# SCRM and Logistic Resilience in the Era Of Logistics 4.0

1 DAANOUNE Meryem ; 2 KHADIR Mohammed ; 3 RHALI Najoua ;

4 Rajaa HADRI ; 5 TAOUFIK; Wafaa ; 6 JAMMOU Omar

1 Laboratoire LRBIGOFE ; Faculté des Sciences Juridiques Economiques et Sociales. Ain Chock Casablanca. [meryemdaanoune1@gmail.com](mailto:meryemdaanoune1@gmail.com)

2 Faculté des Sciences Juridiques Economiques et Sociales. Ain Chock Casablanca. [Mohammed.khadir@univh2c.ma](mailto:Mohammed.khadir@univh2c.ma)

3 Laboratoire LRPFG ; ENCG Casablanca. [najouarhali@gmail.com](mailto:najouarhali@gmail.com)

4 Laboratoire LRBIGOFE ; Faculté des Sciences Juridiques Economiques et Sociales. Ain Chock Casablanca. [rajaahadri1@gmail.com](mailto:rajaahadri1@gmail.com)

5 Laboratoire LRBIGOFE ; Faculté des Sciences Juridiques Economiques et Sociales. Ain Chock Casablanca. [wafaaa.taoufik@gmail.com](mailto:wafaaa.taoufik@gmail.com)

6 Laboratoire LRBIGOFE ; Faculté des Sciences Juridiques Economiques et Sociales. Ain Chock Casablanca. [omar.jammou@gmail.com](mailto:omar.jammou@gmail.com)

**Abstract.** Supply chain risk management (SCRM) and logistics resilience are critical in today’s volatile environment. Intensive globalization, lean practices and recent crises (e.g., the COVID-19 pandemic) have exposed supply chains to unprecedented vulnerabilities. This paper presents a comprehensive literature review of SCRM and supply chain resilience, with a focus on the emerging context of Logistics 4.0. We discuss integrated risk management approaches,

Typologies of supply chain risks, and the role of dynamic capabilities in building resilience . We then examine new risk patterns introduced by digitalization (Industry/Logistics 4.0 technologies) . Finally, we summarize lessons from the COVID-19 disruptions and derive practical recommendations and directions for future research. The review emphasizes that a balanced strategy – leveraging real-time monitoring and advanced analytics while mitigating cyber/technical risks – is essential for a resilient Logistics 4.0 era.

***Keywords.*** *supply chain resilience; vulnerability; dynamic capabilities; Logistics 4.0.*