

## Accepted Manuscript

A cost - efficient method to optimize package size in emerging markets

Harol Mauricio Gámez Albán , Osman Camilo Soto Cardona ,  
Christopher Mejía Argueta , Alfonso Tullio Sarmiento

PII: S0377-2217(14)00759-0  
DOI: [10.1016/j.ejor.2014.09.020](https://doi.org/10.1016/j.ejor.2014.09.020)  
Reference: EOR 12507



To appear in: *European Journal of Operational Research*

Received date: 14 December 2013  
Accepted date: 18 September 2014

Please cite this article as: Harol Mauricio Gámez Albán , Osman Camilo Soto Cardona , Christopher Mejía Argueta , Alfonso Tullio Sarmiento , A cost - efficient method to optimize package size in emerging markets, *European Journal of Operational Research* (2014), doi: [10.1016/j.ejor.2014.09.020](https://doi.org/10.1016/j.ejor.2014.09.020)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**A cost - efficient method to optimize package size in emerging markets**

Harol Mauricio Gámez Albán

LOGYCA / RESEARCH. Av. El Dorado #92-32 Torre G5, Piso 5, Ed. Connecta, Bogotá,  
Colombia. [hgamez@logyca.org](mailto:hgamez@logyca.org)

Osman Camilo Soto Cardona

LOGYCA / RESEARCH. Av. El Dorado #92-32 Torre G5, Piso 5, Ed. Connecta, Bogotá,  
Colombia. [osoto@logyca.org](mailto:osoto@logyca.org)

Christopher Mejía Argueta<sup>1</sup>

LOGYCA / RESEARCH. Av. El Dorado #92-32 Torre G5, Piso 5, Ed. Connecta, Bogotá,  
Colombia. [cmejia@logyca.org](mailto:cmejia@logyca.org)

Alfonso Tullio Sarmiento

University of La Sabana. Campus del Puente del Común, Km. 7, Autopista Norte de  
Bogotá. Chía, Cundinamarca, Colombia. [alfonso.sarmiento@unisabana.edu.co](mailto:alfonso.sarmiento@unisabana.edu.co)

**Highlights**

- The packaging design has a strategic impact in the efficiency of the supply chain
- The optimization model defines the best quantity of units inside a package
- A set of scenarios is evaluated in a Colombian Fast-Moving Consumer Goods company
- A proposed initialization routine let to reduce the computational time
- All the scenarios yielded an average decrease of 8% in the total logistics cost

---

<sup>1</sup> Corresponding autor

Address: Avenida El Dorado #92-32 Torre G5, Piso 5, Edificio Connecta. Bogotá,  
Colombia

Telephone: +57 1 4254727 ext. 413

Mobile phone: +57 316 431 2747

E-mail: [cmejia@logyca.org](mailto:cmejia@logyca.org)

Download English Version:

<https://daneshyari.com/en/article/6896956>

Download Persian Version:

<https://daneshyari.com/article/6896956>

[Daneshyari.com](https://daneshyari.com)