

WATERBORNE TRANSPORT WORKSHOP

07.02.2022

RESEARCH, DEVELOPMENT
AND INNOVATION TOWARDS
SMART, GREEN AND
INTEGRATED WATERBORNE
TRANSPORT IN THE CONTEXT
OF HORIZON 2020



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RESEARCH, DEVELOPMENT AND INNOVATION TOWARDS SMART, GREEN AND INTEGRATED WATERBORNE TRANSPORT IN THE CONTEXT OF HORIZON 2020

The Waterborne Transport workshop is aimed at presenting the results of seven years investments in Research, Development, Innovation and Deployment towards smart, green and integrated waterborne transport in the framework of Horizon 2020. EU co-financed RD&I has been and will be closely linked to policy developments. In each panel, a number of projects will present their results, combined with a discussion on future policy perspectives and RD&I needs, linked to amongst others Horizon Europe. The workshop is organised by the STEERER project, CINEA and DG RTD of the European Commission.

Target audience:

- *European Commission Services;*
- *Members of European Parliament;*
- *EU Waterborne transport sector;*
- *EU Member States.*



09:00–09:30

WELCOME

REGISTRATION AND COFFEE

DIANE GILPIN

Moderator

CEO Smart Green Shipping Alliance

09:30– 09:40

SETTING THE SCENE

DIRK BECKERS

Director

CINEA

09:40–10:10

KEY NOTE SPEECHES:

ROSALINDE VAN DER VLIES

Director, Clean Planet Directorate

European Commission, DG Research and Innovation

MAGDA KOPCZYNSKA

Director, Waterborne Transport Directorate

European Commission, DG MOVE

ÅSA BURMAN

Board Vice-Chair

Waterborne Technology Platform

10:10–11:40

THE TRANSFORMATION TOWARDS ZERO-EMISSION WATERBORNE TRANSPORT

DAMIEN MEADOWS

Advisor on European and International Carbon Markets

DG CLIMA

Overview of projects in the portfolio

GABRIEL MIALOCQ

Head of Sector, Clean Transport Industry (Aviation and Waterborne)

CINEA

3 PROJECTS CO-FINANCED BY HORIZON 2020, ESSENTIAL FOR THE TRANSITION TO ZERO-EMISSION WATERBORNE TRANSPORT:

- > E-ferry, Halfdan Abrahamsen, Media & Information Manager, Ærø EnergyLab (Municipality of Ærø);
- > LeanShips, Pieter Huyskens, Director Research, Development & Innovation, Damen Shipyards
- > HyShip, Jon Nordgard, Strategy Manager Wilhelmsen New Energy and Vice President Business Development Massterly

ANDREAS NØHR VESTERGAARD
Chief Advisor, Danish Maritime Authority
Zero Emission Shipping - Mission Innovation

Q AND A

11:40–12:00
COFFEE BREAK

12:00–13:30 COMPETITIVE, CONNECTED AND AUTOMATED WATERBORNE TRANSPORT

FOTINI IOANNIDOU
Head of the Maritime Safety Unit and Deputy Director
Waterborne Transport Directorate
European Commission, DG MOVE

ANTOINE KEDZIERSKI
Policy Officer, Mobility
European Commission, DG GROW

Overview of projects in the portfolio
GEORGIOS CHARALAMPOUS
Project Officer
CINEA

3 PROJECTS CO-FINANCED BY HORIZON 2020, ESSENTIAL FOR THE TRANSITION TO COMPETITIVE, CONNECTED AND AUTOMATED WATERBORNE TRANSPORT:

- > AUTOSHIP, Marco Molica Collela, Senior Innovation Management Consultant at PNO Consultants
- > HOLISHIP, Jochen Marzi, Director EU Research Relations, HSVA
- > NOVIMAR, Marco Scholtens, Innovation Manager, Netherlands Maritime Technology Foundation

Q AND A

13:30–14:15
LUNCH

14:15–15:45

SAFE AND SECURE WATERBORNE TRANSPORT

LANFRANCO BENEDETTI
Policy Officer, Maritime Safety Unit
European Commission
DG MOVE

Overview of projects in the portfolio
ANNA KARAMIGKOU
Project Officer
CINEA

3 PROJECTS CO-FINANCED BY HORIZON 2020, ESSENTIAL FOR THE TRANSITION TO SAFE AND SECURE WATERBORNE TRANSPORT:

- > FLARE, Apostolos D. Papanikolaou, Emeritus Professor of the National Technical University of Athens
- > Lynceus2Market, Melinda Kuthy, Director of the Business Development Department, RTD TALOS
- > SafePASS, Lazaros Karagiannidis, Senior Researcher and Project Manager, National Technical University of Athens

Q AND A

15:45–16:15
WRAP-UP AND CLOSING

JANE AMILHAT
Head of Unit, Low Emission Future Industries
European Commission, DG RTD

MARCEL ROMMERTS
Head of Unit, Transport Research
CINEA

JAAP GEBRAAD
Secretary General
Waterborne Technology Platform

SPEAKERS



DIANE GILPIN
CEO Smart Green Shipping Alliance

Diane Gilpin leads Smart Green Shipping (SGS), a purpose-driven for-profit systems design house working to drive immediate, scalable, positive change in the global shipping fleet. SGS works collaboratively across the shipping eco-system and brings-in adjacent technologies and industries. In 2018/19 SGS led an InnovateUK supported collaborative feasibility analysis quantifying the benefits of retrofitting its FastRig™ wingsails onto a ship importing biomass into the UK for Drax power. Fuel and GHG emissions savings were verified, in computational fluid dynamic modelling (virtual world) at the University of Southampton, as at least 20% per annum. She sits on UK Department for Transport Clean Maritime Council; is a European Green Shipping Expert for EU Waterborne Transport Platform; 'Woman of Power', BBC Woman's Hour 2020; a recipient of InnovateUK's 'Women in Innovation' Award; winner of the 2021 International Windship Association's 'Outstanding Contribution' Award.

DIRK BECKERS
Director, CINEA

Dirk Beckers is the Director of the European Commission's European Climate, Infrastructure and Environment Executive Agency (CINEA). CINEA has a key role in supporting the European Green Deal, with a budget of around € 58 billion for the period 2021-2027 and 500+ staff. He is responsible for the overall financial and human resources management as well as the coordination of the high-quality programme management the funding activities performed by the Agency.



ROSALINDE VAN DER VLIES
Director, Clean Planet Directorate, European Commission, DG Research and Innovation

Rosalinde van der Vlies, is the Director of the Clean Planet Directorate in the European Commission's, Directorate-General for Research and Innovation. Before her appointment as Director, Ms van der Vlies was the Head of Coordination & Interinstitutional Relations Unit, and acting Head of Communication & Citizens Unit. Previously she held positions in Directorate-General Environment, Directorate-General Justice and Home Affairs, and in the private office of Janez Potočnik, the European Commissioner for the environment. Before joining the European Commission, she worked as a competition lawyer in an international law firm in Brussels and was a part-time teacher at the Catholic University in Brussels.



MAGDA KOPCZYŃSKA
Director for Waterborne Transport European Commission, DG MOVE

Director for Waterborne Transport in Directorate-General for Mobility and Transport within the European Commission, since 16/10/2016. Her Directorate is responsible for the development and follow-up of the implementation of policies in support of logistics, maritime transport, ports, and inland navigation. After joining the European Commission in 2006, to work in the Directorate-General for Internal Market and Services, she was appointed as the Head of Unit for Clean Transport, Urban Transport and Intelligent Transport Systems - between May 2009 and June 2011. In July 2011 she became Head of Unit dealing with Maritime Transport policy and Logistics, until taking up the post of Director for Sustainable and Innovative Mobility in DG MOVE on 1 May 2014 to 15 October 2016.

ÅSA BURMAN
Board Vice-Chair, Waterborne Technology Platform

Åsa Burman has more than twenty years of experience in leadership and management within the energy and maritime sector. Since 2015 she is the director of Lighthouse, the Swedish collaboration platform for maritime research and innovation, with members from academia, research institutes, industries and from society. Since 2021, she is the vice-chair of the Board of the Waterborne Technology Platform.



DAMIEN MEADOWS
Advisor on European and International Carbon Markets, DG CLIMA

Damien Meadows is the Advisor on European and International Carbon Markets at the European Commission. As a lawyer and Head of Unit, he has been involved in drafting, negotiating and implementing market-based policies to reduce greenhouse gas emissions since 2000. In particular, he has worked on EU emissions trading system that gives economic incentives over the last 15 years for tackling climate change, and on the REACH law that comprehensively reformed EU chemicals regulation. He has lengthy experience of UN climate negotiations from the Kyoto Protocol to the Paris Agreement and, before joining the Commission, he was a solicitor in the UK.

GABRIEL MIALOCO
Head of Sector, Clean Transport Industry (Aviation and Waterborne), CINEA

Gabriel Mialocq is Head of Sector for Waterborne and Aviation Research and Innovation in the transport unit of the European Commission's European Climate, Infrastructure and Environment Executive Agency (CINEA). Gabriel has more than 15 years of experience in EU transport innovation and has been working for CINEA since 2014. His sector is currently managing close to 100 projects in waterborne and aviation R&I with an EU budget of over 500 M€.



ANDREAS NØHR VESTERGAARD

Chief Advisor, Danish Maritime Authority, Zero Emission Shipping - Mission Innovation

Andreas Nøhr Vestergaard is a Chief Advisor at the Danish Maritime Authority. He holds a position as Mission Director of the Zero-Emission Shipping Mission under Mission Innovation, and as a part of the team Climate and Green Transition in the DMA, he is responsible for the coordination of the DMA's climate diplomacy. Andreas joined the DMA in November 2021 and has previously worked as a manager, project manager and consultant in various public organisations in Denmark and in the Danish Foreign Service.



FOTINI IOANNIDOU

Head of the Maritime Safety Unit and Deputy Director, Waterborne Transport Directorate, European Commission, DG MOVE

Fotini Ioannidou is Head of the Maritime Safety Unit and Deputy Director Waterborne Transport in the Directorate General for Mobility and Transport of the European Commission since January 2021. She studied electrical engineering in Greece, followed by postgraduate degrees in electronics and information systems in France. She started her career as an IT and telecoms consultant in Paris (CAP GEMINI), working on aviation research projects. She joined the European Commission in 1994. Her work at the Commission has focused mainly on transport policy, including policy and inter-institutional coordination, aviation safety and air traffic management. From 2012-2016 she served as Head of the Human Resources Unit for the Directorate General for Mobility and Transport and the Directorate General for Energy. From 2017 to 2020 she held the post of Head of the Road Safety Unit. She has been dealing with research, innovation and industrial policy in the area of transport all along her career in the various positions she has held.



ANTOINE KODZIERSKI

Policy Officer, Mobility European Commission, DG GROW

Antoine Kedzierski works in the Mobility Unit of the Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs of the European Commission, where he focuses in particular on aspects related to the maritime and rail industries, as well as the transition pathway for the mobility ecosystem.

Previously, Antoine worked in the Commission's Directorate-General for Mobility and Transport, where he concentrated on sustainability of shipping and the promotion of short sea shipping as well as the establishment of the Shift2Rail Joint Undertaking, the public private partnership, established under Horizon 2020 to manage rail-related research and innovation projects.

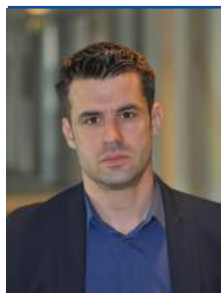
Antoine holds a Master degree in political sciences from the Freie Universität in Berlin as well as a Master in EU Affairs from Sciences Po Paris.



GEORGIOS CHARALAMPOUS

Project Officer, CINEA

Georgios Charalampous is a Project Manager in the Unit "Horizon Europe Transport" in the European Climate, Infrastructure and Environment Executive Agency (CINEA). His portfolio consist of projects of waterborne transport projects in the areas of alternative propulsion, alternative fuels, maritime logistics, shipbuilding and Blue Growth. Georgios also supports the European research policy from various horizontal working groups and the co-creation groups for the development of the waterborne driven research topics of Horizon Europe. Since 2004, during his career as project manager of transport research projects, he has managed over 80 projects from either the side of implementation as researcher or the side of EU Administration. Georgios holds a Master degree on Transport systems Engineering and Management from the Aristotle University of Thessaloniki.



LANFRANCO BENEDETTI

Policy Officer, Maritime Safety Unit European Commission, DG MOVE

Lanfranco Benedetti holds a degree in aeronautical engineering complemented with studies in aerospace engineering. Lanfranco has been working for more than 10 years at the Institute of Marine Engineering of the Research Council of Italy dealing with experimental fluid dynamics; has been working with SEA Europe following R&D, regulatory affairs and naval shipbuilding and now with the European Commission in the maritime safety unit of DG MOVE.

ANNA KARAMIGKOU

Project Officer, CINEA

Anna Karamigkou is a Project Officer in the European Climate, Infrastructure and Environment Executive Agency (CINEA). She manages a portfolio of projects related to maritime safety in passenger and commercial ships, alternative fuel propulsion technologies and new materials in repair and maintenance. She is an Economist with a specialisation in Shipping and Transport and she holds a Ph.D. in Transport Economics from the University of the Aegean.



JANE AMILHAT

Head of Unit, Low Emission Future Officer, CINEA Commission, DG RTD

Jane Amilhat, who took over the management of unit Low emission future industries in the Directorate General for Research and Innovation (DG RTD) of the European Commission in April, is coming from Directorate General for Energy (DG ENER) where she was 3 years Deputy Head of Unit in charge of Energy infrastructures and Regional co-operation. Jane Amilhat worked in the private sector after her engineer/economist study in France and Germany. She started her career in the industrial/energy sector (Danone, Gaz de France/Engie, RWE Trading). She joined the European Commission in Directorate General for Environment (previously DG ENV, now DG CLIMA) from 2006 until 2008, where she was responsible for international climate change negotiations and sectorial climate policies. She has been dealing with Energy and industrial issues when she started at Directorate General for Trade (DG TRADE) at the end of 2008. She was responsible for Russia and the Eastern Partnership but also the Western Balkans and Switzerland when she became Deputy Head of Unit at DG TRADE in 2014.

MARCEL ROMMERTS

Head of Unit, Transport Research, CINEA

Marcel Rommerts is Head of Unit for Transport Research in the European Climate, Infrastructure and Environment Executive Agency (CINEA). He started as head of unit on 1 September 2014 in INEA, the predecessor of CINEA. Under his guidance, his team selected and managed nearly 400 research and innovation projects, including more than 60 in the waterborne and blue growth domain. This project portfolio will soon be extended with the first projects from the new Horizon Europe programme. Marcel started working in the European Commission in 1994. During his career in the Commission, among others, he developed policy initiatives in the field of transport innovation and urban mobility. Marcel holds degrees in Transport Engineering and Business Studies and Engineering. He holds a Ph.D. in Transportation Studies from University College London.



JAAP GEBRAAD

Secretary General, Waterborne Technology Platform

Jaap has worked for about 10 years as Board Secretary and Senior Project Manager of the "Bureau Innovation Research & Development" of the Foundation STC Group. He was also the Daily Secretary of the European Association EDINNA (Education in Inland Navigation). Jaap holds a Bachelor's Degree in Logistics and Economics of the University of Applied Sciences (HES) in Rotterdam. Currently, Jaap is the Director for Research & Development Affairs at SEA Europe and the Secretary General of the Waterborne Technology Platform.



JON NORDGARD

VP Business Development, Wilhelmsen New Energy & Massterly

Jon Nordgard holds a MSc. in Marine Technology from NTU, Berkley & MIT. His professional path focuses on Management Consultancy (three years at the PA Consulting Group), Strategy and M&A Team (three years at the Wilh. Wilhelmsen Holding) and more specific projects involving autonomous vessels, digitalization and zero emission vessels at the Wilhelmsen New Energy & Massterly.



JOCHEN MARZI

Director EU Relations and Research, HSVA

Dr. Jochen Marzi graduated in 1985 from Hamburg University as Dipl. Ing. Naval Architecture and received his PhD in 1988 from Technical University Hamburg. Since then he worked for a shipyard research establishment at Bremerhaven Germany, making first contacts with joint European Projects. In 1996 Jochen Marzi joined Hamburgische Schiffbau Versuchsanstalt - HSVA, working as a senior CFD engineer and project manager both in research and consultancy work, leading several large European projects such as the VIRTUE IP in FP 6 and presently HOLISHIP in Horizon 2020. He is now director EU relations and responsible for the coordination of European Research at HSVA and active in several R&D projects dealing with CFD, Ship Design and Energy Efficiency. Jochen Marzi is also Chairman of the European Council for Maritime Applied R&D (ECMAR) and active in the Waterborne Technology Platform where he has been elected as member of the board in 2021.



MARCO SCHOLTENS

Netherlands Maritime Technology Foundation

Scholtens is a naval architect from Delft University of Technology with 20 years professional experience in shipping and offshore installation industry. Most recently, he was employed as Fleet Development Manager at a ship owner in charge of managing ship construction, conversion projects and implementation of new technologies on the owner's research vessels.

Mr. Scholtens is project coordinator for the NAVAIS and NOVIMAR projects, under the Horizon 2020 program, as well as program manager for the SMASH program - the NL network association promoting the implementation of smart and autonomous shipping in the Netherlands.



MELINDA KUTHY

Head of the Business Development Department at the RTD TALOS

Melinda Kuthy holds a Master's degree in International Economics and Business Relations from the Corvinus University (Budapest) and has also obtained a postgraduate title in European Union policies and administration. She also holds a Master's Degree in Business Administration (MBA) obtained from the European University of Cyprus.

She has worked for the Invention and Research Centre in Hungary as the Chief Financial Officer and Head of the Project Management Department being responsible not only for the management and coordination of European Research and Development projects, targeting mainly the small and medium-sized enterprises but also for the business administration of the Research Center. Currently she works at the Development Organisation RTD TALOS as Head of the Business Development Department being in charge of the management and implementation of European and national research projects, focusing on tasks such as project management and coordination, dissemination, communication and exploitation of research results, knowledge and intellectual property management as well as networking and stakeholder engagement.



PIETER HUYSKENS

Director Research, Development & Innovation, Damen Shipyards

Pieter Huyskens is an electro-mechanical engineer by education. After his studies he started his career as a lecturer and researcher at the Karel de Grote University College in Antwerp and combined this, later on, with a part-time research fellow position at the University of Ghent, where he worked on combustion engines and all types of alternative fuels. Ten years ago Pieter started at Damen Shipyards in the R&D Department, where he held different positions. He started as Research Engineer Sustainability and then moved up to become Programme Manager Sustainability. From there he moved to the position of Manager Research. It is also during this period that Pieter was Project Coordinator for the Horizon 2020 project LeanShips. In 2018, Pieter became Head of the Central Expertise Centre for R&D within Damen and since the beginning of this year he is Director Research, Development & Innovation for the Damen Group. He continues to push sustainability as an import topic for the future of the maritime industry.



APOSTOLOS D. PAPANIKOLAOU

Emeritus Professor of the National Technical University of Athens

Apostolos D. Papanikolaou is Emeritus Professor of the National Technical University of Athens (NTUA). He studied Naval Architecture & Marine Engineering at the Technical University of Berlin. He was the founder and Head of the Ship Design Laboratory of NTUA until his retirement in 2016. He was/is Visiting Professor in Japan, USA, Germany, Singapore and UK and also Senior Scientific Advisor of the Hamburger Ship Model Basin (HSVA).

He was Principal Investigator of over 75 funded research projects, author/co-author of over 660 scientific publications and editor of books dealing with the design and optimization of conventional and unconventional vehicles, the hydrodynamic analysis and performance of ships, the logistics-based ship design, the stability and safety of ships and related regulatory developments of the International Maritime Organization. He received various international prize awards for his research work and RTD contributions, among them the Lloyds List 2009 Greek Shipping award on Technical Innovation (jointly with Germanischer Lloyd), the prestigious Dr. K. Davidson medal/award of the Society of Naval Architects and Marine Engineers (SNAME) for outstanding achievement in ship research in 2010 and the European Champions 1st Award for Senior Researchers in Waterborne Transport in 2014.

He is Fellow of the SNAME, the Royal Institution of Naval Architects (RINA), the German Soc. of Naval Architecture (STG) and the 1st Distinguished Foreign Fellow of the Japanese Society and Naval Architects and Ocean Engineers (JASNAOE). He served as President of WEGEMT, of the Hellenic Institute of Marine Technology, International Vice President of SNAME and President of the Greek Section of SNAME.



HALFDAN ABRAHAMSEN

Media & Information Manager, Ærø EnergyLab (Municipality of Ærø)

Halfdan lives on the island of Ærø in southern Denmark, where he deals with the E-ferry project and other municipal projects concerned with renewable energy and the energy transition. Halfdan frequently presents the E-ferry project at maritime conferences and to national and international media, and he has guided numerous visitors aboard the E-ferry Ellen, ranging from school children to engineers to top politicians who want to learn about the revolutionary ferry.

Halfdan holds a Master's Degree from the University of Aarhus, Denmark, where he focused on environmental literature, thinking and policy. However, his general interest in technology allows him to speak in detail about also the technical aspects of new 'green' technology. He has previously worked in the Danish state as an information manager and project leader.



MARCO COLELLA

Senior Innovation Management Consultant at PNO Consultants

Marco MOLICA COLELLA (Ciaotech, Italian branch of PNO Consultants) is a Mechanical Engineer and PhD in Aeronautics with further executive education in IPR, open innovation, business and finance. He is a + 15 years' experienced researcher (see here for publications), innovation consultant and manager in EU funded projects.

Since 2014 in PNO, he is a Team manager and Heads of the Innovation Analysts unit. He works as Project Manager and expert in specific cleantech engineering domains, focussing on Industrial, Energy and Transport sectors.

In its daily job, Marco supports organisations in getting Strategic Analysis, Business Planning & Funding, managing and supporting large mixed consortia and since 2020 he is expert for the Horizon Research Booster by the EC.

As of 2019 he is the Coordinator of the H2020 AUTOSHIP project.

LAZAROS KARAGIANNIDIS

Senior Innovation Management Consultant at PNO Consultants

Lazaros Karagiannidis holds a MSc. in Mobile, Personal and Satellite Communications (University of Westminster, UK) and a B.Sc. in Physics (Aristotle University of Thessaloniki Greece). He has over 10 years of experience in project management, design, engineering, and consultancy in industrial projects involving ICT, telecommunications, industrial communications, emergency, and crisis communications. He is working since 2013 at the I-SENSE research group of the National Technical University of Athens (NTUA) in Greece as a senior researcher and project manager in several scientific and research areas such as Smart Integrated Systems - Sensors, Communication, Platforms, Virtual Environments and Assistive Technologies. In his current position as a Technical Operations Manager of the Crisis Management and Secure Societies (CMSS) group of I-SENSE he is coordinating the organization and execution of EC funded R&D projects. He has actively participated in several FP7 and H2020 projects as project/technical and quality manager focusing on communication and data platforms, system specifications and architecture, security and interoperability, surveillance systems, IoT solutions and services, and embedded systems in various domains such as Transport, Critical Infrastructures, Smart Cities and Disaster Management. He is currently the project manager and member of the coordination team the H2020 Project SafePASS. He has published several scientific papers and journals and is a reviewer in peer reviewed scientific conferences and journals.

