

Press Release

Industrielle Biotechnologie Bayern Netzwerk GmbH

6th July 2015

“Waste2Value“: Creating Value from Residues and Waste

Partner in cooperation network draw a first balance

Martinsried (Germany), 6th July 2015 – The partners of the cooperation network "Waste2Value" met on 25th June to exchange ideas. This was the second meeting in this year and the interim results are impressive: there are nine ideas for first research projects that will be finalized by the end of 2015 and submitted to appropriate funding agencies. In their various research projects, the network partners want to obtain specialty and bulk chemicals from residual and waste materials. These bio-based chemicals are then supposed to be further processed to products. Thus, existing crude oil-based products will be replaced by bio-based, environmentally friendly innovative products. In addition, extracted plant substances with specific features shall be added to products to give them completely new functions. Fragrances, flavorings or bioplastics can be produced likewise; furthermore, the use in cosmetics is also possible.

Residues of forestry and agriculture, sawmill, paper and food industry will be used as resources, but no food or feed. Alone in Germany, every year more than 30 million tons of waste materials accumulate, e.g. bark waste, potato crop residues or paper sludge. Those materials that cannot be used for fertilization, composting or as substrates in biogas plants, must be disposed of – partly with considerable effort and corresponding costs. With their projects, the partners in the cooperation network "Waste2Value" increase the value of these raw materials and create new utilization ways. As well as the economy, the environment benefits since the chemicals are produced from renewable resources and not from fossil oil.

The cooperation network "Waste2Value" is funded until the end of 2015 by the German Federal Ministry for Economic Affairs and Energy (BMWi) within the program "Central Innovation Program SME". The network management is performed by Industrielle Biotechnologie Bayern Netzwerk GmbH (IBB Netzwerk GmbH). In the first six months, the management has expanded the network to three partners and drafted the first research and development projects. The company will continue these activities in the future. Furthermore, IBB Netzwerk GmbH is working on a website and will develop concepts to facilitate market entry. For these activities, the management receives a total of around 150,000 euros for the first year by the BMWi and the network partners. Upon successful completion, further funding for two to three years is possible.

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About the ZIM cooperation network „Waste2Value“

In the ZIM cooperation network "Waste2Value", partners from industry and academy with different expertise work together under coordination of IBB Netzwerk GmbH: from the provision of raw materials, fermentation, extraction and catalytic processing, to process development and refurbishment or modification to the use in end products.

The network partners focus on the use of residual and waste streams from, for example forestry and agriculture, the food processing industry or the wood and paper industry. These are the resources to extract specialty and bulk chemicals, such as butanol or phytochemicals (e.g. phenolics, terpenes, hydroxy fatty acids, waxes). As soon as these chemicals are extracted, the partners will process them further either to innovative and high quality products and/or add them to existing products to improve their properties.

The approach of "Waste2Value" is to replace oil-based products with products derived from renewable resources that have at least equivalent or even better performance than the "fossil oil products". This supports the change from an oil-based to a more bio-based society.

The ZIM cooperation network "Waste2Value" is funded by the German Federal Ministry for Economic Affairs and Energy (BMWi). Funding is initially restricted to January to December 2015. Further funding over two to three years is possible. More information: <http://www.ibbnetzwerk-gmbh.com/de/sub-netzwerke/zim-kn-waste2value/uebersicht/>

The Partners in the ZIM cooperation network „Waste2Value“

The network currently includes the following 20 partners: albi GmbH & Co. KG, ANiMOX GmbH, Birken AG, Dr. Straetmans Chemische Produkte GmbH, Fritzmeier Umwelttechnik GmbH & Co. KG/Abteilung inocre®, Kunstmühle Simon Kraus GmbH, N-Zyme BioTec GmbH, provenion GmbH, Fuchs Schmierstoffe GmbH, Sensient Colors Europe GmbH, UPM GmbH, Vermop Salmon GmbH, Fraunhofer Projektgruppe BioCat des Fraunhofer IGB, Fraunhofer Institut für Umwelt-, Sicherheits- und Energietechnik UMSICHT, Fraunhofer Institut für Verfahrenstechnik und Verpackung IVV, Pilot Pflanzenöltechnologie Magdeburg e.V. (PPM), Technische Universität München, Fachgebiet Industrielle Biokatalyse, Technische Universität München, Lehrstuhl für Mikrobiologie, Universität Bayreuth, Lehrstuhl für Anorganische Chemie II, Universität Leipzig, Institut für Technische Chemie.

About Industrielle Biotechnologie Bayern Netzwerk GmbH

Industrielle Biotechnologie Bayern Netzwerk GmbH (IBB Netzwerk GmbH) is a network and service organization in the field of Industrial Biotechnology. The aim is to catalyze the conversion of valuable scientific knowledge into innovative, marketable products and processes. IBB Netzwerk GmbH performs the management of ZIM cooperation network "Waste2Value" and will continue to support the network partners in the development of research and development projects. The company is located in Martinsried near Munich, Germany. More information: www.ibbnetzwerk-gmbh.com.

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