

# EUROPEAN BIOECONOMY SCENE 2019

WELCOME TO HELSINKI 8–10 JULY 2019

## EXCURSION: CIRCULAR BIOECONOMY 2

Date: 10 July 2019

Location: Helsinki Capital Region

Time: 8.30–16.00

Companies combining the concept of a bioeconomy and the circular economy are well presented in the capital region. During the day, we will visit the largest wastewater treatment plant in the Nordic countries in Viikinmäki, the VTT Food research team and an innovation and the demonstration platform for bioeconomy and circular economy businesses (Bioruukki).

Bus transport is provided for the excursion. After the last stop, the bus will take participants to Helsinki Airport or back to the hotel.

A light snack will be served during the excursion.

08.30 **Pick-up from the hotel Scandic Park Helsinki**

09.00 **Wastewater treatment plant in Viikinmäki**

The **Viikinmäki wastewater treatment plant**, located in Helsinki, is the largest treatment plant in Finland and in the Nordic countries. In total, it processes wastewater from industries and around 800,000 residents in Helsinki and its neighbouring municipalities.

Most of the plant infrastructure was built into the bedrock. The plant was commissioned in 1994. Now, together with the discharge tunnel into the open sea, it has replaced separately operated small-scale wastewater treatment plants. Around 85 percent of the flow conducted to the treatment plant is domestic wastewater and the remaining 15 percent is industrial wastewater.

10.30 **Bus transport**

11.15 **VTT Food research team**

**VTT Food research team** / Otaniemi, Espoo VTT Food research is focusing on developing innovations that enable transition towards more sustainable food ecosystem. The team aims at developing new sustainable food manufacturing solutions via utilizing novel processing approaches and multi-functional hybrid ingredients that meet consumer needs and preferences. During the visit we will tell you more about our food research, present some case example (e.g. cellular agriculture, personalized nutrition) and also describe how we have developed new food products from under-utilized fish species (case example pulled Baltic herring).



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12.30 **Bus transport**

13.00 **VTT Bioruukki Pilot Centre — an ecosystem for process industry scale-up and demonstrations**

**VTT Bioruukki** is an open access, shared pilot facility that offers a unique platform for scaling up new technology and process concepts and innovation for business opportunities in the circular bioeconomy. The 10,000 m<sup>2</sup> Centre brings together under one roof facilities for biomass and textile fibre processing, thermochemistry and green chemistry. An extension to the Centre will be ready in 2020. The Centre forms the core of Cleantech Garden in the City of Espoo. Currently, several startup companies use VTT Bioruukki facilities to scale up their operations and an ecosystem is forming for a digital platform for bio-based value chains.

During the visit, we will learn about some of the highlights of the Finnish circular bioeconomy innovations in the making. The visit also includes the “Novel Biomaterials” exhibition and a tour of the pilot centre.

16.00 **Excursion ends, bus transport to Helsinki Airport or the hotel**

Latest version of the excursion programme is available on [www.bioeconomy.fi/eubioscene19](http://www.bioeconomy.fi/eubioscene19)

For further information, please contact: [ulla.palander\(at\)tem.fi](mailto:ulla.palander@tem.fi)



Ministry of Economic Affairs  
and Employment of Finland