

TEAM ID	PNT2022TMID42656
PROJECT NAME	INVENTORY MANAGEMENT SYSTEM FOR RETAILERS
DOCUMENT TYPE	LITERATURE SURVEY

### 1. A Case Study of Inventory Management System for an International Lifestyle Product Retailer in Bolivia.

Author – Boris Herbas Torrico , Sebastian Alem Oyola - Universidad Catolica Boliviana San Pablo Cochabamba.

Outcome - The implementation of reactive flexibility practices can greatly improve inventory practices. Yet, the limited sample size of their study limits the generalizability of results. The particular business characteristics of case study limit the capacity to extend forecasting results to other products and industries. However, the framework of strategies used to reduce supply uncertainty can be used in other industries.

### 2. Improving Inventory Management in the Retail Store: The Effectiveness of RFID Tagging across Product Categories.

Author – Bill C. Hardgrave – Auburn University, Sandeep Goyal – University of Louisville, John Aloysious – University of Arkansas.

Outcome - RFID tagging ameliorates the effects of five (item cost, sales velocity, sales volume, inventory density and product variety) of these determinants of inventory record inaccuracy (they experimentally control for the effects of the other two determinants: audit frequency and distribution structure). For example, the (positive) influence of sales velocity on inventory record inaccuracy is moderated by inventory visibility due to RFID tagging.

### 3. Inventory Management Systems: Control and Information Issues.

Author – Fred Janssen – ASML

Outcome – In this thesis mathematical models have been used here for inventory theory. Where they deal with information issues related with demand process. Specifically, how to control products that have intermittent demand. Also, two demand management strategies are investigated for smoothing demand. The first re-routes large customer orders to alternative stockpoint, whereas the second strategy splits a customer order in a time-phased delivery scheme.

Other than this some of the referred links are as follows:

<https://www.researchgate.net/publication/281063359> Design of a Computerized Inventory Management System for Supermarkets

<https://www.researchgate.net/publication/284019763> RFID for Managing Inventories of Perishables in Indian Retail Industry

<https://www.researchgate.net/publication/355794070> Smart Inventory Management System and Predictive Analysis

In the above research papers the common problem they undergo is loading larger amount of data. Also, the problem mainly lies with integration where we have to utilise the cloud as well as we need to use IoT techniques as well.