RESEARCH PROJECT WITH PUBLIC FUNDING 2023

TOWARDS BETTER SUPPLY CHAIN PREDICTIONS (BESCHAP)
€50,000

WHAT IS THE AIM OF THE RESEARCH PROJECT?

The supply chain is composed by suppliers, manufacturers, distributors, retailers and service providers. The main challenges are the complexity of connections between suppliers, distributors and customers. The goal is to develop a new forecasting method for supply chain.

WHO IS THE PRINCIPAL INVESTIGATOR?

Olga Klopp is a Professor of Statistics at the ESSEC Business School and is the Director of the Double Degrees ESSEC-Centrale Supelec and ESSEC-ENSAE

ABSTRACT:

- The goal of the project is to develop a new forecasting method for supply chains based on Network AutoRegressive processes (NAR). We believe that a new prediction method based on the NAR model could provide more efficient forecasting for supply chains at the same time integrating the sustainability concept, such as the CO_2 emission calculations, to manage the pollution of goods transportation.

- An important point is how to enhance the performance of the distribution process with demand forecasting in the supply chain context. This is a promising direction as few studies focus on the integration of demand forecasting and the distribution process requiring expertise both in statistics and operational research.