AUTOSHIP
Autonomous Shipping Initiative for European Waters

The project goes on – focus on the latest events and publications

Interesting updates from the AUTOSHIP project!

We are glad to inform you that the European Commission agreed on an extension of 1 year of activities, therefore AUTOSHIP will run until November 2023. We look forward sharing with you all the great results that will be achieved in the upcoming months towards the next generation of autonomous ships in EU. In the meantime, have a look at the latest events attended and organized by AUTOSHIP and discover the newest publications made by the project consortium.

Remember to follow AUTOSHIP on its Facebook, LinkedIn and Twitter accounts, and subscribe to the project newsletter to be always updated on the latest news!

An exciting week at the SMM Fair in Hamburg

CiaoTech (PNO Group) brought AUTOSHIP at the SMM Fair, the leading international maritime trade fair held in Hamburg (Germany) from 6th to 9th September 2022, to present the latest project results and progresses.
Marco Molica Colella – the project coordinator – had the chance to present AUTOSHIP in two different occasions: the seminar "Reduced transportation cost and lower environmental impact by autonomy in ships and ports", and at the CINEA - European Climate, Infrastructure and Environment Executive Agency stand.

The joint AUTOSHIP, AEGIS and MOSES seminar "Reduced transportation cost and lower environmental impact by autonomy in ships and ports" was successfully held on September 7th, 2022, to explore the key topics to understand autonomy and why it is relevant to create a better, more sustainable, and resilient waterborne structure and logistics. The event was structured in two sessions:

- Session 1: *Effects of autonomy on society, businesses, and logistics*, where presentations by Marco Molica Colella, Kristoffer Kloch (DFDS), Antoon van Coillie (ZULU Associates) and Anne Suominen (MacGregor) were provided.

Figure 1: from the left: Marco Molica Colella (PNO), Kristoffer Kloch (DFDS), Antoon van Coillie (ZULU Associates), Anne Suominen (MacGregor)

- Session 2: *Technical status, drivers, and barriers*, with the panelists Ørnulf Rødseth (SINTEF Ocean), orge Miguel Lara Lopez (Fundación Valenciaport) and Benjamin Boyer (CCNR).

Figure 2: from the left: Ørnulf Rødseth (SINTEF Ocean), Jorge Miguel Lara Lopez (Fundación Valenciaport), Benjamin Boyer (CCNR): Automation of inland waterway vessels

Take a look at this page to discover the presentations from the different sessions and speakers.

On September 9th, 2022, the coordinator was also invited to give a speech at the CINEA - European Climate, Infrastructure and Environment Executive Agency stand, to present how AUTOSHIP is speeding-up the transition towards a next generation of autonomous ships in EU.

TRA - Transport Research Arena in Lisbon, Portugal

TRA, the Transport Research Arena, is the largest European research and technology conference on transport and mobility. TRA took place from 14-17 November 2022 to discuss how research and innovation can reshape the transport and mobility system.

AUTOSHIP joined the invited joint session with MOSES and AEGIS projects "Safe and efficient modal shift from roads to waterways: Automated technologies and processes", held on November 16th, 2022. The session highlighted how automation can support modal shift from roads to waterways by presenting the latest research from the EU-funded AUTOSHIP, AEGIS, and MOSES projects. The session attempted to identify challenges related to disruptive technologies and their interaction with various actors in the supply chain, as well as the expected economic, environmental, societal, and safety benefits.

AUTOSHIP 6th General Assembly in Rome (Italy)

The consortium of AUTOSHIP met in Rome (Italy) on September 26 and 27 to discuss the latest progresses achieved in the frame of the project activities. The meeting, coordinated by CiaoTech (PNO Group), explored the results obtained in each work package, highlighting the progresses expected for the future months.

Figure 3: the AUTOSHIP consortium in Rome (Italy)

In the frame of this gathering, CiaoTech (PNO Group) also moderated two sessions dedicated to the project Key Exploitable Results and started the preparation of the AUTOSHIP Business Model Game: a discussion among all partners to identify the information for the game components, including impacts, processes, type of contracts, services, barriers, enabling technologies, stakeholder and evaluation criteria.

Figure 4: AUTOSHIP IP and KER discussion

NEW PUBLICATIONS

The background scenario for Autonomous Shipping
The AUTOSHIP coordinator Marco Molica Colella (CiaoTech – PNO Group) discusses the EU's role in autonomous shipping and changing of transport emissions globally in the July 2022 issue of the Open Access Government Magazine. Read the article to get a deeper insight and to discover the role of CiaoTech (PNO Group) within the project and how its expertise is exploited in support of greener and more sustainable transport and logistic sectors.

Autonomous Shipping: from Autonomy to Sustainability
In the October 2022 edition of the Open Access Government journal, the coordinator Marco Molica Colella from CiaoTech – PNO Group, looks at the autonomous shipping industry and the journey it will take to improve its sustainability. Read and download the full article.

Autonomous shipping — an analysis of the maritime stakeholder perspectives by USTRAT and PNO
The University of Strathclyde and CiaoTech – PNO Group developed a study that contributes to the better understanding on the perspectives of the maritime industry stakeholders, whereas the results can support the prioritization of future initiatives towards addressing existing barriers and overcome misconceptions for the next-generation autonomous shipping. Download and read the full publication here.

Levels of autonomy for ships
The paper published by SINTEF Ocean gives a summary of previously published papers on the definition of autonomy for ships, how this relates to different crewing regimes, and the terminology to be used.

Approvable AI for Autonomous Ships: Challenges and Possible Solutions
This paper, written by SINTEF Ocean, presents an overview of the most relevant applications of AI for autonomous ships, as well as their limitations in the context of approval.

HAPPY HOLIDAY SEASON FROM THE COORDINATOR

Dear all,
this has been a very full year for the AUTOSHIP project, we are really starting to see our landing on the horizon...however, there are still challenges ahead, as we are looking for the project's demonstrators to show what the next generation of autonomous ships will be capable of!

It will be our pleasure to keep on managing the AUTOSHIP project in its final year, to help making this happen.

In the meantime, WE WISH EVERYONE SOME GOOD REST AND HAPPY HOLIDAY SEASON!

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