

GIS-Based Infrastructure Management System for Optimized Response to Extreme Events of Terrestrial Transport Networks



SAFEWAY Website (10.12)

December 2018 (V1.0) April 2019 (V1.2)

PUBLIC



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SAFEWAY

GIS-BASED INFRASTRUCTURE MANAGEMENT SYSTEM FOR OPTIMIZED RESPONSE TO EXTREME EVENTS OF TERRESTRIAL TRANSPORT NETWORKS

Grant Agreement No. 769255

SAFEWAY Website

WP 10 Exploitation, Dissemination and Communication

Deliverable ID	D10.12
Deliverable name	SAFEWAY Website
Lead partner	DEMO
Contributors	UVIGO

PUBLIC

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SAFEWAY Project Synopsis



According to European TEN-T guidelines, due consideration must be given to the risk assessments and adaptation measures during infrastructure planning, in order to improve resilience to disasters. SAFEWAY's aim is to design, validate and implement holistic methods, strategies, tools and technical interventions to significantly increase the resilience of inland transport infrastructure. SAFEWAY leads to significantly improved resilience of transport infrastructures, developing a holistic toolset with transversal application to anticipate and mitigate the effects extreme events at all modes of disaster cycle:

- 1. "**Preparation**": substantial improvement of risk prediction, monitoring and decision tools contributing to anticipate, prevent and prepare critical assets for the damage impacts;
- "Response and Recovery": the incorporation of SAFEWAY IT solutions into emergency plans, and real-time optimal communication with operators and end users (via crowdsourcing and social media);
- 3. **"Mitigation":** improving precision in the adoption of mitigation actions (by impact analysis of different scenarios) together with new construction systems and materials, contributing to the resistance & absorption of the damage impact.

SAFEWAY consortium has 15 partners that cover multidisciplinary and multi-sectorial business fields associated with resilience of transport infrastructure in Europe: national transport infrastructure managers & operators, a main global infrastructure operator, partners able to provide various data sources with large coverage in real time, comprehensive ITC solutions, and leading experts in resilience, risk databases, remote sensing-based inspection, and decision systems based on predictive modelling.

SAFEWAY will carry-out 4 real case studies distributed through 4 countries, linked to 5 corridors of the TEN-T Core Network. SAFEWAY has as main expected impacts:

- 1. at least 20% improvement in mobility; and
- 2. at least 20% lower cost of infrastructure maintenance.

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Ver.	Name	Position in project	Beneficiary	Date	Visa
1.0	Dr. Belén Riveiro	Project Coordinator	UVIGO	29/01/2019	BR
1.2	Dr. Belén Riveiro	Project Coordinator	UVIGO	23/04/2019	BR





Executive Summary

The Deliverable D10.12 report, "SAFEWAY Website", describes the project website created for external and internal communication purposes. This deliverable tackles the motivation laying behind the concept of the website, its structure and main aspects. This document goes describes the content and structure of both the public and private websites of the project, together with links to social media platform (e.g., Twitter).





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1. Introduction

Within SAFEWAY project, WP10 - EXPLOITATION, DISSEMINATION AND COMMUNICATION. The main objective of WP10, as described in the Grant Agreement, This WP will develop appropriate strategies for IP management, dissemination and communication and exploitation of project results. In addition, standardization issues will be tackled. Moreover, knowledge transfers among the partners and beyond is also envisaged.

Deliverable D10.12 "SAFEWAY Website" describes the key points of design, execution, content, usage, and a to showcase the project evolution, social media updates, results and further developments of the project.

The website constitutes a key communication tool to increase project visibility and impact towards industrial communities, researchers and general public. It is also a key tool for sharing information between all SAFEWAY partners.





2. Public Website

The public website will act as a communication and dissemination channel for the project's results and for involving and enlarging the stakeholders' community. In addition, it will serve as the main interface towards organisations and people outside of the SAFEWAY project consortium who are interested in the work and achievements of the project.

The public SAFEWAY website has been formally launched before the kick-off meeting at the beginning of the project (September 2018). The URL address is <u>https://www.safeway-project.eu</u>. The content will be updated and extended regularly for the whole duration of the project.

Parts of the public website and the available publications/downloads, as well as the information regarding the project made available via the company websites of the consortium partners and will be used for local dissemination (in English and/or in the national languages).

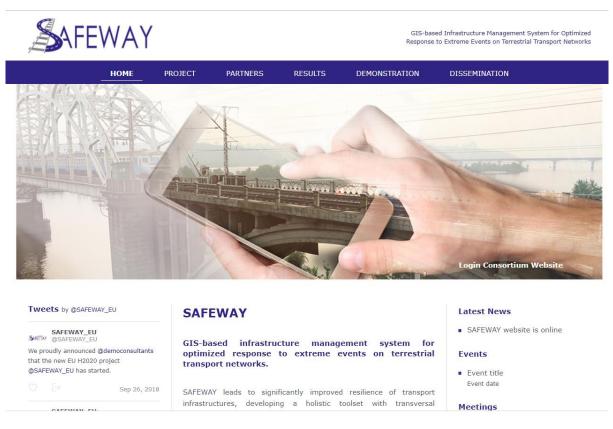


Figure 1: Home page





2.1 Website structure

The website has a main navigation menu below the website header. It is structured as follows:

- HOME (Figure 1)
- PROJECT (Figure 2)
 - \circ Rationale
 - o Main Aim
 - o Benefits
 - Technical Objectives
 - Work Program
- PARTNERS (Figure 3)
 - University of Vigo
 - Norwegian Geotechnical Institute
 - University of Cambridge
 - Insitu Engineering
 - o DEMO Consultants
 - University of Minho
 - o Planetek Italia
 - o Infrastructure Management Consultants
 - Ferrovial Agroman
 - Infraestruturas de Portugal
 - Network Rail
 - o BeTR
 - o Innovactory
 - o TØI
 - Texas A&M Transportation Institute
- RESULTS (Figure 4)
- DEMONSTRATION (Figure 5)
 - Case 1: Portugal
 - Case 2: Spain
 - Case 3: United Kingdom
 - Case 4: The Netherlands
- DISSEMINATION (Figure 6)
 - o Publications
 - o Presentations
 - \circ Trainings
 - Movies
 - o Other





SAFEWAY GIS-based Infrastructure Management System for Optimized esponse to Extreme Events on Terrestrial Transport Networks номе PROJECT PARTNERS RESULTS DEMONSTRATION DISSEMINATION Project Rationale Rationale The modern society is increasingly dependent on transportation networks for its daily activities. The ability of the Main Aim transport system to function during adverse conditions and quickly recover to acceptable levels of service after an extreme event is fundamental to the wellbeing of people within society. The current increased focus on resilience Benefits is driven by a raised awareness of extreme events due to natural hazards such as, heat and cold waves, river and Technical Objectives coastal floods, droughts, wildfires or windstorms, where climate change also affects the severity and frequency of Work Program these events: and man-made events such as accidents, man-made fires and terrorism. These comprise most

extreme situations, both natural as well as man-made, which cannot be anticipated solely based on conventional risk forecasting methods. Sudden events' response implies annual expenditures in the EU+ critical infrastructures of €0.8 billion and are expected to increase up to €12 billion by the end of this century[1]. Similar rates could be considered according to EU cohesion policy funds; studies indicate that annual damages to EU regional infrastructures will rise from €146 million /year to €556 million/year by 20201. The World Economic Forum strongly recommends investment in predictive (or condition-based) and Risk-based (or reliability-centered) maintenance[2] as a strategy to optimize infrastructures condition. In terms of human lives, a recent study published by the Directorate for Sustainable Resources of the EC JRC estimates that 152,000 deaths a year could be caused by weather-related disasters in the last quarter of the 21st century if there is not improvement in the policies that contribute to reduce the impact of extreme weather events/31.

[1] Forzieri, G., Bianchi, A., Marin Herrera, M.A., Batista e Silva, F., Feyen, L. and Lavalle, C., 2015. Resilience of large investments and critical infrastructures in Europe to climate change.EUR 27598 EN. Luxembourg (Luxembourg): Publications Office of the European Union.

Figure 2: Project page



GIS-based Infrastructure Management System for Optimiz Response to Extreme Events on Terrestrial Transport Networ

Partners

University of Vigo

- Norwegian Geotechnical Institute
- The University of Cambridge
- Insitu Engineering
- DEMO Consultants
- University of Minho
- Planetek Italia
- Infrastructure Management Consultants
- Ferrovial Agroman
- Infraestruturas de Portugal
- Network Rail
- BeTR
- Innovactory
- TØT
- Texas A&M Transportation Institute

UNIVERSIDADE DE VIGO



DESCRIPTION OF THE LEGAL ENTITY AND ITS MAIN TASKS

The University of Vigo is a public University located in Galicia (Northwest of Spain). UVIGO has placed a considerable emphasis on R&D activities by way of numerous internal funded projects, as well as through its various services and research centres. This support has enormously increased the scientific output and the capacity to obtain external resources. In the last three years more than 950 projects confirm the cooperation of the University with the enterprises and economic associations of the region (Galicia) and the nation (Spain). In the same way, more than 25 national and European patents have been applied by UVIGO in the last years. Moreover, UVIGO participates every year in the Framework Programme and other initiatives of the EU; more than 50 European Projects has been developed since the year 2007 (some of them coordinated by UVIGO), with a return of more than 25 million of euros (including more than 15 projects from H2020).

Researchers from the University of Vigo have built recognised and supported activities, and are well-known by colleagues through their participation in numerous national and international programmes, stays at prestigious European and American Universities, and visits of famous researchers from the international scientific community.

Three research groups of the University are participating in SAFEWAY: Applied Geotechnologies-GEOTECH, Corrosion Engineering and Materials-ENCOMAT, Energetic Technology Group-GTE. These three groups integrate 31 professors and 38 researchers. The three groups are internationally recognized in their respective fields of research and have been awarded by the national governments due to the impact of their R&D&i activities. In the last 3 years these groups have participated in 6 International projects and 15 national with an average annual income of 983kEUR.

CV OF THE PERSONS

Dr. Belén Riveiro Rodríguez (Female) is an Associate Professor at the Department of Materials Engineering, Applied Mechanics and Construction at the University of Vigo. She

Figure 3: Partners page





S AFEW	۲A	(sed Infrastructure Management System for Optimized to Extreme Events on Terrestrial Transport Networks
но	ME	PROJECT	PARTNERS	DEMONSTRATION	DISSEMINATION
		Res	ults		

Results

In this section the final public results (deliverable reports) of the SAFEWAY project will be published.

Figure 4: Results page

RESULTS



HOME

GIS-based Infrastructure Management System for Optimized Response to Extreme Events on Terrestrial Transport Networks

DISSEMINATION

Case 1

- Case 2
- Case 3
- Case 4

DEMONSTRATION

PARTNERS

Pilots

PROJECT

SAFEWAY innovation will be validated in 4 near-real life scenarios in order to test and validate effectiveness and transferability. SAFEWAY proposes four case studies along five corridors of the European core network (TEN-T) . These case studies cover major potential hazards (floods, drought, fire, earthquakes and landslides) and consider the human provoked disasters (fires, accidents, and terrorism impact). They represent a huge amount of critical infrastructures: more than 75,400 km of rail networks and 5 roads, and singular points such as: 1,270 bridges, 24 tunnels, and 129 railway stations and multi-modal platforms, which are the most vulnerable elements.

DEMONSTRATION

SAFEWAY Case Studies on TEN-T CORE NETWORK CORRIDORS

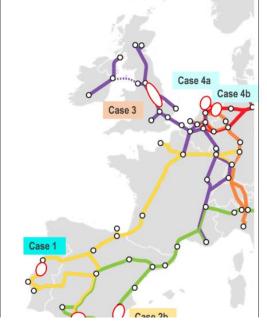


Figure 5: Demonstration page





<u>ج</u> را	EWA	Y				ased Infrastructure Management System for O se to Extreme Events on Terrestrial Transport N	
	HOME	PROJECT	PARTNERS	RESULTS	DEMONSTRATION	DISSEMINATION	
		Dis	seminatio	ı			
		In this	sections all dissen	nination activitities	regarding SAFEWAY will b	pe published.	
		 Pub 	lications				
		Pres	sentations				
		 Trai 	nings				
		 Mov 	/ies				

Figure 6: Dissemination page

2.2 EU funding acknowledgement

Other

The emblems and acknowledgment of EU funding of the project is visible in the footer of every page on the public website. (**iError! No se encuentra el origen d e la referencia.**)



Figure 7: EU funding acknowledgement

2.3 Content

Content management of the public website will be done by DEMO Consultants with support from all consortium partners. All the partners are responsible for providing content for the public website relevant to their contributions and activities within the project.

The role and task distribution concerning the public website are described in the Description of Action of the SAFEWAY project.

In short, the content management will be done by DEMO Consultants, who is responsible for the implications of external communications from the project.

In addition, DMO ensures the website hosting and technical support. When documents need to be uploaded on the public website, DMO will upload them first on the DMO-server due to security reasons and make them available for download from the SAFEWAY website through links.

DEMO Consultants will keep the public website online until 2 years after the project's completion. Depending on the exploitation plan that will be developed in the course of the project, this post-project website may be transferred into a commercial website for offering and selling of the project results.





2.3.1 Initial update schedule

- M1 (September 2018): Launch of website
- M4 (December 2018): First update
- M7-39: The SAFEWAY website will be updated every 3 months within the project duration. In 2018 2021: the updates will take place every year in March, June, September and December.
- M42 (March 2022): Final update and transfer to post-project (commercial) website

2.3.2 Content Management System (CMS)

CMS is a computer application that supports the creation and modification of digital content using a common user interface and thus supporting multiple users. DEMO as webmaster owns the login credentials to work with this CMS. DEMO uses a free cross-browser WYSIWYG (What you See Is What You Get) editor.

2.4 Links to Social Media

Social Media are enriching existing professional networks and knowledge exchange platforms and ensure a wide reach of targeted audiences defined within SAFEWAY.

The following social media groups have been activated for SAFEWAY. Emblems are located in the footer, on the bottom right on every page.

2.4.1 Twitter

Twitter is an online news and social networking service and was ranked as one of the most visited websites worldwide. The SAFEWAY_EU account has been created on Twitter at the beginning of the project. A twitter feed is visible in the left-hand column on the home page (Figure 1).

Link: https://twitter.com/SAFEWAY_EU (Figure 8)

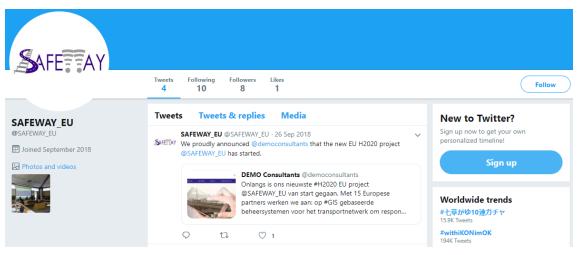


Figure 8: SAFEWAY Twitter

The social media accounts and updates are managed by DEMO Consultants in harmonization with the updates published on the public website.





2.5 Security and Privacy

For safe exchange of data all connections to the website are made using the Hypertext Transfer Protocol Secure (HTTPS). Personal information is only collected after informed consent, safeguarded and fully compliant with the General Data Protection Regulation (GDPR).





3. Private Consortium Website

Next to the public website, an internal project website (SharePoint) has been setup for information sharing among consortium partners. (Figure 9) Access to the SharePoint project website is possible both through the web-enabled portal as well as mobile devices (iPad App).

The internal project website of SAFEWAY was formally launched at the same time with the public website at the beginning of the project. The address is: <u>https://www.safeway-project.org</u>. The contents will be continuously updated and extended during the project. This is a restricted website which can be accessed only by the consortium partners and EC officials with login credentials.

SharePoint BROWSE PAGE		1		
SAFEWAY	safeWay Project Project SafeWay Project			
Home Documents Glossary Tasks	Documents ⊕ new document or drag files here Current View … Find a file P			
Calendar	✓ C Name		Modified	Modified By
Groups	00 Templates, manuals, website content and promotion materials		June 25, 2018	🗆 Paula Etman
🖍 EDIT LINKS	01 Legal and financial documents		June 25, 2018	🗆 Paula Etman
	02 Deliverables and periodic reports		June 25, 2018	🗆 Paula Etman
	03 Meetings		June 25, 2018	🗆 Paula Etman
	04 Literature and reference documents		June 25, 2018	🗆 Paula Etman
	05 WP1 Overall project coordination		June 25, 2018	🗆 Paula Etman
	06 WP2 Risk factors and risk analysis		June 25, 2018	🗆 Paula Etman
	07 WP3 Multi scale infrastructure modelling and monitoring		June 25, 2018	🗆 Paula Etman
	08 WP4 Innovative crowdsourcing concepts		June 25, 2018	🗆 Paula Etman
	09 WP5 Predictive models		June 25, 2018	🗆 Paula Etman
	10 WP6 Decision support system		June 25, 2018	🗆 Paula Etman
	11 WP7 SAFEWAY IT platform prototype		June 25, 2018	🗆 Paula Etman
	12 WP8 Action plan for long term resilience		June 25, 2018	🗆 Paula Etman
	13 WP9 Demonstrative pilots		June 25, 2018	🗆 Paula Etman
	14 WP10 Exploitation, dissemination and communication		June 25, 2018	🗆 Paula Etman
	15 WP11 Ethics requirements		June 25, 2018	🗆 Paula Etman
	Newsfeed			
	Start a conversation			
	Nikola Tanasic	no filos	related to	

I have just added three files related to the COST TU1406 action (KPIs) and three files related to Vulnerability of road networks and bridges to natural hazards (two are specifically related to local scour). These are in 04 Literature and references folder

Figure 9: Private Consortium Documents and Newsfeed





3.1 Website structure

The private consortium website is organized as follows:

• Home (Figure 9)

0

0

- Documents (Figure 9)
 - 00 Templates, manuals, website content and promotion materials
 - 01 Presentation and report templates
 - 02 Content materials for public website
 - 03 Leaflets, posters and newsletters
 - 04 Manuals for SharePoint
 - 01 Legal and financial documents
 - 01 Grant Agreement
 - 02 Consortium Agreement
 - 03 Financial information
 - 04 Formal guidelines from European Commission
 - 02 Deliverables and periodic reports
 - 00 Draft deliverables
 - 01 Submitted deliverables
 - 00 Deliverables submitted to the Commission
 - 01 Internal Deliverables
 - 02 Draft periodic reports
 - 03 Submitted periodic reports
 - 03 Meetings
 - 01 Consortium meetings
 - 02 Project Technical Committee meetings
 - 03 Coordination Team meetings
 - 04 Advisory Board meetings
 - 05 WP meetings
 - 00 WP2 meetings
 - 01 WP3 meetings
 - 02 WP4 meetings
 - 03 WP5 meetings
 - 04 WP6 meetings
 - 05 WP7 meetings
 - 06 WP8 meetings
 - 07 WP9 meetings
 - 08 WP10 meetings
 - 04 Literature and reference documents
 - 01 Literature
 - 02 Other references
 - 05 WP1 Overall project coordination
 - 01 Working documents
 - 02 Presentations
 - 03 Draft deliverables
 - 06 WP2 Risk factors and risk analysis
 - 01 Working documents
 - 02 Presentations
 - 03 Draft deliverables





- o 07 WP3 Multi scale infrastructure modelling and monitoring
 - 01 Working documents
 - 02 Presentations
 - 03 Draft deliverables
- 08 WP4 Innovative crowdsourcing concepts
 - 01 Working documents
 - 02 Presentations
 - 03 Draft deliverables
- 09 WP5 Predictive models
 - 01 Working documents
 - 02 Presentations
 - 03 Draft deliverables
- 10 WP6 Decision support system
 - 01 Working documents
 - 02 Presentations
 - 03 Draft deliverables
- 11 WP7 SAFEWAY IT platform prototype
 - 01 Working documents
 - 02 Presentations
 - 03 Draft deliverables
- o 12 WP8 Action plan for long term resilience
 - 01 Working documents
 - 02 Presentations
 - 03 Draft deliverables
- 13 WP9 Demonstrative pilots
 - 01 Working documents
 - 02 Presentations
 - 03 Draft deliverables
 - 14 WP10 Exploitation, dissemination and communication
 - 01 Working documents
 - 02 Presentations
 - 03 Draft deliverables
- 15 WP11 Ethics requirements
 - 01 Working documents
 - 02 Presentations
 - 03 Draft deliverables
- Glossary (Figure 10)
- Tasks (Figure 11)
- Calendar (Figure 12)
- Groups

0





SharePoint			Newsfeed	OneDrive	Sites	Maurijn Neumann -	¢	?
BROWSE ITEMS LIST						🛟 SHARE 🕁 FOI	LLOW	[[]
SAFEWAY	SafeWay Project	EDIT LINKS			Search t	this site	م ب	>
Home	⊕ new item or ed	lit this list						
Documents	All Items ··· Find an	n item	Q					
Glossary								
Tasks	✓ Term	Abbreviation	Description					
Calendar	Building	BIM	BIM is a method for a			n, execution and s of BIM is formed by a	3D	
Groups	Modeling		computer model wh information, such as packag	ich can be	enhance	ed by adding further		
🖍 EDIT LINKS			puckug					

Figure 10: Private consortium Glossary

SharePoint		Newsfeed OneDrive Sites Carlos Per	rez-Collazo 🗸 🤹 🤶
BROWSE TASKS LIST			슈 FOLLOW (미)
SAFEWAY	sateWay Project r DT LENG Tasks	Search this site	^ ۹ ۳
Home	Today		
Documents	2019 2020 2021		2022
Glossary	WP1 Overall Project Coordination 9/1 - 2/28		
Tasks	T1.1 Financial, Legal and Administrative Management 9/1 - 2/28		
Calendar	T1.2 Monitoring and Risk Management of the Project		
Groups	9/1 - 2/28 T1.3 The Strategic Management of the Project		
EDIT LINKS	9/1 - 2/28		
	WP2 Risk Factors and Risk Analysis 9/1 - 2/28		
	T2.1 Identification and mapping of threats and impacts leading to malfunctioning 9/1 - 8/31		
	T2.2 Modelling vulnerability and resilience in risk assessment of transportation networks 1/1 - 2/29		
	WP3 Multiscale Infraestructure Modelling & Monitoring 9/1 - 2/28		
	T3.1 Evaluation of data acquisition platforms for Multiscale Infrastructure Monitoring 9/1 - 8/31		
	T3.2 Spatio-Temporal data fusion: optimization and geometerencing 9/1 - 8/31		
	T3.3 Automation capability of monitoring data analysis 12/1 - 2/28		
	WP4 Innovative Crowdsourcing Concepts 9/1 - 2/28		
	T4.1 Whicle Data Crowdsourcing 9/1 - 9/30		
	T4.2 Human sensing and social media 11/1 - 11/30		
	T4.3 Accounting for user risk tolerance and psychological and behavioural aspects 12/1 - 2/28		
	W05 Predictive Models 1/1 - 2/28		
	15.1 Infrastructure predictive models 1/1 - 0/21		

Figure 11: Private Consortium Tasks





SharePoint				Newsfeed C	DneDrive Sites	Maurijn Ne	
BROWSE EVENTS CALENDAR						🗘 SHAF	RE 🕁 FOLLOW
	SafeWay Project	🖍 EDIT LINKS			Searc	n this site	2 ج
S AFEWAY	Calena	dar					
 4 2018 ► Jan Feb Mar 	🔶 🔶 Decer	mber, 2018					
Apr May Jun	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Jul Aug Sep	25	26	27	28	29	30	1
Oct Nov Dec Today is Wednesday,						Internal re Internal re	
January 16, 2019						Internal re	
Calendars in View	2	3	4	5	6	7	8
Calendar			9:30 am - 12:3				
Home			WP Leaders n	η€			
Documents	9	10	11	12	13	14	15
Glossary							
rasks							
Calendar	16	17	18	19	20	21	22
Groups							
🖍 EDIT LINKS							
	23	24	25	26	27	28	29
	30	31	1	2	3	4	5

Figure 12: Private Consortium Calendar

3.2 Content

The Private Consortium Website is a collaborative platform, specifically called into action for the exchange of information. As such, content management is not centralized but rather distributed. Each registered user can add, modify and delete content in the categories they have access to.

There are no pre-scheduled updates.

User registration is centralized and under the overview of DEMO Consultants.

3.3 Accessibility

There are two ways to access the private consortium website:

- Web-enabled:
 - By logging in with own credentials through the public website <u>https://www.safeway-project.eu</u> under Login Consortium Project Website, or
 - By accessing directly, the SharePoint via <u>https://www.safeway-project.org</u>

A window will open where registered members will log in with their credentials.





- On-The-Go (iPad/iPhone App)
 - The Microsoft Sharepoint app (Figure 13) and SharePlus Office Mobile Client Lite (Figure 14) are examples of easy to use office apps On-The-Go for retrieving and editing SharePoint documents on mobile devices. This can be easily done with or without network connectivity and will sync the changes securely when back at the office. If a file was changed by someone else while out of the office, the app will detect the collision and ask what version to keep. Both examples are available for free from the Apple AppStore.
- 🔇 App Store 📶 🗢 17:20 Sites Project Management Site C LIBRARIES Photos logo SafeWay Project Photos partners 2 9 item Ů ☆ Shared Documents 40 items Activity LISTS Nataliva Aleksieva modified 2 Jan 2019 Announcements R Critical events and maps 2-1-19 <u>م</u>انج Calendar Nataliva Aleksieva modified 30 NR Examination Standards 02-01-19 Contacts 1 Nataliva Aleksieva modified NR Data Pilots 21-12-18 **Events** 30 Belen Riveiro modified General Discussion SAFEWAY Links Ø COLOMBANO Alfredo modified WP Leaders Meeting: Session 001 Tasks COORDINATION ISSUES 2 no items Team Discussion alfredo j colombano modified Figure 1: Microsoft **Figure 2: SharePlus Office** SharePoint App **Mobile Client**
- Apple AppStore.

3.4 Security and Privacy

For safe exchange of data all connections to the website are made using the Hypertext Transfer Protocol Secure (HTTPS). Access to the private (SharePoint) website is restricted to dedicated user accounts, assigned by DEMO Consultants.

Personal information is only collected after informed consent, safeguarded and fully compliant with the General Data Protection Regulation (GDPR).





Acknowledgements

This periodic report was carried out in the framework of the GIS-Based Infrastructure Management System for Optimized Response to Extreme Events of Terrestrial Transport Networks (SAFEWAY) project, which has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 769255.

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