

COMPANY
PROFILE



ENVISAN
ENVIRONMENTAL WORKS



“ENVISAN IS FULLY COMMITTED TO VALORISATION.”

INNOVATION, EXPERTISE AND SUSTAINABILITY

These are the driving forces supporting the success of Jan De Nul Group. Thanks to our committed employees and tailored solutions, the Group is the current market leader in dredging and marine works as well as a specialised provider of services for the offshore market of oil, gas and renewables. The Group is also a major player in civil engineering, environmental and brownfield development projects. Within the Jan De Nul Group, Envisan is the ideal partner for ecological dredging and sediment treatment, soil and groundwater sanitation, the processing and valorisation of waste, and the storage and processing of soils and sediments in its own processing centres.

SUSTAINABLE SOLUTIONS FOR SEDIMENTS, GROUNDWATER, SOIL AND WASTE

Envisan offers its clients a comprehensive solution which takes account of both economic and ecological aspects. Clients from the public and private sectors all over the world have faith in our expertise and experience to provide an answer to their most complex demands.

As an environmental contractor, Envisan makes a major contribution to improving the environment. Envisan works actively on the sustainable development of brownfields, redeveloping polluted industrial sites and residential areas, processing excavated soils, and solving environmental problems in ports, canals, and waterways. Envisan always offers a highly professional approach, the commitment of motivated and qualified staff, and a partnership which make the difference.

Envisan always starts on the basis of the client's needs. Environmental problems are analysed and possible technical solutions are considered. A suitable and sustainable solution is offered with an optimal price/quality ratio.



INVESTING IN RESEARCH, DEVELOPMENT AND INNOVATION

Envisan uses state-of-the-art techniques. Research, development, and ongoing improvement through innovation are crucial. The Envisan research and development department is always aware of state-of-the-art redevelopment and processing techniques and is constantly looking for innovative solutions. Typical of Jan De Nul Group, an integrated approach is also a leading feature of Envisan, from design to execution, in which maximum use is made of the company's own material and processing centres.

QUALITY, HEALTH, SAFETY, SECURITY, AND THE ENVIRONMENT AS PRIORITY

As an ambitious global company, Jan De Nul Group realises that it owes its market leader position above all to the qualitative and safe execution of projects, its efforts in the field of safety and environmental protection and the motivation of its personnel.

The main capital of a company consists of the people working within it. Their wellbeing and safety have absolute priority. To this purpose, Jan De Nul Group has implemented its **Imagine-Think-Act** programme, or in short ITA, to raise safety awareness among its employees. ITA is a working system helping everyone to think about the risks and possibilities as well as a clear plan of action before acting.

Envisan is certified in accordance with the standards ISO9001, ISO14001, OHSAS 18001 and VCA. The energy management system is set up in accordance with the ISO50001 standard which incorporates certification in the medium to long term. Furthermore, Envisan is certified for three categories under the Achilles protocol for redevelopment projects in Flanders (Belgium).

ENVIRONMENTAL DREDGING AND SEDIMENT TREATMENT

All over the world the various Jan De Nul Group dredging projects generate large quantities of dredging sediments, which might sometimes be polluted. Envisan staff are responsible for providing a sustainable treatment and obtaining maximum valorisation.

To this end, Envisan, in collaboration with the dredging division, has developed specific tools and techniques (both hydraulic and mechanical) for removing sediments from the sea, waterways, or canals as efficiently and ecologically as possible. In

this way Envisan makes a sustainable contribution to the circular economy.

Polluted sediments are dewatered and then treated either on site or in our own treatment centres using all sorts of diverse techniques before they are given a final destination. Standard techniques include biological or physical-chemical cleaning, sediment removal by liquid cyclone treatment, and immobilisation/stabilisation. In many cases the treated sediments can be re-used in engineering applications.



Construction of a flood control dike with dredging sediments in Vlassenbroek (Belgium)



Treatment of dredged sediments from the Port of Antwerp in the AMORAS installation (Belgium)



Redevelopment of the port basin in Oskarshamn (Sweden)



Valorisation of polluted dredging sediments in a landscape dike in Dunkirk (France)



Redevelopment of the port basin and port approach channel with dredging sediments in Trondheim (Norway)

SOIL AND GROUNDWATER REHABILITATION

Industrial activities, disasters, or losses can lead to soil and groundwater pollution. The areas affected are often industrial or public premises, but private areas can also be affected as well. Historically, polluted plots of land have sometimes been neglected in expectation of redevelopment.

Using its years of knowledge and experience in carrying out soil and groundwater rehabilitation, Envisan can provide an answer for complex projects which require a committed and integrated approach,

which has to combine civil engineering (including stability measures), demolition work, hydrogeology, and environmental technology. Envisan works on each project separately with attention to the environment, health, and the final purpose of the land.

Together with its affiliated company *PSR Brownfield Developers*, Envisan specialises in the rehabilitation and redevelopment of brownfields, with a comprehensive approach including the sanitation, rehabilitation, and later redevelopment of the land.



Redevelopment work on a brownfield in Lier as part of a residential area redevelopment (Belgium)



Pilot schemes on the premises of Bochim in Machelen (Belgium)



Redevelopment work on former Terken gas plant premises in Roubaix (France)



Control measures for groundwater panicle from solvents containing chlorine at Vopak (Antwerp)

PROCESSING AND VALORISATION OF WASTE

The growing consumption and the imminent exhaustion of natural raw materials is increasingly compelling companies and public authorities to treat waste more ecologically. This is not only due to ecological considerations, but also due to the economic reality that waste can often be used to extract another valuable raw material or fuel.

Envisan offers sustainable and customised solutions and services with regard to the treatment, re-use,

valorisation, and safe storage of specific streams of waste. The focus here is on the quality implementation of multidisciplinary environmental redevelopments where project managers can call upon the technological and innovative capacities of Jan De Nul Group. Moreover, Envisan strives to combine this approach as much as possible with the production of renewable energy.



Redevelopment of the Terranova gypsum site in Evergem/Zelzate (Belgium)



Environmental dredging, selective excavation, sediment treatment, and dumping site layout in Sfax (Tunisia).



Redevelopment of the Jacusevec dumping site in Zagreb (Croatia)



Design, construction, and exploitation of a waste processing installation in Pitesti (Romania)

SOIL AND SEDIMENT TREATMENT CENTRES

Past major infrastructure and engineering works can leave a legacy of significant quantities of soils which are polluted. Dredging activities in waterways can also result in large quantities of polluted sediments.

With its Recycling Centres and Temporary Storage Sites, Envisan is the ideal partner for looking for the most economic and ecological comprehensive solution for processing soils and/or sediments. Moreover, we offer clients the option for Envisan to deal with the administrative component as well as looking for a suitable end client with a view to possible valorisation. With its centres, Envisan contributes directly to the circular economy.

Envisan is the owner of six soil and/or sediment treatment centres, which are also licensed for the temporary storage of unpolluted soils.

The storage sites also act as soil depot for civil engineering projects or other works.

Envisan has the necessary licences and specialist installations for applying various cleansing techniques and treating polluted soil types. This means that Envisan can tackle any sort of potential soil pollution, from soils contaminated by mineral oil (diesel and petrol) to heavy metals PAK's, cyanides, PCBs, and asbestos.

Several of our installations are mobile, so we can carry out cleansing work on site.



Soil and sediment treatment centre in Hulsdonk (Belgium)



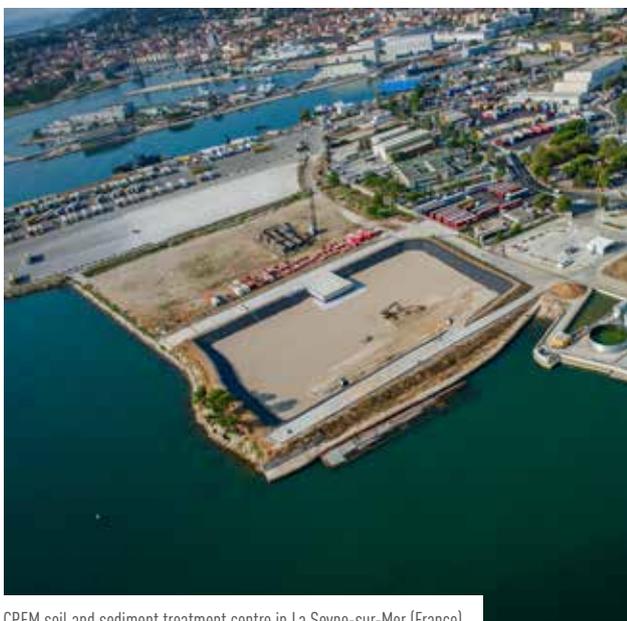
Soil and sediment treatment centre at Ile Monsin near Liege (Belgium)



Temporary storage site in Brussels (Belgium)



Soil treatment centre in Saint-Ghislain (Belgium)



CPEM soil and sediment treatment centre in La Seyne-sur-Mer (France)



Sediment treatment centre along the Bossuit-Kortrijk canal in Moen (Belgium)



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