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BiZeolCat 

Bifunctional Zeolite based Catalysts and
Innovative process for Sustainable
Hydrocarbon Transformation GRANT
AGREEMENT N°: 814671

NEWSLETTER Nr. 1

30th June 2019



Welcome from the Coordinator

Welcome to the first edition of the Bizeolcat project Newsletter!

I am delighted to introduce you BIZEOLCAT Newsletter.

BIZEOLCAT is an H2020 project funded under which foresees an important task which is the contribution to the delivery of new technologies and business models in the petrochemical sector, helping it to govern the transition to circular economy. BIZEOLCAT is addressing the use of light alkanes as raw material for specialty chemical industry. As a result, Europe will enhance competitiveness and impact for jobs and growth.

The methodology of the project will evolve from laboratory to pilot scale

demonstration. Catalysts, reactor design and operational conditions will be optimized for different feedstock at lab-scale and then upscaling will be carried out. The optimisation of these catalytic processes will bring enormous advantages for increasing their exploitation.

In this newsletter, you will find the list of partners, information about the kick-off meeting that took place on January 2019, the announcement of the Brokerage Event in CIS 2019 and the date of the next issue. BIZEOLCAT is launching a revamped website with a new look and design. Some important updates have taken place to improve the layout of the website. Discover the new website.

Stay tuned for last developments in catalytic processes for the petrochemical sector. I am certain that our newsletter will be able to publish news about results from our work very soon.

I look forward to your questions or collaboration opportunities.

Yours sincerely

Ana Villacampa

BIZEOLCAT coordinator, Eurecat

The Project

The growth in world energy demand from fossil fuels has played a key role in the fast increase in CO₂ emissions. Since the Industrial Revolution, annual CO₂ emissions from fuel combustion have dramatically increased from near zero to over 33 GtCO₂ in 2015¹. Technical improvements in catalysis are crucial to reduce this environmental burden in alignment towards the climate actions targets agreed in COP21².

BIZEOLCAT addresses the need for lowering the carbon footprint of refining industry, contributing to an evolving scenario of sustainable economy in such field.

BIZEOLCAT's main objective is to obtain light olefins and aromatics using light hydrocarbons (C₁, C₃ and C₄) by implementing new procedures, involving innovative catalysts synthesis methodologies and novel reactor design and processing, demonstrating their improvement in sustainability and economic scalability in existing industrial processes.

Upbringing the use of light alkanes as raw material for specialty chemical industry and not as feedstock for fuels in the current oil refining process, BIZEOLCAT contributes to this transition.

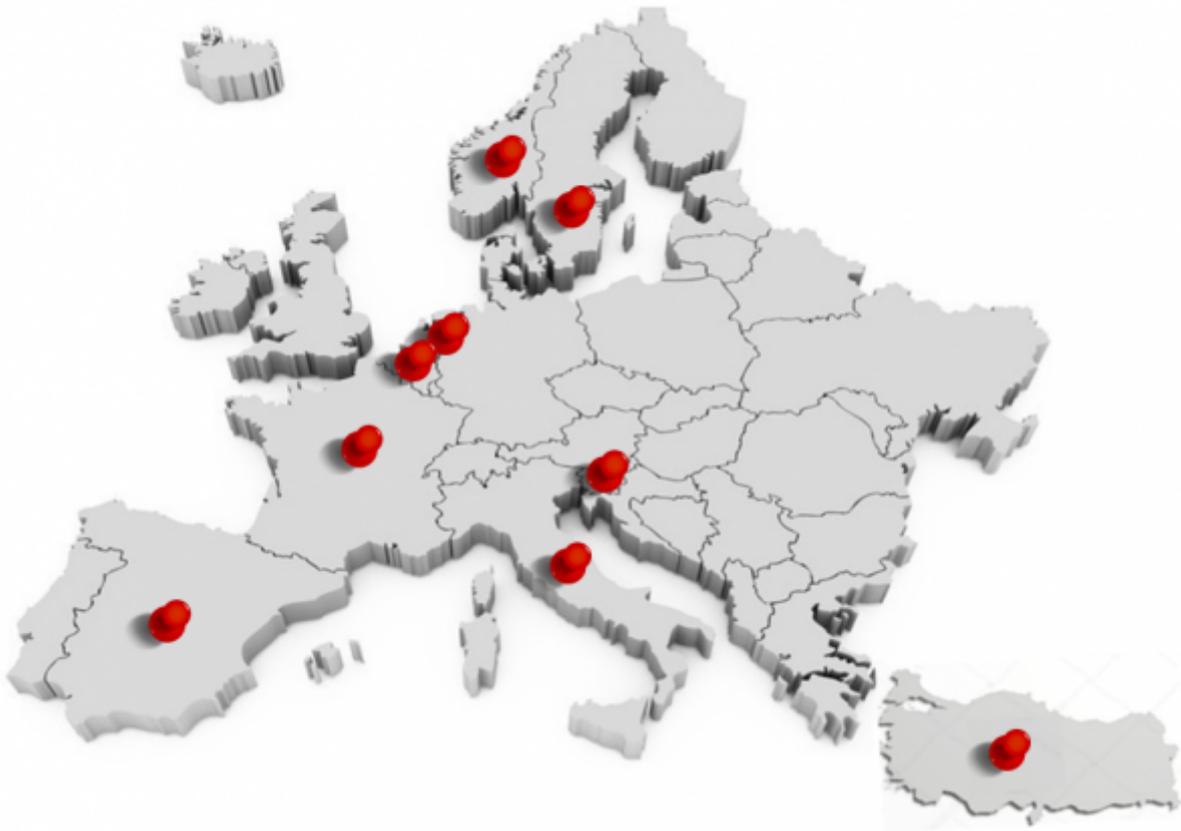
Existing industrial approaches in the field of catalytic conversion of alkanes into high value chemicals have been developed worldwide with catalysts that lack site homogeneity with only a small fraction of active species.

The novelty relies on a unique preparation methodology providing 100% active sites and maximum dispersion of the active phase on the support.

Consequently, with these novelties, the proposed processes will be more energy and cost efficient.

The Consortium

Under coordination of Fundacio EURECAT, the Consortium brings together 13 Partners of 9 Countries among which companies, research centers and Universities (see Figure 1 below).



eurecat

www.eurecat.org

The Coordinating Institution of the BiZeolCat project is Eurecat.

Eurecat is currently the leading Technology Centre in Catalonia, and the second largest private research organization in Southern Europe. Eurecat manages a turnover of 43M€ and more than 600 professionals, is involved in more than 160 R&D projects and has a customer portfolio of over 1.000 companies.



www.uio.no

University of Oslo (UiO)

The University of Oslo (UiO) is the second largest and oldest University in Norway, having more than 25 000 students. The Department of Chemistry at UiO is ranked as the premier academic research institute in chemistry in Norway.



www.tue.nl

Eindhoven University of Technology (TU/e)

Eindhoven University of Technology (TU/e) is a research university specialized in engineering science & technology. The research group Inorganic Membranes and Membrane Reactors, involved in BiZeolCat, is part of the faculty of Chemical Engineering and Chemistry at the Eindhoven University of Technology.



www.sintef.no

SINTEF

SINTEF is one of Europe's largest independent research institutes with approximately 2100 employees and an annual revenue of about 310 M€, mainly originating from bilateral industrial research contracts and participation in publicly-funded European and Norwegian research projects.



<http://www.cnrs.fr/>

www.c2p2-cpe.com

CNRS, “Centre National de la Recherche Scientifique” (French National Centre for Scientific Research)

CNRS, “Centre National de la Recherche Scientifique” (French National Centre for Scientific Research) is the largest fundamental research organization in Europe, with 33,000 tenured researchers, engineers, and support staff and carries out research in all fields of knowledge under the responsibility of the French Ministry of Education and Research.



<https://www.ki.si/en/>

National Institute of Chemistry

The National Institute of Chemistry in Slovenia, has 300 employees, of which around 266 carry out the research work in 13 departments and 2 centres; 136 of these have the doctorate of science degree.



www.tupras.com.tr

Tüpraş, Türkiye Petrol Rafinerileri A.Ş.

Tüpraş is Turkey’s largest industrial enterprise, with 28.1 million tones crude oil processing capacity. Tüpraş has four refineries operating in four different cities with more than 5000 employees.



www.perstorp.com

Perstorp A.B.

Perstorp is based in Sweden and is one of the world leading specialty chemical companies focusing on sustainable coating, adhesives, feed and food and plastic material market segments. Furthermore, Perstorp AB is a world leader in a number of sectors for specialty chemicals in a multitude of applications.



www.strane-innovation.com

Strane Innovation

Strane Innovation is a SME start-up studio aiming to generate tomorrow's sustainable growth. It is specialized in the sectors of sustainable development (energy, water, transport, environment, smart systems). It has been created in 2013 and employs 12 people including CEO, Startup makers, Entrepreneurs, Researchers and Project managers, Its headquarters are located in Gif-sur-Yvette, France.



www.eric-aisbl.eu

European Research Institute of Catalysis A.I.S.B.L. (ERIC)

The "European Research Institute of Catalysis A.I.S.B.L.", is an international non-profit Belgian association, gathering together 22 major European Institutions with large interest on catalysis related activities.



www.une.org

Spanish Association for Standardization (UNE)

The Spanish Association for Standardization (UNE) is a non profit-making, private, independent and multisectoral organisation, recognised at National, European and International level. Through the development of technical standards helps improve the quality and competitiveness of companies, products and services.



<https://www.mairetecnimont.com/en/business-operations/nextchem>

NextChem

NextChem is a company owned by KT Kinetics Technology S.p.A., an international process engineering contractor with over 35 years' experience in designing and implementing plants for the chemical, petrochemical and refining industries.



www.cepsa.com

Compañía Española de Petróleos, S.A.U. (CEPSA)

Compañía Española de Petróleos, S.A.U. (CEPSA) is a global, integrated company operating across the entire oil and gas value chain that develops its businesses across five continents. CEPSA has more than 10.000 professionals across the world and is one of the leading energy companies in Spain.

The Kick-Off Meeting

On the last 9th and 10th January 2019, in Barcelona, the Kick-Off meeting the BIZEOLCAT project was organized by EURECAT. All the partners were present and the meeting was a fruitful occasion to share the vision and the objectives of the project.



Future Activities

BIZEOLCAT will participate to the **Brokerage Event** in the conference “Chemistry meets Industry and Society” due in Salerno from the 28th to the 30th August 2019 (<http://cis2019.com/>).

The Brokerage Event will take place on the 28th August afternoon.

**CHEMISTRY MEETS INDUSTRY AND SOCIETY
A CREATIVE SHOWCASE CONFERENCE**

SALERNO - ITALY, 28-30 AUGUST 2019

Società Chimica Italiana

FEDERCHIMICA CONSUMATORI FARINDUSTRIA EuChemS European Chemical Society

Chemistry meets Industry and Society
A creative showcase conference Salerno (Grand Hotel), 28-30 August 2019

The 6th Month Meeting of the BIZEOLCAT project is due the next 3rd – 4th July 2019 in Oslo at the SINTEF premises.



BIZEOLCAT Website

Visit the BIZEOLCAT project at the address – www.bizeolcat.eu and follow the project on LinkedIn, Twitter and YouTube.

Let us have your comments!

The next issue of the Newsletter will be release in December 2019



Bizeolcat H2020 Project GRANT AGREEMENT N°: 814671
Company Address, Phone Number
Bizeolcat 2019

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