









#### IV. CONCLUSION

This paper proposes the nine logistic performance indicators (9 LPIs) developed by Banomyong and Supatn [3]. They are superior to the LPIs of the World Bank organization [2] in terms of industrial and quantitative evaluation. The 9 LPIs are hence adopted for continuous improvements in a case of printing and packaging company in Thailand. It is found that the individual LPIs are interrelated. In other words, a change of one LPI has effects on other LPIs. The effects can be positive and negative, direct and indirect. However, the 9 LPIs of Banomyong and Supatn [3] are incapable of indicating such the LPI interrelations. This is recommended as a future study.

#### REFERENCES

- [1] Department of international trade promotion, Thailand printing business, 2014
- [2] The World Bank organization, The logistics performance index and its indicators, pp. 47-50, 2014
- [3] R. Banomyong, and N. Supatn, Developing a supply chain performance tool for SMEs in Thailand, *Supply Chain Management: An International Journal*, 16(1), pp.20-31, 2011
- [4] H. A. Elmaraghy, and N. Mahmoudi, Concurrent design of product modules structure and global supply chain configurations, *International Journal of Computer Integrated Manufacturing*, 22, pp. 483-493, 2009
- [5] A. Jaegler, and P. Burlat, Carbon friendly supply chains: A simulation study of different scenarios, *Production Planning and Control*, 23, pp. 269-278, 2012
- [6] F. You, and I. E. Grossmann, Design of responsive supply chains under demand uncertainty, *Computers and Chemical Engineering*, 32, pp. 3090-3111, 2008
- [7] K. Boonsothonsatit, S. Kara, S. Ibbotson, and B. Kayis, Development of a Generic decision support system based on multi-Objective Optimisation for Green supply chain network design (GOOG), *Journal of Manufacturing Technology Management*, 26(7). pp. 1069-1084, 2015
- [8] E. C. Jones, R. B. Franca, C. N. Richards, and J. P. Carlson, Multi-objective stochastic supply chain modeling to evaluate tradeoffs between profit and quality, *International Journal of Production Economics*, 127, pp. 292-299, 2010
- [9] B. Grant, M. Lambert, R. Stock, and M. Ellram, *Fundamentals of Logistics Management*, McGraw-Hill, Maidenhead, 2006
- [10] Logistics service information center, *Industrial performance index*, 2010

#### BIOGRAPHY

**Kanda Boonsothonsatit** is a lecturer at the Institute of Field Robotics, King Mongkut's University of Technology Thonburi, Thailand and also the head of strategic planning at I AM (Innovative and Advanced Manufacturing) Research Group. She received her Ph.D. degree in Manufacturing Engineering and Management from The University of New South Wales (UNSW), Australia. Her research expertise is system dynamics modelling in supply chain, logistics, and operations management, as well as strategic management for competitiveness.