

Prof.dr. Lori Tavasszy (TU-Delft)

## Modelling complexity in freight transport and logistics systems

Although freight and logistics systems can easily be characterized as complex, our modelling skills leave a lot to be desired in this respect. Many, if not most models built to describe, predict or optimize these systems use oversimplified representations, ignoring important issues such as dynamic and stochastic behaviour. This makes it difficult to study contemporary issues such as deep uncertainty, emergent behaviour and resilience of systems. We explore some typical phenomena around complexity in logistics and discuss alternative modelling approaches and research opportunities.