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ON

**IMPLICATIONS OF RECENT ECONOMIC REFORMS ON INDIA
IN CHANGING GLOBAL SCENARIO**



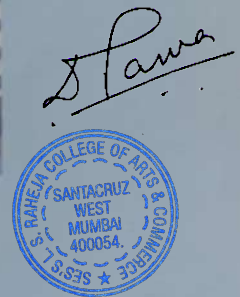
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IMPLICATIONS OF ECONOMIC REFORMS ON INDIAN ECONOMY
IN GLOBAL SCENARIO

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11) To Examine the Relationship between Safety & Security and Human Development

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Introduction

Measuring human development and factors related to this concept has been in the center of interest for both scholars and practitioners (Pineda, 2012). Enyekit, Ubulom, and Onuekwa (2011) opined that national development is impossible if human development is stagnated. According to Nelson and Quick (2012), safety, security, and human development are important drivers of employee motivation, which is a driver of turnover intention. Understanding factors that influence turnover intention could prevent employee turnover and the cost related to it. The purpose of this study was to contribute to the debate of employee turnover and human development by examining the relationship between safety and security index and human development.

Research question and Hypotheses

The goal of this study was to examine the relationship between safety and security index and human development. The independent variable was the safety and security index (S&S) and the dependent variable was the human development (HD). Using these variables, I sought to answer the following research question.

RQ: Does a statistically significant relationship exist between safety and security index and human development?

H₀: There is no statistically significant relation between safety and security index and human development index.

H₁: There is a statistically significant relationship between safety and security index and human development index.

Data Collection

The data used in this study was the Index of Indian Governance. This data set includes data on rule of law; sustainable economic opportunity; human development; participation and resource human; and safety and security of every Africa country. Every research has assumption. The underlining assumption of this study is that data used for the study represent the safety and security index as well as the true human development scores of the participant.

Data Analysis

According to Venkatesh, Brown & Bala (2013) researchers can examine relationships between two variables by comparing the mean of the dependent variable between two or more groups within the independent variable. Using the suggestion of Venkatesh et., I divided the participants into two groups based on their scores on the independent variable. I then compared the means of the two groups on the dependent variable.

Choice of Anova

In the process of examining the relationship between variables, researchers can use *t*-test or ANOVA to compare the means of two groups on the dependent variable (Green & Salkind, 2012). The main difference between *t*-test and ANOVA is that *t*-test can only be used to compare two groups while ANOVA can be used to compare two or more groups. In the process of selecting the data analysis technique for this study, I considered both ANOVA and *t*-test. The



advantage ANOVA has over *t*-test is that the post-hoc tests of ANOVA allow to better controlling type I error (Hopkins, 2000). Therefore, in order to control type I error, I chose ANOVA as data analysis technique for this study.

Descriptive Statistics

Descriptive statistics was conducted to observe the distribution of the data. Table 1 displays the summary of the descriptive statistics.

Table 1: Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Safety & Security	60	30.21	85.23	60.25	14.246
Human Development	60	28.82	80.12	58.23	12.12
Valid N (listwise)	60				

The study sample consisted of 60 participants. The independent variable, safety & security scores ranged from 30.21 to 85.23 with a mean of 60.25 and a standard deviation of 14.24. The dependent variable, human development scores ranged from 28.82 to 80.12 with a mean of 58.28 and a standard deviation of 15.491.

Hypothesis Testing: ANOVA

To prepare for the ANOVA test, participants were divided into two groups based on their scores on the independent variable, the safety and security index. The mean (82.447) of the safety and security was used as reference to divide the participants. Participants with safety and security score less or equal to the mean were put in the Low SS group and rest of the participants were put in the High SS group (SS=Safety and Security).

After dividing participants into two group, I conducted oneway ANOVA to examine the difference between the mean of human development among Low SS and High SS countries.

Table 2 displays the summary for the ANOVA.

N	Mean			
Low SS High SS	Low SS High SS	Mean Difference (High-Low)	F	P
	45.27 56.23	8.26	5.36	0.25

Note. Effect size $n^2=0.28$, $df=51$

A p value of less than 0.05 was required for significance. The ANOVA was significant $F(1, 51) = 5.36$, $p = 0.025$. This result allowed to rejecting the null hypothesis H_0 . The effect size was strong ($n^2=0.28$), with safety and security factor accounting for 28% of variance of human development.

Because the overall test was significant, a post-hoc test using Dunnett's C test was conducted to compare the mean of the two groups. The results indicated that countries with high safety and security score had significantly higher human development score than countries with low safety and security score. Table 2 shows the mean of the two groups.

Interpretation of the Results.

A one-way ANOVA was conducted to evaluate the relationship between safety and security index included two levels: Low SS and High SS. The dependent variable, was the human development score. The ANOVA was significant $F(1,51) = 5.36$, $p=0.025$. The strength of the relationship between safety and security index and human development as assess by $n^2=0.28$ was strong with safety and security factor accounting for 28% of variance of human

development. The results of the ANOVA indicate that there is a statistically significant difference between the two groups.

Conclusion

The purpose of this study was to examine the relationship between safety and security index, and the dependent variable, human development. The study divided the participants into two groups based on their scores on the safety and security index. The ANOVA results indicate that there is a statistically significant difference between the two groups in terms of human development.

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development. The results of the ANOVA allowed to rejecting the null hypothesis H₀ and supporting the conclusion that there is a statistically significant and strong relationship between safety and security score and human development.

Conclusion

The purpose of this study was to examine the relationship between safety and security index and human development. Descriptive statistics allowed to determining the mean of the independent variable safety and security index, and the dependent variable, human development. Using the mean of the independent variable as reference, I divided the participants into two groups including Low SS and High SS. Thereafter, I computed a one-way ANOVA to analyze the data. The ANOVA was significant, the effect size was strong, allowing to rejecting the null hypothesis, and indicating that there is a statistically significant relationship with strong effects size between safety and security index and human development.

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