freshwater Infrastructure Projects**

Given the growing demand for sustainable infrastructure projects, it is expected that, in due course, more avenues will open up to pursue sustainable marine and freshwater infrastructure projects and perhaps more private capital can be put to work. To realise these projects, an important element is to develop a kind of certification to prove or certify that the project is sustainable. The partners of the financial sector suggested that perhaps CEDA could play a role in this. Certification is a way to prove, in an independent way, that a project is sustainable. The CEDA-IADC DfSI book could help to formulate objective criteria. CEDA is an independent organisation with experienced members from all parts of the public

and private community. As CEDA, we are at the forefront of innovations and developments in the dredging industry and initiate analysis to several aspects of dredging. This makes CEDA well positioned to play a role in this. To find out if and how CEDA could be involved in certification of sustainable marine and freshwater infrastructure projects, the Strategy Commission of CEDA (CSC) set up a Working Group to do a feasibility study on this topic and to come up with suggestions.

The Working Group looked into the following aspects:

- existing certification activities in other fields
- investigating the nature of the demand expressed by the finance sector
- how this certification could work
- business model for CEDA around this activity

The working group conducted interviews with members and partners of CEDA and held a discussion session at WODCON XXIII in May 2022. A main conclusion was that CEDA indeed can play an important role in certifying a sustainable project but cannot play a leading role. At this moment the findings are being put together in a report which will be published mid-2024.

## **CEDA Working Group on Adaptive Management**

A number of publications, among which the CEDA information paper on Adaptive Management (AM), published in 2015, contain a high-level description of the different aspects of AM. The descriptions are often generic and do not include details

of AM of specific parameters yet. In this fast-evolving topic, a number of information gaps and subjects that require revision have appeared over the past years. For instance, a topic which has undergone a considerable evolution in recent years is pro-active adaptive management of turbidity.

The CEDA Environment Commission (CEC) therefore established a Working Group to prepare a CEDA information paper on (Pro-active) Adaptive Management in dredging and land reclamation projects. The paper provides an overview of existing tools and platforms to implement AM and recommended best practises. Also, a questionnaire on the awareness and experience with AM was launched in the industry and a significant number of responses were received from all different types of stakeholders in dredging and reclamation projects. It was found that significant awareness of the concept of Adaptive Management exists in the industry, but that the benefits of Pro-Active AM for environmental management are less known. Therefore, this aspect was covered in more detail in the paper. Finally, case studies demonstrate that (Pro-active) AM can help to guarantee environmental compliance.

The final paper will be published in 2024 and the main attention points will be presented at the CEDA Dredging Days by Boudewijn Decrop, IMDC.

### **CEDA Working Group on Cables**

The Working Group on Cables, which acts under the responsibility of the Dredging Management Commission, has had several meetings in 2023, with a few highlights. The first one is the completion and the publication of the Terms of Reference (ToR) in February. This was followed by sending

out an invitation letter to join the group to representatives in the dredging and offshore industry. This invitation has led to the group being extended with three new members, representing respectively Antares from the UK, DEME Group from Belgium and Energinet from Denmark. Furthermore, contact between CEDA and the International Cable Protection Committee (ICPC), as well as the European Subsea Cables Association (ESCA), was established. In April, a representative of the working group attended the ICPC Plenary in Madrid as an observer.

### **CEDA Working Group on Greenhouse Gas Emissions and uptake from sediment in dredging**

The EU's nationally determined contribution (NDC) under the Paris Agreement is to reduce anthropogenic net greenhouse gas (GHG) emissions by at least 55% by 2030 and 95% by 2050 compared to 1990. Countries, cities and regions, businesses and civil society members across the world are taking action to accelerate cooperative climate action in support of the Paris Agreement.

The dredging community is taking its responsibility. Reduction of GHG emission from dredging and support equipment by observing sustainability requirements in project design is the main focus at this moment. Construction of new and modification of existing vessels towards the use of alternative or non-fossil fuels becomes more widespread and is stimulated by governments and project owners through tender sustainability requirements. Reference is made to the published information paper on Energy Efficiency (CEDA Environment Commission working group) which is complementary to this information paper.

GHG emissions, as well as the storage potential in dredging projects, is related not only to the equipment used but also to the sediment. In healthy soil and water systems, large emissions of greenhouse gases (GHG) and uptakes of carbon take place. The balance between those determines whether there is a net greenhouse gas emission or storage.

The main objective of the information paper is to provide proper information about this subject, about its nature, extent and relevance for all involved stakeholders, starting with a description of the context including the uncertainties and site-specific influences, literature review, overview of the current knowledge, tools and (pilot) experience base of the subject.

As a key goal, the paper should provide appropriate context and information to identify the overall importance of GHG emissions from sediments and the storage potential in sediments in beneficial use afterwards.

The paper should provide an insight into the potential (negative and positive) GHG effects of dredging and will reflect on the role and the responsibility of the dredging community related to the emission of anthropogenic GHG, indicating who are the important stakeholders that are necessary to achieve understanding of the context and practical steps forward.

### **CEDA Working Group on Substances of possible concern in sediment**

This Working Group was initiated in 2023 and will start its work in 2024. Substances of possible concern in sediment are substances that might merit action by frameworks like OSPAR, HELCOM or the WFD due to their persistency, liability to

bioaccumulate and toxicity or other equivalent concern. In Europe, the Regulation on the registration, evaluation, authorisation and restriction of chemicals (REACH) is the main EU law to protect human health and the environment from the risks that can be posed by chemicals. This is done by better and earlier identification of the intrinsic properties of chemical substances and by taking measures. For dredging, disposal and beneficial use of sediments this means that substances of possible concern can impact sediment management, if not now, then in the foreseeable future.

With work starting in 2024, the main objective of the information paper is to inform the dredging industry about the subject of substances of possible concern on an EU scale.

What substances of possible concern are currently addressed within regulation? What are the sources and pathways of these substances and to what extent does sediment management (including dredging, disposal of dredged materials and the beneficial use of sediment) impact these pathways? The paper makes clear that sediments are not the source of substances of possible concern (we are, with our production and use of these substances). But sediments play an important role in both a positive sense (buffering the impact of problematic substances from sources), and in a negative sense (the release over time of these substances to surface and groundwater).

The information paper addresses:

- The relevance to the dredging industry
- Quick wins/low hanging fruit to reduce the emissions from sediments due to dredging
- Proposition for further research on the role of sediment regarding the mass balance and transport pathways of substances of possible concern
- Identify information gaps

The paper focuses on the action perspective for a sediment manager to limit the release of substances of possible concern from sediments.

### **WODA Working Group on Safety**

The WODA Safety Working Group (WSWG) was established to initiate and facilitate sustained discussion of safe operations within the dredging community in the broadest sense. Led by WEDA's Safety Commission Chair, Julie Hile, the group is comprised of international dredging subject matter resources with diverse backgrounds, perspectives, and a broad range of expertise and experience.

The Safety Culture Framework is the WSWG's inaugural work product, one we are proud to share with the world dredging community. The overview has been created by a multi-national team with many years of safety success who share a lively interest in the ways in which safety culture can evolve to protect people and their families from harm. It is our intention with this resource to share safety culture perspectives and information, raise awareness, and facilitate collaboration between safety and operations professionals worldwide. The framework is a simple, comprehensive overview of information related to how safety is perceived, applied, managed, and sustained to improve safe operations across dredging tenders.

The Safety Culture Framework is NOT an endorsement of any "premier" safety standard nor is it intended to challenge or replace any regulation. When considering safety interventions and processes, this review is by no means exhaustive. It seeks to encourage/urge/inspire parties to implement safety in the dredging community as a standard to "BE SAFE and STAY SAFE".

### **WODA Working Group on Reservoir Dredging**

On a global scale, sedimentation in reservoirs poses a significant challenge to the sustainable development of reservoirs and dams. The working group has conveyed a clear message to the world: maintenance of reservoirs is urgently needed, and dredging is a feasible and sustainable solution. In December 2023 the Working Group had its 14<sup>th</sup> meeting. In total there were 5 meetings in 2022 and 3 online meetings in 2023.

During WODCON XXIII (May 2022), the working group conducted an in-person meeting on the first day and presented their progress to the whole conference. The presentation was followed by a panel discussion, where the working group received many positive and constructive advice's.



*Working Group session at WODCON 2022*

On 15-16 May, 2023, Delft University of Technology hosted the WODA Reservoir Dredging Symposium on its campus. The symposium attracted participants from various regions of the world. On the first day, invited experts delivered insightful

presentations covering the necessity of reservoir dredging, risk analysis of reservoir dredging projects, hydrological and geomorphic dynamics triggered by reservoir sediment management, equipment and case studies on reservoir dredging, and the physical mechanisms of high-speed jetting. Following the symposium, all attendees had the opportunity to visit the Delft University of Technology Dredging Lab. On the second day, working group members worked together on the WODA Guideline Book on Reservoir Dredging, which is expected to be published in 2024.

On September 2023, the working group presented their findings to the 13<sup>th</sup> International SedNet Conference. Efforts were made to bring the knowledge of the dredging community to the sediment management community, which further increased the external awareness on the working group. From 2022 to 2023, the working group gladly welcomed two new members with African background and two female experts on board. Now a joint effort is being made for delivering the WODA Guideline Book on Reservoir Dredging.

### **WODA Working Group on Deep Sea Mining**

The aim of this Working Group is to promote the use of robust scientific approaches to the management of environmental effects, within the policy and regulation of Deep Sea Mining. It is intended as a technical forum for dredging community specialists with an interest in the management of environmental effects, and is not seeking to advocate the development of the sector or particular organisational interests, or address other aspects of deep sea mining. WODA became observer to the International Seabed Authority in 2022, this working group handles all correspondence.



# POLICY WORK

The collective knowledge of the CEDA membership has helped it to remain a well-respected and independent authority on dredging. As such, CEDA regularly gives expert advice to government and international regulatory bodies on issues related to dredging.

Our aim is to ensure that any legislation pertaining to dredging and hydraulic construction, as well as disposal or placement of dredged sediments, is based on sound technical and scientific knowledge, takes account of best practice, and is ultimately workable. As an impartial organisation, CEDA does not engage in lobbying. We attend relevant meetings of these bodies, provide expert comment on draft documents, submit technical, scientific documents, and contribute to working groups, drafting groups and debates.

We are currently active in the following international organisations:

- London Convention (through WODA)
- OSPAR
- European Commission (MSFD, WFD)
- International Commission for the Protection of the Danube River (ICPDR)
- International Seabed Authority (ISA, through WODA)

On a national level, the UK section plays an active role in the development of relevant UK legislation. Through WODA, we are an observer at the International Seabed Authority (ISA) since this year.

In 2022, Arjan Wijdeveld, Geochemical Expert at Deltares, joined as the new CEDA representative for OSPAR in the Working Group on Environmental Impact of Human Activities. Also, Marc Sas, retired member from IMDC, is the new Chair representing CEDA for the Marine Strategy Framework Directive (MSFD).

# PUBLICATIONS

## CEDA Working Group Papers

CEDA information, guidance and position papers are the direct result of the work produced by our working groups, which are set up to perform specific tasks. Their broadly diverse backgrounds and range of expertise, as well as CEDA's quality control, ensure a comprehensive, high-quality and objective treatment of each subject.

The following papers have been produced in 2022/2023:

### Energy Efficiency

The CEDA Working Group on Energy Efficiency's (WGEE) prime goal was to compose an information paper offering the reader a structural insight into Energy Efficiency. This by providing an overview of comprehensive perspectives of the various stakeholders regarding key aspects of all project phases.

The CEDA information paper "Energy Efficiency Considerations for Dredging Projects and Equipment" was firstly released via the CEDA Newsletter (January 2023) and is available on the CEDA website. The paper aims to raise awareness and supports informed decision making by members. Sustainable and cost-effective measures in support of energy efficiency are promoted.

During the CEDA Innovation Event (November 2023) an Energy Efficiency session was organised to promote the paper and this session served as the concluding event for the CEDA Working Group on Energy Efficiency.

Spin-offs of this work include

- The establishment of the Decarbonisation Commission (March 2022)
- The "Energy Efficiency and Decarbonisation" sessions at WODCON XXIII with high level keynote speakers (May 2022)
- A poster presentation of the Information Paper at the HTG conference in Bremen, Germany (November 2023).



*Presentation Energy Efficiency paper at Europort 2023*

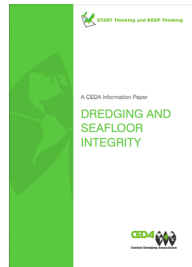


### Seafloor Integrity

EU legislation requires that potential impacts of marine dredging and disposal of dredged material are assessed in the context of the risk of not achieving or maintaining Good Environmental Status (GES) as defined for Descriptor 6 (D6) Seafloor Integrity, one of the eleven descriptors in the Marine Strategy Framework Directive (MSFD). The GES for D6 Seafloor Integrity is defined as "Seafloor integrity is at a level that ensures that the structure and functions of the ecosystems are safeguarded, and benthic ecosystems are not adversely affected".

This Information Paper describes the MSFD descriptor D6 Seafloor Integrity and its criteria and methodological standards in relation to dredging and disposal activities. Based on scientific studies, grey literature and case studies, this report explains what Seafloor Integrity is and why it is important, how different types of dredging, disposal, and placement of dredged material or marine construction activities may affect Seafloor Integrity and discusses the relevant spatial and time scales in relation to assessing the possible impact of dredging projects under MSFD requirements. The potential impacts of dredging and disposal/placement of dredged material must be assessed relative to the natural variability of suspended sediment and sedimentation in the specific sites. It also describes the cumulative effects of dredging projects on benthic ecosystems, as well as the benthic community's potential for recovery.

From that, some guiding recommendations are formulated to the CEDA community to align dredging and disposal works with these environmental requirements.



### Beneficial Use of Dredged Material

This working group already published their paper in 2019. However, as part of this paper, case studies have been made available on the CEDA website. This is a live database and new case studies have been added in the last two years.

## Other CEDA Publications

### CEDA Industry News

Since 2021, we publish the CEDA Industry Newsletter, containing a monthly blend of dredging, ports marine engineering & CEDA news, and covers the various areas of interest to our members. While the CEDA articles are free for anyone to read, there are two in-depth articles produced every month that are exclusive to our members and require you to log in to access them. The long articles are produced by the team of journalists and experts at Intent Communications, under the editorial remit of the CEDA Communications Commission. All news articles are available on the website.

### Dredgepoint

CEDA has owned Dredgepoint since November 2021. On this website, you will find current and historical dredging equipment, with links to the companies that own them and the shipyards that build them. The ambition of this website is to be the most complete and informative open website database in the field of dredging equipment. The database is free of charge. However, CEDA members have the following extra benefits:



- advanced search option, where you can undertake more specific searches in the database.
- view available technical files and datasheets of equipment.

The database is kept up-to-date by a group of volunteers (see volunteer list on page 32) and is sustained with the help of our main sponsors, Royal IHC and Damen, together with our other supporters: Alia Instruments BV, Dutch Dredging Components BV, Holland MT, Vosta LMG BV, Boogaard Brokers and DE Klop BV.

## Publications in cooperation with partners

### CEDA-IADC Factsheet: Creating a Sustainable Marine and Freshwater Infrastructure

Published in February 2022

The Factsheet “Creating a Sustainable Marine and Freshwater Infrastructure” describes how to achieve dredging projects that fulfil primary functional requirements while adding value to the natural and socio-economic system.

Marine and Freshwater Infrastructure is the collection of waterborne works at coastlines, estuaries, rivers, canals and in port areas. In general, such works provide flood protection or enable port development, urban development and navigability of waterways. In other cases, these works serve to protect or restore nature and recreational areas.

This factsheet answers essential questions such as:

- What is Marine and Freshwater Infrastructure?
- What is Sustainability?
- What is Sustainable Marine and Freshwater Infrastructure?
- What is the role of dredging in the realisation of a Sustainable Marine and Freshwater Infrastructure?
- How can a Sustainable Marine and Freshwater Infrastructure be attained?
- Which key enablers are instrumental for sustainable infrastructure development?
- Why actively involving stakeholders?
- How can legislation support water infrastructure is made sustainably?





## CEDA-IADC Factsheet: Models and Modelling for Dredging

Published in September 2022

The Factsheet “Models and Modelling for Dredging” describes the modelling process, the different types of modelling and the effects of modelling. The general focus of the book Dredging for Sustainable Infrastructure is on stimulating and realising sustainability in the development of water infrastructure. This factsheet fits in well as modelling is a key part of achieving these goals.

The role of modelling, what it can do, what it cannot and what it needs to be used successfully is often poorly understood and this in turn can lead to poorer design and environmental outcomes. This factsheet answers essential questions such as:

- What is Modelling?
- What are different types of modelling?
- What is necessary to undertake modelling?
- What is ecological modelling?
- When should modelling be undertaken?
- What data is needed to undertake modelling?
- How to communicate modelling outputs.

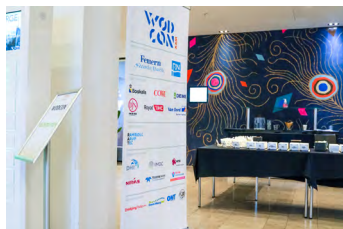


# EVENTS

## WODCON XXIII

Organised under the banner of the World Organisation of Dredging Associations (WODA), WODCON is held once every three years. The three main member associations - CEDA, WEDA and EADA - take it in turns to host and organise the event. CEDA had the honour of organising the twenty third World Dredging Congress and Exhibition in Copenhagen, Denmark, from 16-20 May 2022.

From the initial feedback received, WODCON XXIII was a huge success. With 400 participants, 35 exhibitors and 15 sponsors from 22 countries, it was a wonderful post COVID reunion of the dredging community with a lot of great content and plenty of networking opportunities.



*Thank you to our sponsors*

It was an unforgettable mix of networking, state-of-the-art knowledge sharing, technical sessions and visits. Spread over three days, in 26 technical sessions, with varied, dynamic, and engaging formats, our expert speakers from all over the world addressed the most current and relevant topics, such as energy efficiency and decarbonisation, renewables infrastructure, including energy islands, beneficial use of sediments, developments



of ports and waterways, turbidity modelling and monitoring, marine construction, flood risk and coastal protection, deep sea mining and many more. And of course, a deep dive into various aspects of the landmark Fehmarnbelt Tunnel project, as well as a site visit to their prefabrication yard & land reclamation area, and a boat trip to see the dredgers in action.



*Sustainability debate*

With the theme 'Dredging is Changing', WODCON XXIII focussed on how the industry is changing to tackle the economic, social and environmental challenges of our changing world. In view of this, the board of the World Organisation of Dredging Associations (WODA) issued a statement on the decarbonisation of dredging.



*Welcome reception at Copenhagen's Town Hall*

Dredging is essential to maintaining and improving our quality of life, economic well-being, and ecosystem health. This is achieved through creating and maintaining marine and fresh-water infrastructure, contributing to climate mitigation and adaptation/resilience, ensuring the reliability of water-based supply chains, providing minerals and construction materials, supporting sustainable offshore energy production and enhancing the environment.



*Gala dinner at Langelinie Pavillonnen*

WODA endorses the significance and necessity of the 2015 UN Paris Climate Change Agreement and the 2015 UN Sustainability Goals to achieve a better and more sustainable future.



*Ice Breaker Cocktail*

This statement builds on and furthers earlier WODA statements on Sustainable Dredging (2013), on Mitigating and Adapting to Climate Change (2016) and the Shanghai Consensus for Promoting Sustainable Dredging Development (2019).

Decarbonisation, i.e. reducing the emissions of CO<sub>2</sub>, and other greenhouse gases by all sectors is central to achieving the objectives of both UN agreements. The dredging community

recognises that this includes immediate action by all those involved in dredging and marine construction. Given its broad membership covering a wide range of stakeholders, including project owners, dredging companies, designers and builders of dredging vessels and their suppliers, as well as consultants and academia, small and large, WODA will leverage its unique position to expedite decarbonisation of dredging. WODA's ambition is to contribute to dredging decarbonisation through enhanced communication, mutual trust, and cooperation within the dredging community.

### **CEDA Innovation Event at Europort**

After the successful launch during the previous edition of Europort, CEDA organised an afternoon filled with activities on Thursday 9 November, during Europort 2023. It started with the Corporate Member pitches. DE Klop BV showed off their Advanced CSD Dredge Simulator, Deltares unveiled their CFD applications for dredging and offshore projects, Alia Instruments presented a non-nuclear density meter that's revolutionising dredging performance, and Royal IHC delved into the future of autonomous dredging. Later in the day, ZEDhub showcased solutions for zero-emission dredging, and Delft University of Technology unveiled a digital twin model of a TSHD that's helping dredgers operate more efficiently and



safely. Dredging is getting smarter, cleaner, and more efficient. A full list of presenters and PowerPoint presentations are available on the website.

After the pitches, the CEDA Working Group on Energy Efficiency presented their paper: Energy Efficiency Considerations for Dredging Projects and Equipment.

The afternoon continued with the Annual General Meeting, where CEDA's president, Polite Laboyrie, looked back at the year 2022 and announced important changes in the CEDA Board of Directors.

The day was completed with a reception, attended by our members and our day guests.

### **Dredging for Sustainable Infrastructure Course**

After organising only online courses in 2020 and 2021, CEDA and IADC organised 3 successful live courses in 2022 and 2023 in the UK, Belgium and the United Arab Emirates.

In the course, based on the CEDA-IADC guidebook Dredging for Sustainable Infrastructure published in 2018, participants learned how to achieve dredging projects that fulfil primary functional requirements while adding value to the natural and socio-economic systems by acquiring an understanding of these systems in the context of dredging, as well as stakeholder engagement throughout a project's development.

Experienced lecturers describe the latest thinking and approaches, explain methodologies and techniques as well as demonstrate - through numerous practical examples - how to



*DfSI course in Beveren, Belgium, June 2023*

implement this information in practice by engaging workshops and case studies.

### **Dredging Days 2024**

The next edition of the revamped Dredging Days will take place in 2024 but a lot of the preparation work was already done in 2022 and 2023.

CEDA Dredging Days is the flagship conference of CEDA and is the main event on the dredging industry calendar in the CEDA (EMEA) region. It is widely considered to be the primary forum for leading researchers and industry experts, to share ideas, discuss challenges and consider potential solutions. The conference is well-attended by professionals representing the entire cross-section of the dredging field, from across the CEDA region and beyond. As such, it is also appreciated for the exceptional networking opportunities it offers.

The dredging community has proven its ability to adapt to a changing world. Rather than simply following new rules and regulations, the industry is leading, innovative and open to

co-operation. To reflect the dredging community spirit even more, CEDA has decided to revamp their Dredging Days programme for the 2024 edition, where we will engage with the theme “Dredging in a changing world, leading science and business in the dredging industry”. This revamped edition will take place from 27-29 May 2024 at the Postillion Hotel & Convention Centre WTC Rotterdam, situated in the centre of the city of Rotterdam, the Netherlands; a modern, central and invigorating location.

One of the main features of the revamp is the addition of the central Clubhouse, which has a strong focus on networking in an intimate setting, and serves as the central meeting place for coffee breaks, lunches and social events. The Clubhouse will replace the formal exhibition set up with stands and create an informal networking area instead, with a mix of lounge furniture where attendees can relax and enjoy a moment to engage in informal conversations with their peers at any time during the conference.

Other key features of the new set-up:

- a 3 day event dedicated to the dredging industry
- a “stand-alone” conference (no longer combined with Europort)
- a widely varied programme, interesting for a broad audience and promoting attendee interaction
- parallel sessions featuring the latest technical developments, learning from other industries, innovation pitches, panel discussions and much more.





# FINANCES

Expenditures	2023	2022	Income	2023	2022
	k€	k€		k€	k€
Office and governance	45.6	47.5	Membership fees		
Staff	157	150	- Individual members	17.9	18.3
			- Corporate Members	236.4	228.6
			Other income	16	11.5
Services and Newsletter	26.3	36.3			
Special activities	4.1	-142.6			
National Sections					
- Belgian Section	4.3	3.3			
- British Section	4.3	5.2			
- Dutch Section	7.8	8.3			
<b>Total</b>	<b>249.4</b>	<b>108.0</b>	<b>Total</b>	<b>270.3</b>	<b>258.4</b>

	2023	2022
Result	20.9	150.4
Reserves	484.1	463.2

# OBJECTIVES FOR 2024-2025

Our events and activities within the commissions, working groups and national sections, as well as our work with the International Conventions and groups within the European Commission, remain vital.

We look forward to the revamped Dredging Days taking place in Rotterdam, the Netherlands in May 2024.

At the Dredging Days we will welcome our new president Kathleen De Wit, IMDC, Belgium. Her goals for the future of CEDA:

- Encourage more women into the business.
- Engage more members from Africa and the Middle East.
- Join forces and look for synergies with other dredging related organisations.
- Continue to bring added value for our members by staying on top of the actual challenges of the industry and supporting our members in facing them by providing and sharing relevant knowledge and bringing together all parties involved to converge together to find solutions that are supported by and workable for all.

Below we highlight some of the other initiatives that we are developing and working on:

- There is an information paper in the pipeline to be published in 2024 on Adaptive Management.
- The CEDA Working Group on Certification of Sustainable Marine and Freshwater Infrastructure Projects will produce a report mid-2024.
- A new working group will start on Substances of possible concern in sediment.
- Together with Royal IHC, three webinars will be organised specifically for the African market.
- The board is investigating the possible set-up of a Middle East section.
- The WODA Working Group on Safety published a check list early in 2024.

# ACKNOWLEDGEMENTS

## Volunteers

CEDA is driven by its members, many of whom voluntarily provide their time and expertise. The growth of the association is based on their enthusiastic and dedicated work. They are the true pillars of CEDA. In 2022 and 2023, over 250 members from 112 companies and across 23 countries have been active in CEDA in various commissions and working groups.

We would like to thank all those silent and sometimes not so silent workers who give up their free time to contribute to CEDA's successes. In many cases, their employers allow them to do part of this work in their company's time, so we express our gratitude to those companies too.

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### ***TG-Noise Group***

**Frank Thomsen**, DHI, Denmark

### ***EU Water Framework Directive***

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CEDA, as a small and independent organisation, can neither exist nor survive without the support of its members - especially its corporate members. This support is not only financial, in the form of membership fees and sponsorship, but it is also manifested by member companies and organisations endorsing their employees' active participation in CEDA's work, through their membership in various commissions, committees and working groups.

The CEDA Board of Directors wishes to express its sincere gratitude to the following companies and organisations which, through their corporate membership, have contributed to CEDA's work and achievements in 2022 and 2023.

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Web: [www.portdufutur.fr](http://www.portdufutur.fr)



**ISPRa - Institution for Environmental Protection and Research**  
Italy  
Web: [www.isprambiente.gov.it](http://www.isprambiente.gov.it)



**Marine Scotland**  
United Kingdom  
Web: <https://marine.gov.scot/>



**Ministry of Infrastructure & Water Management**  
The Netherlands  
Web: <https://www.government.nl/ministries/ministry-of-infrastructure-and-water-management>



**Ministry of the Flemish Community Maritime Access Division**  
Belgium  
Web: [www.maritiemetoegang.be](http://www.maritiemetoegang.be)



**Ministry of the Flemish Community/Agency for Maritime and Coastal**  
Belgium  
Web: [www.agentschapmdk.be](http://www.agentschapmdk.be)

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**Alewijnse**  
The Netherlands  
Web: [www.alewijnse.com](http://www.alewijnse.com)



**Alia Instruments BV**  
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Web: [www.aliainstruments.com](http://www.aliainstruments.com)



**Bakker Sliedrecht Electro Industrie BV**  
The Netherlands  
Web: [www.bakkersliedrecht.com](http://www.bakkersliedrecht.com)



**Bell Dredging Pumps**  
The Netherlands  
Web: [www.belldredging.com](http://www.belldredging.com)



**C.C. Jensen Benelux BV**  
The Netherlands  
Web: [www.ccjensen.nl](http://www.ccjensen.nl)



**Caterpillar Motoren GmbH & Co.KG**  
Germany  
Web: [www.caterpillar.com](http://www.caterpillar.com)



**Damen Dredging Equipment BV**  
The Netherlands  
Web: [www.damendredging.com](http://www.damendredging.com)



**Damen Offshore & Specialized Vessels B.V.**  
The Netherlands  
Web: [www.damen.com](http://www.damen.com)



**DE Klop B.V.**  
The Netherlands  
Web: [www.deklopbv.com](http://www.deklopbv.com)



**Dredge Yard**  
The Netherlands  
Web: [www.dredgeyard.com](http://www.dredgeyard.com)



**Dutch Dredging Components B.V.**  
The Netherlands  
Web: <https://www.dutchdredgingcomponents.com/>



**East Marine**  
China  
Web: [www.jsdymarine.com](http://www.jsdymarine.com)



**ECTMarine**  
The Netherlands  
Web: [www.ectmarine.com](http://www.ectmarine.com)



**Flender B.V.**  
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Web: [www.flender.com](http://www.flender.com)



**Geomil Equipment BV**  
The Netherlands  
Web: [www.geomil.com](http://www.geomil.com)



**De Graaf Aandrijvingen BV**  
The Netherlands  
Web: [www.degraaf-aandrijvingen.nl](http://www.degraaf-aandrijvingen.nl)



**Heck BV**  
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Web: [www.vanheckgroup.com](http://www.vanheckgroup.com)



**Holland MT**  
The Netherlands  
Web: [www.HollandMT.com](http://www.HollandMT.com)



**Royal IHC**  
The Netherlands  
Web: [www.royalihc.com](http://www.royalihc.com)



**KSB - GIW Slurry pumps**  
The Netherlands  
Web: [www.KSB.com](http://www.KSB.com)



**Lagersmit**  
The Netherlands  
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**Machinefabriek De Hollandsche Yssel BV**  
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Web: [www.hollandscheijssel.nl](http://www.hollandscheijssel.nl)



**MAN Energy Solutions**  
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**MAN Energy Solutions SE**  
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Web: [www.man-es.com](http://www.man-es.com)



**Metalogenia, S.A**  
Spain  
Web: <https://mtgcorp.com/>



**MOTAS Dredging Solutions**  
The Netherlands  
Web: [www.aptdredgingsolutions.com](http://www.aptdredgingsolutions.com)



**Nanjing Deers Industrial**  
PR China  
Web: [www.chinarubberfender.com](http://www.chinarubberfender.com)



**Neptune**

**Neptune**  
The Netherlands  
Web: [www.neptunemarine.com](http://www.neptunemarine.com)



**Nortek Netherlands BV**  
The Netherlands  
Web: [www.nortekgroup.com](http://www.nortekgroup.com)



**Parc BV**  
The Netherlands  
Web: [www.parcbv.com](http://www.parcbv.com)



**Prolec**  
United Kingdom  
Web: <https://safe.prolec.co.uk/>



**Remu Oy**  
Finland  
Web: [www.remu.fi](http://www.remu.fi)



**Rohr-Idreco Dredge Systems BV**  
The Netherlands  
Web: <https://rohr-idreco.com/en/>



**Solmax**  
The Netherlands  
Web: [www.solmax.com](http://www.solmax.com)



**Stork Gears and Services**  
The Netherlands  
Web: [www.stork.com/gears](http://www.stork.com/gears)



**Teledyne Reson**  
The Netherlands  
Web: [www.teledynemarine.com/reson](http://www.teledynemarine.com/reson)



**TrustLube**  
The Netherlands  
Web: [www.trustlube.com](http://www.trustlube.com)



**Ultra Tech Pipe**  
USA  
Web: [www.ultratechpipe.com](http://www.ultratechpipe.com)



**VandeGrijp IGS BV**  
The Netherlands  
Web: [www.vandegrijp.com](http://www.vandegrijp.com)



**VOSTA LMG B.V.**  
The Netherlands  
Web: [www.vostalmg.com](http://www.vostalmg.com)



**Vuyk Engineering Rotterdam BV**  
The Netherlands  
Web: [www.vuykrotterdam.com](http://www.vuykrotterdam.com)



**Wärtsilä Nederland BV**  
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Web: [www.wartsila.com](http://www.wartsila.com)



**Agence Nationale des Ports**  
Morocco  
Web: [www.anp.org.ma](http://www.anp.org.ma)



**Hamburg Port Authority**  
Germany  
Web: [www.hamburg-port-authority.de](http://www.hamburg-port-authority.de)



**Harwich Haven Authority**  
United Kingdom  
Web: <https://hha.co.uk/>



**Haven van Antwerpen-Brugge NV**  
Belgium  
Web: [www.portofantwerpbruges.com](http://www.portofantwerpbruges.com)



**North Sea Port Netherlands NV**  
The Netherlands  
Web: [www.northseaport.com](http://www.northseaport.com)





**Port of Rotterdam NV**  
The Netherlands  
Web: [www.portofrotterdam.com](http://www.portofrotterdam.com)



**Transnet National Port Authority**  
South Africa  
Web: <https://www.transnetnationalportsauthority.net/OurBusinessUnit/DredgingServices/Pages/default.aspx>

**DREDGING AND MARINE CONTRACTORS**



**Aquatex Ltd**  
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Web: [www.aqt.lv](http://www.aqt.lv)



**Atlantic Dredging Corporation**  
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Web: [www.atlanticdredging.com](http://www.atlanticdredging.com)



**Baggerwerken Decloedt&Zoon NV**  
Belgium  
Web: [www.deme-group.com](http://www.deme-group.com)



**Royal Boskalis**  
The Netherlands  
Web: [www.boskalis.com](http://www.boskalis.com)



**DC Industrial**  
DC Industrial NV  
Belgium  
Web: [www.grouptdecloedt.be](http://www.grouptdecloedt.be)



**DEME Dredging NV**  
Belgium  
Web: [www.deme-group.com/dredging](http://www.deme-group.com/dredging)



**Dragus int.**  
Portugal  
Web: [www.dragus.pt](http://www.dragus.pt)



**Drapor: Dragages Ports**  
Morocco  
Web: [www.drapor.com](http://www.drapor.com)



**Dredge Masters**  
Ghana  
Web: [www.dredgemastersghana.com](http://www.dredgemastersghana.com)



**Dutch Dredging BV**  
The Netherlands  
Web: [www.dutchdredging.nl](http://www.dutchdredging.nl)



**EMODRAGA**  
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Web: [www.emodruga.co.mz](http://www.emodruga.co.mz)



**Ghent Dredging NV**  
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**GTKATE Engineering & Marine Services Limited**  
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Web: [www.gtkate.com](http://www.gtkate.com)



**Gulf Cobla LLC**  
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Web: [www.gulfcobla.com](http://www.gulfcobla.com)



**Herbosch-Kiere**  
Belgium  
Web: [www.herbosch-kiere.com](http://www.herbosch-kiere.com)



**Heuvelman Ibis B.V.**  
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**De Hoop Terneuzen BV**  
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Web: [www.dehoop-terneuzen.nl](http://www.dehoop-terneuzen.nl)



**JAN DE NUL NV**  
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**Lcm Rota Insaat Ve Denizcilik**  
Turkey  
Web: [www.lcmrotadenizcilik.com](http://www.lcmrotadenizcilik.com)



**National Marine Dredging Co.**  
United Arab Emirates  
Web: [www.nmdc.com](http://www.nmdc.com)



**UK Dredging (ABP)**  
United Kingdom  
Web: [www.ukdredging.co.uk](http://www.ukdredging.co.uk)



**Wasa Dredging Oy Ltd**  
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Web: [www.wasadredging.fi](http://www.wasadredging.fi)



**BMT**  
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**in2Dredging**  
Australia  
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**Terramare Oy**  
Finland  
Web: <https://terramare.boskalis.com/en/>



**Van Oord Dredging & Marine Contractors BV**  
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Web: [www.vanoord.com](http://www.vanoord.com)



**ARCADIS Nederland BV**  
The Netherlands  
Web: <https://www.arcadis.com/nl-nl>



**EnviroCentre Limited**  
United Kingdom  
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**International Marine & Dredging Consultants nv (IMDC)**  
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Web: [www.imdc.be](http://www.imdc.be)



**Land and Water Group**  
United Kingdom  
Web: [www.land-water.co.uk](http://www.land-water.co.uk)



**Royal HaskoningDHV**  
The Netherlands  
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**Stema Systems**  
The Netherlands  
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**Svasek Hydraulics**  
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**Witteveen+Bos Consulting Engineers**  
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**Delft University of Technology**  
The Netherlands  
Web: <https://www.tudelft.nl>



**Hanzehogeschool Groningen**  
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**Skilltrade BV**  
The Netherlands  
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**STC Group**  
The Netherlands  
Web: [www.stc-group.nl](http://www.stc-group.nl)

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**Atlas Services Group BV**  
The Netherlands  
Web: [www.atlasprofessionals.com](http://www.atlasprofessionals.com)



**Conway Advocaten & Attorneys-at-law**  
The Netherlands  
Web: [www.conway-partners.com](http://www.conway-partners.com)



**DSB Offshore Ltd**  
United Kingdom  
Web: [www.dsboffshore.com](http://www.dsboffshore.com)



**DTN Europe BV**  
The Netherlands  
Web: [www.dtn.com](http://www.dtn.com)



**Gareloch Support Services BV**  
The Netherlands  
Web: [www.gssplant.co.uk](http://www.gssplant.co.uk)



**iPS Powerful People**  
The Netherlands  
Web: [www.ipspowerfulpeople.com](http://www.ipspowerfulpeople.com)



**Marine and Coastal Construction Service (MACCS)**  
United Kingdom  
Web: [www.maccs.co.uk](http://www.maccs.co.uk)



**Rabobank Nederland Corporate Clients**  
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**ASSOCIATIONS**



**Hafentechnische Gesellschaft e.V.**  
Germany  
Web: [www.htg-online.de](http://www.htg-online.de)



**IRO**  
The Netherlands  
Web: [www.iro.nl](http://www.iro.nl)



**VWV**  
The Netherlands  
Web: [www.waterbouwers.nl](http://www.waterbouwers.nl)

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