

Research Skills RSC777

Assignment 5

Prepared by
Abdulaziz Alarfaj



Part

1

Research Title : العنوان

"The research paper

"An Improvised Patchwork: Success and Failure in Cybersecurity Policy for Critical Infrastructure"

Article link :

https://dspace.mit.edu/bitstream/handle/1721.1/140630/10_1111_puar_13322.pdf?sequence=5&isAllowed=y

أهمية الدراسة : Significance of the Study

1. Theoretical Significance:

Filling the Gap in Literature: The study addresses a significant gap in the existing literature on cybersecurity by analyzing how different factors (such as cyber threats, regulatory pressure, and industry-government collaboration) interact across various sectors. Previous literature has focused on legal and political aspects but has not evaluated how these policies work in practice.

New Contribution: The study adds to the current body of knowledge by providing a qualitative analysis based on interviews with policymakers and senior private sector managers, offering new insights into the effectiveness of current policies.

2. Practical Significance:

Recommendations for Policymakers: The study offers practical recommendations for policymakers on how to improve cybersecurity policies for critical infrastructure. These recommendations can help enhance collaboration between industry and government and improve the defensive capabilities of various sectors.

Research Objectives : أهداف الدراسة

Analyze Influencing Factors: The study aims to analyze the factors that influence the success or failure of cybersecurity policies for critical infrastructure, including the nature of the cyber threat, regulatory pressure, and industry-government collaboration.

Evaluate the Effectiveness of Current Policies: The study aims to assess the effectiveness of current policies across different sectors, focusing on how these factors interact in each sector.

Provide Practical Recommendations: The study aims to offer practical recommendations for policymakers on how to improve cybersecurity policies, taking into account the unique characteristics of each sector.

Research Hypothesis : فرضية البحث

Hypothesis (H):

The success of cybersecurity policies for critical infrastructure is significantly influenced by the interplay of three key factors: the nature of the cyber threat, regulatory pressure, and the level of collaboration between industry and government. Sectors with severe cyber threats, strong regulatory pressure, and robust industry-government collaboration are more likely to achieve successful cybersecurity outcomes.

The hypothesis is formulated using Affirmative Hypothesis (الطريقة الأولى: فرضية الإثبات) because it predicts a positive relationship between the key factors (cyber threats, regulatory pressure, and collaboration) and the success of cybersecurity policies.