Smart Port Challenges
2022
At the heart of a maritime industry in full evolution, Moroccan ports are more than ever looking to the future. The National Ports Agency, through the smart port innovation approach, is on the lookout for innovative solutions to meet the logistical challenges, protect the environment and gain in efficiency in all its missions.

Environmental pressure and the need to save energy in ports form a duo that is as constraining as it is stimulating for the maritime and port industries.

A new cycle of innovation is taking place, and the ports of tomorrow are gradually emerging thanks to individual and collective innovation efforts in research, experimentation and operational implementation.
Innovation is a strong growth lever for the port sector and port customers. It mobilizes collective intelligence, accelerates the growth dynamic and enables the development of high added value services while optimizing port processes.

The National Ports Agency, as a federator of the port community, has undertaken, in partnership with the National Single Window for Foreign Trade PORTNET, a plan for innovation in the port sector called "SMART PORT INNOVATION" in concert with the various stakeholders of the port community.

The objective is to mobilize creativity and collective intelligence in order to propose innovative and concrete solutions to meet the challenges of the port sector in the framework of a voluntary and inclusive approach.
Simple and pragmatic, the smart port innovation process consists of 5 key steps:
1- Identify the problems, 2 - Find creative solutions, 3 - Examine the feasibility of the solutions, 4- Evaluation and 5 - Implementation
The smart Port innovation approach initiated by the National Ports Agency seeks to bring together the actors of the port, logistics and foreign trade community in order to create favorable conditions for the establishment of an innovation ecosystem dedicated to the Moroccan port sector.
Objective of the approach

The objective is to strengthen the capacity of the port community to provide effective responses to the issues and challenges of the port sector.

To develop innovative solutions for a more efficient, competitive, green and safe port by calling on the collective intelligence of the port community and trade in Morocco and internationally.

Improving the operation of ports, making the logistics chain more fluid and removing bottlenecks;

Create tools to facilitate exchange and establish an environment conducive to reflection and innovation.
Themes

Sustainable development, environmental protection and energy transition
Performance, logistics fluidity and trade facilitation
Safety, Security and Compliance
Port service continuity and infrastructure availability
The Smart Port Challenge 2022 Hackathon

Organized by the National Ports Agency (ANP) and the National Single Window PortNet in partnership with the Digital Development Agency, the second edition of the Port Hackathon dedicated to innovation in the port sector in Morocco is a competition open to any person, startup, company, school or university wishing to propose an innovative concept in response to major port challenges while creating disruptive, efficient solutions tailored to the needs of the company and Moroccan ports.
**Expected results**

- Promote the port and business opportunities in the port sector to potential investors;

- Identify new and innovative solutions to proposed challenges;

- Raise awareness of the port community on the need for technology watch and innovation;

- Valorize local & regional competencies.
Evaluation of innovation projects

JURY

ANP

Academics

Port and Foreign Trade Community

Sponsors
Participants

1. Companies and SMEs
2. Researchers
3. Developers

Experts

Academics

Engineers

Students

Startups
Challenge selection criteria

Community:
With high added value:
Customer centric:
The challenges

Sustainable development, environmental protection and energy transition

Performance, logistics fluidity and trade facilitation

Safety, Security and Compliance

Port service continuity and infrastructure availability
The Smart Port Challenge 2020 review
The Smart Port Challenge 2020 review

7 Challenges
+78 Mentors
+108 Interviews
27 Webinars
+30h Coaching

3 Jours de notations
+70 Experts
72 Projets projects
7 Finalistes Finalists
The Smart Port Challenge 2020 review

- 13 Challenge Webinars
- 2 Hackathon Keynotes
- 8 Inspirational Webinars

- 977 Participants
- 1347 Participants
- 359 Participants
The Smart Port Challenge 2020 review
**Bilan du Smart Port Challenge 2020**

<table>
<thead>
<tr>
<th>Pays</th>
<th>Nombre de participants</th>
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<tbody>
<tr>
<td>Maroc</td>
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<td>France</td>
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<td>USA</td>
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The Smart Port Challenge 2020 projects review

12
Energy Transition

10
Detection of Pollution slicks

9
Electronic payments

11
Certificate of Origin

15
Operation at scanners level

7
Dynamic Truck Weighing

8
Evolution of basin bottoms

72
Projects on the platform
Eco Wave Power

The project is to build and operate a wave energy power station using Eco Wave Power's innovative ...

View project →
File d'attente virtuelle pour ...

JeFile est une solution qui vous permet d'accroître l'efficacité de vos opérations grâce à une ges...

View project →
Port Tech Payment (PTP)

Solution basée sur la théorie du Nudge. Le but est d’inciter les clients à recourir au paiement électronique...

ACCELERATING THE TAKEUP OF ELECTRO...

View project →
Accompagnement de l’accé...

Notre projet vise à trouver des solutions innovantes pour accompagner la transformation des méthod...

ACCELERATING THE TAKEUP OF ELECTRONIC PAYMENTS

View project →
"A pleasure to participate in the Smart Port Challenge 2020 organized by ANP, PORTNET and GLOBAL ALLIANCE!

A great opportunity for my classmates (Yassine Abdouh, Abir Badreddine and Asmae Khannafour) and myself to work on a real problem and thus bring a concrete solution in only 6 weeks!"

Mr. Jérémie PERALES, a student engineer from Central University who is very involved in associations, and a member of the team that won the "jury's favorite" award.
"Congratulations on the 1st edition of the Smart Port Challenge. It was a great pleasure to participate.

You have offered us a space for creativity and exchange of ideas... in short, an incubator of projects that can offer real added value to the entire community.

It was also a competition space made available to startups, students, professors and professionals to test their talents and direct them towards the needs of the community. Congratulations to the winners "

Mr. Mohamed Benatik, Director of the Information System at the port of Casablanca in MARSA MAROC
"First of all I would like to express my appreciation for the great efforts of the entire Smart Port Challenge organizing team.

By participating I gradually became aware of the magnitude of the efforts in terms of size and care for the quality of multiple actions.

The organization, the communication, the content, the call for young researchers, the team spirit and the approach including all stakeholders were exceptional!

I believe that, thanks to the efforts of all involved, the Smart Port Challenge was a great success!"

M. Frank Janssens, expert international en matière de facilitation des échanges et de gestion transfrontalière.
Smart Port Challenge 2020 Testimonials

«I am thrilled to see what can be achieved by Open Innovation powered by a hackathon to facilitate change.

I have just listened to presentations made by seven finalists (out of 73 submissions engaging more than 500 participants) followed by a jury meeting, which I am honored to be part of, to select the four winners of the Smar Port Challenge 2020 in Morocco.

Thanks to National Port Agency (NPA), Global Alliance for Trade Facilitation, and PortNet: "National Single Window of Foreign Trade" for opening up for the crowd to participate in innovating and designing the port of tomorrow.

A true effort that allows all of us to join forces towards a more sustainable maritime ecosystem ».

Mr Mikael Lind, Editor of UN/CEFACT Cross Industry Supply Chain Track and Trace Project at RISE Research Institutes of Sweden
"The Global Facilitation Alliance seeks to adopt innovative approaches to meet the ever-increasing need for efficiency and cost reduction in international trade.

With this in mind, we are delighted to have been able to work so closely with the Moroccan port community in organizing the Smart Port Challenge.

The enthusiasm and professionalism of the teams was remarkable and demonstrates the need to think outside the box to find innovative solutions that make a real difference to the local ecosystem."

Mr Philippe Isler, Director of the Global Facilitation Alliance
"This first edition of the port Hackathon is part of the approach "SMARTPORT INNOVATION" initiated by the National Ports Agency, it is a coordinated and concerted approach to the development of the national port sector to improve its performance, it constitutes a prospective, comprehensive and coherent framework for the harmonious development of ports."

Mrs. Nadia LARAKI Director General of the National Ports Agency
The National Ports Agency

The National Ports Agency (ANP) is the authority and regulatory body of the new Moroccan port system set up by Law 15-02.

In a context of increasing globalization, marked by the intensification of trade in an increasingly competitive environment, the ports sector, in Morocco and worldwide, has become an important lever for the development and competitiveness of a country. At the same time, it must respond to new social, societal and environmental challenges.

In recent years, the sector has undergone major institutional and organizational reforms, with the aim of adapting the status and organization of the port authority to the global needs of globalization and the new constraints arising from social responsibility and equitable and sustainable development.

A strong player in the Moroccan port landscape, the Agency federates the entire port community around common objectives; it works to create a competitive port environment, promoting fair and sustainable development, characterized by healthy competition, efficiency, transparency and good governance, and ensuring safe and quality services.
The National Ports Agency

Legal status
The National Ports Agency is a "Public Establishment with legal personality and financial autonomy". The technical supervision of the Agency is ensured by the Ministry of Equipment and Transport. The Agency is subject to the financial control of the State applicable to public establishments in accordance with the legislation in force.

Perimeter and field of intervention of the Agency
The Agency exercises its powers over all the ports of the Kingdom except the port of Tangier Mediterranean (33 ports).

The Agency has set eight strategic priorities:
- The continuation of the realization of major port projects;
- The preservation of port heritage;
- The contribution to the implementation of the national strategy of logistics competitiveness;
- The simplification and facilitation of port transit procedures;
- The continuation of the implementation of the port reform subject of the law 15-02;
- The regulation of port activities and operators;
- The improvement of the competitiveness of the port sector;
- The police, security and environmental protection in the port environment.
Perimeter and field of intervention of the Agency
The Agency exercises its attributions on all the ports of the Kingdom except the port of Tangier Mediterranean (35 ports).
The National Ports Agency
www.anp.org.ma