



SisAl Pilot

Innovative pilot for Silicon production with low environmental impact
using secondary Aluminium and silicon raw materials

Project acronym ([SisAl Pilot](#))

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INTRODUCTION

The purpose of the SisAI Pilot dissemination materials and templates is to promote the project actions and its results widely across Europe.

Different dissemination materials have been designed and crafted and will be continued to be produced throughout the entire course of the project. More specifically, in addition to the materials described in the deliverable D6.2 “Dissemination Kit, 1st version”:

- All the dissemination materials has been updated to closely follow the evolution of the project;
- The website has been constantly updated, according to different communication needs;
- A promotional video has been realized;

In the following paragraph all the details are given.

UPDATES ON THE DISSEMINATION MATERIALS

INNEN is leading this activity but input is always requested from all partners before any material is made publicly available.

Thanks to the support of the coordinator NTNU and the WP6 Leader PNO, a short summary to better describe the main technical updates at the first year of the project has been developed and added to all the materials, as follows (see the Figure 1) :

FIRST YEAR PROJECT RESULTS

During this first year, the project successfully performed small-scale experiments in WP2 used as input in the upcoming pilot trials at Elkem. The separation of the different compounds through hydrometallurgical treatment has been optimized in WP3 and the modelling team in WP5 has created initial HSC and LCA models in which data from small-scale experiments have been used to verify the models. Data from the pilot experiments in WP2 and WP3 will be included when these will be available.



Figure 1. Paragraph added to the dissemination materials

Material update so far are:

- Brochure in pdf format
- Project Poster Template
- Roll-up Template

The materials are available for the consortium on Innovation Place - the project management platform used in the framework of SisAI Pilot and accessible through the project website (see the relative paragraph) – and for the external audience on the project website.

In the following, the figures of the new design with the added description.

BROCHURE

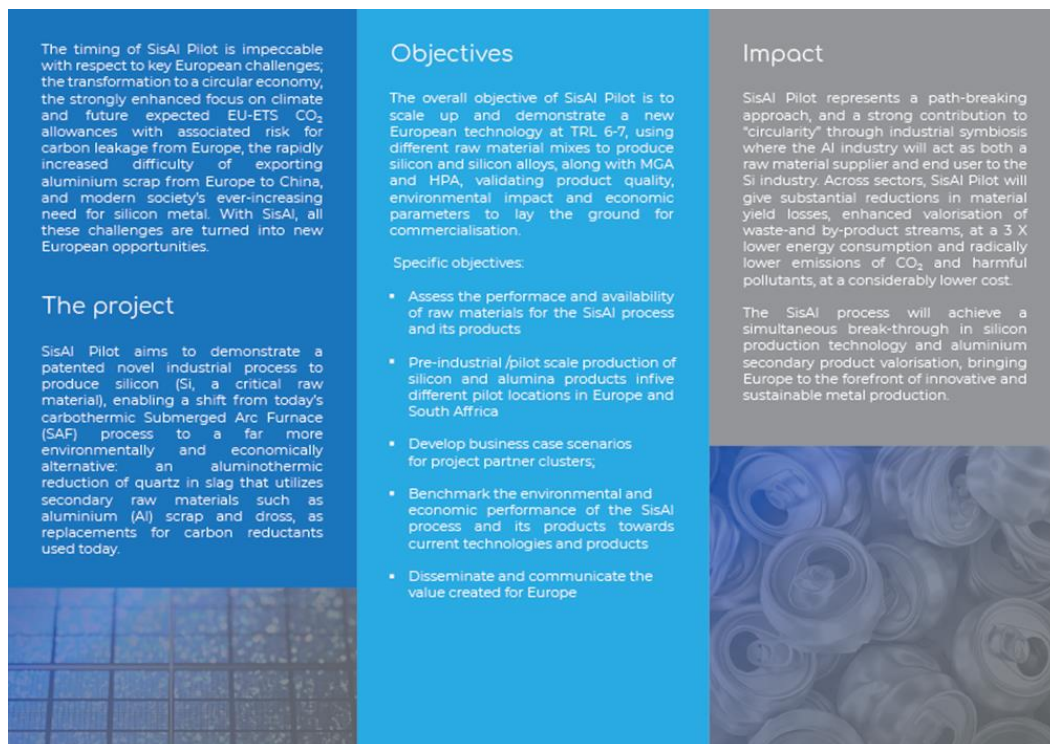


Figure 2. Sided Brochure – updated (a)

Partners



Contact us

PROJECT COORDINATOR

Gabriella Tranell
gabriella.tranell@ntnu.no

EXPLOITATION MANAGER

Torstein Haarberg
th@brw-energy.com

Follow us



[linkedin.com/company/sisal-pilot-project](https://www.linkedin.com/company/sisal-pilot-project)



twitter.com/SisalPilot

FIRST YEAR PROJECT RESULTS

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 869268

Si
silicon

Al
aluminium

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Figure 3. Sided Brochure – updated (b)

PROJECT POSTER and ROLL UP



SisAI Pilot
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The timing of SisAI Pilot is impeccable with respect to key European challenges; the transformation to a circular economy, the strongly enhanced focus on climate and future expected EU-ETS CO₂ allowances with associated risk for carbon leakage from Europe, the rapidly increased difficulty of exporting aluminium scrap from Europe to China, and modern society's ever-increasing need for silicon metal. With SisAI, all these challenges are turned into new European opportunities.

The project

SisAI Pilot aims to demonstrate a patented novel industrial process to produce silicon (Si, a critical raw material), enabling a shift from today's carbothermic Submerged Arc Furnace (SAF) process to a far more environmentally and economically alternative: an aluminothermic reduction of quartz in slag that utilizes secondary raw materials such as aluminium (Al) scrap and dross, as replacements for carbon reductants used today.

Partners

Contact us
PROJECT COORDINATOR
Gabriella Tranelli
gabriella.tranelli@ntnu.no
EXPLOITATION MANAGER
Torstein Haarberg
th@nvw-energy.com

Follow us
in www.linkedin.com/company/sisai-pilot-project
www.twitter.com/SisAIpilot

FIRST YEAR PROJECT RESULTS
During this first year, the project successfully performed small scale experiments in 1000 tonnes input in the submerged arc furnace at Euron. The operation of the different components through heterogeneous input has been used to validate the model. The model has been used to verify the process. Data from the pilot experiments in 1000 tonnes input will be included when they will be available.

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Objectives

The overall objective of SisAI Pilot is to scale up and demonstrate a new European technology at TRL 6-7, using different raw material mixes to produce silicon and silicon alloys, along with MCA and HPA, validating product quality, environmental impact and economic parameters to lay the ground for commercialisation.

Specific objectives:

- Define suitable raw material characteristics, availability and mixes for the SisAI process to assure product quality;
- Pre-industrial scale production of commercial grade MG-Si, HP-Si/SG-Si precursors, Al-Si alloys, MCA and HPA, in five different pilot locations* Assessment of processes and products;
- Develop at least five European business case scenarios for project partner clusters;
- Verify environmental performance and HSE compliance of the SisAI process;
- Dissemination and communication to create additional European societal value;

Partners

Figure 4. Updated Poster (left) and Roll-up (right)

UPDATES ON THE WEBSITE

The content of the website is constantly updated, mainly:

- In the section “News & Events” 15 new posts has been uploaded;
- In the section “Project Output” all the public materials are available;

The major changes of the structure of the website are related to:

- **QUICK LINK on the header of the homepage:** the link to the second internal repository has been added (<https://sisal.indecol.ntnu.no/login>) such as the link to the new youtube channel (<https://www.youtube.com/channel/UCu9nvtlcyUW1X7GOxpuh-wg>) as described in the Figure 5;
- **VIDEO on the homepage** has been added, as shown in the Figure 6;

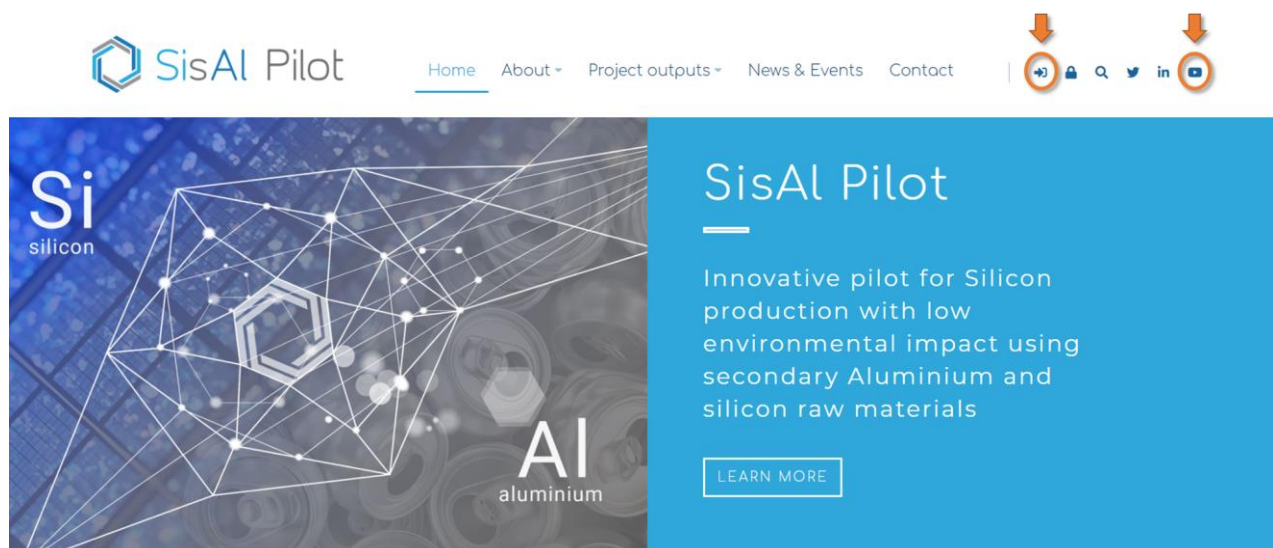


Figure 5. New QUICK LINKS added on the header of the homepage (orange arrows)

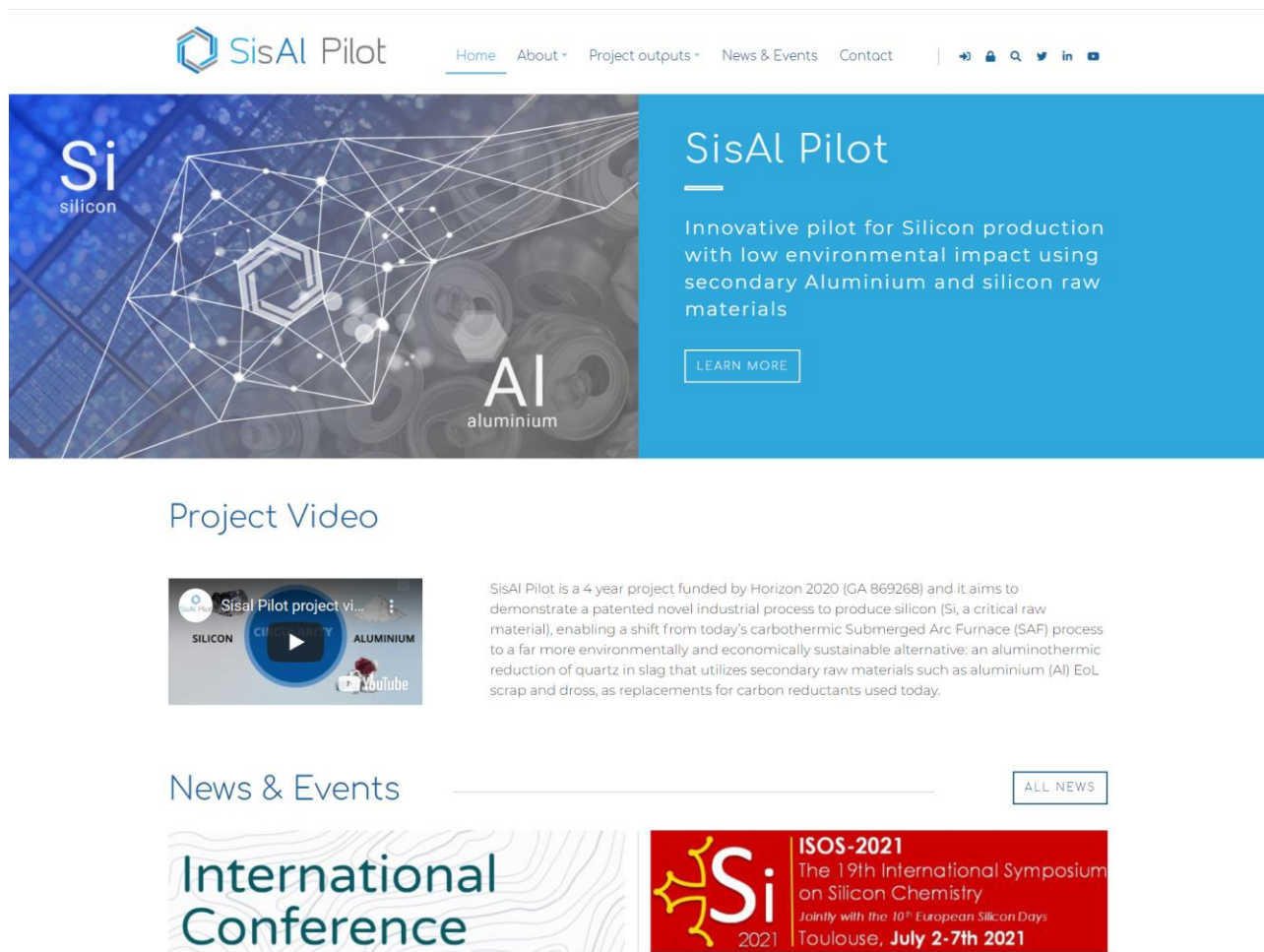


Figure 6. New Project Video Section

PROMOTIONAL VIDEO

On March, NTNU and INNEN realized the promotional video with high quality to promote the project: explaining the need for this project, -and to separate equipment/high value sources-, the wider European and international scope and promoting the project's objective. On YouTube, the view are already more than 350(Figure 7).



Figure 7. Preview of the Video on YouTube

ELABORATION OF TWO NEW NEWSLETTER

Two newsletter has been published and shared:

- October 2020: “Which are the involved partners and what they will do?”
- April 2021: “First year project results”

CONCLUSION

The communication and dissemination materials set up during the first part of the project consisting of a branded logo, the project website, brochure, and poster and PPT template, are continuously updated.

All the materials produced are the output of a joint activity of all the project partners. In particular, INNEN designed all the materials and the other partners provided feedback on the design and on the contents shared.