

# SmartShip Project Newsletter #5

## WHAT'S NEW IN SMARTSHIP: PODCAST #1

The Smartship project, launched its podcast hosted by Isabel von Gemmingen-Hornberg, from our academic partner CERC.

In our 1st episode, podcast hostess [Isabel von Gemmingen-Hornberg](#) from academic partner CERC dove deep into the world of maritime transformation with Project Coordinator [Fotis Oikonomou](#).

During this episode you will discover about the SmartShip project and how it integrates data analytics, decision support, and circular economy principles for a

holistic approach to enhancing vessel energy efficiency, reducing fuel consumption, and managing emissions.

Fotis also shared his journey, the objectives and challenges of the project, the collaboration between partners, and the impact and future directions of the Smartship project.

Tune in to this enlightening conversation, streamed via Streamyard on the SmartShip new YouTube channel  <https://lnkd.in/gZ3W95sp>

## SMARTSHIP PUBLICATION ALERT

*Smartship academic partner Harokopio University of Athens (HUA) published the article “A Comparison of Trajectory Compression Algorithms Over AIS Data”*

The paper explores various trajectory compression algorithms aimed at handling the vast amounts of vessel tracking data generated globally. These algorithms balance compression efficiency with retaining essential spatial and temporal details, and evaluates different algorithms based on compression ratio, execution speed, and information loss. Dead-Reckoning emerges as the top performer, especially for streaming data, making it crucial for maritime surveillance applications.

To access the full article, visit the link at the bottom of this newsletter.



The graphic features the SmartShip logo at the top left. Below it, the text reads "SmartShip Podcast". On the left, there are two circular portraits: the top one is of Isabel von Gemmingen-Hornberg, and the bottom one is of Fotis Oikonomou. To the right of the portraits, the text identifies the hostess as Isabel von Gemmingen-Hornberg from CERC, and the guest as Fotis Oikonomou from Danaos Shipping Company. The Danaos logo is prominently displayed at the bottom. The background is a blue-themed digital interface with a microphone icon in the center. At the bottom left, there is a small European Union flag logo and a line of text: "This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 823816".

# PARTNER SPOTLIGHT: EPSILON

*This month's newsletter partner spotlight is dedicated to partner and Work Package 6 (WP6) leader Epsilon*

[Epsilon Malta Ltd.](#) is a Technology Resources Engineering & Consulting Group with expertise in: Aerospace, Shipping, GeoInformatics & Space, Water & Environment, and Management.

The Group has links with foremost world technology organizations and research centres, and delivers engineering, consulting, training, and state-of-technology products via RTD, in its sectors of expertise.

In SmartShip, EPS is leader of work package 6 (WP6): Integrated SmartShip Framework, validation and piloting aiming at combining i) environmental issues and requirements,

ii) additional complementary requirements by stakeholders in the maritime field and iii) challenges from off-the-edge technologies regarding advanced data analytics, decision support systems and optimization algorithms.

Thus, EPS contributes as technology knowledge provider in optimization algorithms of fuel consumption aiming at the real-time trim and route optimization through geoinformatics, along with the performance of the hull and the propeller and a just-in-time-arrival fuel efficiency.

Visit the company's [website](#) to explore further services.



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Link to the publication:  
[A Comparison of Trajectory Compression Algorithms Over AIS Data](#)