



# INSIGHT

“Implementation in real SOFC Systems of monitoring and diagnostic tools using signal analysis to increase their lifeTime”

Grant Agreement n° 735918 –  
Research and Innovation Project

**Deliverable D7.1 Project Website and Visual identity**

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## Document Abstract

This deliverable is part of WP7 which is the main interface between the project and the outside world, academics, and industrials.

Towards this goal, task 7.1 aims at making the project work widely known.

This deliverable describes the website dedicated to the INSIGHT project, a very important communication tool and the associated logo and visual identity.

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## 1. Website

INSIGHT website is implemented within WP7 “Dissemination and exploitation activities” which aims to ensure scientific, social and economic impacts based on the results of the INSIGHT project.

The related tasks are:

- Task 07.01 Dissemination Activities
- Task 07.02 Knowledge and IPR Management
- Task 07.03 Exploitation Strategy of the Results
- Task 07.04 Project Data Management and Reporting
- Task 07.05 Networking and Events
- Task 07.06 Education and Training Activities

INSIGHT website (<http://insight-project.eu/>) is a key tool for external communication. It has been designed by Absiskey in cooperation with the coordinator and the project partners, who will continue to complete it during the project.

The website disseminates information about the project life, current results, participation to events and public deliverables. This content is displayed in 5 different sections that will be presented successively.

### 1.1. An image slider

The image slider (Figure 1) displays news presenting the latest events related to the project, such as the latest results, the latest meetings, the latest publications, newsletters...with related photos. The previous news will be displayed at the bottom of the website in the “News” section.

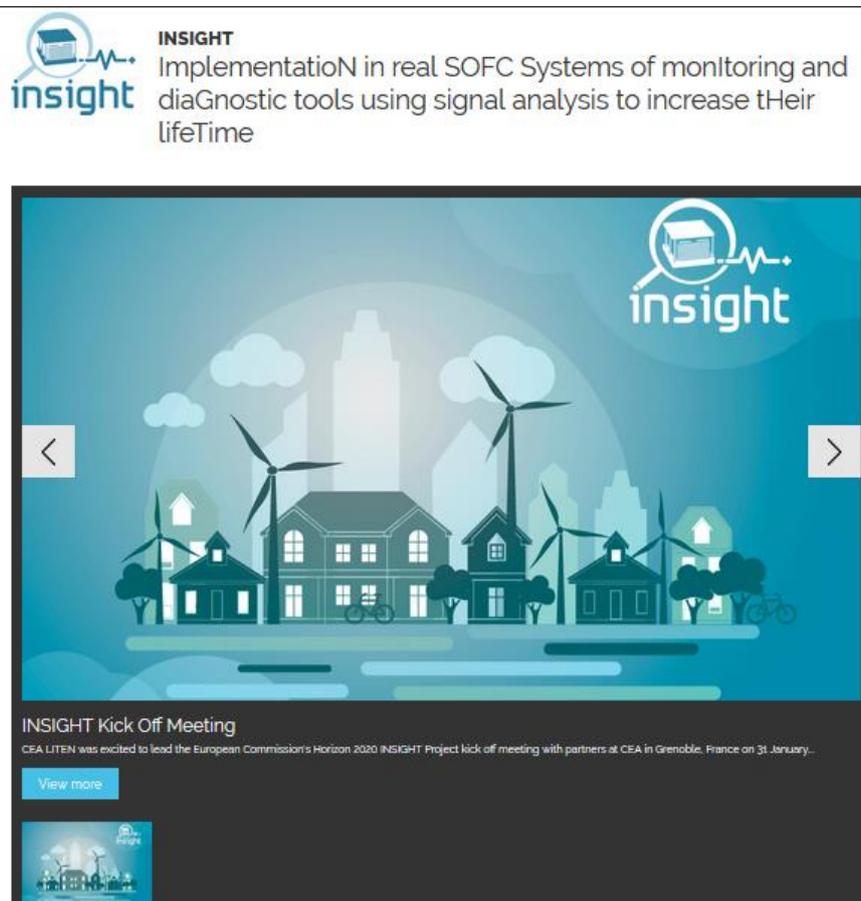


Figure 1 : Image Slider

## 1.2. The abstract, the objectives and the results

This part presents IEDAT project reminding the abstract and the objectives (Figure 2) described in the grant agreement;

View more




### ABSTRACT

The INSIGHT project aims at developing a Monitoring, Diagnostic and Lifetime Tool (MDLT) for Solid Oxide Fuel Cell (SOFC) stacks and the hardware necessary for its implementation into a real SOFC system. The effectiveness of the MDLT will be demonstrated through on-field tests on a real micro-Combined Heat and Power system (2.5 kW), thus moving these tools from Technology Readiness Level (TRL) 3 to beyond 5. INSIGHT leverages the experience of previous projects and consolidates their outcomes both at methodological and application levels.

The consortium will specifically exploit monitoring approaches based on two advanced complementary techniques: Electrochemical Impedance Spectroscopy (EIS) and Total Harmonic Distortion (THD) in addition to conventional dynamic stack signals. Durability tests with faults added on purpose and accelerated tests will generate the data required to develop and validate the MDL algorithms. Based on the outcome of experimental analysis and mathematical approaches, fault mitigation logics will be developed to avoid stack failures and slow down their degradation.

A specific low-cost hardware, consisting in a single board able to embed the MDLT will be developed and integrated into a commercial SOFC system, the EnGenTM 2500, which will be tested on-field.

INSIGHT will then open the perspective to decrease the costs of service and SOFC stack replacement by 50%, which would correspond to a reduction of the Total Cost of Ownership by 10% / kWh. To reach these objectives, INSIGHT is a cross multidisciplinary consortium gathering 11 organisations from 6 member states (France, Italy, Denmark, Slovenia, Austria, Finland) and one associated country (Switzerland). The partnership covers all competences necessary: experimental testing (CEA, DTU, EPFL), algorithms developments (UNISA, US, AVL), hardware development (BIT), system integration and validation (VTT, SP, HTC), supported by Absiskey for the project management and dissemination.



### OBJECTIVES

**3 main objectives are set** all of them being aligned with the final targets of increasing the lifetime and decreasing the cost of the SOFC technology:

**Objective 1:** To implement an advanced Monitoring, Diagnostic and Lifetime Tool to prolong SOFC lifetime by 5% and increase availability by 1%.

**Objective 2:** To develop the hardware for the implementation of advanced Monitoring, Diagnostic and Lifetime algorithms on real SOFC system with low cost (less than 3% of system cost).

**Objective 3:** To identify control actions able to mitigate the impact of both degradation mechanisms and faults on performance and durability of SOFC.

Figure 2 Abstract and Objectives

The results of the project as the project evolves and produces tangible outcomes (products, publications etc.) will also be displayed in this section.

### 1.3. The partners' information

This section displays the main contact person (Figure 3) from each partner who can be directly contacted or identified with a LinkedIn link. Also, a photo of the main contact person allows connecting faces to names for external and internal communication.

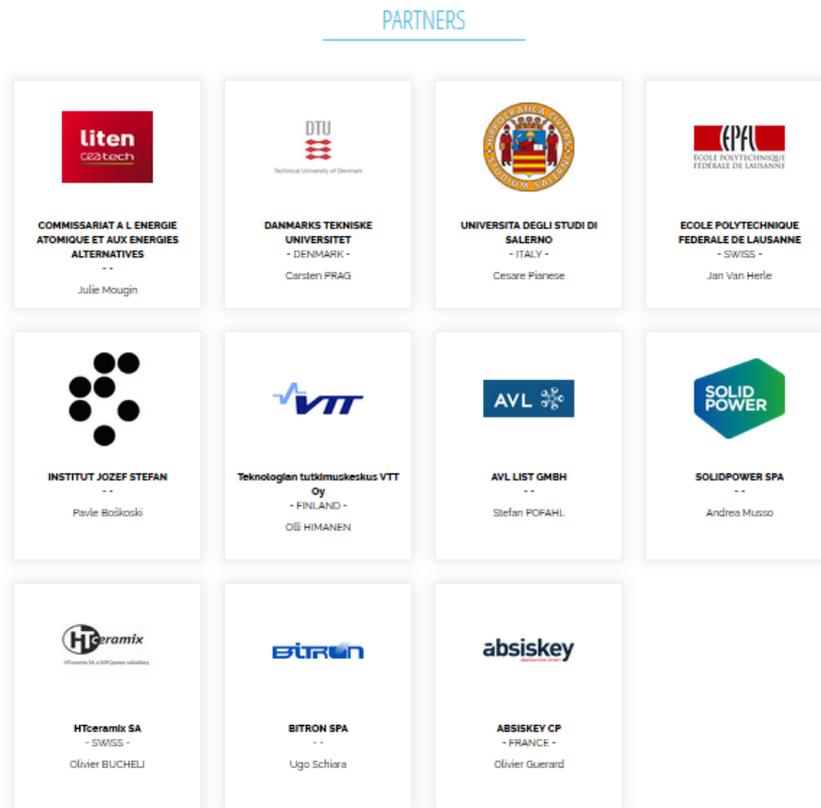


Figure 3 : List of partners

Besides, a map showing where all the partners are located allows a good geographical representation of the consortium.



### 1.4.A graph-chart

This section displays general public financial information about the project and a timeline showing the progress of the project (Figure 4).

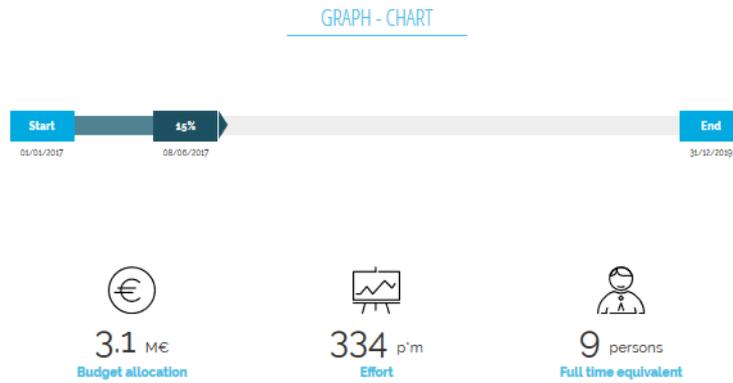


Figure 4 : Graph-Chart

### 1.5. News, Events and Documents

This section (Figure 5) displays public information on Project news, Events and Documents such as the public deliverables, presentations etc.

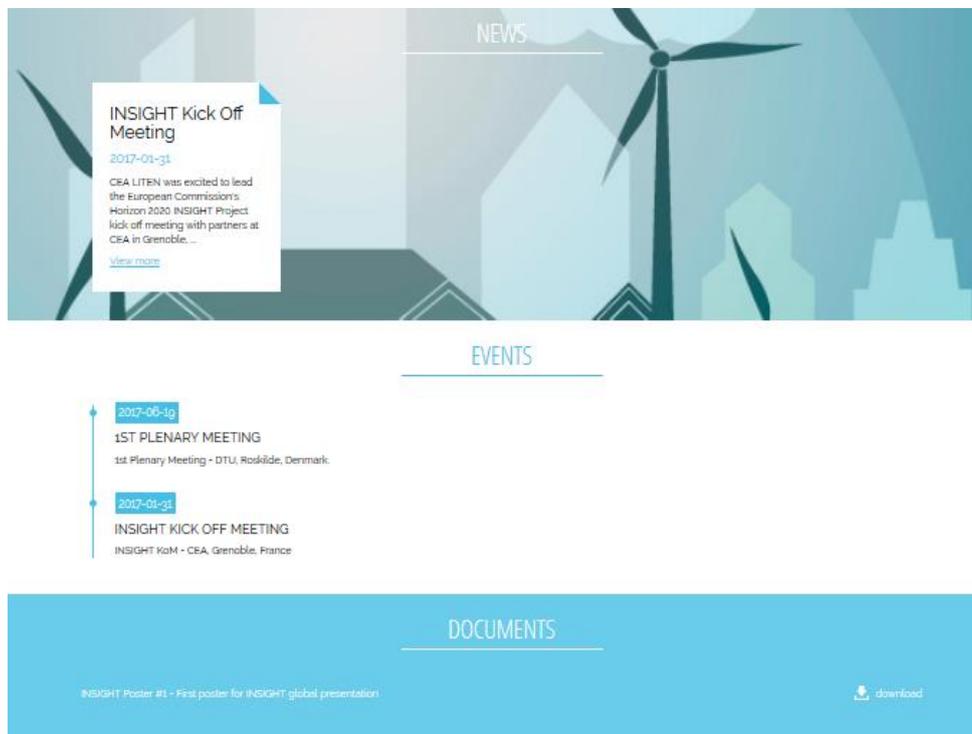


Figure 5 : News, Events and Documents

## 1.6. Analysis of the site traffic

Google analytics service will be used to provide statistics on the number of visitors and geographical locations.

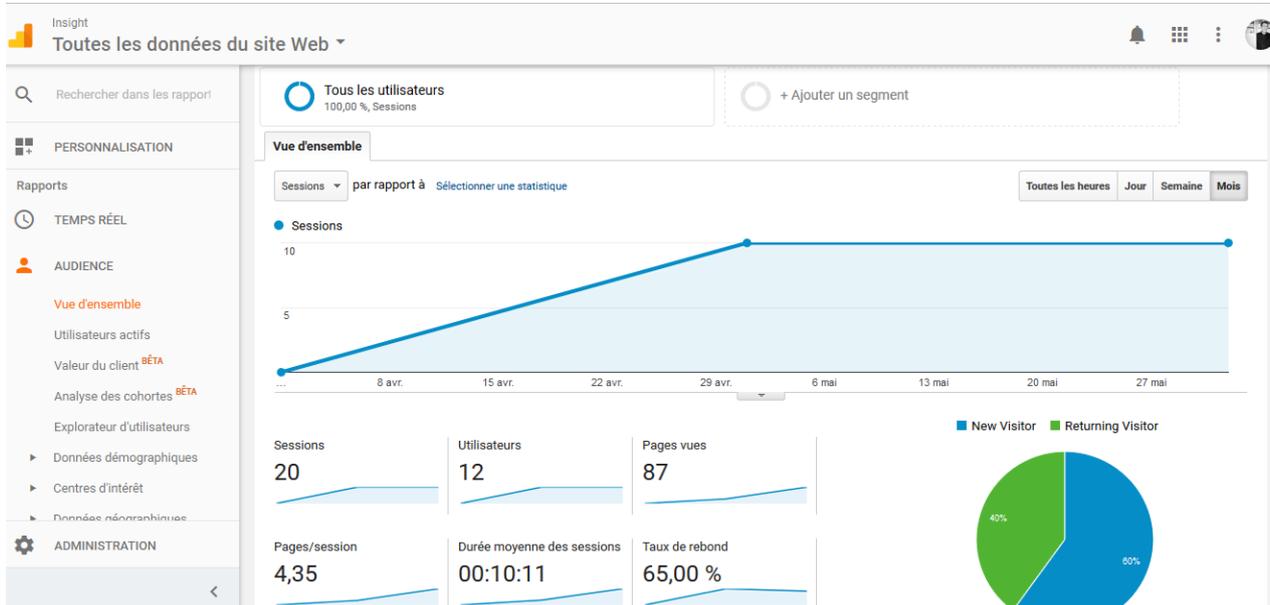


Figure 6 : INSIGHT website traffic

## 1.7. Hosting & Security

### Hosting:

The website is hosted as presented below:

**Location:** On Absiskey's servers hosted in OVH datacenter, in France.

**Network:** OVH provides a 500 Mbps guaranteed bandwidth.

### Security

PNB security is provided by OVH. OVH is currently the number 3 web hosting provider worldwide.

OVH condition of security: <https://www.ovh.co.uk/aboutus/security.xml>

and <https://www.ovh.co.uk/aboutus/datacentres.xml>

In addition to this security, a complete database backup is performed each day and stored during one week.



## 2. Visual identity (logo and banner)

As a first step, the project logo was released. The INSIGHT logo has been chosen by the partners among 6 different proposals:



The winning logo is:



Figure 7 : INSIGHT Logo

This logo shall be used by the consortium on each official or internal document. Different formats are available on the INSIGHT repository /documents/Communication tools (AI: Vector master, for professional use (designer) / JPG: High resolution (300dpi) for printed documents / PNG: Low resolution (72dpi), for web use).

As part of the project brand a visual identity was designed (Figure 8). Based on the INSIGHT logo, the partners will use the visual identity for homogeneous dissemination templates such as Powerpoint presentations.



Figure 8 : INSIGHT Visual identity

### 3. QR Code

A QR code has been designed (Figure9) and is available in the private part of Project NetBoard (shared documents) for dissemination and communication use.

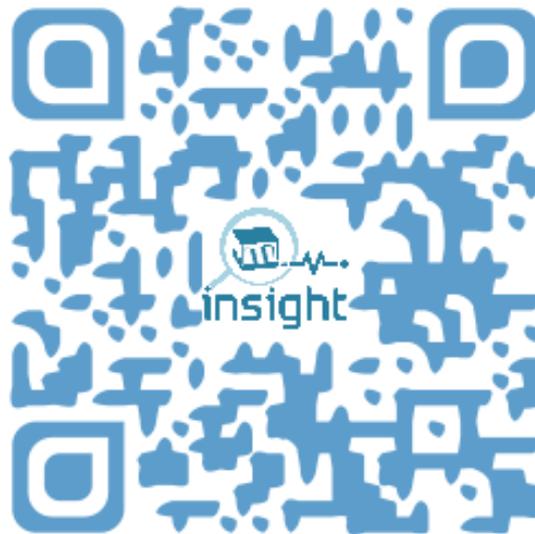


Figure 9 : Insight QR code