DELIVERABLE TITLE:

JERICO-S3 D6.2

JERICO-RI inventory of platform, dataset and data products

DELIVERABLE NUMBER: **D6.2**

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COORDINATOR : Laurent DELAUNEY - Ifremer, France - jerico@ifremer.fr

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JERICO-S3 DELIVERABLE

Joint European Research Infrastructure for Coastal Observatories
Science, Services, Sustainability

DELIVERABLE n° WP and full title	JERICO-S3 D6.2 JERICO-RI inventory of platform, dataset and data products
Description	This document provides an overview of how the aggregated Jerico-S3 catalogue is compiled, how the content is managed and how it can be accessed via Sextant.
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Submitted by	Patrick Gorringe SMHI

REVISION HISTORY

Revision	Date	Modification	Author
V0.1	15.02.2021	draft	Patrick Gorringe, Peter Thijsse
V0.2	07.04.2021	draft	Lea Godiveau, Julien Meillon
V0.3	28.05.2021	Final draft, including suggestions and comments	Peter Thijsse
V1.0	21.06.2021	Final version	Peter Thijsse
V1.1	21.06.2021	Final Review	Laurent Delauney

APPROVALS

	Name	Organisation	Date	Visa
Coordinator	Delauney Laurent	Ifremer	21/06/2021	**X**
WP Leaders	Peter Thijsse	Maris	21/06/2021	**X**

Diffusion list

Consortium beneficiaries	Third parties	Associated Partners	other

PROPRIETARY RIGHTS STATEMENT

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1. EXECUTIVE SUMMARY

JERICO-S3 brings together institutions involved in coastal observation from all over Europe, preparing for a later JERICO-RI. The partners span a large geographical area and manage a number of coastal platforms related to coastal observation and have dedicated some of these to the JERICO-S3 project. To improve the overview of involved platforms a catalogue was required to describe each platform with their associated metadata (who monitors, what, how, why, where). An aggregated catalogue already existed from the JERICO-NEXT project but it required an update and a process to keep it up to date. At the same time there was a need for the JERICO ESFRI application in M8 of the project to get an indication of the coastal monitoring future JERICO-RI capacity in each country.

During the work and discussions in WP6 it was decided to split this work into two actions:

1. Update the catalogue with JERICO-S3 involved platforms (upgrading the JERICO-NEXT content)
2. Collecting the JERICO-RI potential for the ESFRI application via a Google spreadsheet.

Action 2 was most urgent and has been executed first. Since updating by the partners directly via the existing Sextant catalogue was seen as too complex and time consuming a swift action was needed. To tackle this, a Google Spreadsheet questionnaire was created where all partners were requested to add their platform overview, either for just S3 or for the later RI. Using this information an import into an aggregated catalogue has been created in Sextant (provided by Ifremer), as a **separate from the JERICO-NEXT content with less metadata and focused on a map view**. This is now providing a clear overview of all the platforms for JERICO-RI capacity as far as countries were able to supply this.

The core JERICO-S3 platform catalogue containing platforms as involved in JERICO-NEXT and expanded with additional ones for S3 is available at: https://www.jerico-ri.eu/jerico-ri-catalogue/#/search?from=1&to=30

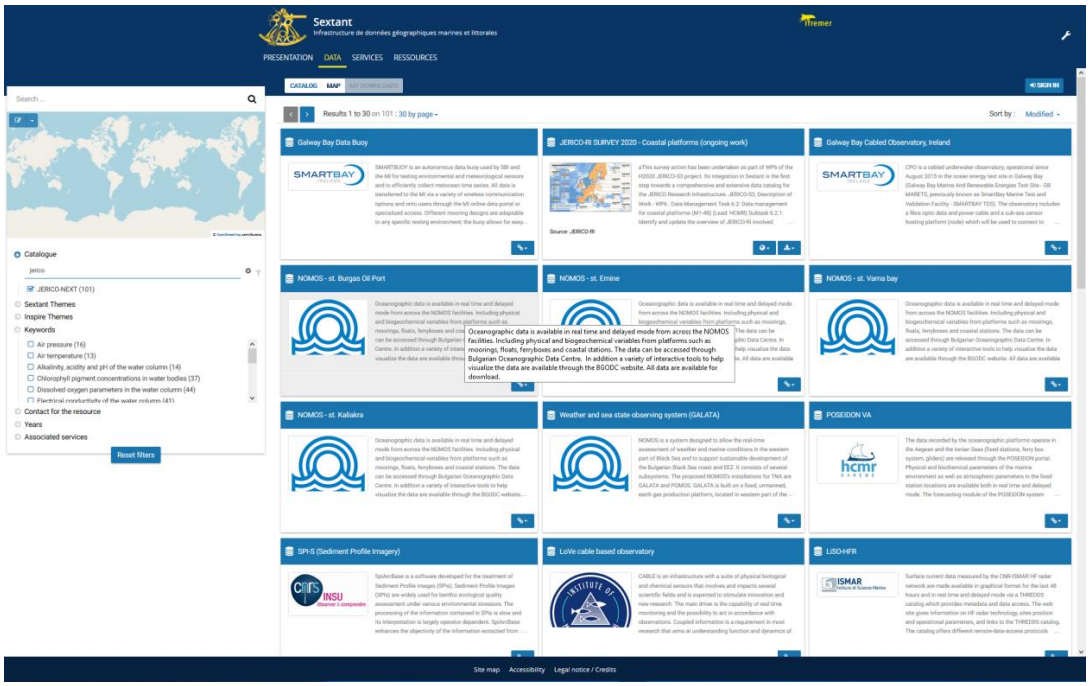

Figure 1: Overview of the platform catalogue, focussed on the S3 platforms

The catalogue with map is available at,
https://sextant.ifremer.fr/eng/Data/Catalogue#/map?owscontext=https://www.ifremer.fr/sextant_doc/jerico/contexte/jerico.xml
now functions as a first overview of the full RI capacity potential that will be expanded further during the project i,e, it's a map with a living catalogue where platforms are likely to be added throughout the project duration due to work in both the JERICO-Design study as well as JERICO-S3.

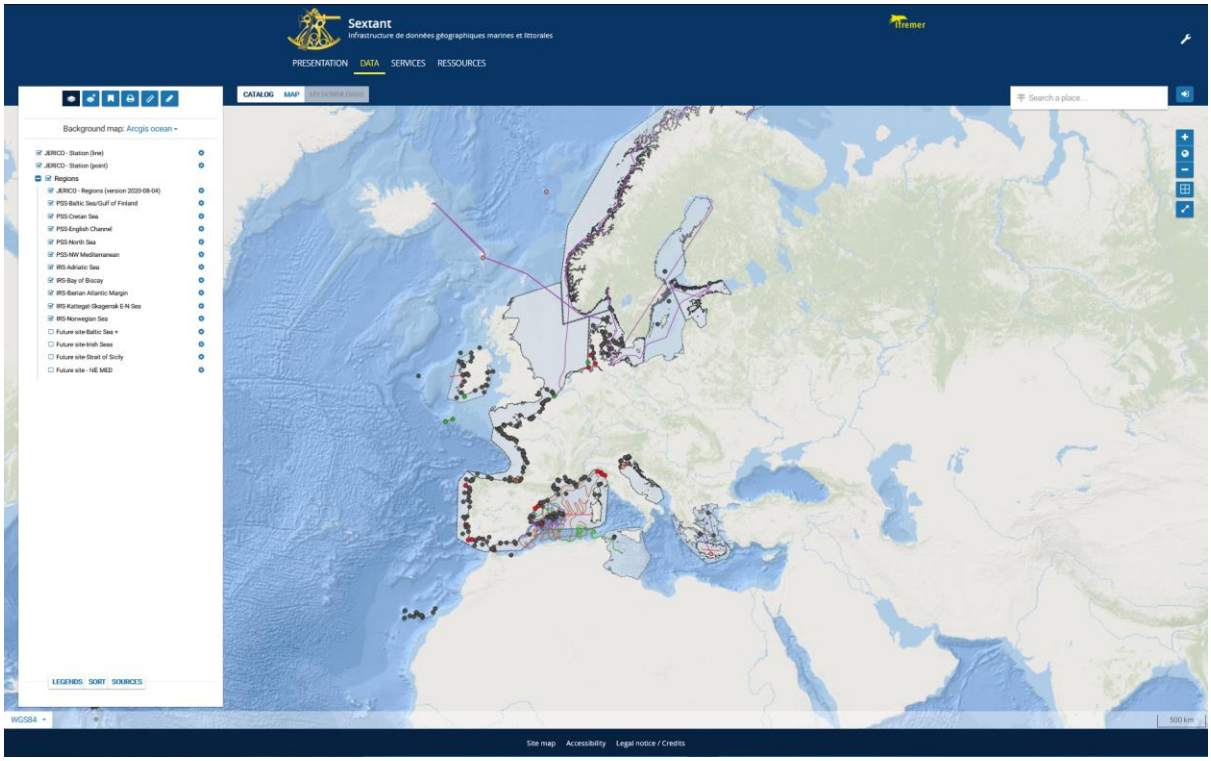

Figure 2: Overview of the catalogue content map, including RI's potential platforms

Due to missing metadata it is not possible to move platform data from the RI collection to the S3 catalogue to complete the overview. This is a goal for further actions later in the project.

2. INTRODUCTION

JERICO-S3 brings together institutions involved in coastal observation networks from all over Europe, preparing for a later JERICO Pan-European Research Infrastructure. The partners span over a large geographical area and have dedicated a number of platforms to research/innovation activities in this project, and allow access to data from even more coastal platforms. This concerns platforms involved in monitoring and data acquisition harmonisation activities, trans-national access, as well as virtual access and in the IRS and PSS activities focused on regional data products and studies.
For supporting the visibility of the project and its platforms, and in order to increase potential impact and extent of the project, a catalogue is required which describes for each JERICO-S3 platform their associated metadata (who monitors, what, how, why, where). This catalogue can be used by researchers as a starting point for free of charge data provided by the JERICO consortium.

Secondly, there is also the outlook towards the JERICO-RI. If partners at this stage want to, they can already describe their country's coastal monitoring potential. For this case a simpler catalogue with a map interface has been set up to visualise that as well. As mentioned, the aggregated catalogue mentioned above existed already from the JERICO-NEXT project, but this required a substantial update and a process to keep it up to date in order to include the RI's potential platform, which was useful in the JERICO ESFRI application to get an indication of the coastal monitoring capacity in each partner country. Time was short for this action. Some swift steps were needed.

This document describes both the catalogue as well as the process to collect the information for the JERICO-RI map.

3. The JERICO platform overviews

3.1 Map of the JERICO-RI platform potential

3.1.1 The content collection process

To collect the information for the JERICO-RI platform potential a Google Spreadsheet questionnaire was created where all partners were requested to add their platform overview, either for just S3 or for the later RI.

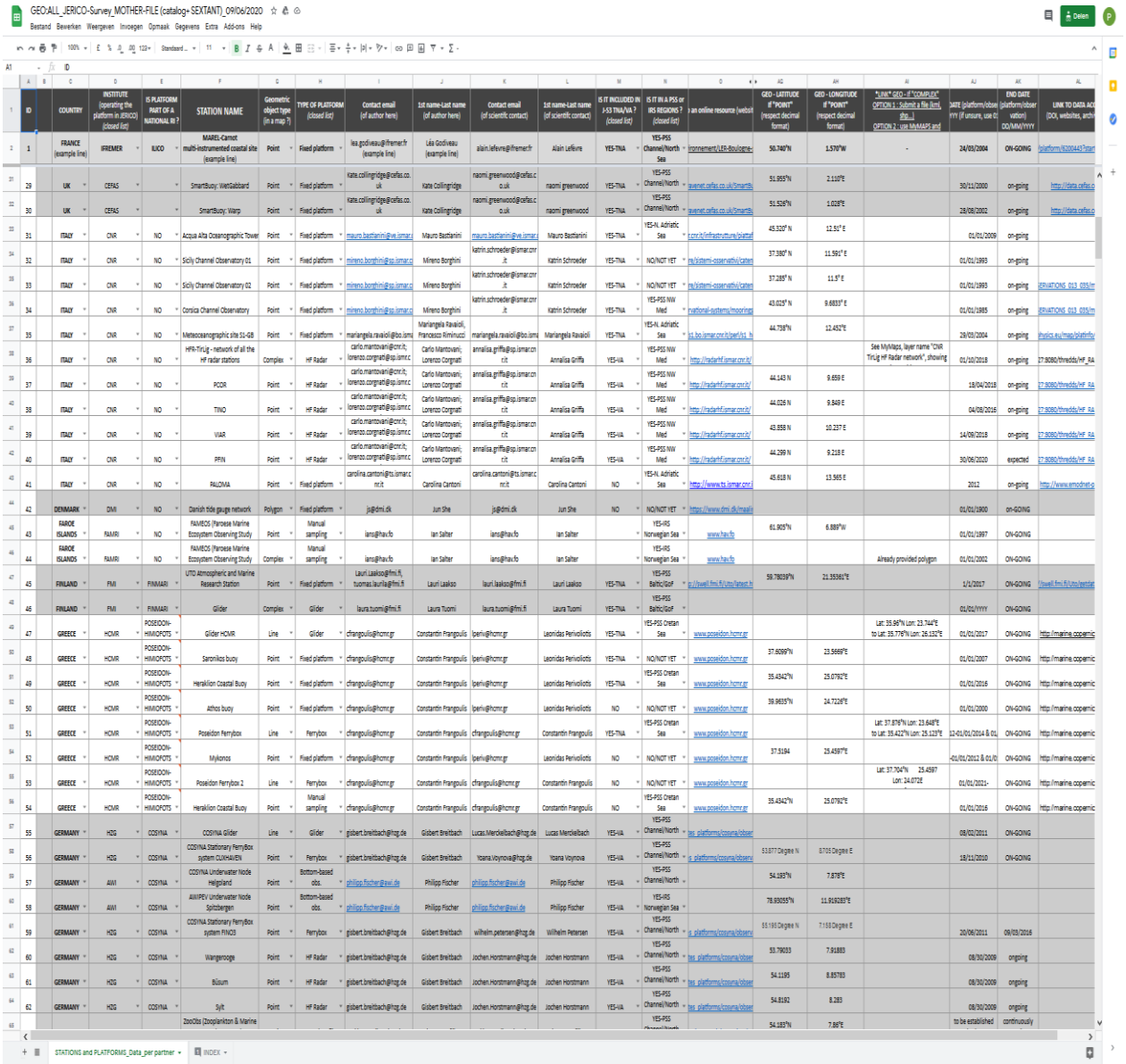

Figure 3: Screenshot of the Google Spreadsheet "mother file" used to collect the metadata

Using this information a catalogue has been created in Sextant (provided by IFREMER) with the aim of creating a map of the RI potential. This is now providing a first impression of the platforms relevant for JERICO-RI, while for some countries it only includes the platforms as directly involved in the JERICO-S3 work.

3.1.2 Map interface

The catalogue with map is available at, https://sextant.ifremer.fr/eng/Data/Catalogue#/map?owscontext=https://www.ifremer.fr/sextant_doc/jerico/contexte/jerico.xml, now functions as a start of the full RI capacity that will be expanded further during the project.

The following screenshots illustrate the functionalities and content.

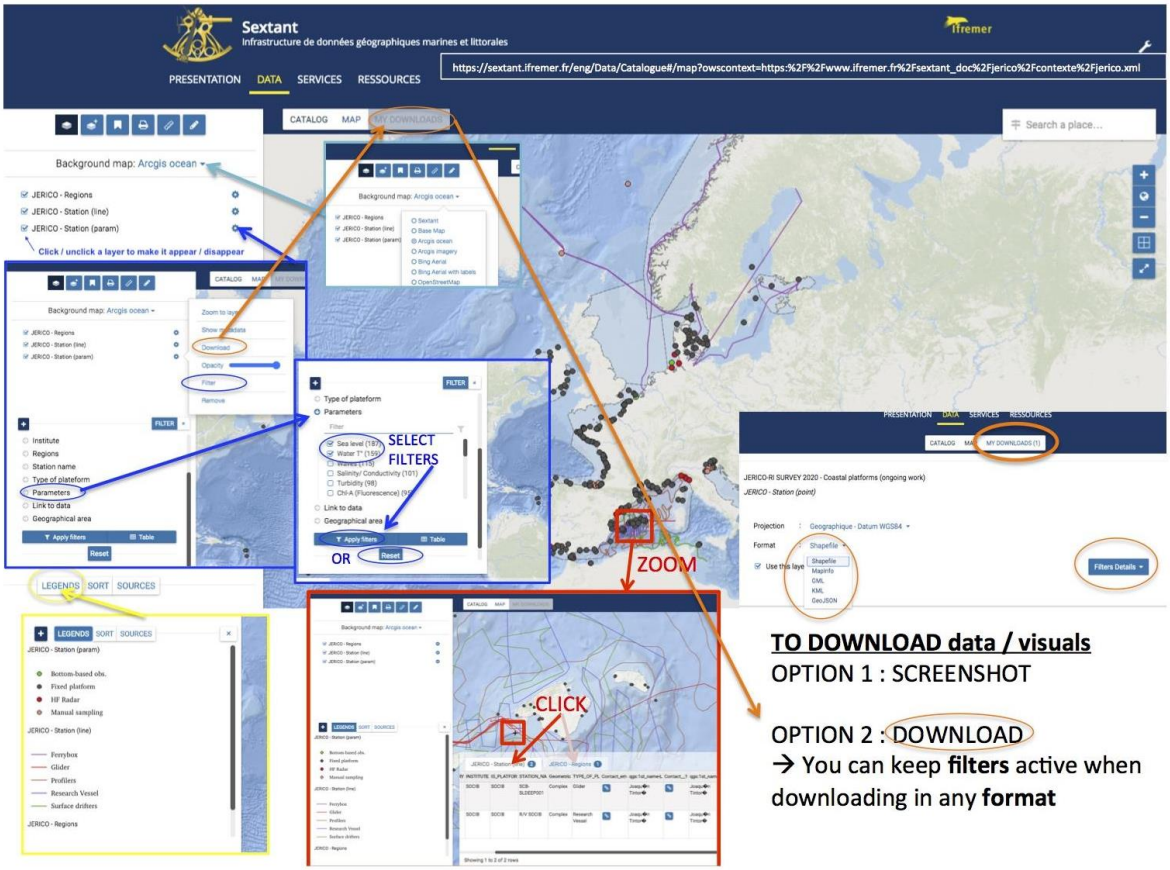

Figure 4: Overview of the catalogue content map display with short instructions how to use

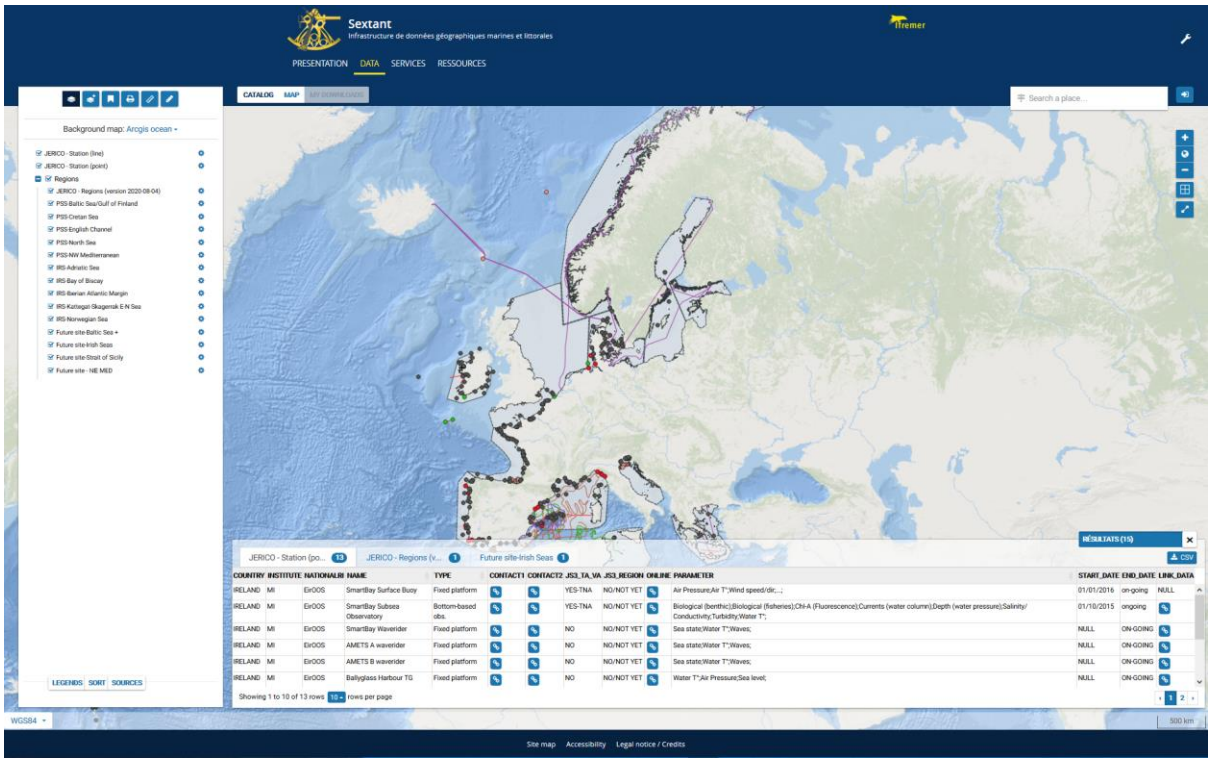

Figure 5: Map selection with preview of platform metadata, including links to data and contacts

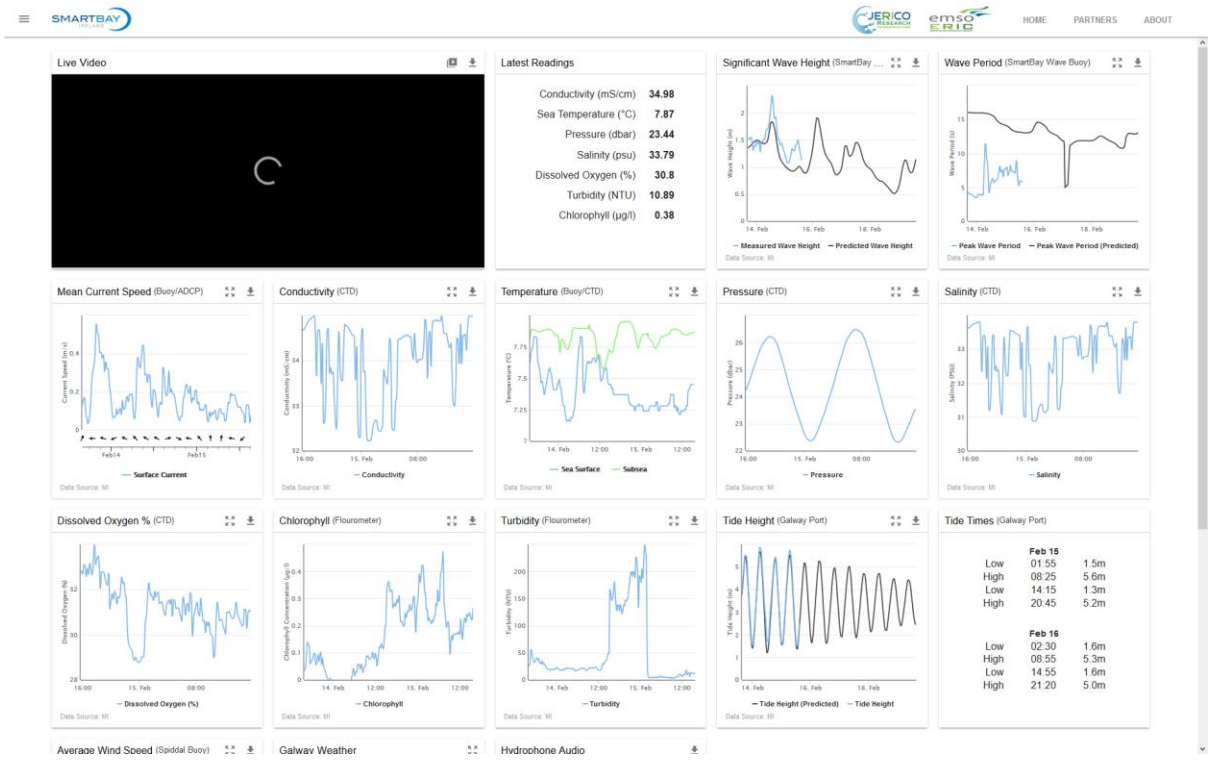

Figure 6: Access to (in this case) Irish Smartbuoy dashboard directly from Map selection

Figure 7: Access to (in this case) Irish Smartbuoy ERDDAP for data access

3.2 The JERICO-NEXT/S3 platform catalogue

As mentioned earlier, the aggregated catalogue with project involved platforms existed already from the JERICO-NEXT project. This catalogue based on ISO19115 metadata has potentially more in depth information on the platforms than the map based overview. In order to describe the JERICO-S3 project platform this would require an update round by each partner using the CMS provided by Sextant. The next screenshots provide an overview of the current content and functions.

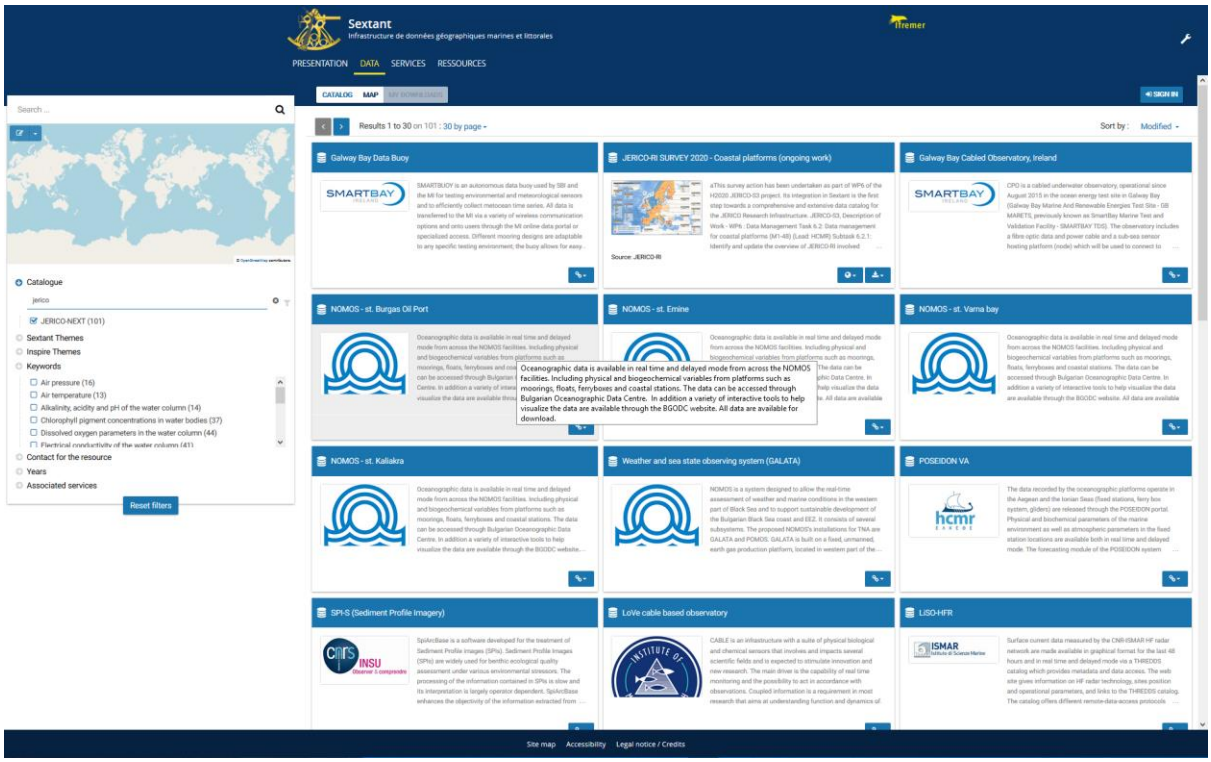

Figure 8: Platform catalogue view, allowing to search and browse on metadata

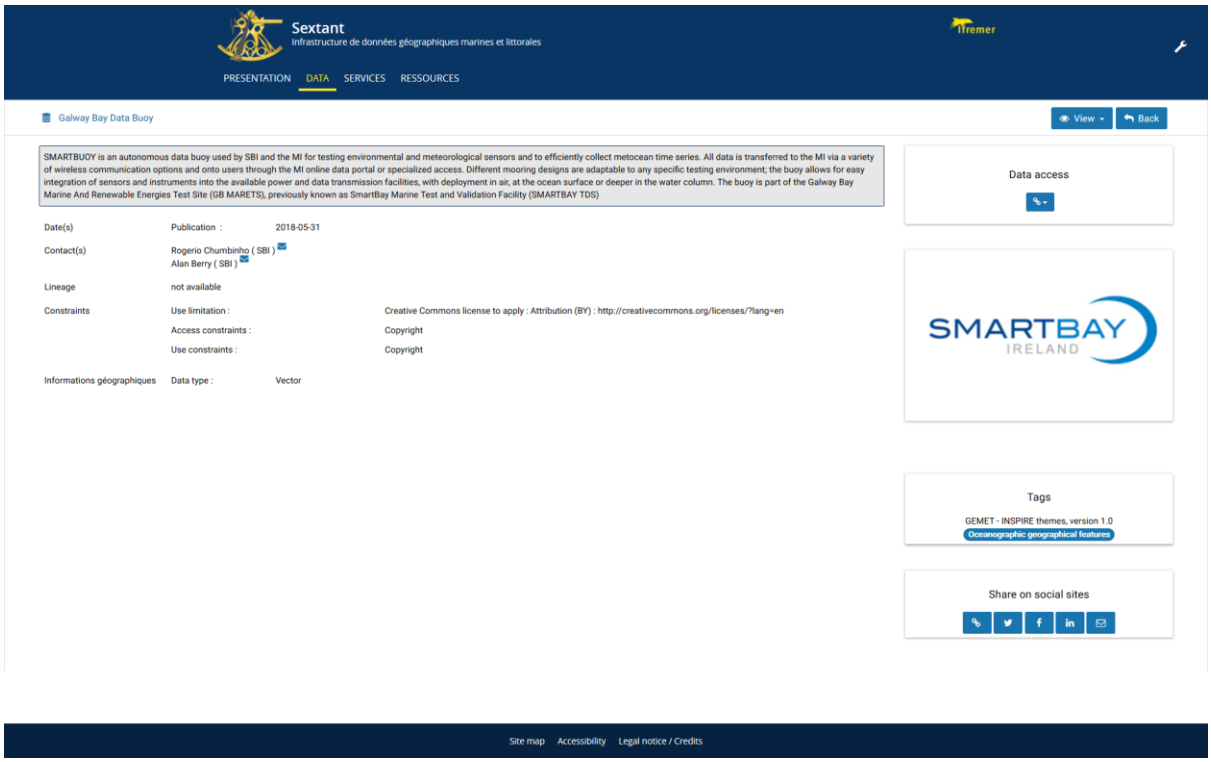

Figure 9: Request of details from Sextant platform catalogue

4. OUTREACH, DISSEMINATION AND COMMUNICATION ACTIVITIES

The catalogue will be published on the JERICO website, and will be used in JERICO-S3 as well as in JERICO-DS work which will support publicity for it. No other specific dissemination and communication efforts are planned.

5. CONCLUSIONS AND NEXT STEPS

Having two separate catalogues is confusing for users inside and outside the project, but each has their specific origin and goals. The aim in next months of the project is to merge the two functions together and leave only one catalogue (the map-based version) in which it is made clear which platforms are **part of the project**, and which are **part of the potential RI**.

The following actions and improvements are foreseen in the next months and years:

Before September 2021: Review content in the map catalogue.

- A list of issues has been collected by IFREMER, these will be shared to the resp. Partners.
- There may be other flaws in the data occurred during import.
- Indicate the changes review data in the spreadsheet. IFREMER will provide links and instructions.
- **Specific action: Indicate if a platform is part of JERICO-S3 and/or the planned larger RI.** This is an important step towards the user, since they might be confused by the current content and by the fact that some countries have "only" provided the platforms from the institute relevant to JERICO-S3, while other countries have provided a larger overview of their coastal monitoring network in their country. Once this improvement has been created, the interface will show a "flag" to switch "show JERICO-RI overview" on and off.

Nov 2021: The JERICO platform catalogue with map is now filled correctly and can display both the S3 platform as well as the RI potential. Ready to be released under the JERICO website. It will replace the current JERICO-NEXT version.

Mid 2022 and end of 2022: Make a review 2x per year, with requests to partners to finish and improve the information.