



Research School for Operations  
Management and Logistics

**Modelling optimal routes for process synthesis in agrofood industry**

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This PhD project is part of the research cluster “Mild Fractionation for Food” of the Institute for Sustainable Process Technology ([www.ispt.eu](http://www.ispt.eu)). The goal of this research cluster is to explore new production concepts and technologies for the valorisation of agro-materials. It aims to develop tools for evaluating new processing configurations focussing on product and process functionality, material efficiency and economics. The project is hosted and supervised by the Operations Research and Logistics group of Wageningen University and Research, and co-supervised by the Food Process Engineering group of the same university. Methods from the domains of these groups are used to evaluate food process designs in the context of their supply chains. Specific characteristics of food products and supply chains, such as seasonality and perishability, are considered while finding optimal routes to convert agro-materials into a product portfolio with minimal low-value side streams.