

ABSTRACT

- **The Bullwhip effect is one of the main causes of instability in the management demand process along the Supply Chain. Nowadays there are different supply chain management structures based on collaboration among the companies which integrate the same chain. That collaboration may reduce the Bullwhip Effect.**

In this paper some of said structures are modelled and simulated under Vensim© software, in particular, Vendor Managed Inventory (VMI) and Electronic Point of Sales (EPOS). Simulation results are compared to those offered by Traditional Supply Chain. Moreover these mentioned Supply Chain Management Models are built under Systems Dynamic Methodology, which allow the manager to recreate different management scenarios and choose those which match with the company targets (tactic or operative ones).

- **Keywords: Logistics, Bullwhip effect, Systems Dynamics, Supply Chain Management, Vendor Managed Inventory (VMI), Electronic Point of Sales (EPOS), Simulation.**