



Waterborne Transport



HORIZON EUROPE

SafePASS

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Next Generation of Life-Saving Appliances
and Systems

Safe waterborne transport

The Challenge

- Evacuating a large passenger ship is a hazardous, safety-critical, strictly time-bound task and a complex decision-making process
- SafePASS vision is to make ship evacuation and abandonment of large passenger ships **safer, faster and smarter**

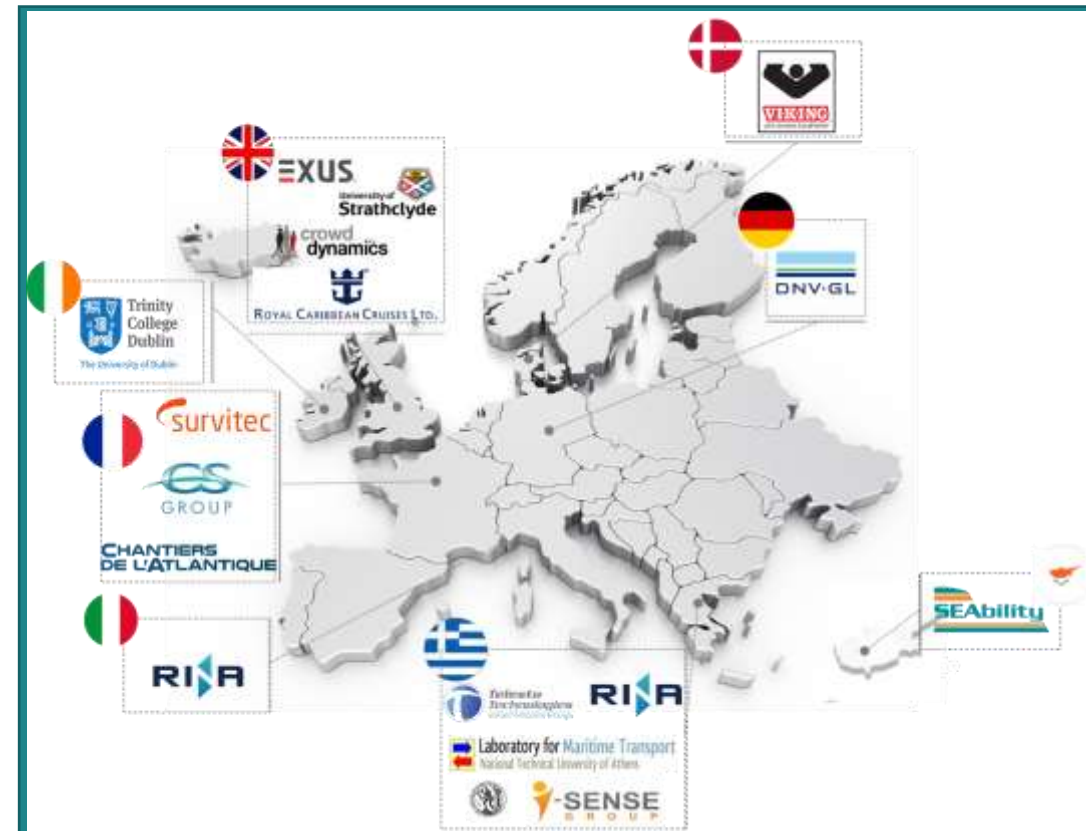
SafePASS solutions:

- Smart technologies, personal survival equipment, and systems for **location-based information and passenger evacuation support**
- An integrated platform and Augmented Reality applications for **enhanced situational awareness, early warnings, evacuation management and training**
- Novel Life-Saving Appliances (Lifeboats), Entrance Passages & Architectural Structures to **make access, boarding and launching of LSAs more efficient and safe**
- **Risk Modelling Tool** for assessing the evacuation & abandonment risk, and evaluation of risk control options for flooding and fire scenarios



The SafePASS project

Consortium Partners	Short Name	Country
1. National Technical University of Athens	NTUA	Greece
2. EXUS Software	EXUS	United Kingdom
3. Maritime Safety Research Centre, University of Strathclyde	MSRC	United Kingdom
4. Telesto Technologies	TEL	Greece
5. Crowd Dynamics International	CDI	United Kingdom
6. CS Group	DXT	France
7. Trinity College Dublin	TCD	Ireland
8. Survitec	SURV S	France
9. Chantiers de l'Atlantique	CdA	France
10. RINA Hellas	RINA	Greece
11. Seability	SEAB	Cyprus
12. Royal Caribbean Cruises	RCL	United Kingdom
13. DNV	DNV	Germany
14. RINA Services SPA	RINA S	Italy
15. VIKING Life Saving Equipment	VIK	Denmark



Budget: € 8 270 366,25 with EU support € 8 270 366,25

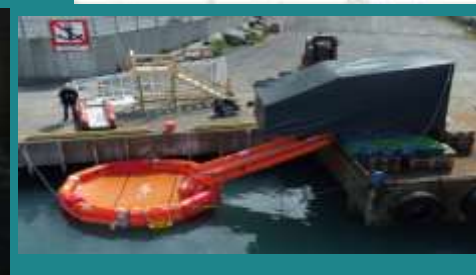
Duration: 40 months

From September 2019, until December 2022

Achievements

- Successful design, implementation, individual validation and **demonstration of SafePASS prototypes** (Feb 2022 on Royal Caribbean Cruise ship at CdA's shipyard in Saint Nazaire with the participation of volunteers and guests):
 - **Dynamic evacuation process:** Dynamic allocation of muster station and evacuation routes depending on the actual situation, passenger location etc.
 - **Evacuation support technologies:** Passenger mobile application, Dynamic Exit Signs, Smart lifejacket and Smart Wristband, indoor localization system, AR passenger assistant and crew assistant application
 - **Situational awareness, optimum evacuation, training solutions & risk modelling:** Common operation picture (3D and holographic), real-time data integration, crowd/evacuation simulation, AR LSA lifeboat training application, Risk Modelling Tool
- Design and testing of **Novel Hard and Soft-shell Lifeboats models, entrance arrangements and passages, and ship architectural structures**
 - Integration of the novel LSA's into vessel layouts, towing tank model testing of novel LSAs, evacuation simulation

SafePASS prototypes: Testing and validation



Next Steps

- Finalizing the Risk Modelling tool, the Cost-Benefit Analysis & Risk Control Options and the final evaluation and validation report of SafePASS solutions
- IMO submission(s) to Maritime Safety Committee MSC 106
- Dissemination of project results & stakeholder engagement
- Finalization of exploitation and business plan
 - Finalization of exploitable outcomes and IPRs
 - Establish link with industrial partners, activate exploitation channels



Co-funded by
the European Union

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Q&A ?

Speaker will be available on the stand for the remainder of the day.

Contacts:

- <http://www.safepass-project.eu/> - Please Sign up for our Stakeholder Network: <http://www.safepass-project.eu/stakeholder-network>
- <https://www.linkedin.com/company/safepass-project>
- <https://www.facebook.com/SafePASS.H2020/>
- https://twitter.com/safepass_h2020?lang=en
- https://www.youtube.com/channel/UCwKxw0ajfy_zOg98gUGbRBA
- info@lists.safepass-project.eu
- Horizon Europe Horizon Europe | European Commission (europa.eu)
- Waterborne TP: [Welcome to Waterborne - Setting the agenda for Maritime Research in Europe - waterborne.eu](#)

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