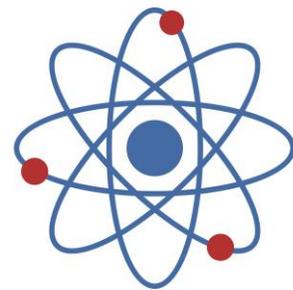


PROJECT NEWSLETTER



ISSUE 4 - 11/2020

BRACKET

2018-1-HR01-KA202-047493

Boosting a novel and innovative tRAining approaCh of Key Enabling Technologies

BRACKET INFO

The BRACKET project is a study of the representation of new technologies (nanotechnology, biotechnology and advanced materials) in Vocational Education and Training (VET). In the scope of the project, the situation analysis in the project partner countries will be carried out, as well as the preparation and implementation of a new training program in the field of key advanced technologies and a joint platform for cooperation containing all educational content developed through the project.

November 1, 2018 - April 30, 2021

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WHAT HAS BEEN DONE SO FAR

IO3. BRACKET TRAINING MATERIAL

BRACKET Consortium have developed five different units (KETs introduction, Nanotechnology, Biotechnology, Advanced Materials and Innovation regarding KETs), being independent from each other and avoiding redundancies among them. Bracket training material includes coursebook document, slide presentations, assessment, introductory video, etc. Before we have available the e-learning, we make available the summaries in 7 languages (English, Croatian, Spanish, Slovenian, Greek, Polish and Latvian) of the 5 units developed by the Consortium. (more on: <https://bracket.erasmus.site/wp-content/uploads/2020/10/Brief-Summary-BRACKET-Training-Material.pdf>)



BRACKET CONSORTIUM PROMOTED THE PROJECT THROUGH THE REMOTE ATTENDANCE AT DIFFERENT EVENTS

EFIB (European Forum for Industrial Biotechnology & the Bioeconomy) was delivered digitally this year from 5th to 9th October, where delegates are provided with an update on the status and outlook of biobased industries. In the last decade, EFIB delegates, exhibitors, sponsors and speakers have been showcasing innovative products and processes that deliver solutions to the UN Sustainable Development Goals.

Delivering on this opportunity, CETEM has attended this forum with a poster presentation “Biotechnological development of sustainable additives for application in wood coatings” to address the needs of traditional industry to develop new innovative and sustainable products, processes and services thank to the implementation of new technologies as Key Enabling Technologies such as Biotechnology.

edudip Opening Plenary: How to advance sustainability and bioeconomy as part of a post-Covid green recovery?

Palm Oil Mill Effluent to Energy Program (Indonesia) GGGI

Current Gap

Indonesia is the world's largest producer of palm oil, contributing over 50% of global production. Renewable energy from Palm Oil Mill Effluent can be an efficient source of power generation for plantation operations and for neighboring communities as a source of rural electrification, but the business model needs to be proven.

Project Overview

- Design and implement in East and Central Kalimantan the Independent Power Producers business model for power generation from POME.
- Conduct independent evaluation process to select suitable project developer to implement the Power Purchase Agreement process with PT PLN (the state utility).

Impact

- Demonstrate viable business model POME waste to energy projects for rural electrification (total potential of 90MW in EK and 190MW* CK; projects to be developed ~2.0 MW each).
- Demonstrate how POME waste to energy can directly contribute in achieving the GoI's aspirational goal of reducing GHG emissions by at least 23% by 2030.

GGGI's Added Value

- GGGI will prove the technical and commercial viability of the project and arrange investment commitment.
- GGGI designing the entire program and getting it implemented.

EFIB 2020 Digital

Chat

EFIB 2020 Organisation Team

Welcome everyone to this year's #EFIB2020! We're happy to have you - please use Google Chrome as web browser for smooth functioning of the platform.

EFIB organisation Team

If you cannot hear anything, please press shift+cmd+r (for mac) or shift+alt+r (windows). Thanks!

All session access links will be sent via a daily email each morning. They are also available in the programme overview at the EFIB website.

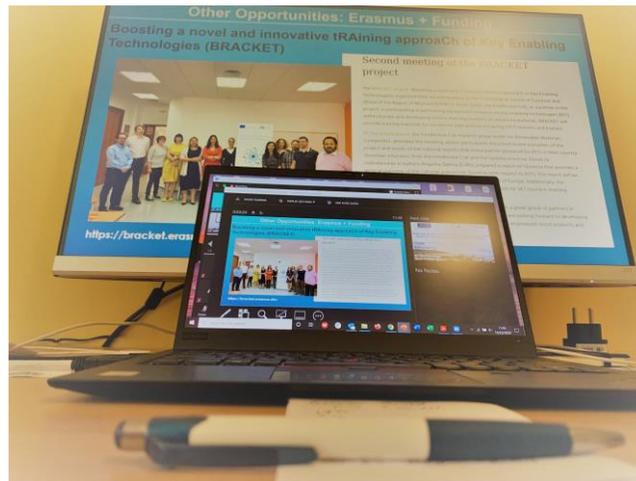
Kathryn Sheridan

Global Climate Fund (GCF) - who is behind that?

Every dollar spent on nature restoration brings nine dollars? Does anyone have a source for that? That's a powerful argument for environmental protection!

Paralelly, Innorenew, one of our Slovenian partner, attended the 4th Mediterranean Forum Sarajevo-Dubrovnik Constellation. This forum aims to contribute to the interconnection of the academic and business world all throughout the Mediterranean countries by addressing what is considered the most relevant fields of interest in contemporary society: digitalisation, data science, medicine, energy and migrations.

In addition to official speakers, all other valuable scientific insights presented throughout the conference and Prof. David DeVallance profited this opportunity to present BRACKET project to the different attendees of these online meeting.



ACTIVITIES IN THE NEXT PERIOD

- Guidelines on how to use of e-Learning Platform
- Real Verification of the BRACKET training course
- The Final conferences in all the partner countries in April 2021
- The final Transnational Project Meeting will be held in April 2021

KEY ENABLING TECHNOLOGIES AND INDUSTRY 4.0.

KETs are transforming businesses through innovative and disruptive technologies, therefore, they are interlinked to Industry 4.0, especially the Internet of Things (IoT). In fact, accelerating technological capacities embark that the future will be based on I4.0 technologies and KETs, e.g. AI, robots or drones. It is about combining information technologies with production engineering and creating new innovative products and solutions. Regardless of the specific business industry, process automation and the use of technology are emerging as key components for future competitiveness and development. Digitalisation challenges the search for ways to replace more and more day-to-day tasks and processes with automated systems and tools. It is clear that this helps to reduce costs in the long run, improve efficiency and look again for new opportunities for improvement.

Industry 4.0 focuses on how existing and new equipment can be used in innovative ways: robots work with factory workers, stand-alone lines complement existing production lines, sensor networks and communication technologies are used to allow designers to communicate with factory workers; intelligent machines/devices and software work autonomously through the 'cloud', as well as with suppliers and customers, connecting the technology virtual environment to the real environment, etc.

Industry 4.0 will help make smart machines smarter, factories more efficient, processes less wasteful, production lines more flexible and productivity higher. Already, it is being adopted by some of the world's largest industrial companies like Siemens, GE, Boeing and including BASF, Bosch, Daimler and Deutsche Telekom in Germany where the Industry 4.0 movement began. The momentum is building elsewhere as well, particularly in the United States, Japan, China and EU.

Definitely worth mentioning in the context of a global pandemic. All over the world, workplaces were required to adapt to a whole new environment, as employees were instructed by governments to work from home. Many industries have now gone digital by necessity and in the process have generated new demands on IT infrastructure. An April 2020 report from McKinsey shows how in the wake of the pandemic, companies have been quick to adopt new technologies such as manufacturing execution systems (MES) to optimise production by centralising data stores, as well as digital heat maps to help make sense of the data, and additional sensors to help diagnose problems in manufacturing processes. (more on <https://www.mckinsey.com/industries/advanced-electronics/our-insights/coronavirus-industrial-iot-in-challenging-times#>)

Let us give you a hand in learning more on the topic soon via the BRACKET online course!

IRMO

Institut za razvoj i međunarodne odnose
Institute for Development and International Relations



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CentroTecnológico
del Mueble y la Madera
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CETEM



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