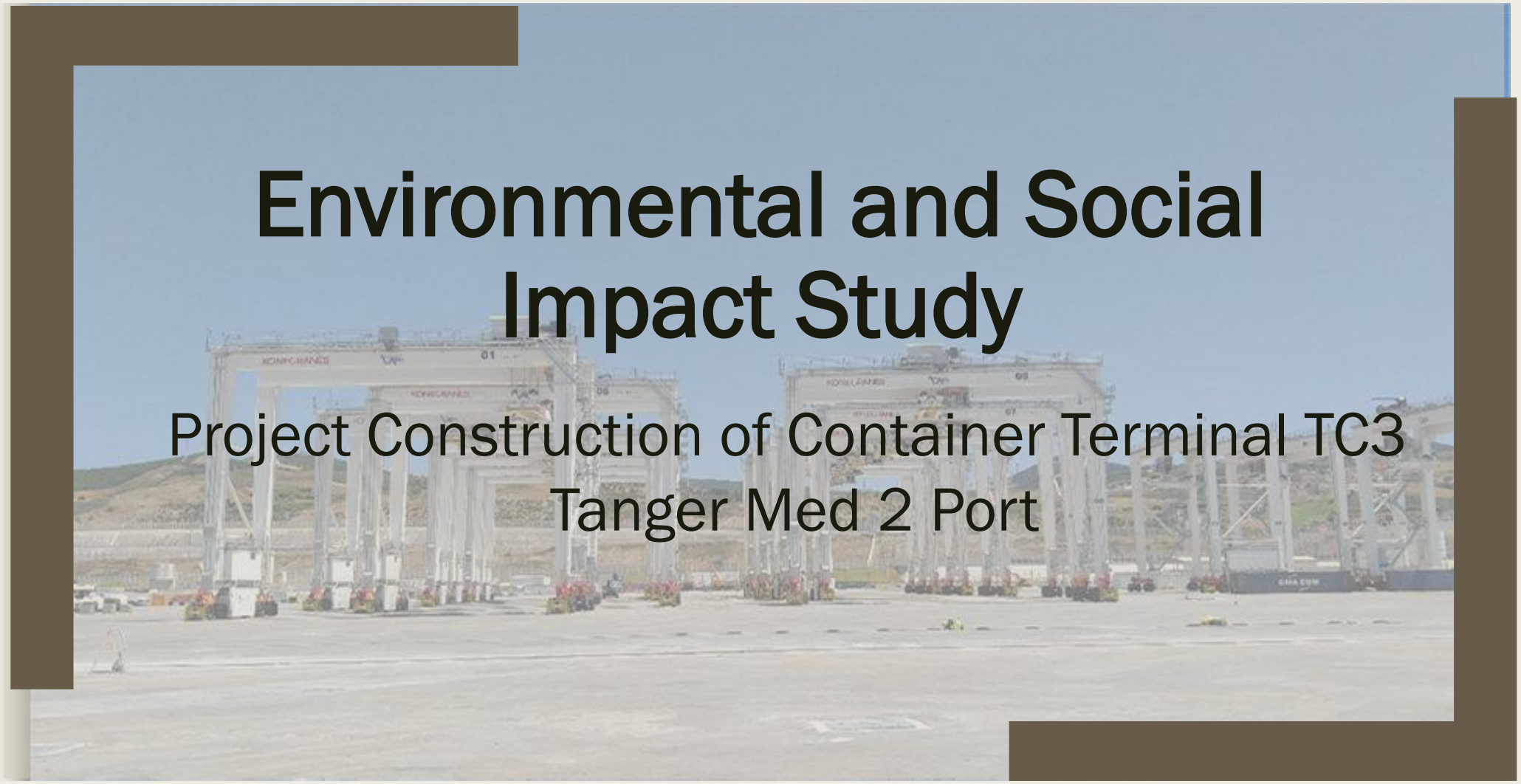


Environmental and Social Impact Study

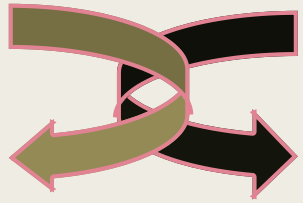
Project Construction of Container Terminal TC3
Tanger Med 2 Port

Introduction of the project owner and the main objectives of the study

Tanger Alliance :Project owner

The main objectives of the Environmental and Social Impact Study are as follows:

Respect the technical requirements of the project



Responding to the environmental aspirations of the study area

This is to enable the proper integration of the project into its environmental and social surroundings

Summary

Summary

-Description and presentation of the project

-Environmental Impact Area

-Description of the initial state of the environment

-Potential impacts of the project

-Mitigation measures

-Environmental Monitoring and Tracking Program

-Environmental Compendium

Legal framework for public consultation

The International finance Institutions guidelines oblige project holders to undertake public consultations within the framework of the environmental and social assessment study of the project's impacts.

Moroccan laws also urge public research before presenting environmental and social impact studies to the competent committees.

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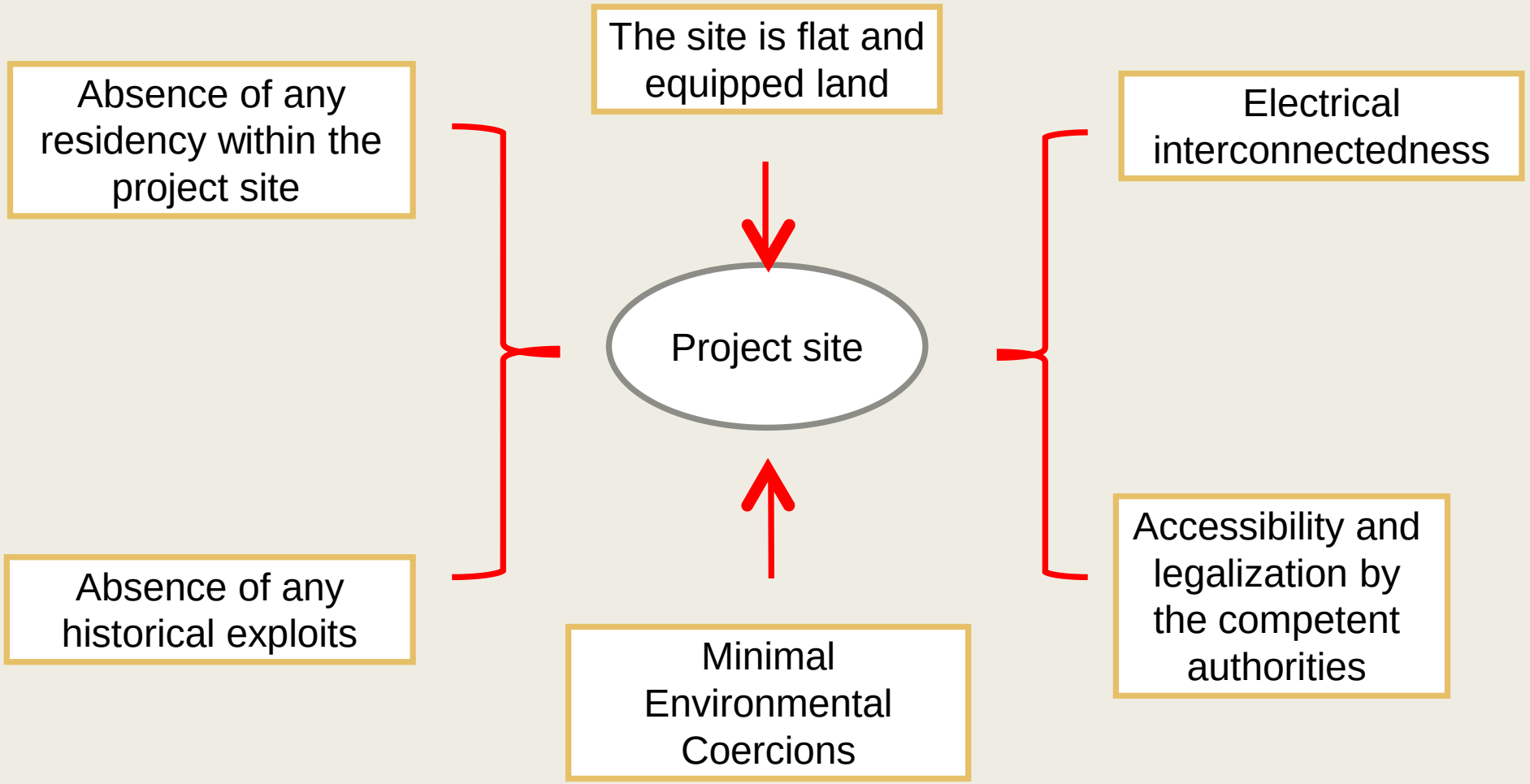
Presentation :

The project aims to set up the third container terminal TC3 in the port of Tanger Med 2

Project presentation

Criteria for selection of project location



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Description and presentation of the project

Project framework

-A major rainwater drainage system at several levels to avoid technical interventions
-Completion and laying of suitable ground for construction of the project
-Appropriate tiling system;
-Put a railway on the sidewalk to move the cranes
-Construction of the sewage system;
-Fencing the site;
-Building administrative complex, offices, workshop, dressing room, access control buildings, gates.

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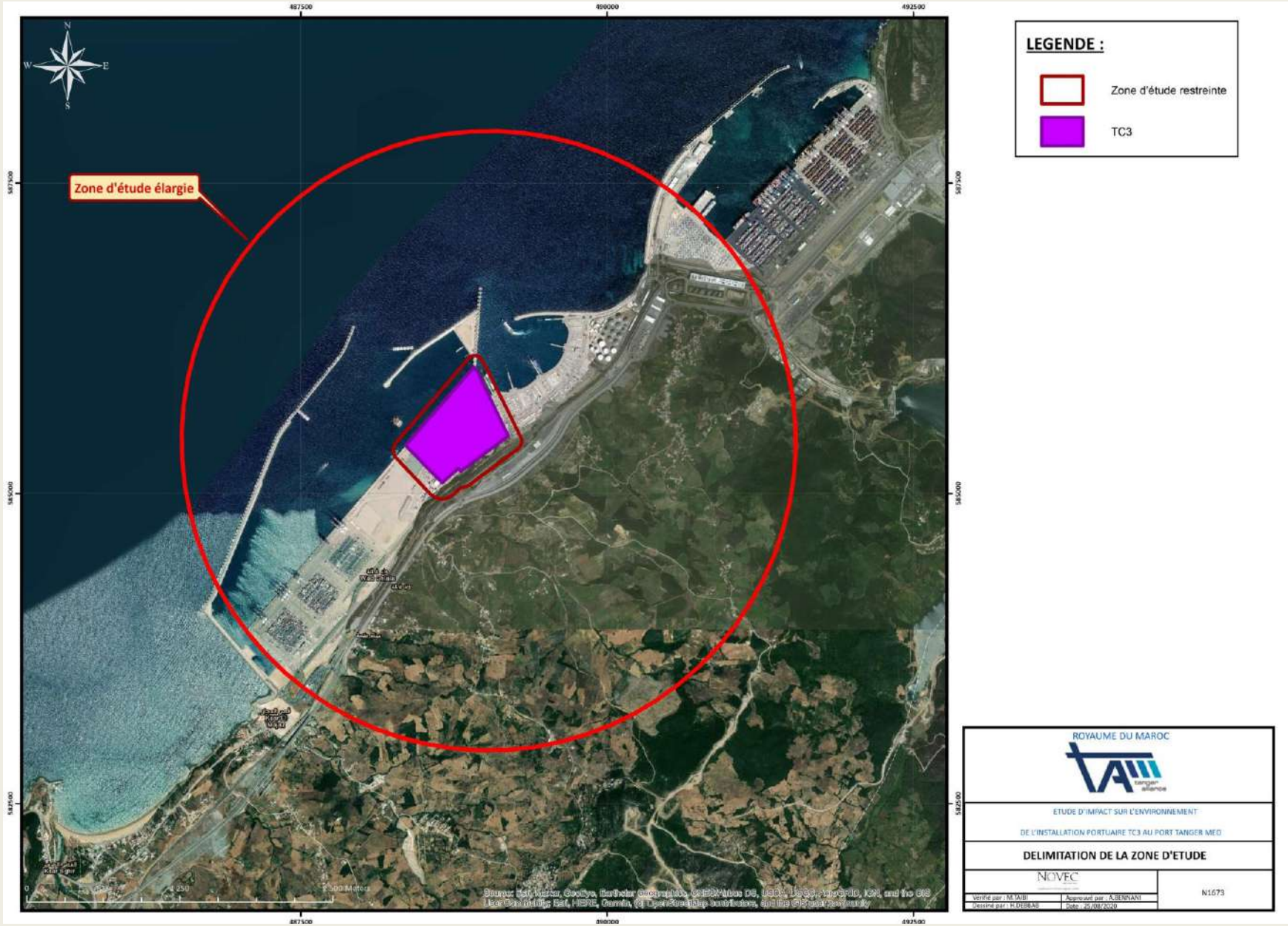
Project site

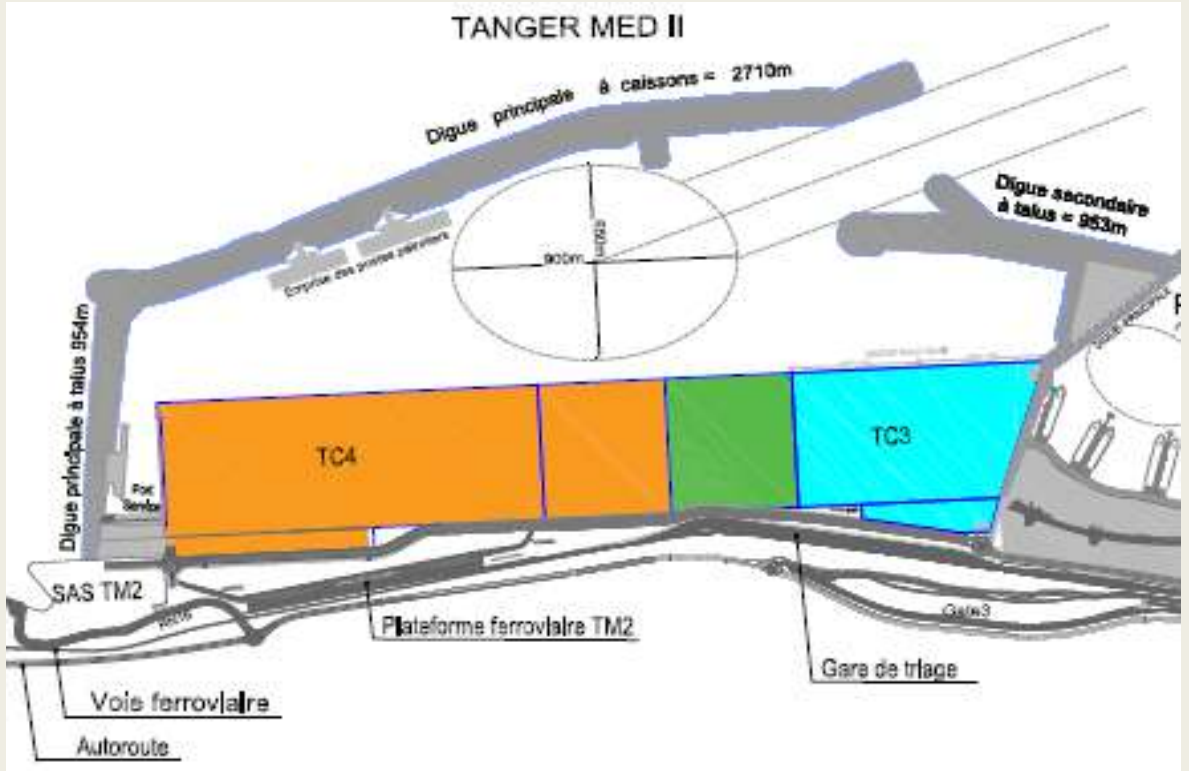


Description and presentation of the project

Project features

The TC3 container terminal is approximately 36 hectares, enabling 800 longitudinal metres of pavement to be configured, with a capacity of approximately 150 000 EVP

Site	Tangier Med 2 port
Quayside	800 m
Surface	36 ha
Water dept	-18 m
Cranes	8 STS
EVP Capacity	1 500 000 EVP
Traffic nature	Transhippement
Start of concession	December 2020
Concession duration	30 years (until mars 2046) with possibilty of extension to 20 year
Project owner	Tanger Alliance



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Description and presentation of the project

Project Preparation

Establishment of electrical systems, potable water system and fire response,

Tiling System:
It is related to resistant coverage, in order to withstand the weight of container piles, RTG cranes, trucks and cargo loaders;

Rainwater Drainage System:
It consists of ready-made water drainage channels, parallel to the sidewalk, equipped with gates for the reception of rainwater and transported in subterranean pipes vertically on the sidewalk. The outlet of these pipes heads directly to the sea, through the discharge point established by TMSA on the sidewalk;

Sewage Network:
The planned sewage system covers all outlet of concession area buildings.

Potable Water Network:
The network will receive potable water from one end, TMSA via the main network that extends along the port road network.
TMSA will provide services at 2 bar, 200 litres per hour daily flow speed

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Description and presentation of the project

Project preparation

Workforce

	2022	2021	2020
Direct workforce	**287**	294	295
Indirect workforce	**242**	241	115
Total	**529**	535	410

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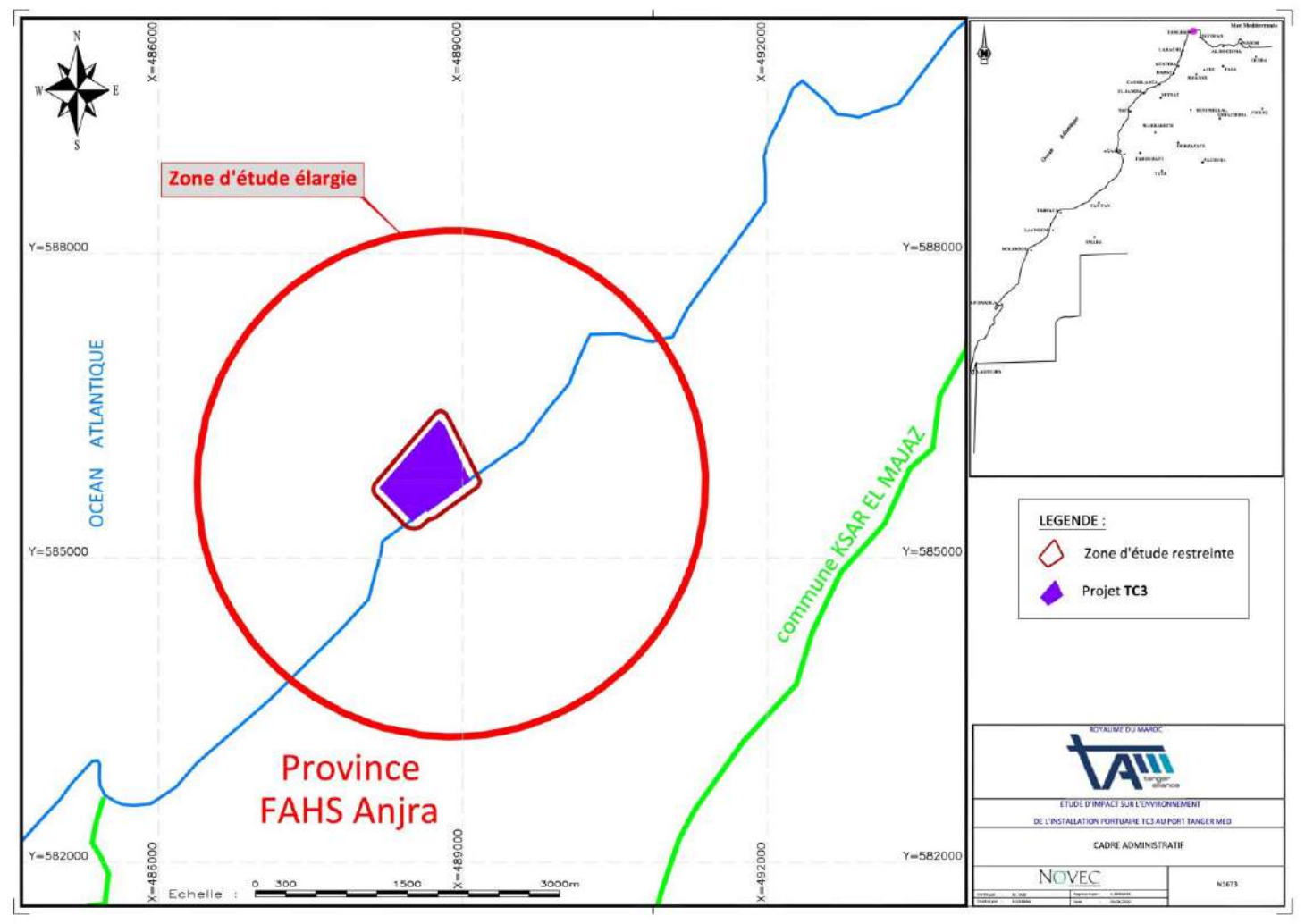
Environnemental study

Environmental Reference Status

administrative division



Entity: TANGIER TETUAN EL HOUCEIMA

Territory: FAHSI ANJR

Province: KSAR AL MAJAZ

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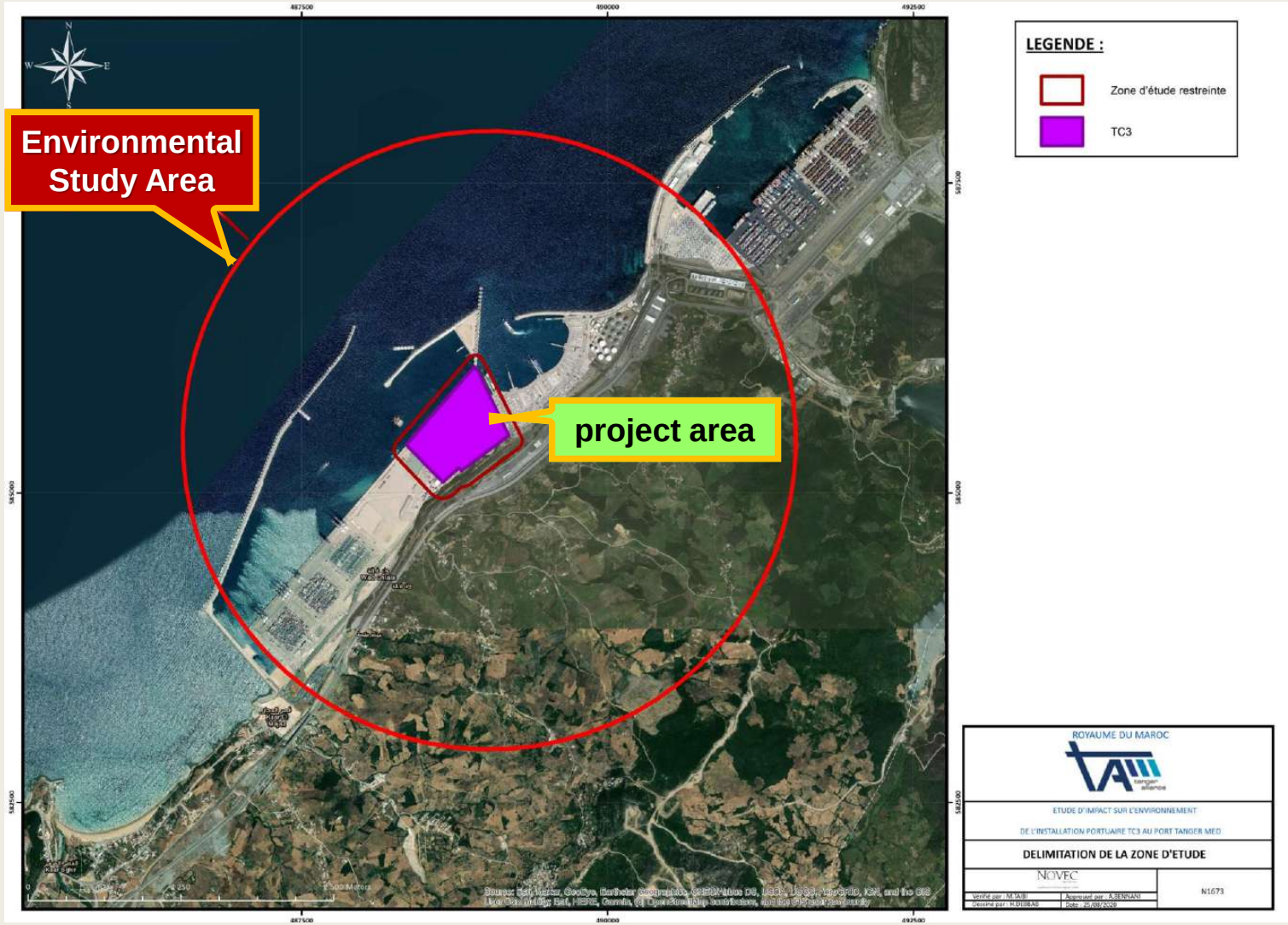
Identification of the field of environmental study



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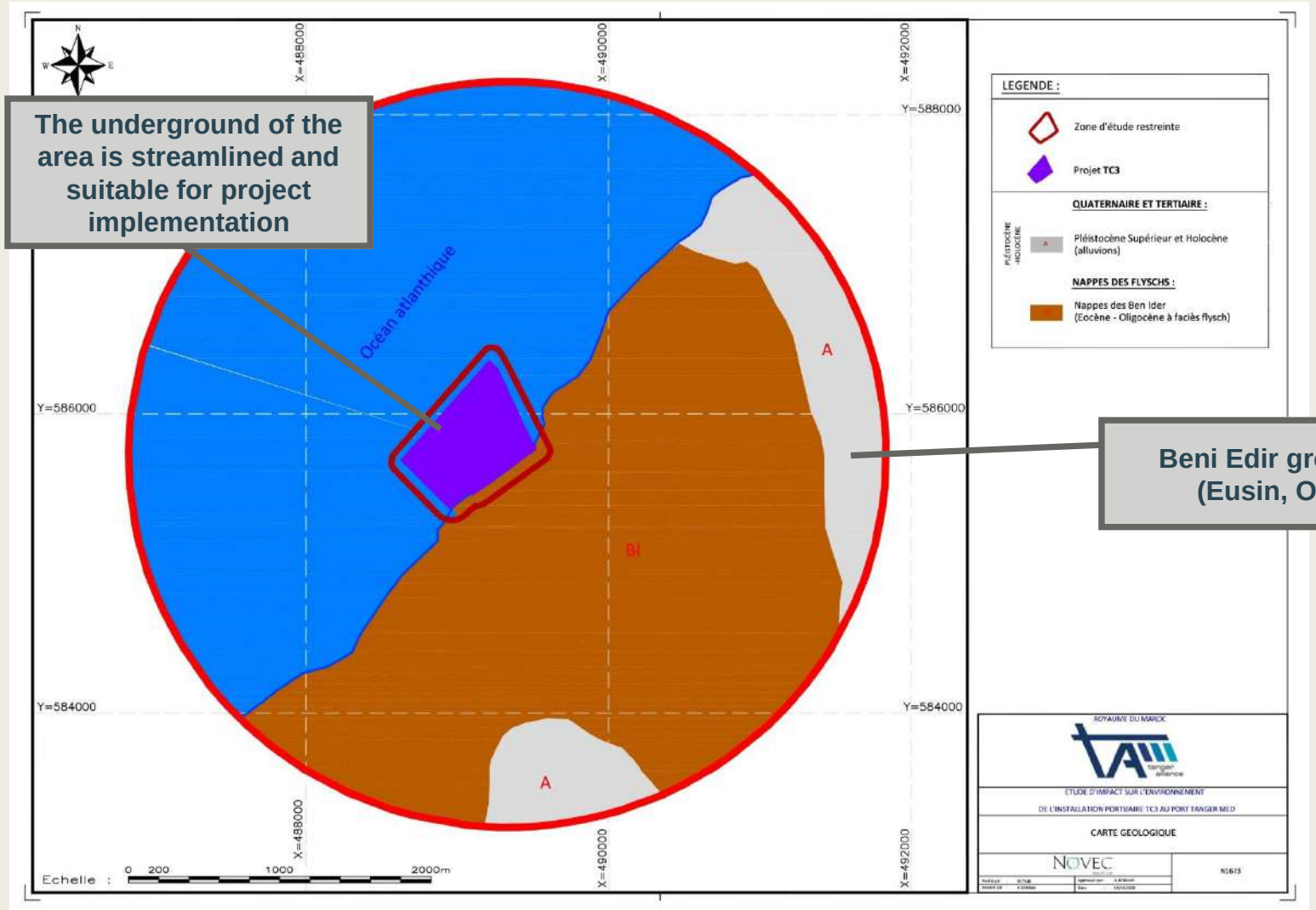
Environmental Reference Status

Geological perimeter

The underground of the area is streamlined and suitable for project implementation



Beni Edir groundwater (Eusin, Oligosin)

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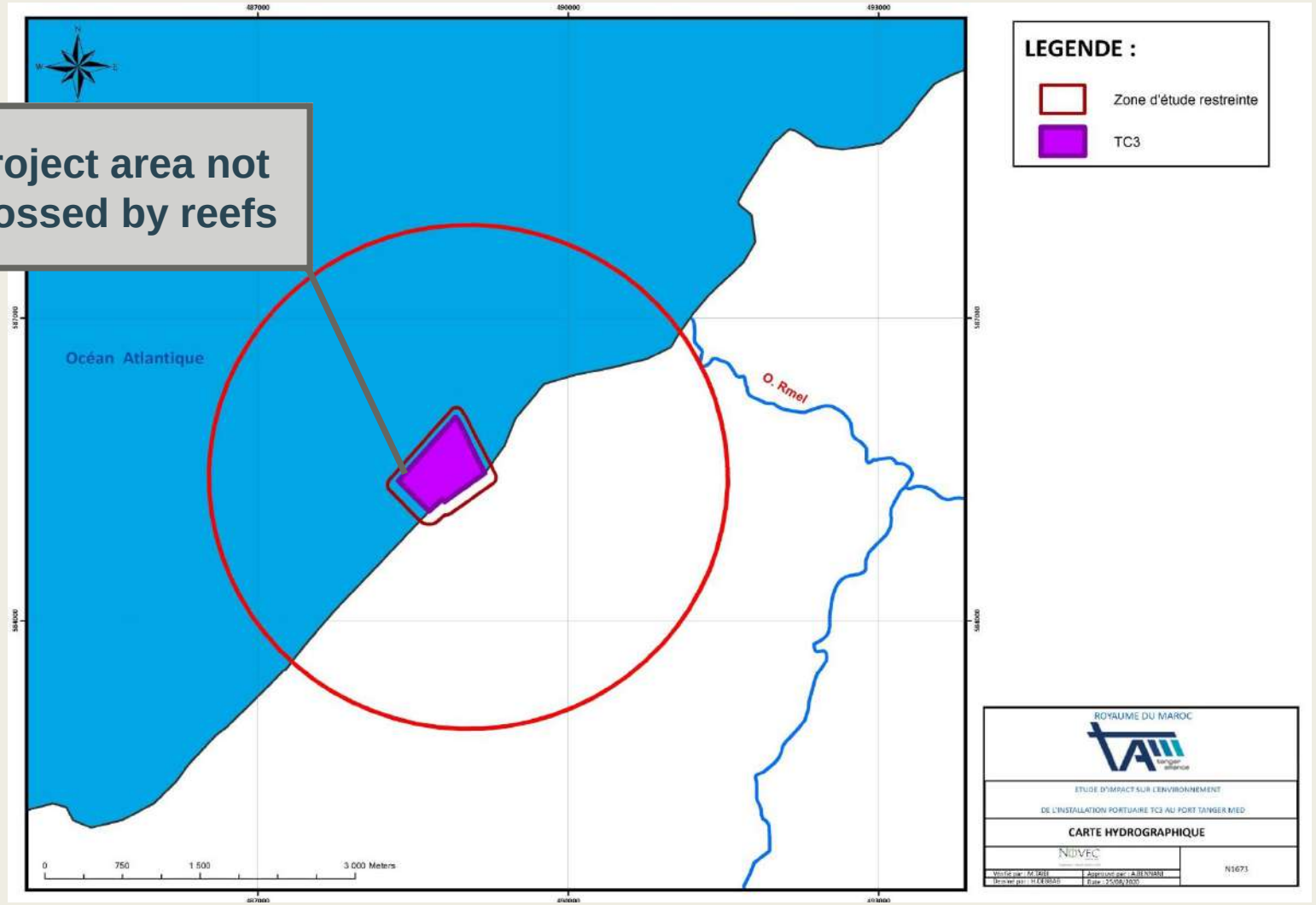
Environmental Reference Status

water runoff

Project area not crossed by reefs



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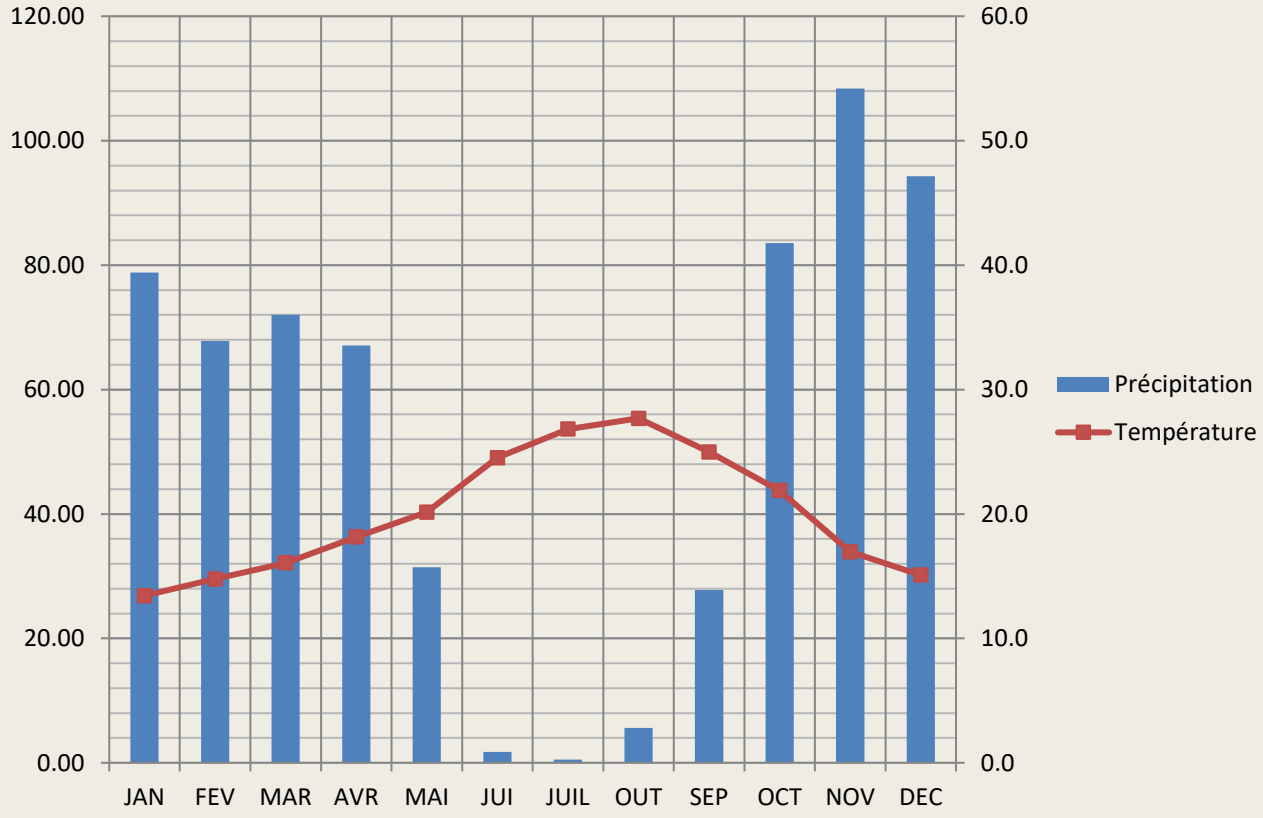
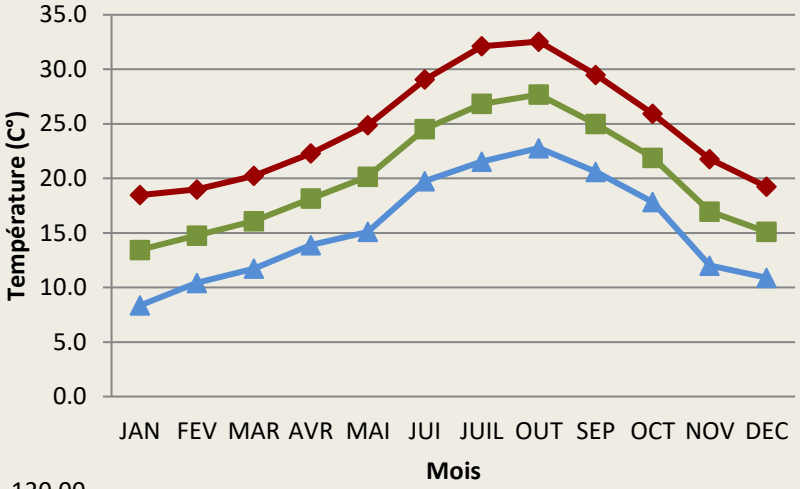
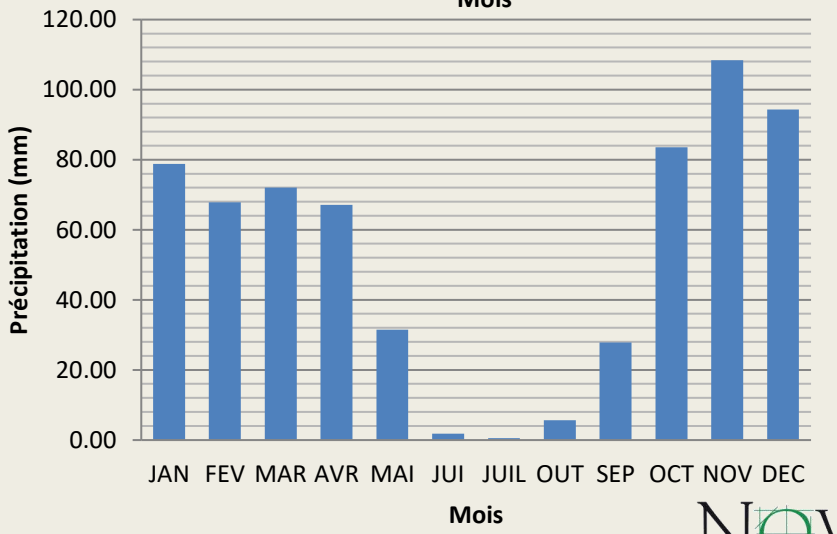
Environmental Reference Status

Climate







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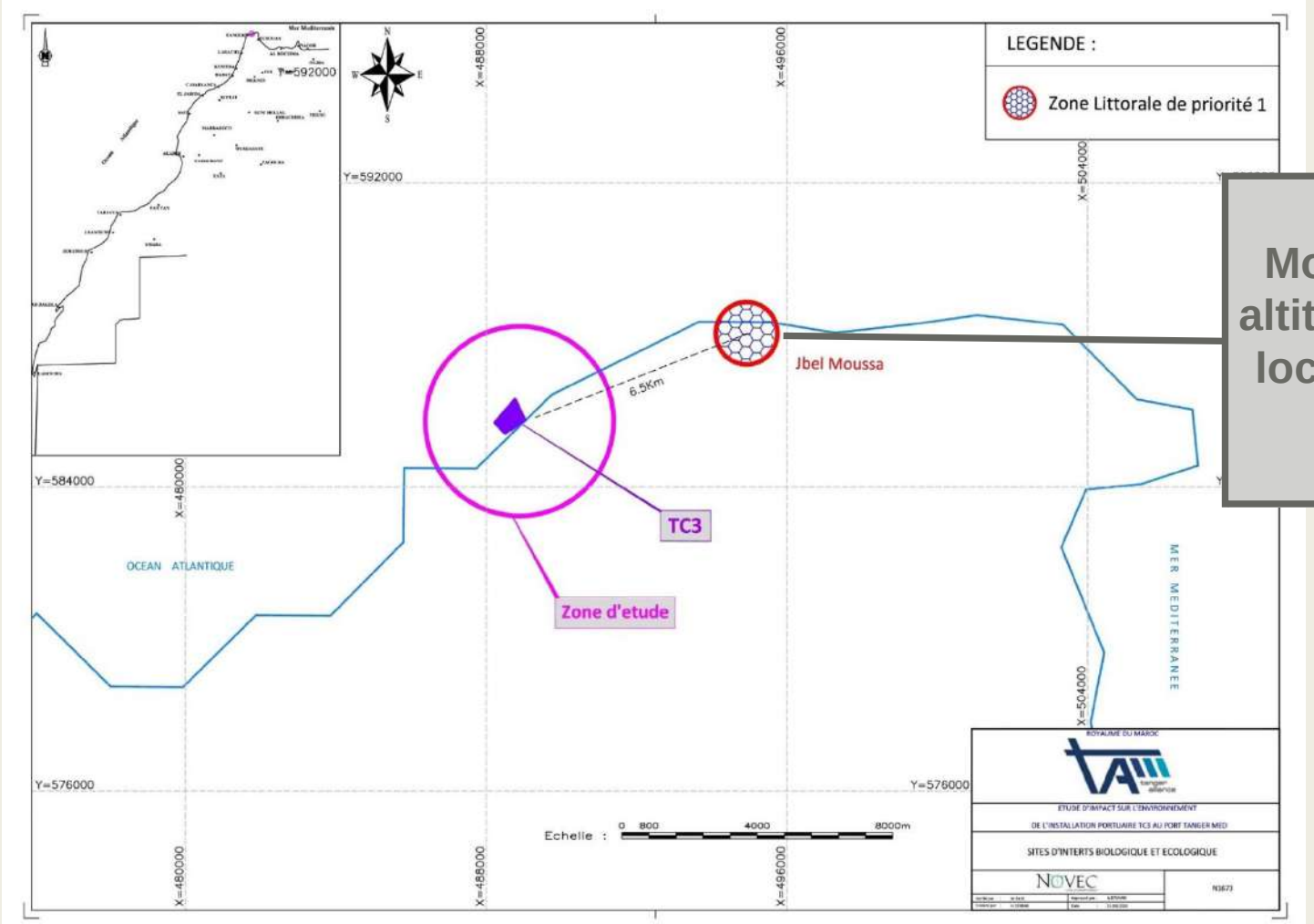
Environmental Reference Status

Sites of biological and ecological importance



Mount Moses at an altitude of 850 m. It is located 6.5 km west of the project

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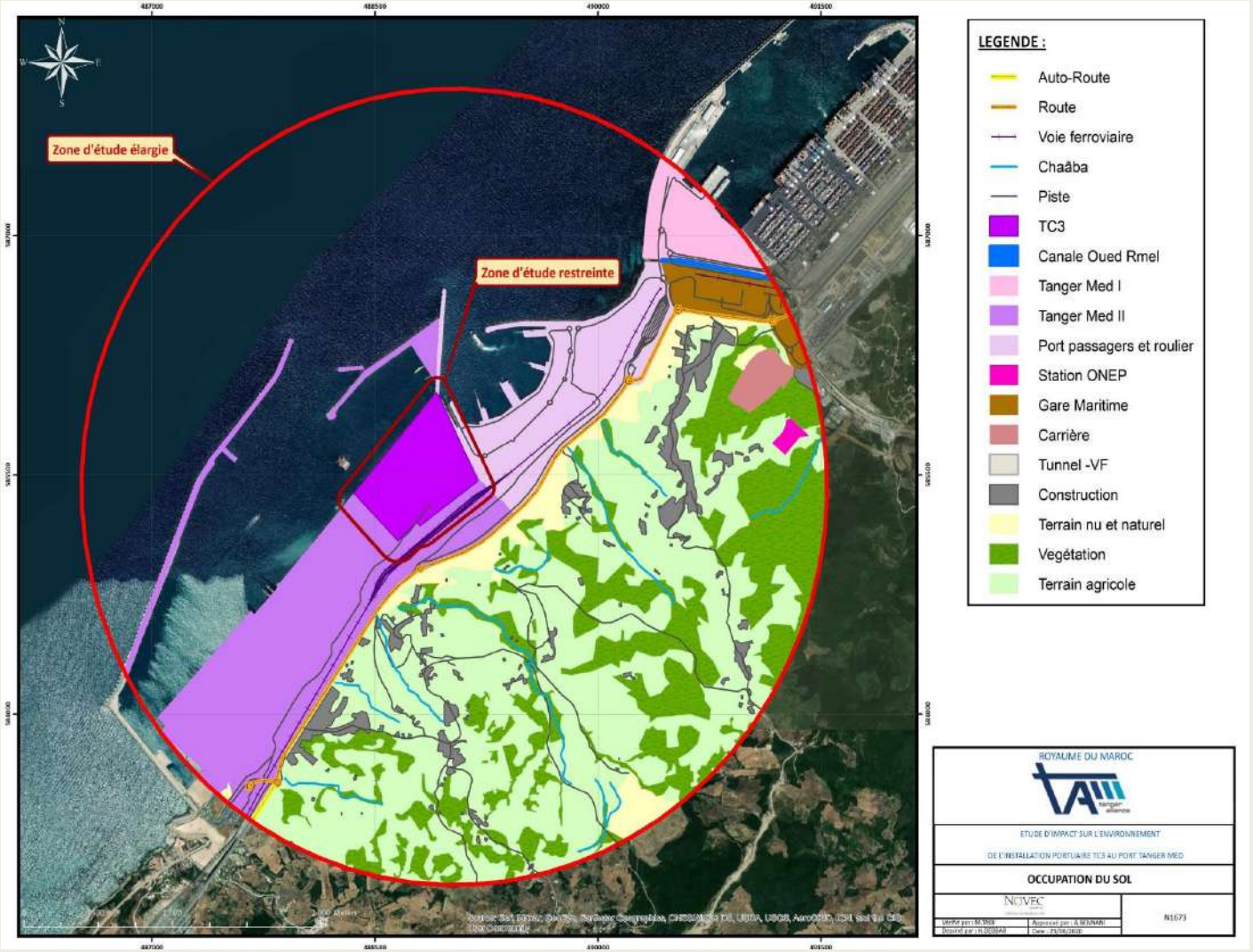
Environmental Reference Status

Land Utilization Quality Map



Environnemental impact assessment

Positive impacts of the project

-Create an economic and social development lever
-Lifting the economic attractiveness of the region
-Creating Permanent and Temporary Positions
-Strengthening the region's infrastructure...

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Environnemental impact assessment

	Soil erosion	Air Quality	Water resources	Landscapes	Plant diversity	Animal diversity	Sites of biological and ecological importance	Population groups	Ambient sounds	Socio-economic activities	Facilities and Equipment	Archaeological and cultural heritage
construction phase												
Exploration as a preliminary stage	-	0	-	0	-	0	0	-	-	+	0	-
Identification of milestones and signals	-	0	0	-	0	0	0	+	0	0	0	0
Construction of site	-	-	-	-	-	-	0	0	-	+	0	0
Dredging Operations	-	-	-	-	-	-	0	-	-	+	0	0
Open Traffic Routes	-	-	-	0	-	-	0	-	-	+	-	0
Transport of building materials and transport of carts	-	-	-	-	0	-	0	-	-	0	-	0
Space creation	-	-	-	-	-	0	0	-	-	+	-	-
existence of room for workers	-	0	-	-	-	0	0	-	-	+	0	0
Liquid and solid waste	-	0	0	0	-	-	0	-	0	0	0	0
Temporary and final warehouses	-	-	-	-	0	-	0	-	0	0	0	0
Restore the original landscape	-	-	0	+	0	0	0	+	0	0	0	0
Exploitation and maintenance phase												
Implementation and commencement of project exploitation	-	-	-	-	0	-	0	-	0	+	+	0
Fire Risk Management	-	-	-	-	-	-	0	-	-	-	-	-
Facilities Security	0	0	0	0	0	0	0	0	0	0	0	0
Navigation and transit of vehicles	0	-	-	-	0	-	0	-	-	0	-	0
Management and management of solid waste and wastewater	-	0	-	-	-	-	0	-	0	0	0	0
Employment of the local population	0	0	0	0	0	0	0	+	0	+	0	0
Repair & Maintenance	-	0	-	-	-	-	0	+	0	0	0	0
Possible malfunction	-	-	-	-	-	-	0	-	-	0	-	0
Dismantling phase												
Identification of milestones and signals	-	0	0	-	0	0	0	+	0	0	0	0
Transport of building materials and transport of	-	-	-	-	0	-	0	-	-	0	-	0

+:Positive impact

- :Negative effect

0: Without Impact

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Assessment of environmental impacts and associated mitigation measures

Soil

Weak to medium impact Construction and construction works, Machinery and transmission of construction equipment, waste management, Rehabilitation and integration of work into the public landscape	**The most important effects on the element**
Fixing speed limit at 20km/h, Prepare the floor of the storage place, make it non-leakable liquids, with a locked fence, Impose walking on designated lanes advice for trucks and machinery, Provide spill kit	**The most important mitigation measures** 

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Assessment of environmental impacts and associated mitigation measures

Water

Weak to medium impact	The most important effects on the element
Construction and construction works, storage, Machinery and transmission of construction equipment, effluent management, Rehabilitation and integration of work into the public landscape	
Set up a tactical yard equipped with a fluid management system, Respecting the safety distance comma 100 m to store waste and incinerators, on all surface water, A tight measure of habitual water collection and reuse cycles, etc.,	**The most important mitigation measures**

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Assessment of environmental impacts and associated mitigation measures

Biological Medium

Weak effect Construction and construction works, Machinery and transmission of construction equipment, waste management, Rehabilitation and integration of work into the public landscape	The most important effects on the element
An airtight selection of arboretum distractions from local clusters, Avoid destroying ecosystems, Enabling workshop workers to react quickly to fire danger	The most important mitigation measures

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Assessment of environmental impacts and associated mitigation measures

Population and Quality of Living

Positive effect	The most important effects on the element
Construction and construction works, Providing direct and indirect job opportunities, Machinery and transmission of construction equipment, waste management, Rehabilitation and integration of work into the public landscape	
Enable the company to select manpower from the area concerned to the extent possible, Establish a plan to communicate with the population, Safety insurance for all, Use Road Alignment Panels to notify the existence of works, Rehabilitation of local labour force to keep up with the project's requirements.	

The most important mitigation measures

Assessment of environmental impacts and associated mitigation measures

Infrastructure

Weak to midium effect Construction and construction works, Machinery and transmission of construction equipment,	The most important effects on the element
Prohibit the direct passage of all the machines you carry exceeding the licensed limit, Regularly monitor the condition of roads and proceed to repair them when necessary, Adopt appropriate road warping, Impose the possibility of trucks loaded with materials or waste only at night, or outside peak times	The most important mitigation measures

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environmental impact assessment

During the exploitation and maintenance phase

At the exploitation stage, Tanger Med port's TC3 **will have no significant impact.** In addition, **the terminal requires little maintenance during this phase.The operation of the plant will not result in noise or smell and all waste will be collected**, depending on its nature, transported and processed/disposed of by specialized companies. **Wastewater disposal is mainly related to wastewater for plant workers' sanitation facilities which will be in small quantities**.

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Follow up and Monitoring program

A monitoring and tracking scheme has been developed to ensure the effective application of the mitigation measures proposed both at the pre-construction and construction stage and at the exploitation and maintenance stage.

It also aims to ensure the effectiveness of the proposed mitigation measures and that no impact has been overlooked or misappraised in the wake of the environmental assessment of both the environmental and social impact study and environmental and social management schemes.

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Environmental Outcomes

Under the environmental assessment and following the commitment of the stakeholders to implement all the mitigation methods proposed in the Environmental specifications, it is concluded that the installation of the third container terminal TC3 at the port of Tanger Med 2 **provides a very positive result** given the programmed arrangements to enhance and value the expected positive benefits and minimize the potential negative impacts and consider the envisaged environmental measure scheme

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Thanks for
attention

Environmental and Social Impact Study

TC3 Container Terminal Construction Project Tanger Med 2 Port