SmartChain
Blue Bioeconomy Solutions

CIRCULARITY IN BLUE BIO VALUE CHAINS

STAKEHOLDER WEBINAR

21 MARCH 14:00 – 15:30 CET

AGENDA:

· **Introduction of the SmartChain project** – *Rita Vasconcellos L. d'Oliveira Bouman, Project Co-ordinator, SINTEF*

· **Circularity in blue bioeconomy value chains: metrics, challenges and opportunities** –
Nina Saviolidis, University of Iceland
This presentation will discuss the concept of circularity in blue bioeconomy value chains including metrics for assessing circularity and the relation of circularity to sustainability. The presentation will conclude with some of the challenges and opportunities for increased circularity in fisheries and aquaculture in Norway and Iceland.

· **Towards a sustainable circular seafood value chain: A system dynamics perspective** – *Ali Ghavamifar, DTU*
The circular economy seeks to reduce the wasteful use of processed by-products, increase the frequency of reuse, and ease the burden on natural resources and ecosystems. In the seafood value chain, significant amounts of by-products, waste, and losses are produced at various stages, including fisheries, post-catch handling, processing, distribution, and consumption. Regarding the critical points where losses and waste occur in the blue bioeconomy value chains, our study aims to develop a simulation approach based on System Dynamics (SD) modelling. Our simulation framework will facilitate the discovery of intervention points that can effectively increase the efficiency and circularity of the seafood system. The outcome of the simulation scenarios will provide decision support towards enhanced sustainability performance of the supply chain systems. Our goal is to build a model enabling the prediction of how various factors, including government policies and regulations (e.g. taxation), collaboration and stakeholder engagement, influence sustainability within the framework of a circular economy.

Questions and answers - *all participants*

Nina Saviolidis
UNIVERSITY OF ICELAND

Nína is a post-doctoral researcher at the Applied Supply Chain Systems (ASCS) Research Group researching the potential advancement of circular blue bioeconomy value chains. Her research interests include sustainability indicators, environmental policy making, pro-environmental behaviour, and organizational change. Recent research has focused on stakeholder engagement to understand the transformation potential of food value chains and systems

Ali Ghavamifar
DTU

Ali Ghavamifar is a post-doctoral researcher at Technical University of Denmark (DTU) in the Department of Technology, Management, and Economics. With a Ph.D. in Industrial Engineering, he specializes in logistics and supply chain optimization and management. Currently, he is involved in the SMARTCHAIN project, focusing on developing a simulation framework to assess scenarios aimed at enhancing sustainability within the seafood value chain.

SINTEF · seagarden · DTU · UNIVERSITATIS ISLANDIAE SIGILLUM · BRIM · MarkMar · Beia

Blue BIO COFUND · Technology Development Fund · The Research Council of Norway · Innovation Fund Denmark · uefiscdi