

BAMBOO

D12.2: Project website operative

31/12/2018 (M4)

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The BAMBOO logo, consisting of the word "BAMBOO" in a stylized, green, sans-serif font.

Technical References

Project Acronym	BAMBOO
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Project Coordinator	Cristina Gonzalo Tirado Fundación CIRCE cgonzalo@fcirce.es
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¹ PU = Public

PP = Restricted to other programme participants (including the Commission Services)

RE = Restricted to a group specified by the consortium (including the Commission Services)

CO = Confidential, only for members of the consortium (including the Commission Services)



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0 EXECUTIVE SUMMARY

The BAMBOO website (which can be accessed through the URL <http://bambooproject.eu>) was completed and made operational at the end of December 2018. It contains all institutional information about the project and is intended to be used as the entry point to the BAMBOO project for both the scientific and professional communities and other stakeholders' categories, including end-users and the general public. Besides that, the website acts as communication and dissemination channel for the project's results and for the involvement of the stakeholders.



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The logo for the BAMBOO project, consisting of the word "BAMBOO" in a stylized, green, sans-serif font.

1 THE BAMBOO WEBSITE

The website has been designed and built in its graphical layout and content structure by Fondazione iCons on the basis of key decisions shared with the coordinator. These can be summarised in the following points:

- **Website domain** - The domain name (bambooproject.eu) was registered in the month of November 2018.
- **Website scope** - Coherently with the BAMBOO Description of Work, the website functions as a first access to general information about the project. Therefore, it features in the homepage links to internal pages containing information about the project and the sites where it is demonstrated.
- **Website layout and identity** - It was agreed to opt for a catchy and modern graphical layout. The visual identity was focused on the concept of *flexibility* present in the project name "*Boosting new Approaches for flexibility Management By Optimizing process Off-gas and waste use*". The main result of this concept is visible in the animated gif expressly realised for the BAMBOO project, like the BAMBOO logo present in the project website. Further animated versions will be realised in the next future and will be included in online tools (website, newsletters, videos etc) to improve the project identity. The website is structured to be easy to browse. The colours and font were chosen according to the guidelines included in the project Brand Book.
- **Website structure** - The technical infrastructure and the graphical interface of the BAMBOO website was set-up at the beginning of the project, after the release of the visual identity. The implementation of the contents of the BAMBOO website has taken place since then and will continue throughout the duration of the project life. The website is structured in a homepage and six main sections.



Figure 1 - BAMBOO homepage



Much relevance is given to the 4 intensive industry demo sites, that are the focal point of the project. On the up-right part of the homepage, links are provided to all website sections, namely:



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BAMBOO

- **Project** - contains an overall description of the project, aimed at users looking for a deeper level of technical and practical information. It highlights the objectives and impact of BAMBOO that are made accessible to the public. It also contains an section dedicated to the three main pillars of BAMBOO and an overview of the project’s partners with contacts and a direct link to their websites.

Figure 2 - Overview of the project section

CAN HEAVY INDUSTRY BECOME MORE SUSTAINABLE?

↓ Flexibility, energy savings and better information



Innovative technologies to increase the industrial competitiveness through the flexibility of industrial processes


The energy transition towards a secure, competitive and decarbonized energy system is among the main environmental challenges that energy intensive industries are currently facing. They must adapt their current consumption and production patterns to a higher share of fluctuating renewable energy supply. To meet this goal EU plants need to:

- access to better information to integrate variable and non-programmable energy sources
- improve their flexibility on electricity supply
- decrease the consumption and dependence on fossil fuels while improving energy saving

BAMBOO will reuse this way. New technologies addressing energy and resource efficiency challenges will be tested and integrated in 4 intensive industries: steel, petrochemical, minerals and pulp and paper. These technologies will be adapted, tested and validated under real production conditions focus on three main innovation pillars: waste heat recovery, electrical flexibility and waste stream valorisation. BAMBOO will empower intensive industries to take better decisions to become more competitive in the use of natural resources in a broader context

→ The three innovation pillars
→ Meet the partners

INNOVATION PILLARS

 Innovation Pillar #1 ELECTRICAL FLEXIBILITY	 Innovation Pillar #2 WASTE STREAM VALORISATION	 Innovation Pillar #3 WASTE HEAT RECOVERY
Flexibility in electricity consumption offers industries the possibility to benefit from lower electricity prices and potentially provide grid services, as well as enabling the potential integration of renewable energies. BAMBOO will develop an innovative hybrid process for sludge drying to allow the plants to consume electricity according to the grid conditions, provide grid services and facilitates the integration of renewable energy.	Many waste streams have a valuable calorific content and can be valorised as fuels other processes, thus being a potential revenue stream for the industries. Therefore, BAMBOO will deploy technologies and processes that allow the upgrading of these streams and their valorisation (through improved combustion monitoring systems that enable the replacement of fossil fuels by off-gases).	Waste streams usually have a valuable energy content associated to its exhaust temperature that is wasted in most cases. Hence the goal is to develop technologies to valorise this energy content and use it where it is required within the process. BAMBOO will study relevant streams in terms of waste heat recovery potential and its different uses, thus contributing to increase the flexibility options of the plants.

MEET → THE PARTNERS

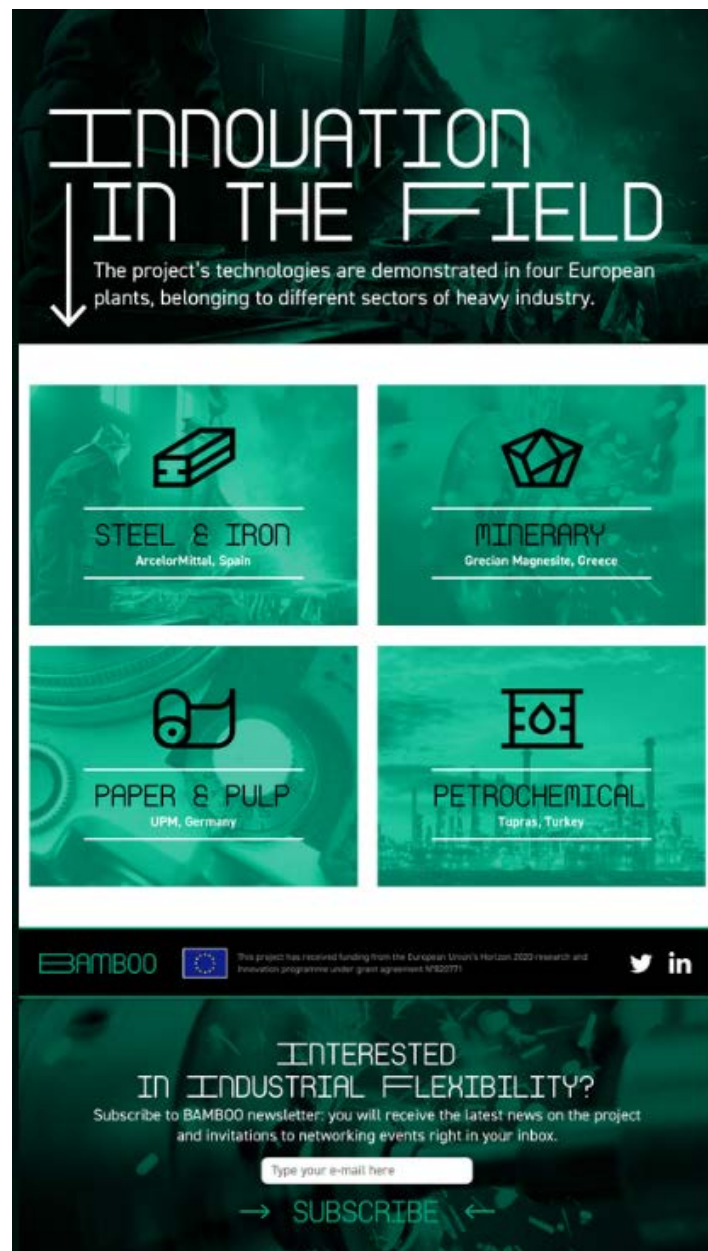


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- **Demos** - this section contains the main details about the four demo sites of the project and provides general data. It is divided into 4 sub-sections dedicated to each specific type of solution, namely steel, minerals, pulp and paper and petrochemical. Each demo window animates when you place the mouse on it. The pictures below show the main demos section and one single demo page.

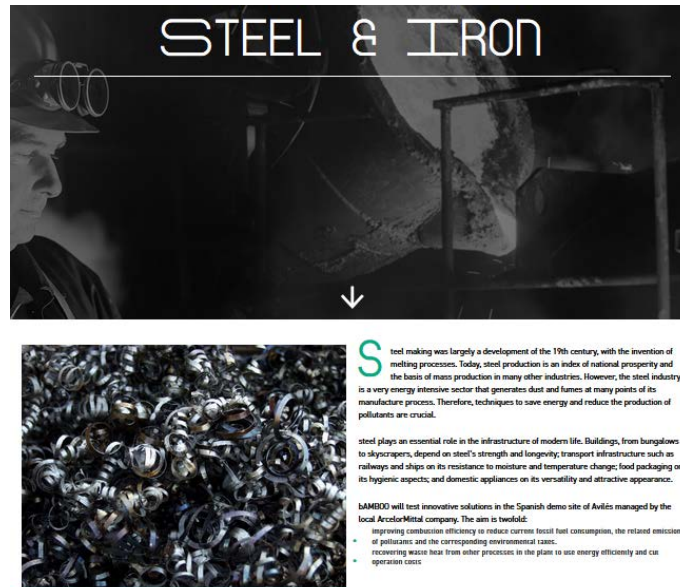
Figure 3 - Overview of the Demos section



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BAMBOO

Figure 4 - Focus on the Steel & Iron page



- **News** - One of the dynamic parts of the website with regularly updated press and news releases around the project topics. This section lists all the news about the project, sorted by most recent. The section is subdivided into Updates, Articles and Newsletters that will be stored in order to be available at the general public. In the main page users can read a short excerpt of the news and then go deeper on each news item's page. News will be stored and showed in chronological order.



Figure 5 - Overview of the News section

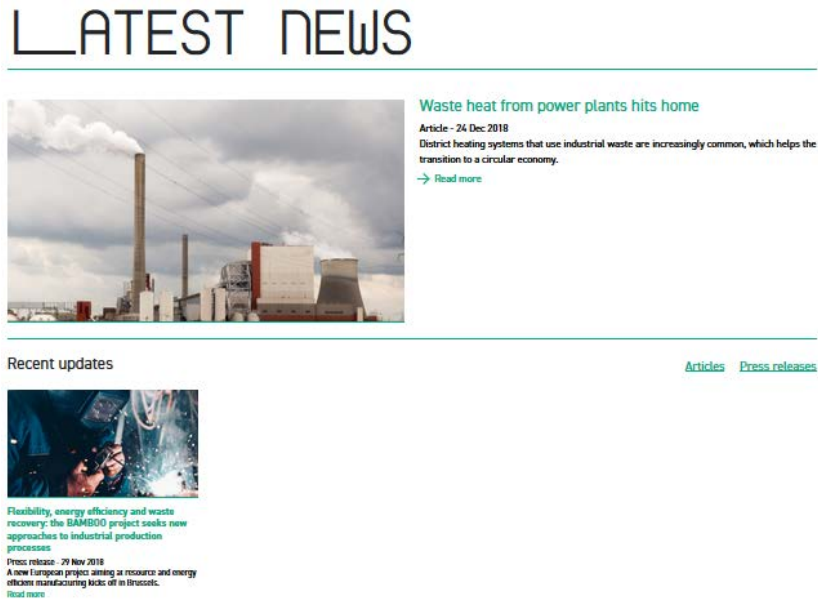


Figure 6 - Focus on the single news page

Flexibility, energy efficiency and waste recovery: the BAMBOO project seeks new approaches to industrial production processes



A new European project aiming at resource and energy efficient manufacturing kicks off in Brussels.

Press release - 29 Nov 2018



Drawing on the cutting-edge expertise of 19 partners from 8 countries, the BAMBOO project is co-funded by the EU and led by [Fundación CIRCE](#).

BAMBOO's overall purpose is to develop and demonstrate innovative solutions for efficiency in the use of resources and renewable energy within manufacturing, especially Resource Energy Intensive Industries (REII). BAMBOO technologies will focus on three main innovation pillars: waste heat recovery, electrical flexibility and waste streams valorisation.

Using extensive knowledge from production processes, energy simulation, resource planning and energy storage, the consortium will develop:

- emerging technologies to improve the flexibility in industrial processes and the energy efficiency by enhancing the use of renewable energy and energy storage
- a Decision Support System tool to manage flexibility at industrial level to help industries dealing with different energy and materials scenarios. This will help in collecting data, forecast boundary conditions and facilitate the participation in a future European energy market
- and integrate technologies for the valorization of waste streams based on the three main pillars to improve a more sustainable consumption of energy and the recovery and reuse of by-products within the plants.



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- **Events** - this section will be regularly updated with the most interesting fairs, conferences and workshops relevant for the sector and organized or promoted by the project. In the main page users can read a short excerpt of the event's description and then go deeper on each event's page. Events can be shared on Facebook, Twitter and LinkedIn through dedicated buttons



Figure 7 - Overview of the upcoming events section

UPCOMING EVENTS



RHC – Renewable Heating & Cooling
- 24 Dec 2018
To foster sustainable energy in Europe
→ [Learn more](#)



EUROHEAT & POWER Congress 2019
Nantes, France - 6-8 May 2019
In this spirit, RHC is making preparations for the premier district energy event in Europe next year (#19EHPcong | 6-8 May 2019 | Nantes, France). It's a congress for everyone, providing time and space for open discussion between utilities, city planners, policymakers, manufacturers, architects and everyone else...
→ [Learn more](#)



13th IEA Heat Pump Conference
Jeju Island, Korea, Republic of - 11-14 May 2020
Heat Pumps - Mission for the Green World
→ [Learn more](#)

Figure 8 - Focus on the single event page

EUROHEAT & POWER Congress 2019

Nantes
Nantes, France
from May 5th, 2019
to May 8th, 2019

In this spirit, RHC is making preparations for the premier district energy event in Europe next year (#19EHPcong | 6-8 May 2019 | Nantes, France).

it's a congress for everyone, providing time and space for open discussion between utilities, city planners, policymakers, manufacturers, architects and everyone else whose combined energy and imagination will be required to transform our communities in the coming years.

program overview - 3 days filled with unique experiences!

monday | Welcome to Nantes: French Colloquia, Technical Visits, Euroheat & Power General Assembly and Welcome Reception.
tuesday | Peeking around the corner: A day of exploring challenges, innovative solutions, and future opportunities.
wednesday | Empowering our communities: A pop-up day of advice, inspiration and connection.

view the schedule at a glance [here](#).

for further information on the program & to register, please click [here](#)

Share this event: [f](#) [t](#) [in](#)



Bringing clean, reliable and affordable heating and cooling to the heart of our cities

→ [Add to Google Calendar](#)
→ [Export iCal](#)

Follow BAMBOO updates: [t](#) [in](#)



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- **Resources** - This section lists all the public deliverables and publications issued by the project available for consultation or download. It may contain videos, flyers, info-packs, scientific papers and other public deliverables. It's already included in the website back end but will be publicly visible once the first publication will be available
- **Contact us** - Quick information on the project coordinator's contact details and the communication Secretariat.

Figure 9 - Contact section

CONTACT US

Project coordinator

Cristina Gonzalo
Fundación CIRCE

→ Contact

Communication

Veronica Meneghello
Fondazione iCons - iCube Programme

→ Contact

Website Interactive Features – All news and events on the BAMBOO website are equipped with social web buttons to share a piece of news with other contacts via Facebook, Twitter and LinkedIn

Website mobile version - The BAMBOO website is responsive. Its layout and contents adapt to the size of different screens thus providing an easy surfing by mobile devices. The website is accessible via smartphones at the same address.

Website content management – The website structure and its associated databases (registered users) are administered by Fondazione iCons, which manages the overall content updates with contributions by the other consortium partners .

Acknowledgment of EC funding – All website pages (including the homepage) feature at the bottom the EU emblem and the text: "*This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No 820771*"

Website newsletter – At the bottom of every page users can subscribe the project newsletter.

Partners' repository – In the footer of the homepage partners can find a direct link to the project repository. It is an easy and quick way to get the BAMBOO online file storage.



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2 CONCLUSIONS

The current status of the BAMBOO website fully matches the objectives of Task 12.2 of WP12. Contents, which represent a core part of it, will be added in parallel with the progress of the projects' activities and regularly updated until the end of the project.

The next steps will cover the implementation of the website through the following features:

- An implementation of the demo sites and the activities carried on in each of them
- A possible section about fellow projects
- Future news, events, publications, articles and interviews and newsletters
- Current and regular update of the information reported in the website

