Project website and online access database

Work Package 7

D7.3 [01] | 30 April 2021

Draft

Project Title:

GATE Rudder System as a Retrofit for the Next Generation Propulsion and Steering of Ships

Project Acronym:

GATERS

Document Control

Document Information

Project Title	GATE Rudder System as a Retrofit for the Next Generation Propulsion and Steering of Ships
Document Title	Project website and online access database
Project No.	860337
Document No.	D7.3
Issue Number	[01]
Issue Status	Draft
Circulation	Public

Document History

Issue	Date	Status	Comments on Content	Prepared By	Checked By	Approved By
01	30/04/2021	For Review	Awaiting comments	JM, CL	ST, UB	BA, MA

Project Team

Initials	Name	Role	Institution
JM	Jeremy Morgan	Project Partner	TWI Ltd
CL	Chang Li	Project Partner	Newcastle University
ST	Serkan Turkmen	Project Partner	Newcastle University
UB	Ujjwal Bharadwaj	Project Partner	TWI Ltd
BA	Batuhan Aktas	Project Manager	University of Strathclyde
MA	Mehmet Atlar	Project Coordinator	University of Strathclyde

This project has received funding from the European Union's Horizon 2020 innovation action programme under grant agreement No 860337

Disclaimer and Sub-licence Agreement

Disclaimer

This document reflects only the GATERS Consortium's view and the Innovation and Networks Executive Agency (INEA) is not responsible for any use that may be made of the information it contains.

The information contained in this report is subject to change without notice and should not be construed as a commitment by any members of the GATERS Consortium or the authors. Information is provided without any warranty of any kind and the GATERS Consortium disclaims all implied liabilities and / or warranties of any kind, including but not limited to implied warranties of fitness for a particular use.

Sub-licence Agreement

The project has an official sub-license agreement with Wartsila Netherlands BV to utilise the Gate Rudder Patent (EP 3103715) at specific retrofit projects of vessel sizes below 15000 DWT.

GATERS Innovation Action Project is sponsored by the EC H2020 Programme (ID: 860337) with aims and objectives independent of Wartsila Netherlands BV.

This project has received funding from the European Union's Horizon 2020 innovation action programme under grant agreement No 860337

Executive Summary

This deliverable that corresponds to Task 7.2.1 and Task 7.3.3 presents the establishment of the official GATERS project website [1] and online repository system.

An official GATERS project website is presented which will serve as the core platform for all project-related public information and is a key part of the project communication tools.

An online repository system has been introduced to the partners of the GATERS project, which is used for providing open data freely to everyone to use and republish as they wish, without restrictions from copyright, patents, or other mechanisms of control. A mechanism (Email before download) has been established in order to track real time monitoring of the online repository usage.

This project has received funding from the European Union's Horizon 2020 innovation action programme under grant agreement No 860337

Contents

Figures in the Main Text

Abbreviations

WP	Work Package
EC	European Commission

This project has received funding from the European Union's Horizon 2020 innovation action programme under grant agreement No 860337

1. Document Purpose

1.1 Introduction

This document presents the establishment of the project website and online repository. In line with the projects' communication, dissemination and exploitation plan, a user friendly website has been developed. The website will serve as the core platform for all project-related public information and is a key part of the project communication tools.

This deliverable provides an overview of the website and main structure through the use of screenshots and brief supporting information. Additionally, details of the online repository for disseminating research outcomes is presented.

Proposed by the project, as described in subtask T7.3.3, this deliverable additionally presents the online repository system set up in the GATERS project for reliably storing and managing open-access data.

The online repository system was introduced in April 2021 for the use of the project partners to disseminate their open data and open research outcomes for knowledge development cooperation.

1.2 Confidentiality

This deliverable will be publicly available on the project website.

This project has received funding from the European Union's Horizon 2020 innovation action programme under grant agreement No 860337

2. Project Website

2.1 Content

The project website has been created and will be maintained by TWI Ltd. It can be found at the following link, www.gatersproject.com . The footer of the website contains the EU funding acknowledgement as shown in Figure 1 with a statement on the projects' H2020 grant number.

The website is divided into seven different sections: Home, About, Publications, News and Events, Consortium, Contact and Private Area. The website is user-friendly and straightforward to navigate as shown in Figure 2. Each section of the website can be accessed by following the links at the top of the menu. This website and its content will be updated periodically to improve and expand the information presented as the project progresses.

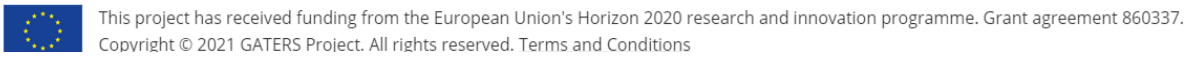

Figure 1: The EU funding acknowledgement is included in the website footer

Figure 2: GATERS website menu

2.2 Site map

- **Home**
- **About:** Includes a summary of the project objectives, facts and figures and expected impact.
- **Publications:** Includes technical publications from the consortium including public deliverables and papers.
- **News and Events:** This will be regularly updated to feature press releases and project updates.
- **Consortium:** Includes a description of each of the consortium members.
- **Contact:** Includes contact details.
- **Private Area:** A link to the internal file repository system utilised by the consortium members. Access is restricted to approved users only and requires a log-in and password.

2.3 Website sections

The following section presents descriptions and screenshots from each section of the websites main pages.

This project has received funding from the European Union's Horizon 2020 innovation action programme under grant agreement No 860337

Home

The homepage features a short summary of the project, its objectives and impact and the consortium. Users can scroll to find the latest project updates from the News and Events page and will find links to the dedicated project social media pages alongside the EU funding acknowledgement.

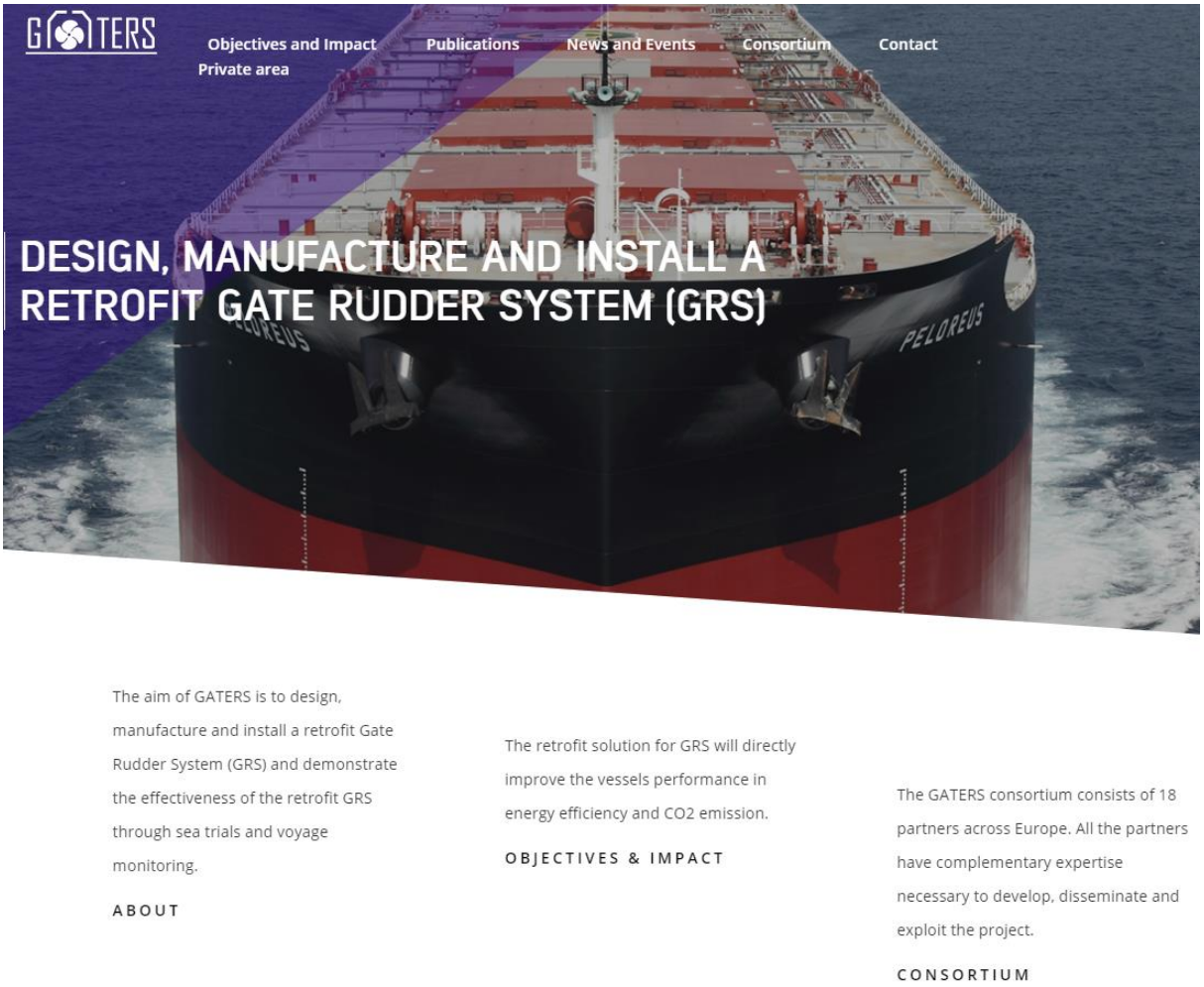

Figure 3: Website 'Home' page

Objectives and Impact

This section gives an overview of the project, summarising the aims and objectives. The subsections provide additional detail on the objectives and expected impact of the project including facts and figures.

This project has received funding from the European Union's Horizon 2020 innovation action programme under grant agreement No 860337

Objectives

The overall objective of GATERS is to exploit the potential benefits and hence impact of the Gate Rudder System (GRS) on shipping operations at two levels and mainly for the "Retrofit" application of the GRS on ships. The first level is across the range of European Short Sea Shipping (SSS) operations by demonstrating the application and impact on an existing general cargo ship which will be fitted with the GRS and operated.

The second level is to demonstrate its implementation and impact through wider ship types at the concept exploration level, including the Oceangoing Shipping (OS) operations. The combination of both applications will demonstrate if the GRS can be the next generation of propulsion

Figure 4: 'About' page

Publications

This section presents a library of all public deliverables produced and open-access papers published during this project. These documents are available for download.

Publications

- Gate Rudder
- The Gate Rudder application to improve ships poor course keeping ability of ships
- Advantages of twin rudder system with asymmetric wing section aside a propeller
- A new energy saving twin rudder system - Gate Rudder
- A prediction program of manoeuvrability for a ship with a Gate Rudder system

Figure 5: 'Publications' page

This project has received funding from the European Union's Horizon 2020 innovation action programme under grant agreement No 860337

News and Events

This section includes all the press releases, news and relevant project updates in addition to information on events such as conferences and dissemination events where the project has a presence. The articles on this page can be searched and sorted to find relevant content.

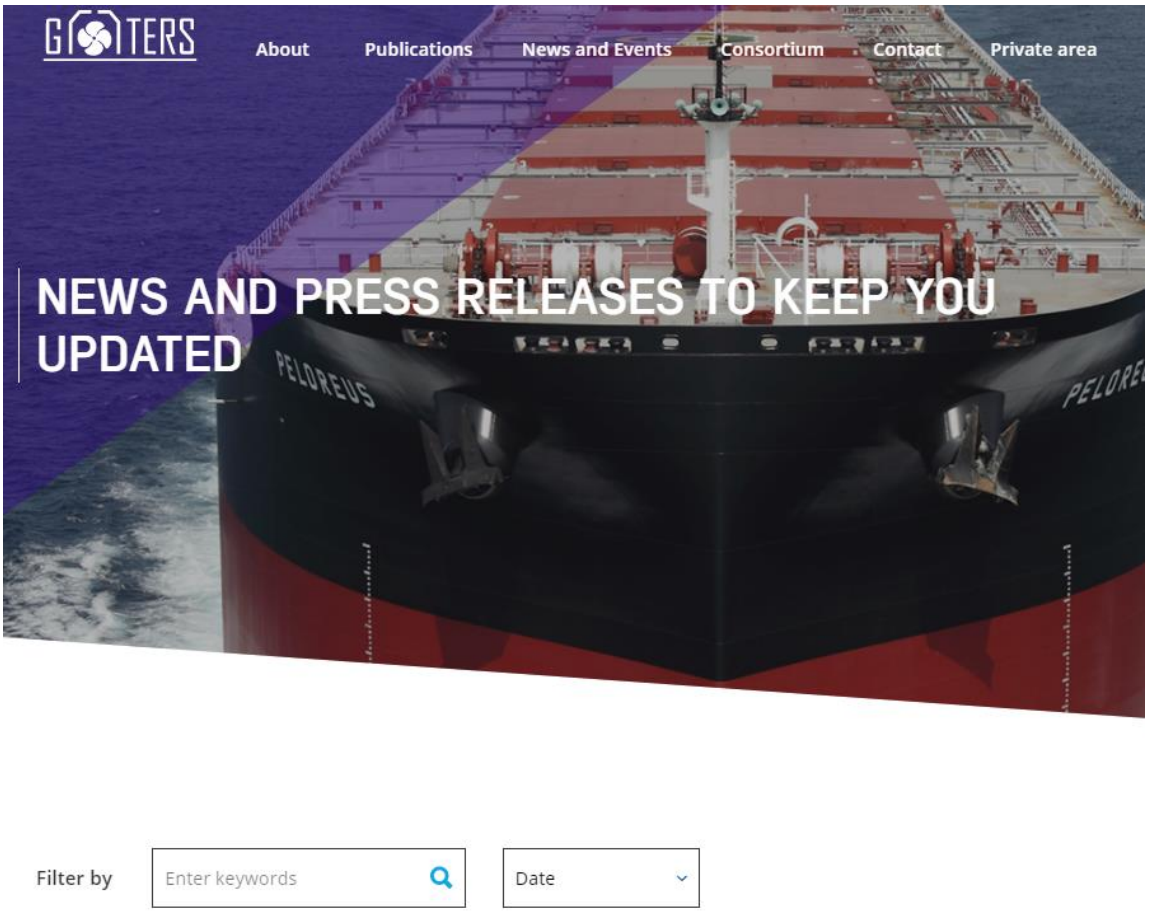

Figure 6: 'News and Events' page where all project updates, press releases and events will be shared.

This project has received funding from the European Union's Horizon 2020 innovation action programme under grant agreement No 860337

Consortium

This section presents a list of all the consortium members within this project. Each name is expandable to provide a description of each consortium member with their logo and a link to their website.

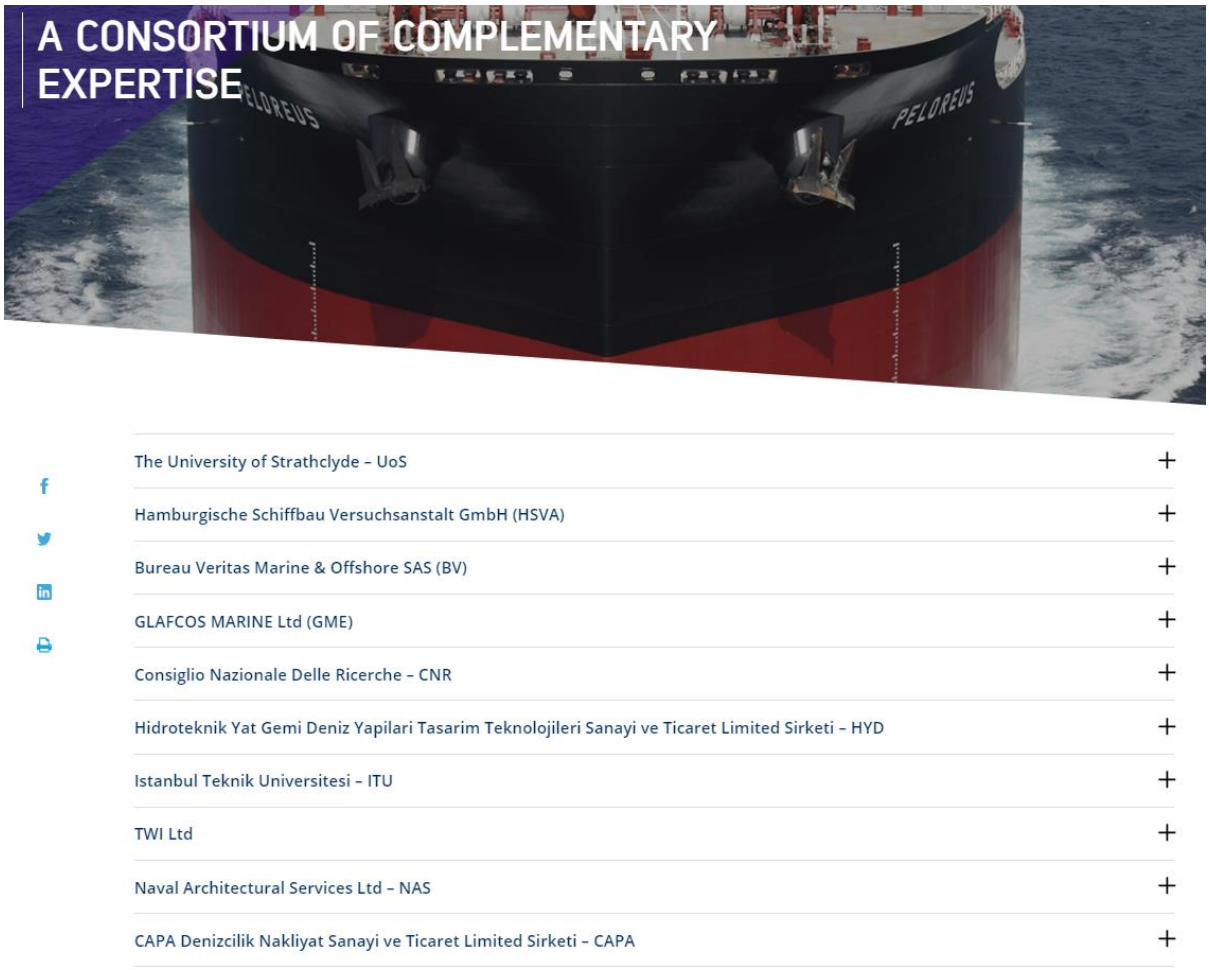

Figure 7: 'Consortium' page with expandable sections for each member of the consortium

This project has received funding from the European Union's Horizon 2020 innovation action programme under grant agreement No 860337

Contact

This section includes contact information for interested stakeholders to contact the consortium directly. A dedicated email address has been made, contact@gatersproject.com, for site visitors to use to request more information on the project.

GATERS PROJECT COORDINATION

Granta Park

Great Abington, Cambridge, CB21 6AL

United Kingdom

Tel: +44(0)1223 899000

Fax: +44(0)1223 892588

Co-ordination Team

Press and Media Inquiries

contact@gatersproject.com *(GATERS Project)*

Figure 8: 'Contact' page

Private Area

This section is password protected and is for use for the GATERS Consortium only.

This project has received funding from the European Union's Horizon 2020 innovation action programme under grant agreement No 860337

3. Online Access Database

The online repository system was introduced based on Microsoft OneDrive (formerly SkyDrive) system, with a long-term user licence maintained by Newcastle University. OneDrive is a file hosting and synchronization service operated by Microsoft as part of its web version of Office. The organisational structure of the fileserver is shown in Figure 8.

As an integrated information platform, subfolders in the online repository system have been set up (as shown in Figure 100) to contain files, images, videos, spreadsheets, and data sets – anything generated from GATERS project with open access purposes.

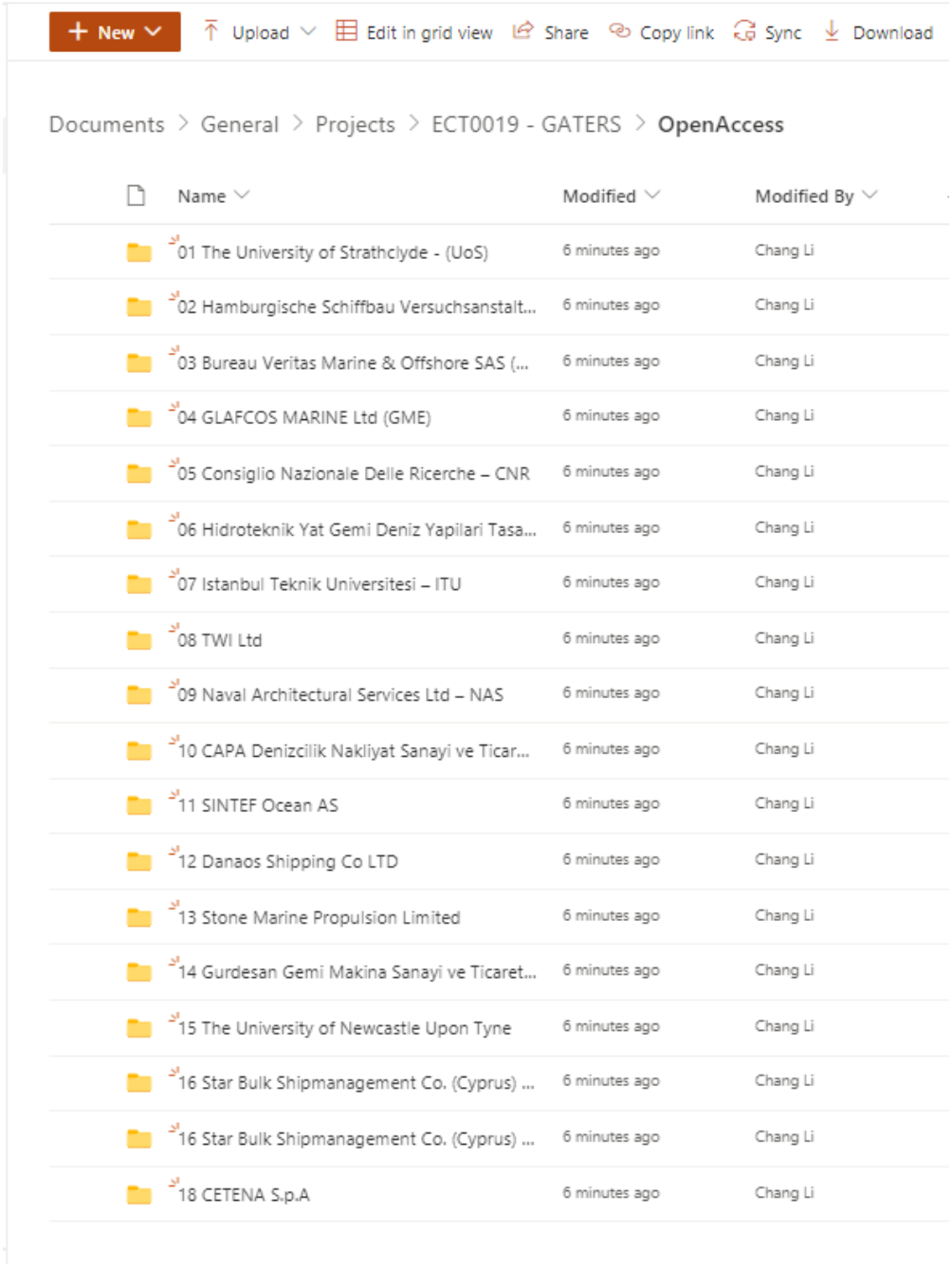

Figure 8: Screenshot of the online repository system by OneDrive

This project has received funding from the European Union's Horizon 2020 innovation action programme under grant agreement No 860337

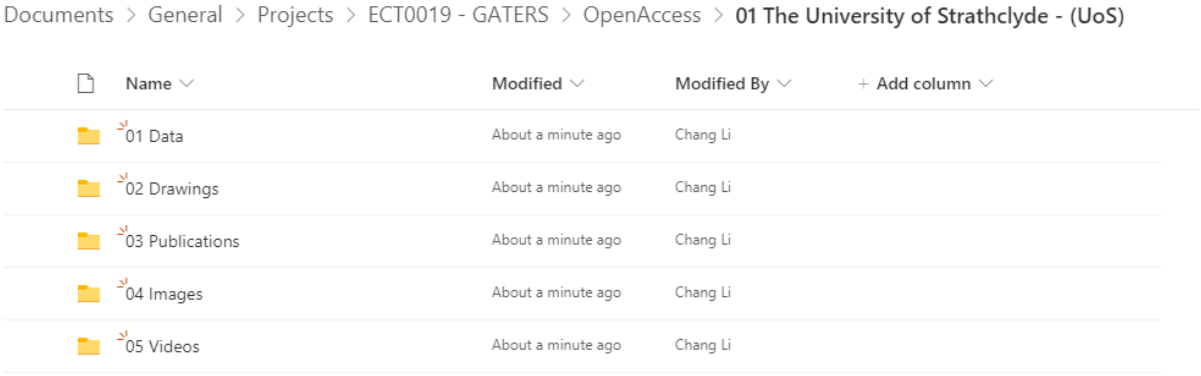

Figure 100: An example of subfolders used to arrange open access data produced by The University of Strathclyde - (UoS)

The management structure of the GATERS's open-access database and online real-time performance monitoring is illustrated in Figure 9. Newcastle University is responsible for storage, operations throughout the life cycle of the data, and improving data access by public users.

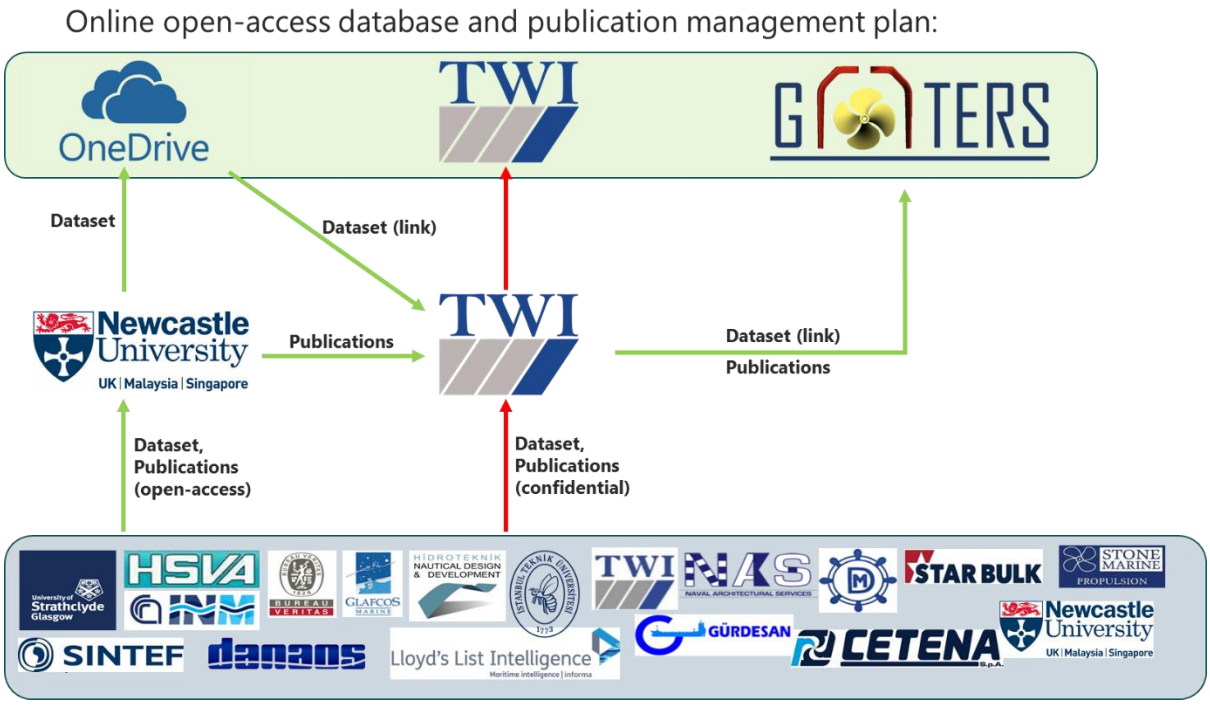

Figure 91: Data management plan for open access

For easy navigation, all users can gain access to a specific dataset from the GATERS website (https://www.gatersproject.com/) by using an exclusive link which is generated by the online repository system. A snapshot of an initial download directory with links and basic dataset information is given in Figure 11.

This project has received funding from the European Union's Horizon 2020 innovation action programme under grant agreement No 860337

No	Title	Release Date	Size	File
1	Geometry of gate rudder – Type A	01-Feb-2021	20MB	Download
2	Geometry of Propeller– Type A	01-Feb-2021	20MB	Download
3	Data of engine power demand during trials	01-Jun-2021	500MB	Download
4	Data of engine power demand during trials	02-Jun-2021	500MB	Download
5	Data of tanker vessel yawing during trials	01-Jun-2021	1GB	Download

Figure 11: Download directory for open access

As above mentioned, all users can find and download all open data and research outcomes from GATERS website. Hence, the download directory and research outcomes will be placed on the GATERS website.

Moreover, for counting the users and download volume, as well as disseminating our latest news, activities, and open data, we would like to introduce an Email Before Download (EBD) in the next step. As shown in Figure 12, this will present a user with a form in which they submit information, such as their name and email address, prior to receiving a download. Consistent with GDPR regulation, the system will add new subscribers to GATERS audience if they agree, and they will be given the option to unsubscribe anytime.

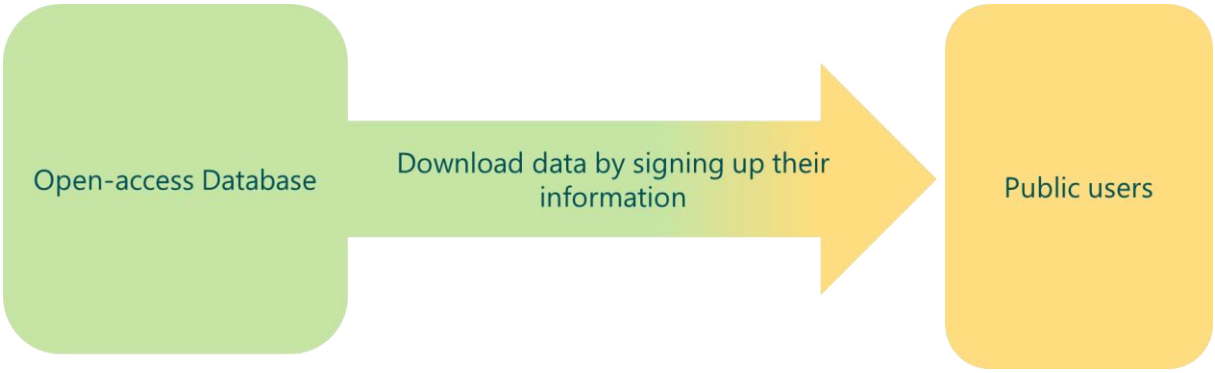

Figure 12: Email Before Download (EBD)

This project has received funding from the European Union's Horizon 2020 innovation action programme under grant agreement No 860337

4. Summary

A dedicated GATERS project website has been created and will serve as a key communication tool for disseminating the project research outcomes. The website will also be the central location to store and disseminate all public GATERS information throughout the duration of the project.

The site has been developed to be user-friendly and easy to navigate, with the website separated into seven subsections: Home, Aims and Objectives, Publications, News and Events, Consortium, Contact and Private Area. The website will be accessible to a range of audiences, including technical publications and dissemination material, to raise awareness of the project and underlying GRS technology.

During the project, the website will be maintained and updated by TWI Ltd with developments and contributions from all consortium members to ensure the latest information is publicly available to site visitors.

An online repository system, with functionality to monitor performance, has been introduced in April 2021 for GATERS project to enable project partners to disseminate their open access data and research outcomes for cooperation on knowledge sharing.

This project has received funding from the European Union's Horizon 2020 innovation action programme under grant agreement No 860337

5. References

[1] GATERS (2020). "GATE Rudder System as a Retrofit for the Next Generation Propulsion and Steering of Ships", Annex-I Description of the action, H2020 Collaborative project, Grant agreement no: 860337.

This project has received funding from the European Union's Horizon 2020 innovation action programme under grant agreement No 860337