

SUPPLY CHAIN RESILIENCE: EVIDENCE FROM EMPIRICAL STUDY OF BULLWHIP AND REVERSE BULLWHIP EFFECTS ACROSS NATIONS

Dr. Xiaohui (Eva) Xu, College of Business, California State Polytechnic University, Pomona, Pomona, California. xxu@cpp.edu

ABSTRACT

Recent scattered research has indicated some sectors consistently amplify while others dampen the price or demand variances in supply chains. We propose to examine the bullwhip (BWE) or reverse bullwhip (RBE) patterns in supply chains in a few countries, where the industry level statistics are available. Furthermore, a regression model will be utilized to identify contributing factors related to a sector's variance regulation behaviors. The prediction is that we will observe Supply Chain Resilience in the data, i.e., sectors operating in an unfavorable environment tend to smooth the supply chain fluctuation.

Keywords: Bullwhip Effect, Reverse Bullwhip Effect, Price Variabilities, Demand Variabilities, Empirical Study, Multiple Nations