



Deliverable D 3.6 Open Research Data Pilot

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Document history		
<i>Revision</i>	<i>Date</i>	<i>Description</i>
1	3. July 2019	First issue
2	10. July 2019	Changes after review from GDG (Paul)
3	11. January 2020	Addressed the PO comments: <ul style="list-style-type: none"> - Added information on funding and disclaimer - provided website on page 8
4	17.01.2020	Added disclaimer on the JU's non-responsibility

Report contributors		
Name	Beneficiary Short Name	Details of contribution
Damian Harasymczuk	CT	First issue
Timo Hartmann	CT	Second issue after review



Table of Contents

Table of Contents.....	3
1. Executive Summary	4
2. Abbreviations and acronyms	5
3. Background	6
4. Objective/Aim	7
5. Open Research Data Pilot	8
6. Conclusions	10



1. Executive Summary

Data used in the GoSafe project come from different sources and are often available in public. Data used to develop specific modules and prepare use cases are useful not only within this specific project but also for future work.

Many open data sources have been collected and stored on separate servers by project partners. The goal of the Open Research Data Pilot is to gather these sources, reference and describe them, and collect them in one place that is available for the public and can be accessed by anyone who is interested in the project data.



2. Abbreviations and acronyms

Abbreviation / Acronyms	Description
CMS	Content Management System



3. Background

The present document constitutes the Deliverable D3.6 “Open research data pilot” in the framework of the TD 3.6, task 3.6.2 IT architecture and 3.6.4 Open standard interfaces, and CCA Work Area 3 Safety, Standardisation, Smart Maintenance, Smart Materials & Virtual certification, Sub WA 3.1 Safety, Subtask WA3.3.3 Data selection and formatting (*Shift2Rail Joint Undertaking, Multi-Annual Action Plan, Brussels, November 2015*).



4. Objective/Aim

This document has been prepared to provide a description of the GoSafe Open Research Data Pilot website. The website presents the final deliverable for task D 3.6. This report aims at briefly introducing the website and guide interested users to it.

5. Open Research Data Pilot

The Open Research Data Pilot is delivered in the form of a website and is available online at:

<http://gosafe-pilot.herokuapp.com/>

The public part of Data Pilot is available for all users without any authorization. It's a repository containing a list of data used in the GoSafe project. On the landing page all the resources are listed. Users can select any of these resources and see it's details including description and links to the source.

Figure 1. illustrates the landing page:

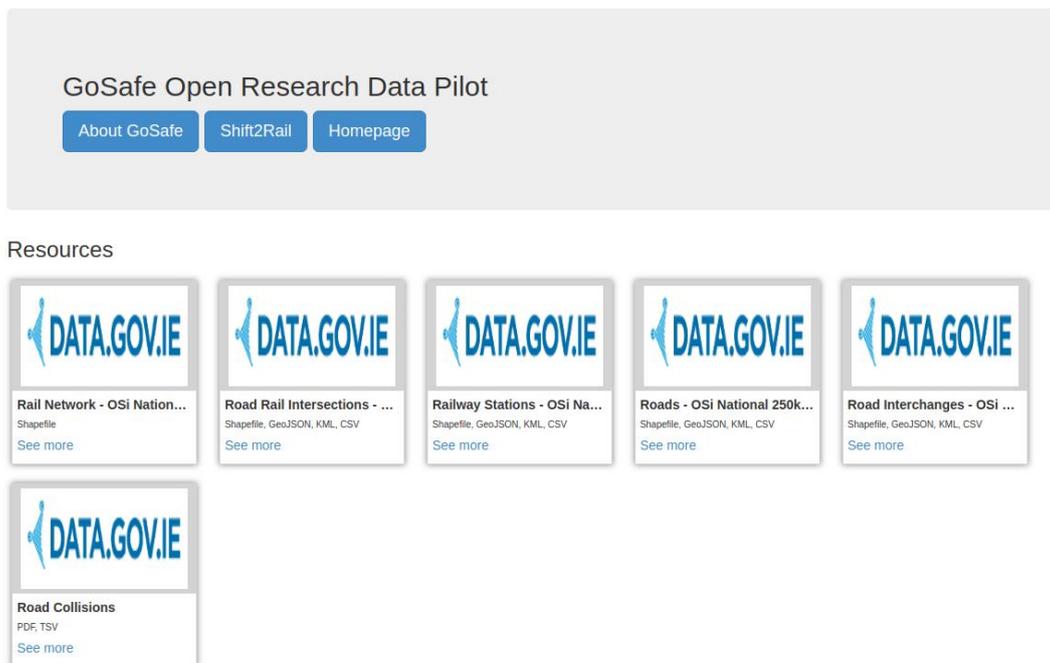


Figure 1: Open Research Data Pilot landing page

Every tile in the “Resources” section represents a single resource which can be a spatial layer, table, spreadsheet, document etc.

Figure 2. illustrate an example resource added by GoSafe contributors:

Rail Network - OSi National 250k Map of Ireland



Railway routes used for regular transportation of goods and passengers. Railway yards, siding railways are allowed if they are landmarks and are classified as branch lines. They are usually generalized (not all the tracks have to be portrayed). Specific lines reaching harbour or industrial zone can be portrayed and are also classified as branch lines. The length selection is min. 1600 meters. Metro lines (= underground urban railways), tramlines or streetcar lines inside city areas are excluded. Railways are portrayed by one line regardless the number of tracks.

File type: Shapefile

Link: <https://data.gov.ie/dataset/rail-network-osi-national-250k-map-of-ireland>

Figure 2: An example resource: Shapefile containing a map of Ireland

Every resource is described by specific metadata: name, image, description, file type and link. With this metadata the repository allows for specific searching, filtering, and sorting of the data sources. The link always points to the external address of the original data source. With this architecture the Data Pilot doesn't store any resources used in the GoSafe project.

Adding, editing, and deleting resources is available in a non-public Content Management System (CMS). The CMS allows it for lay persons that are not familiar with web programming to add additional data resources with their meta-data. It is also possible to edit or delete already posted resources. To manage resources user needs to sign in with valid credentials that are currently only available to researchers participating in the GoSafe project.



6. Conclusions

The Open Research Data Pilot was designed to share multiple data sources used in the GoSafe project. Available data must be public and hosted on the external storage or website. Currently the data stored is strictly related to the GoSafe project. In the future, the Open Data repository website can be extended with additional data sources and could potentially grow to a central place for railway asset managers to find and store data.