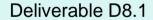




ENERGY-AWARE FACTORY ANALYTICS PROCESS FOR INDICED W



Project Website

Version

Final

Lead Partner

Unparallel

Date

31/01/2020

Project Name

FACTLOG - Energy-aware Factory Analytics for Process Industries



Call Identifier

H2020-NMBP-SPIRE-2019

Topic

DT-SPIRE-06-2019 - Digital technologies for improved performance in cognitive production plants

Project Reference

869951

Start date

November 1st, 2019

Type of Action

Duration42 Months

Dissemination Level

Χ	PU	Public
	CO	Confidential, restricted under conditions set out in the Grant Agreement
	CI	Classified, information as referred in the Commission Decision 2001/844/EC

Disclaimer

This document reflects the opinion of the authors only.

While the information contained herein is believed to be accurate, neither the FACTLOG consortium as a whole, nor any of its members, their officers, employees or agents make no warranty that this material is capable of use, or that use of the information is free from risk and accept no liability for loss or damage suffered by any person in respect of any inaccuracy or omission.

This document contains information, which is the copyright of FACTLOG consortium, and may not be copied, reproduced, stored in a retrieval system or transmitted, in any form or by any means, in whole or in part, without written permission. The commercial use of any information contained in this document may require a license from the proprietor of that information. The document must be referenced if used in a publication.



Executive Summary

This document provides an overview of the initial version of the FACTLOG project website. This includes the structure of the website, as well as some screenshots as to show the project visual image and how it's used in the official FACTLOG webpage.

The work related to the website will continue throughout the project's lifetime, with the publishing of new content along the way. The website will follow-up the activities carried out during the project implementation and will inform our target audience about the results achieved.

The FACTLOG page is available in www.factlog.eu. It will also linked with the twitter page of the project, which can be found using "@Factlog_EU".



Revision History

Revision	Date	Description	Organisation
0.1	18/01/2020	Initial structure defined	Unparallel
0.2	28/01/2020	Content added	Unparallel
1.0	31/01/2020	Final version released	Unparallel

Contributors

Organisation	Author	E-Mail
Unparallel	Tiago Teixeira	Tiago.teixeira@unparallel.pt
Unparallel	Filipa Sousa	Filipa.sousa@unparallel.pt



Table of Contents

E>	cecuti	ive Summary	3
Re	evisio	on History	4
1	Intr	roduction	7
	1.1	Purpose and Scope	7
	1.2	Relation with other Deliverables	7
	1.3	Structure of the Document	7
2	FAG	CTLOG.eu	8
	2.1	FACTLOG.eu placeholder	8
3	FAG	CTLOG Website	9
	3.1	Homepage	9
	3.2	Pilots	11
	3.2.	2.1 Waste-to-fuel Transformer Plants	12
	3.2.	2.2 Oil Refineries	13
	3.2.	2.3 Textile Industry	14
	3.2.	2.4 Automotive Manufacturer	15
	3.2.	2.5 Steel Manufacturer	16
	3.3	About page	17
	3.3.	3.1 Governance	18
	3.3.	3.2 Deliverables	19
	3.3.	3.3 Partners	20
	3.3.	3.4 What we do	21
	3.4	News & Events page	22
	3.5	Contact Us page	23



List of Figures

Figure 1 - FACTLOG Placeholder	8
Figure 2 - FACTLOG Website mind-map	9
Figure 3 - FACTLOG Home page	10
Figure 4 - FACTLOG Pilots page	11
Figure 5 - Pilot Waste-to-fuel Transformer Plants	12
Figure 6 - Pilot Oil Refineries	13
Figure 7 - Pilot Textile Industry	14
Figure 8 - Pilot Automotive Manufacturer	15
Figure 9 - Pilot Steel Manufacturer	16
Figure 10 - FACTLOG About page	17
Figure 11 - About - Governance	18
Figure 12 - About - Deliverables	19
Figure 13 - About - Partners	20
Figure 14 – About - What we do	21
Figure 15 - FACTLOG News & Events page	22
Figure 16 - FACTLOG Contact Us page	23



1 Introduction

1.1 Purpose and Scope

The purpose of this document is to provide an overview of the first version of the project website. It shows the structure of the website, and the looks for the initial version of the FACTLOG Webpage, which is hosted in the www.factlog.eu domain.

1.2 Relation with other Deliverables

As this deliverable provides the FACTLOG website, it will be used as a dissemination and communication tool, and as an outreaching tool for all the results of the project.

1.3 Structure of the Document

This document has a simple structure with a section for FACTLOG.eu and a section for FACTLOG Website.

- **FACTLOG.eu** FACTLOG official home on the web.
- **FACTLOG website** section presenting the structure of the FACTLOG website and examples of the pages.



2 FACTLOG.eu

The FACTLOG project website is available online and can be found using the following link:

www.factlog.eu

2.1 FACTLOG.eu placeholder

This version of the project website is being officially launched in the end of M3 of the project, and it will be continuously updated. However, the FACTLOG.eu domain was purchased during the first month (M1) of the project, and while the consortium was working on the current version of the website, a placeholder was published in www.factlog.eu, so that FACTLOG had a virtual presence in the online world.

This placeholder can be seen in figure below, where you can see that the idea was that our visitors could understand that the factlog.eu was in fact FACTLOG official home, but that the official website was being "manufactured".

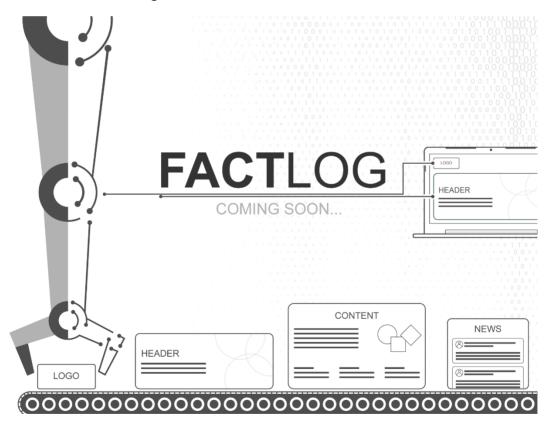


Figure 1 - FACTLOG - Placeholder



3 FACTLOG Website

The project website was created in order to provide external stakeholder with information related to FACTLOG project, results and also providing the capability of externals to contact the consortium.

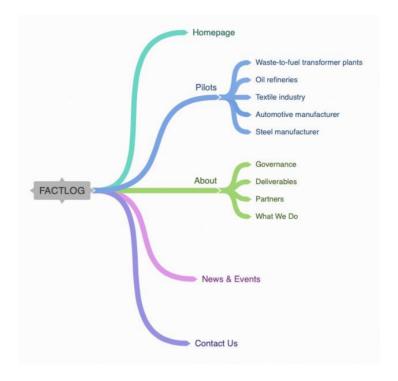


Figure 2 - FACTLOG Website mind-map

Figure 2 provides a mind-map with the structure of the portal that includes a **Homepage**, a **Pilots** section, an **About** section, **News & Events** and a **Contact Us** section. These pages can be accessed through the main menu:

- Homepage Entry page of the FACTLOG website. Provides an overview of the website content;
- Pilots Provides all the necessary information about each Pilot;
- About The project context;
- **News & Future Events** A dedicated page for news and events related to the project;
- Contact Us Area that allows the users to contact the consortium.

3.1 Homepage

The FACTLOG Homepage can be seen as an interactive page. This page, Figure 3, allows easy access to other pages, while providing information regarding the project's activities, namely:

- What We do: Overview of the project's idea and objectives
- **Pilots** Overview of the Project pilots. The "Read More" allows access to the pages dedicated to each Pilot;



- News & Future Events overview of the news related to FACTLOG (direct connection to the project's Twitter account), and list of the future events being targeted by the project.
- Our Partners Consortium partners

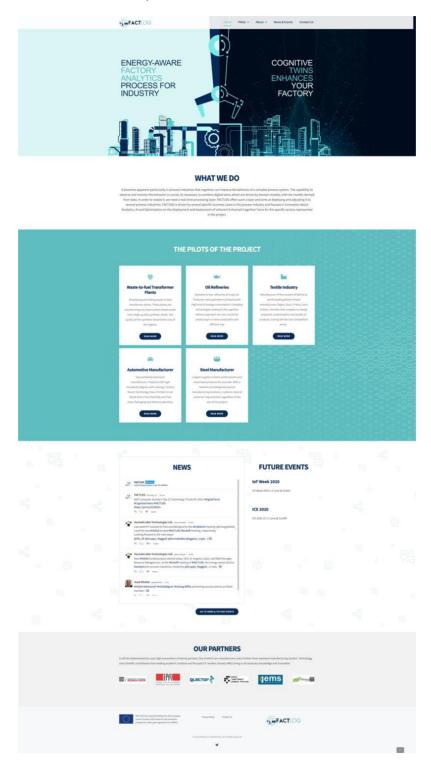


Figure 3 - FACTLOG Home page



3.2 Pilots

The Pilots section is dedicated to the pilots of the FACTLOG project. In the main page, depicted in Figure 4, it's possible to find a reference to each of the pilots. Through each image it is possible to access the page dedicated to the respective pilot. However, the user has direct access the pilot's page, via the main menu.

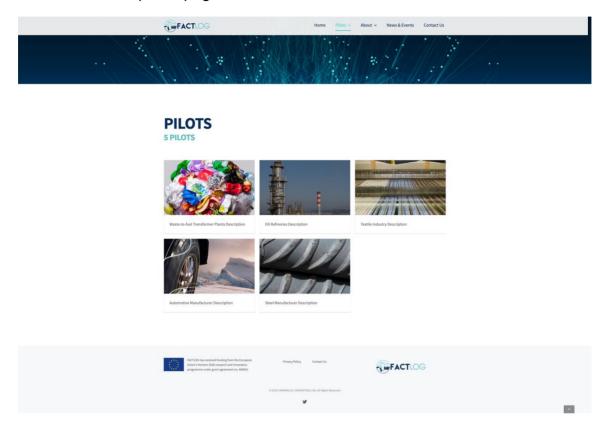


Figure 4 - FACTLOG Pilots page

The following sub-sections provide a screenshot of each of the FACTLOG pilots.



3.2.1 Waste-to-fuel Transformer Plants

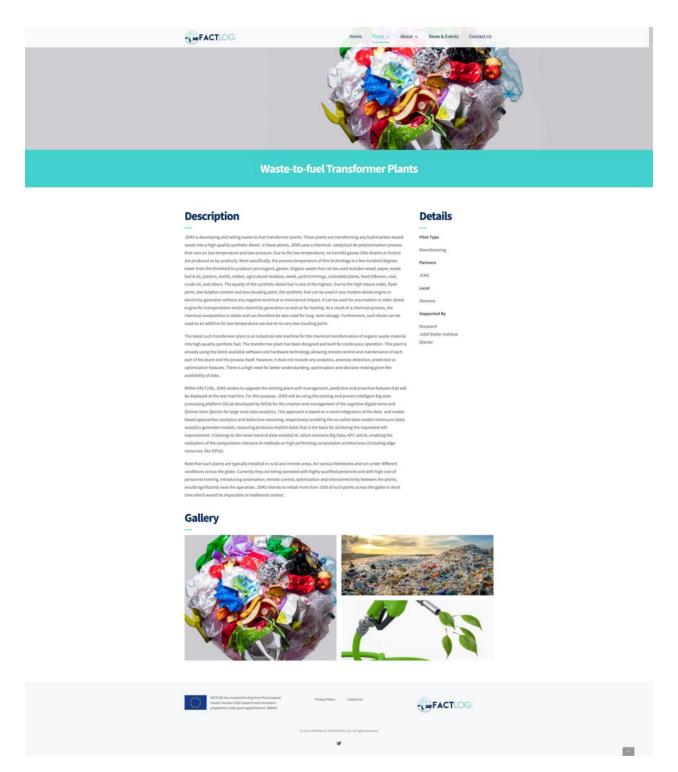


Figure 5 - Pilot Waste-to-fuel Transformer Plants



3.2.2 Oil Refineries



TUPRAS controls all of Turkey's refining capacity; it operates four refineries with a total capacity to handle an annual 28.1. I/UR, naphtha, garalline, diseal and fuel ell, with high levels of energy consumption. Production plans are determined by optimization models used by the corresponding Planning Department, based on the product specifications and feed capacities in a monthly basis. 50% of TUPRAS process plans utilise a Model Prediction Controller (MPC) which is responsible for achieving the planned goals online in production plants. Moreover, there is the farragy Management the capacities in a monthly basis. 50% of TUPRAS process plans utilise a Model Prediction controller (MPC) which is responsible for achieving the planned goals online in production plants. Moreover, there is the farragy Management to the cognitive refinery approach are every crucial for producting in a more sustainable and efficient way. Creating an energy and production sputy-waver decisions upport systems for production scheduling could be very helpful for energy-based optimization and intelligent decision-making for the entire refinery. Each refinery has many different process units which are also interconnected to each other. High complexity and integration make in there for find an implement optimization targets both considering energy optimization and satisfying the production scheduling plans. Monitoring global eptimization targets both considering energy optimization and astisfying the production scheduling plans. Monitoring global eptimization targets both considering energy optimization and astisfying the production scheduling plans. Monitoring global eptimization targets and product tasks and prescriptive tool which considers the current production realization for estimating new targets and evaluating the impact of the new schedule is required. In that regard, the unpart of except an emplement except and prescriptive tool which considers the current production realization for estimating new targets and evaluating the impa

Gallery





Figure 6 - Pilot Oil Refineries



3.2.3 Textile Industry



PAI is a manufacturer of fine woollen fabrics, supplier of fabrics to world-leading fashion brand manufacturers (Zegna, Gucci, Pada, Louis Vauton, and Hermés, among others) that compete on design proposal, customisation and quality of products, having left the cost competition arena. The organisation of the plant floor in PAI reflects the peculiarities of typical EU teotile SMEs. In its machine fleet, especially in those parts of the process which have a direct impact on quality, like finishing or weaving, machines coexist with EU infrastructures tracing back to 10 years or more. However, in order to address the continuous pressure towards with the production of abbics and the fair reduction of lot dimension, PAIs and editoral displicated efforts in the remeal of last CI infrastructures in order to collect and exploit the produced data and to optimize its complex and inhomogeneous production. The participation in PF77 and 192020, 8 projects has supported the evelopment of an advanced So Air data collection and management, integrating environ, MES, IRP and a production scheduler into a single architecture based on case Base Reasoning. The Production UniX Controller (PVC) provides a first starting set up to be implemented based on previous cases of the acting and production scheduler and with the effect procoordinator, or company level. The structure is designed to be open to inputs from outside sources of information comes from the machines and, in case of unexpected events, necessary action suggestions are provided based on previous cases of the activation of the production process. In clicking in event with regards to the quality of input materials (e.g., van for weaving) and from inside sources, including incremental output (e.g., fabric quality) and performance data (e.g., native). The structure is designed to be open to inputs from outside sources of information, in particular with regards to the quality of input materials (e.g., van for weaving) and from inside sources, including and activation of additi

Gallery





Figure 7 - Pilot Textile Industry



3.2.4 Automotive Manufacturer



Description Continental is among the top worldwide electronic manufacturer: its products are manufactured in Electronic plants such as the plant in Timisoars. Our plant is products are from design by the group of development within different worldwide locations. Products are from design phase customized for our final customer, automotive OEAA. About plant is products are from design phase customized for our final customer, automotive OEAA. About plant he products are from design phase customized for our final customer, automotive OEAA. About plant he products of parties are formed on the PCB based in the part of the products of the products on the parties of the products on the PCB based. • CAT (Furface Neount Technology) lines. High automated lines where electronic components are placed on the PCB boards. • PCAB (Printed Circuit Board Area). PCB area, where the electronic bill its SNT will be separated in smaller parts (PCB) and tested electrically in Circuit Test). Additional processes can also take place in this area like PPCB PCB PCB and PCB area, where the PCB part of the PCB p

Gallery

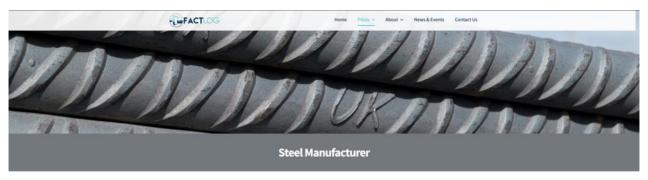




Figure 8 - Pilot Automotive Manufacturer



3.2.5 Steel Manufacturer



Pounded in 1909, BRC is the UK's largest supplier of steel reinforcement and associated products for concrete. With a network of strategically pilaced manufacturing locations, BRC is able to meet all outstomer requirements regardless of the size of the project. Moreover, it complies with the highest quality and sustainability standards and can be found in location grediests such as the second seven crossing, the Principality adad sustainability standards and can be found in location grediests such as the second seven crossing, the Principality adadies, where the project is such as the second seven crossing, the Principality adadies, which is such as the second seven crossing, the Principality adadies, which is sufficient to the second seven crossing, the Principality adadies, which is sufficient to the second seven crossing, the Principality Adadies, which is sufficient to the second seven crossing the Principality Adadies, and the second seven crossing the Principality Adadies, and the second seven crossing the second seven crossing the second seven crossing the second seven crossing the Principality Adadies, and the second seven crossing the second seven the second seven crossing the second seven the second seven crossing the second seven the secon





Figure 9 - Pilot Steel Manufacturer

3.3 About page

The section About, depicted in Figure 10, provides the FACTLOG context. This section, is divided in different sub-sections, mainly:

- Governance The project's structure;
- **Deliverables** The project's documentation;
- **Partners** Partners information:
- What we do Detailed information about FACTLOG project: the context, the aims and the objectives.

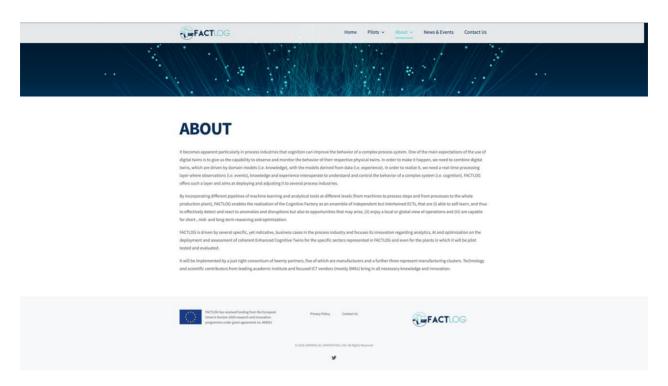


Figure 10 - FACTLOG About page



3.3.1 Governance

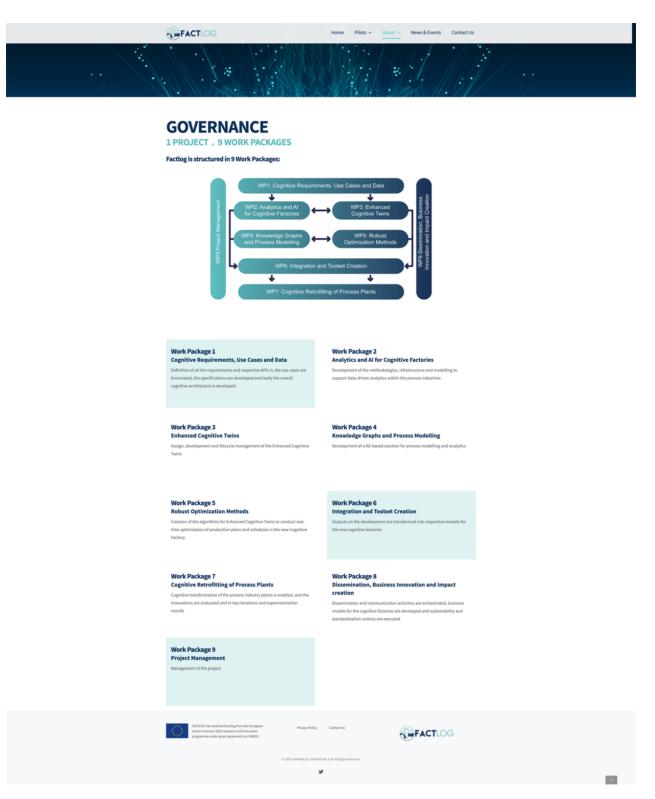


Figure 11 - About - Governance



3.3.2 Deliverables

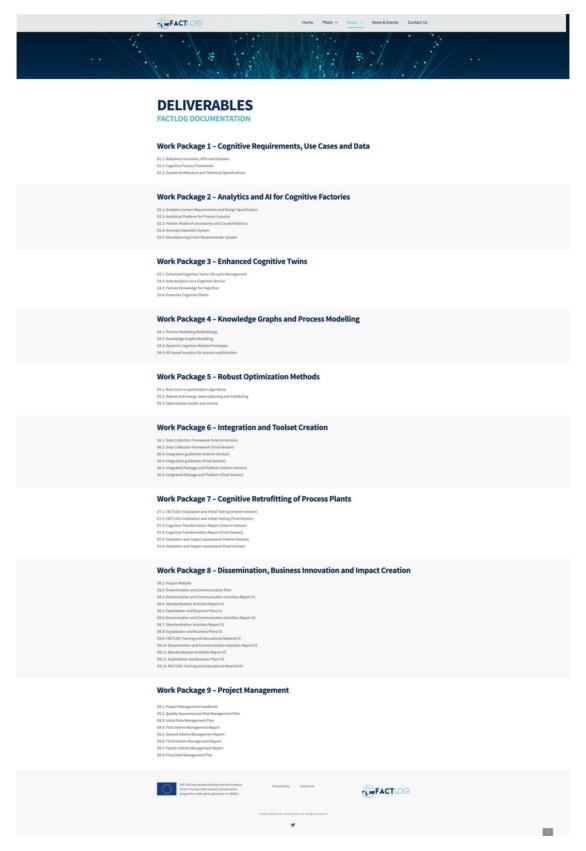


Figure 12 - About - Deliverables



3.3.3 Partners

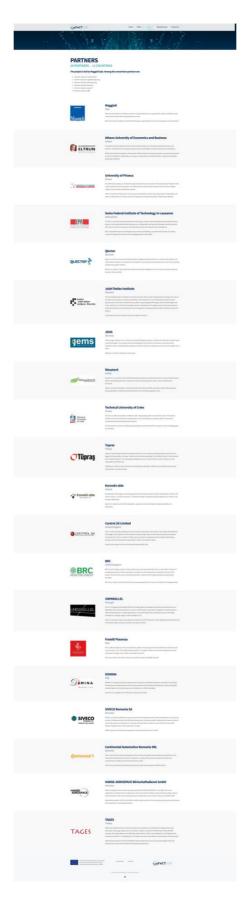


Figure 13 - About - Partners



3.3.4 What we do

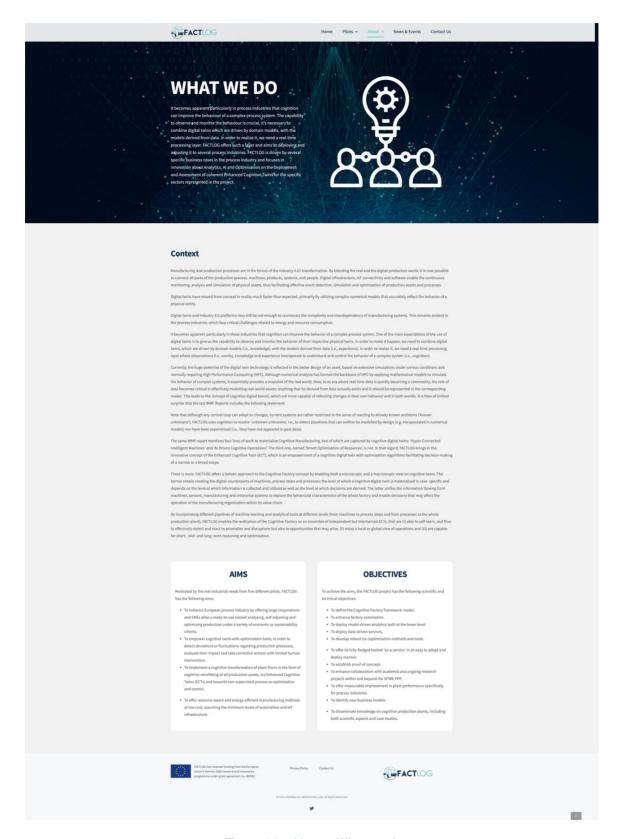


Figure 14 - About - What we do



3.4 News & Events page

In the section News & Events, illustrated in Figure 15, the user can follow the FACTLOG updates about the project. This page is divided in News, and Future Events.

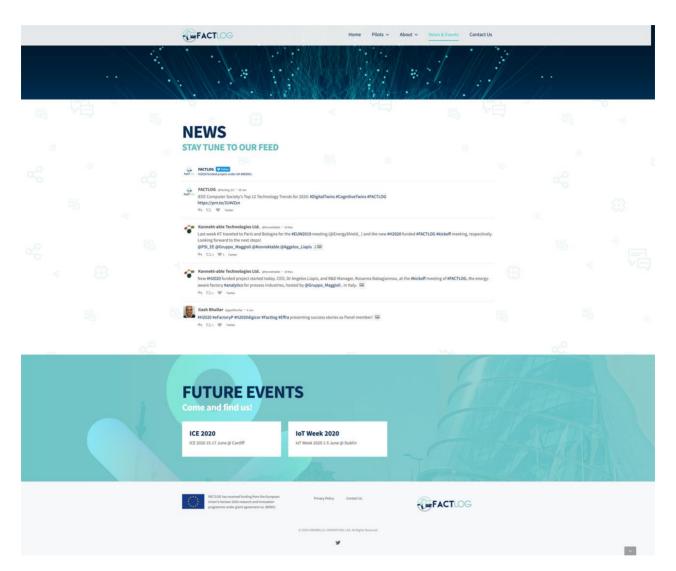


Figure 15 - FACTLOG News & Events page



3.5 Contact Us page

The FACTLOG webpage purpose is to share information and knowledge about areas related to the project. This page allows any person with interest to contact the consortium with questions about FACTLOG or get involved in FACTLOG activities.

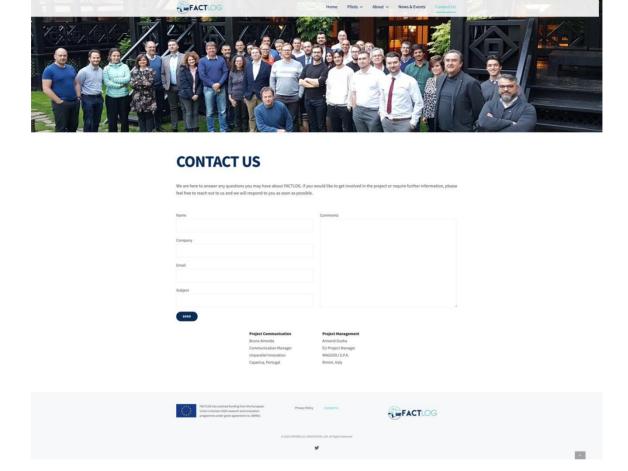


Figure 16 - FACTLOG Contact Us page

