**ภาคผนวก ช**

**ค่าลิสเรล**

LISREL 8.80 (STUDENT EDITION)

BY

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The following lines were read from file C:\Users\Administrator\Desktop\4 Dr.ณัฐวุฒิ 3 บท OK\ณัฐวุฒิ.spl:

A Model of LEADERSHIP

Observed Variables: LEADERSHIP MODEL VISION PARTICIPAT GOVERNANCE

Correlation matrix:

1.00

.339 1.00

.334 .127 1.00

.385 .006 .020 1.00

.816 .321 .232 .161 1.00

Sample Size: 227

Relationships

LEADERSHIP = MODEL VISION PARTICIPAT GOVERNANCE

PARTICIPAT = MODEL GOVERNANCE

GOVERNANCE = MODEL VISION

Options: me = ml

lisrel output: sc rs ef mi

Path Diagram

End of problem

A Model of LEADERSHIP

Correlation Matrix

LEADERSH PARTICIP GOVERNAN MODEL VISION

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LEADERSH 1.00

PARTICIP 0.39 1.00

GOVERNAN 0.82 0.16 1.00

MODEL 0.34 0.01 0.32 1.00

VISION 0.33 0.02 0.23 0.13 1.00

A Model of LEADERSHIP

Parameter Specifications

BETA

LEADERSH PARTICIP GOVERNAN

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LEADERSH 0 1 2

PARTICIP 0 0 3

GOVERNAN 0 0 0

GAMMA

MODEL VISION

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LEADERSH 4 5

PARTICIP 6 0

GOVERNAN 7 8

PHI

MODEL VISION

-------- --------

MODEL 9

VISION 10 11

PSI

LEADERSH PARTICIP GOVERNAN

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12 13 14

A Model of LEADERSHIP

Number of Iterations = 3

LISREL Estimates (Maximum Likelihood)

BETA

LEADERSH PARTICIP GOVERNAN

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LEADERSH - - 0.27 0.71

(0.03) (0.04)

8.10 19.91

PARTICIP - - - - 0.18

(0.07)

2.55

GOVERNAN - - - - - -

GAMMA

MODEL VISION

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LEADERSH 0.09 0.15

(0.03) (0.03)

2.63 4.56

PARTICIP -0.05 - -

(0.07)

-0.73

GOVERNAN 0.30 0.19

(0.06) (0.06)

4.74 3.11

Covariance Matrix of Y and X

LEADERSH PARTICIP GOVERNAN MODEL VISION

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LEADERSH 1.00

PARTICIP 0.39 1.00

GOVERNAN 0.82 0.16 1.00

MODEL 0.34 0.01 0.32 1.00

VISION 0.34 0.03 0.23 0.13 1.00

PHI

MODEL VISION

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MODEL 1.00

(0.09)

10.58

VISION 0.13 1.00

(0.07) (0.09)

1.89 10.58

PSI

Note: This matrix is diagonal.

LEADERSH PARTICIP GOVERNAN

- ------- -------- --------

0.24 0.97 0.86

(0.02) (0.09) (0.08)

10.58 10.58 10.58

Squared Multiple Correlations for Structural Equations

LEADERSH PARTICIP GOVERNAN

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0.06 0.03 0.14

Squared Multiple Correlations for Reduced Form

LEADERSH PARTICIP GOVERNAN

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0.91 0.00 0.14

Goodness of Fit Statistics

Degrees of Freedom = 1

Minimum Fit Function Chi-Square = 0.053 (P = 0.82)

Normal Theory Weighted Least Squares Chi-Square = 0.053 (P = 0.82)

Estimated Non-centrality Parameter (NCP) = 0.0

90 Percent Confidence Interval for NCP = (0.0 ; 2.63)

Minimum Fit Function Value = 0.00024

Population Discrepancy Function Value (F0) = 0.0

90 Percent Confidence Interval for F0 = (0.0 ; 0.012)

Root Mean Square Error of Approximation (RMSEA) = 0.0

90 Percent Confidence Interval for RMSEA = (0.0 ; 0.11)

P-Value for Test of Close Fit (RMSEA < 0.05) = 0.86

Expected Cross-Validation Index (ECVI) = 0.13

90 Percent Confidence Interval for ECVI = (0.13 ; 0.14)

ECVI for Saturated Model = 0.13

ECVI for Independence Model = 1.30

Chi-Square for Independence Model with 10 Degrees of Freedom = 280.22

Independence AIC = 290.22

Model AIC = 28.05

Saturated AIC = 30.00

Independence CAIC = 312.34

Model CAIC = 90.00

Saturated CAIC = 96.37

Normed Fit Index (NFI) = 1.00

Non-Normed Fit Index (NNFI) = 1.04

Parsimony Normed Fit Index (PNFI) = 0.100

Comparative Fit Index (CFI) = 1.00

Incremental Fit Index (IFI) = 1.00

Relative Fit Index (RFI) = 1.00

Critical N (CN) = 28226.44

Root Mean Square Residual (RMR) = 0.0040

Standardized RMR = 0.0040

Goodness of Fit Index (GFI) = 1.00

Adjusted Goodness of Fit Index (AGFI) = 1.00

Parsimony Goodness of Fit Index (PGFI) = 0.067

A Model of LEADERSHIP

Fitted Covariance Matrix

LEADERSH PARTICIP GOVERNAN MODEL VISION

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LEADERSH 1.00

PARTICIP 0.39 1.00

GOVERNAN 0.82 0.16 1.00

MODEL 0.34 0.01 0.32 1.00

VISION 0.34 0.03 0.23 0.13 1.00

Fitted Residuals

LEADERSH PARTICIP GOVERNAN MODEL VISION

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LEADERSH 0.00

PARTICIP 0.00 0.00

GOVERNAN 0.00 0.00 - -

MODEL 0.00 0.00 - - - -

VISION 0.00 -0.01 - - - - - -

Summary Statistics for Fitted Residuals

Smallest Fitted Residual = -0.01

Median Fitted Residual = 0.00

Largest Fitted Residual = 0.00

Stemleaf Plot

- 1|5

- 1|

- 0|

- 0|42100000000000

Standardized Residuals

LEADERSH PARTICIP GOVERNAN MODEL VISION

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LEADERSH -0.23

PARTICIP -0.23 - -

GOVERNAN - - - - - -

MODEL - - - - - - - -

VISION -0.23 -0.23 - - - - - -

Summary Statistics for Standardized Residuals

Smallest Standardized Residual = -0.23

Median Standardized Residual = 0.00

Largest Standardized Residual = 0.00

A Model of LEADERSHIP

Modification Indices and Expected Change

Modification Indices for BETA

LEADERSH PARTICIP GOVERNAN

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LEADERSH - - - - - -

PARTICIP 0.05 - - - -

GOVERNAN 0.05 0.05 - -

Expected Change for BETA

LEADERSH PARTICIP GOVERNAN

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LEADERSH - - - - - -

PARTICIP -0.10 - - - -

GOVERNAN 0.26 0.07 - -

Standardized Expected Change for BETA

LEADERSH PARTICIP GOVERNAN

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LEADERSH - - - - - -

PARTICIP -0.10 - - - -

GOVERNAN 0.26 0.07 - -

Modification Indices for GAMMA

MODEL VISION

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LEADERSH - - - -

PARTICIP - - 0.05

GOVERNAN - - - -

Expected Change for GAMMA

MODEL VISION

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LEADERSH - - - -

PARTICIP - - -0.02

GOVERNAN - - - -

Standardized Expected Change for GAMMA

MODEL VISION

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LEADERSH - - - -

PARTICIP - - -0.02

GOVERNAN - - - -

No Non-Zero Modification Indices for PHI

Modification Indices for PSI

LEADERSH PARTICIP GOVERNAN

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LEADERSH - -

PARTICIP - - - -

GOVERNAN - - 0.05 - -

Expected Change for PSI

LEADERSH PARTICIP GOVERNAN

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LEADERSH - -

PARTICIP - - - -

GOVERNAN - - 0.07 - -

Standardized Expected Change for PSI

LEADERSH PARTICIP GOVERNAN

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LEADERSH - -

PARTICIP - - - -

GOVERNAN - - 0.07 - -

Modification Indices for THETA-EPS

LEADERSH PARTICIP GOVERNAN

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LEADERSH - -

PARTICIP - - - -

GOVERNAN - - 0.05 0.05

Expected Change for THETA-EPS

LEADERSH PARTICIP GOVERNAN

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LEADERSH - -

PARTICIP - - - -

GOVERNAN - - 0.07 -0.39

Modification Indices for THETA-DELTA-EPS

LEADERSH PARTICIP GOVERNAN

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MODEL - - 0.05 - -

VISION - - 0.05 0.05

Expected Change for THETA-DELTA-EPS

LEADERSH PARTICIP GOVERNAN

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MODEL - - 0.25 - -

VISION - - -0.01 0.08

Maximum Modification Index is 0.05 for Element ( 1, 2) of THETA DELTA-EPSILON

A Model of LEADERSHIP

Standardized Solution

BETA

LEADERSH PARTICIP GOVERNAN

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LEADERSH - - 0.27 0.71

PARTICIP - - - - 0.18

GOVERNAN - - - - - -

GAMMA

MODEL VISION

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LEADERSH 0.09 0.15

PARTICIP -0.05 - -

GOVERNAN 0.30 0.19

Correlation Matrix of Y and X

LEADERSH PARTICIP GOVERNAN MODEL VISION

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LEADERSH 1.00

PARTICIP 0.39 1.00

GOVERNAN 0.82 0.16 1.00

MODEL 0.34 0.01 0.32 1.00

VISION 0.34 0.03 0.23 0.13 1.00

PSI

Note: This matrix is diagonal.

LEADERSH PARTICIP GOVERNAN

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0.24 0.97 0.86

Regression Matrix Y on X (Standardized)

MODEL VISION

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LEADERSH 0.30 0.30

PARTICIP 0.00 0.03

GOVERNAN 0.30 0.19

A Model of LEADERSHIP

Total and Indirect Effects

Total Effects of X on Y

MODEL VISION

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LEADERSH 0.30 0.30

(0.06) (0.06)

5.00 5.20

PARTICIP 0.00 0.03

(0.07) (0.02)

0.02 1.97

GOVERNAN 0.30 0.19

(0.06) (0.06)

4.74 3.11

Indirect Effects of X on Y

MODEL VISION

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LEADERSH 0.21 0.15

(0.05) (0.05)

4.09 3.07

PARTICIP - - 0.03

- - (0.02)

- - 1.97

GOVERNAN 0.05 - -

(0.02) - -

2.25 - -

Total Effects of Y on Y

LEADERSH PARTICIP GOVERNAN

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LEADERSH - - 0.27 0.76

(0.03) (0.04)

8.10 19.03

PARTICIP - - - - 0.18

(0.07)

2.55

GOVERNAN - - - - - -

Largest Eigenvalue of B\*B' (Stability Index) is 0.601

Indirect Effects of Y on Y

LEADERSH PARTICIP GOVERNAN

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LEADERSH - - - - 0.05

(0.02)

2.43

PARTICIP - - - - - -

GOVERNAN - - - - - -

A Model of LEADERSHIP

Standardized Total and Indirect Effects

Standardized Total Effects of X on Y

MODEL VISION

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LEADERSH 0.30 0.30

PARTICIP 0.00 0.03

GOVERNAN 0.30 0.19

Standardized Indirect Effects of X on Y

MODEL VISION

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LEADERSH 0.21 0.15

PARTICIP - - 0.03

GOVERNAN 0.05 - -

Standardized Total Effects of Y on Y

LEADERSH PARTICIP GOVERNAN

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LEADERSH - - 0.27 0.76

PARTICIP - - - - 0.18

GOVERNAN - - - - - -

Standardized Indirect Effects of Y on Y

LEADERSH PARTICIP GOVERNAN

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LEADERSH - - - - 0.05

PARTICIP - - - - - -

GOVERNAN - - - - - -

Time used: 0.031 Seconds