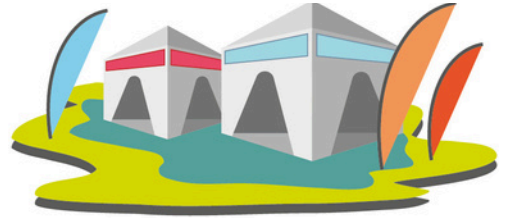# HACKATHON

HYDROCONTEST
By ENSM

THE HYDROCONTEST PROJECT
& ITS KEY FIGURES

100
PARTICIPATING SCHOOLS

1
INNOVATION EXHIBITION

1 EXCEPTIONAL VENUE

MARSEILLE CITY'S NAUTICAL STADIUM -
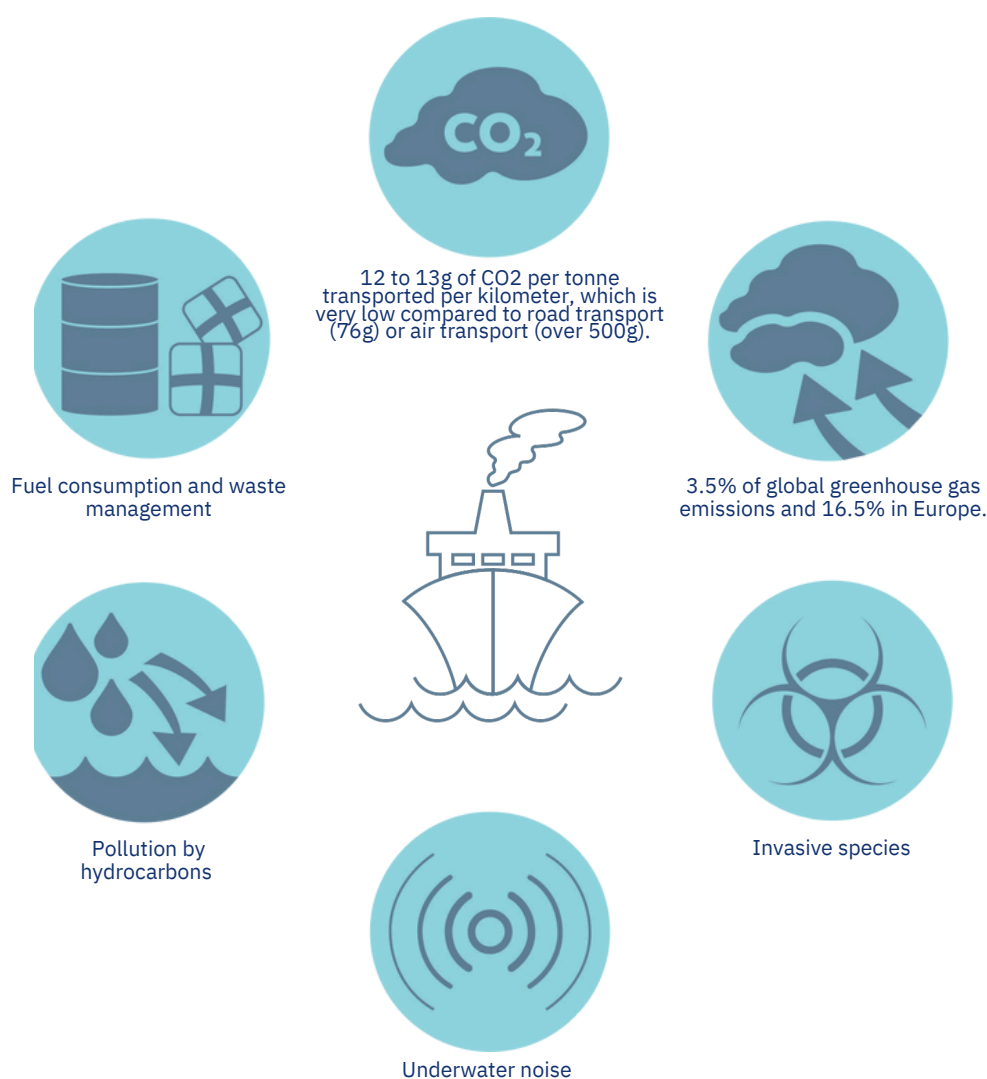Florence Artaud

10
NATIONALITIES

30
PRE-SELECTED HACKATHON TEAMS

THE CHALLENGES OF MARITIME TRANSPORT

Maritime transport represents a major environmental challenge. Although it emits less CO2 per tonne transported than other modes of transport, it is responsible for 3,5% of global greenhouse gas (GHG) emissions due to its scale

Indeed, the volume of goods transported by sea has quadrupled since the 1970s, reaching 13 billion tonnes in 2023.

In this context, maritime industry stakeholders must prepare for the future by focusing on the energy transition, an urgent necessity for the industry.

12 to 13g of CO2 per tonne transported per kilometer, which is very low compared to road transport (76g) or air transport (over 500g).

Fuel consumption and waste management

3.5% of global greenhouse gas emissions and 16.5% in Europe.

Pollution by hydrocarbons

Invasive species

Underwater noise

HACKATHON PRESENTATION

INNOVATE FOR THE NAVIGATION OF TOMORROW!

What is the HydroContest By ENSM Hackathon?

HydroContest By ENSM is organizing this year an exceptional Hackathon dedicated to maritime innovation and the energy transition. This unique challenge will bring together students passionate about engineering, navigation, and innovation to come up with concrete solutions to the challenges of sustainable maritime mobility.

Why participate?

- **Enriching experience:** Put your skills in engineering, project management, and creativity into practice.
- **Interdisciplinary collaboration**: Work in teams with students from diverse backgrounds (engineering, design, aerospace, economics, naval, environment, etc.).
- **Visibility and opportunities:** Present your ideas to a panel of experts and expand your professional network.
- **Prizes and rewards:** Prizes will be awarded to the top 3 teams to recognize their innovations.

"
"This hackathon is a new opportunity for maritime transport, which has already begun its transformation. Decarbonization is not an option, it is a necessity, and it is being thought about from the schools today. Come in large numbers to be the actors of the energy transition through Hydrocontest, a laboratory for building the maritime transport of tomorrow."

François Lambert
ENSM General Director
"

Who can participate?

This event is intended for students aged 18 to 30 who are enrolled in a higher education institution for the 2024–2025 academic year. Participants, whether individually or in teams, may represent their institution or an officially registered student association.

Hackathon Process:

- **Announcement of the case study:** The organizing team will reveal the challenge to be tackled starting April 18, 2025.
- **Reflection and design phase:** Teams will have just over two months to analyze the topic, propose innovative solutions, and develop a detailed digital project.
- **A pre-selection** of the top 30 submissions will be reviewed by the jury.
- **Pitch to the jury:** The 10 finalist teams, selected by the jury, will present their projects to a panel of maritime industry professionals.
- **Award ceremony:** The top 3 teams will be rewarded.

📅 Important dates:

- **April 18th, 2025:** Sending of the dataset to registered teams for the competition;
- **June 1st:** Deadline for submission of registration files to the organizing team.
- **July 1st, 2025:** Deadline for submitting project files;
- **July 18th, 2025:** Deadline for revising project files for teams whose submissions are not compliant;
- **July 18th to August 30th, 2025:** Analysis and pre-selection of project files by the jury;
- **September 1st to 5th, 2025:** Jury deliberation for the finalist and Results published on our website
- **September 24 and 25, 2025**: Pitches (online or in person) by the top 10 teams in front of the jury.
- **September 26th, 2025:** Award ceremony.

> "What vessels for sustainable maritime transport that respects climate goals?
>
> The HydroContest By ENSM Hackathon is an international competition that allows students to engage in teams within this new paradigm.
> It is a fantastic opportunity to imagine and implement solutions that address the challenges posed by the energy transition."
>
> Olivier DANIEL
> Teacher FON - Initiator of the Hackathon project for HydroContest By ENSM

HOW TO REGISTER
A TEAM
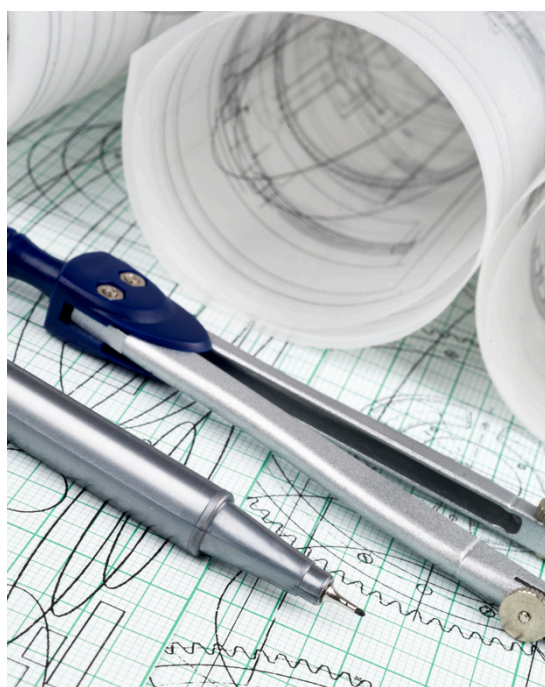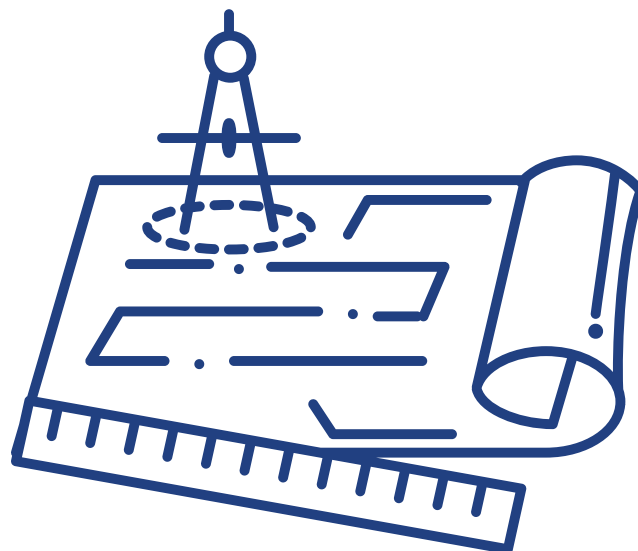
Registration process:

Registration for the Hackathon by ENSM is free of charge.

The registration deadline is set for June 1st. The Hackathon topic and the associated dataset will be provided starting April 18th, upon receipt of the required registration documents outlined in the attached form.

The registration forms must be submitted electronically to the following address:
hackathonhydrocontest@supmaritime.fr

Teams will be notified of their final registration by the organizer after the submitted documents have been verified. The Organizer reserves the right to refuse the registration of a team if their submission is deemed incomplete.

ANNEXES

REGISTRATION FORMS

> **Make your life a dream, and a dream, a reality!**
>
> Antoine de Saint Exupéry

Formulaire d'inscription Hackathon d'HydroContest by ENSM

Registration Form

Hackathon HydroContest by ENSM

Etablissement participant / *Participating institution*

Nom de l'établissement ou des établissements participants - si regroupement / *Name of the participating institution(s) – if a collaboration*:

……………………………………………………………………………………….…

……………………………………………………………………………………….…

Définition juridique du ou des établissement(s) / *Legal definition of the institution(s)*:

………………………………………………………………………………………..

Pays / *Country*:……...............………………………………….……………………

Adresse postale de l'établissement réfèrent / *Postal address of the reference institution*:

………………………………………………………………………………………..

………………………………………………………………………………………..

………………………………………………………………………………………..

Personne référente / *Referring person*

Nom / *Last name*: …………………...…………………………………………...…

Prénom / *first name*: …………………...…………………………………...………

Fonction au sein de l'établissement / *Position in the school* :…………...…………………

………………………………………………………………………………………..

Adresse Mail / *mail address*: …….....…………………………........................……

Numéro de téléphone + code pays / *Phone number + country code*:

………………………………………………………………………………………...

Engagement de l'établissement participant / *Commitment of the participating institution*

En signant cette inscription, l'établissement s'engage à fournir les informations suivantes / *By signing this registration, the institution commits to providing the following information :*

·La description de l'équipe, incluant les noms des personnes de celles-ci ainsi que celui du référent académique / *The description of the team, including the names of its members as well as the name of the academic reference.*
·Une photo de l'équipe / *A photo of the team.*
·Une déclaration de l'équipe confirmant qu'elle possède tous les droits de propriété intellectuelle liés à sa participation / *A statement from the team confirming that it holds all intellectual property rights related to its participation.*
·Toutes les informations de communication nécessaires permettant à l'organisateur de promouvoir l'équipe / *All necessary communication information allowing the organizer to promote the team.*

De plus, les équipes doivent fournir à l'organisation, au plus tard le 1er juillet 2025 sous forme numérique à l'adresse suivante / *Additionally, teams must provide the organization, no later than July 1, 2025, in digital format to the following address*:
hackathonhydrocontest@supmaritime.fr
·Un dossier projet dont les pièces justificatives sont décrites dans le règlement du Hackathon à l'article 3 / *A project file with the supporting documents described in the Hackathon regulations under Article 3.*

Engagement de l'organisateur/*Commitment of the organizer:*

·Envoyer aux equipes le règlement ainsi que le cas d'étude à réception du formulaire d'inscription et à partir du 18 avril / *Send the rules and the case study to the teams upon receipt of the registration form and starting from April 18,*
·Répondre aux question des équipes / *Answering the teams' questions,*
·Organiser la logistique du Hackathon / *Organizing the logistics of the Hackathon*
·Valoriser les vainqueurs conformément à l'article 5 du règlement du Hackathon / *Recognizing the winners in accordance with Article 5 of the Hackathon regulation*s.

Date/*Date* :…………………………………………

Visa et tampon du chef de l'établissement / *Head of school signature and stamp* :

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CONTACTS

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HYDROCONTEST

By ENSM

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