

THE RESILIENCE PERFORMANCE ASSESSMENT (RPA), AN INNOVATIVE SOLUTION TO MEASURE THE BALANCE BETWEEN ADAPTATION AND MITIGATION INVESTMENTS FOR INFRASTRUCTURES, BUILDINGS AND TERRITORIES

Soto Didier, Alonso Lucille, Edjossan-Sossou Abla-Mimi, Gonzva Michael, Hu FangYu, Sohounou Philippe, Vignote Camille, Ziv Nicolas, Selouane Karim

RESALLIENCE by SIXENSE¹

didier.soto@resallience.com; lucille.alonso@resallience.com; abla-mimi.edjossan-sossou@resallience.com; michael.gonzva@resallience.com; fang-yu.hu@resallience.com; philippe.sohounou@resallience.com; camille.vignote@resallience.com; nicolas.ziv@resallience.com; karim.selouane@resallience.com

Abstract – Academic paper.

The Resilience Performance Assessment (RPA) is an innovative solution allowing efficiency and balance between climate change mitigation and adaptation about the full infrastructure's life cycle, buildings and territories. It provides a holistic approach combining visualization of both current and future climate change impacts. It also brings vulnerability scoring of future and existing assets. This decision-making tool also allows the formulation of detailed recommendations and a costs-benefits assessment to estimate the resilience performance of each project or policy aiming at improving resilience and avoiding GHG emissions.

Keywords: Resilience, Climate Change, Decision-making-tool, Infrastructures, Exposure, Vulnerability, Costs-benefits

¹ Visit www.resallience.com for details