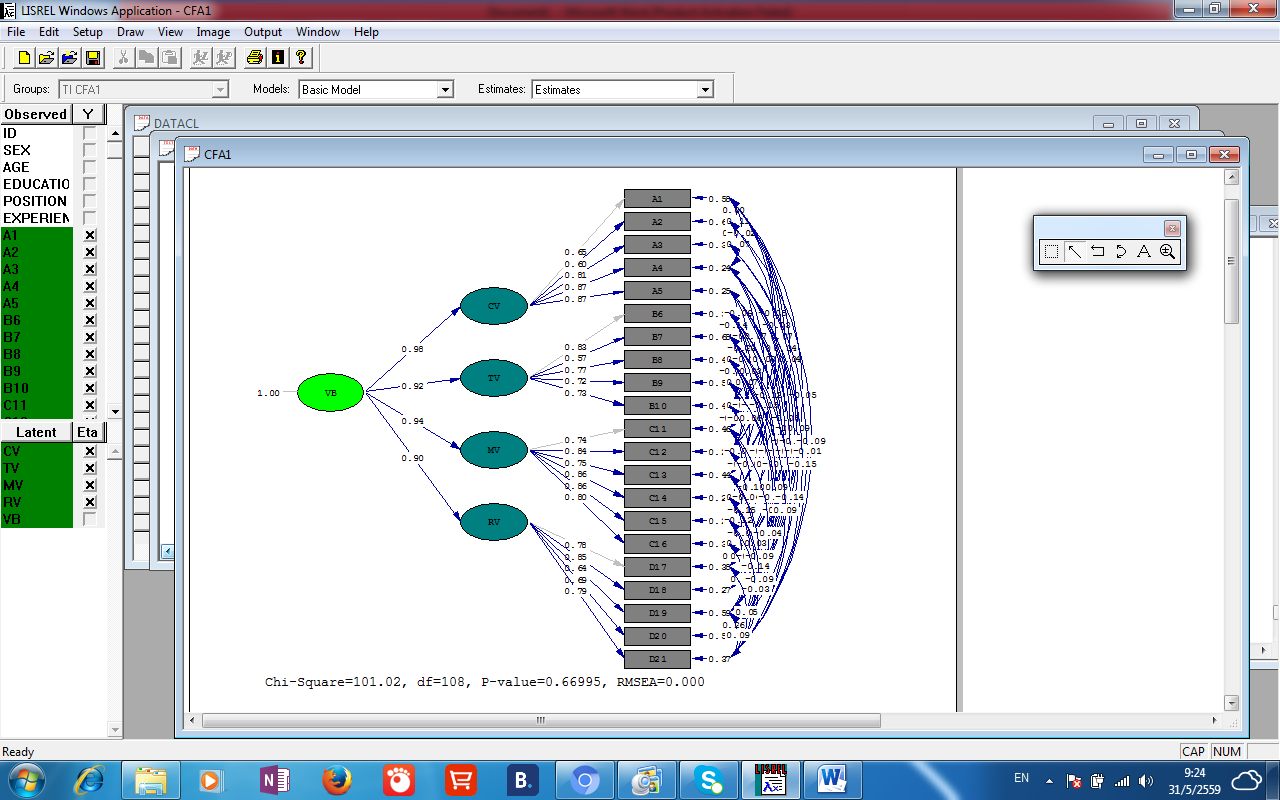
**ภาคผนวก ช**

**โมเดลความสัมพันธ์โครงสร้างด้านการส่งเสริมบรรยากาศเชิงบวก**

**โมเดลความสัมพันธ์โครงสร้างด้านการส่งเสริมบรรยากาศเชิงบวก**



DATE: 5/31/2016

TIME: 9:23

L I S R E L 8.52

BY

Karl G. J”reskog and Dag S”rbom

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The following lines were read from file D:\CFA1.LPJ:

TI CFA1

CFA1

!DA NI=74 NO=280 NG=1 MA=KM

SY='D:\DATACL.dsf' NG=1

SE

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

25 26 27 /

MO NY=21 NK=1 NE=4 LY=FU,FI BE=FU,FI GA=FU,FI PH=SY,FR PS=DI,FR TE=SY

LE

CV TV MV RV

LK

VB

FR LY(1,1) LY(2,1) LY(3,1) LY(4,1) LY(5,1) LY(6,2) LY(7,2) LY(8,2) LY(9,2)

FR LY(10,2) LY(11,3) LY(12,3) LY(13,3) LY(14,3) LY(15,3) LY(16,3) LY(17,4) LY(18,4)

FR LY(19,4) LY(20,4) LY(21,4) GA(1,1) GA(2,1) GA(3,1) GA(4,1)

FR TE 1 1 TE 2 2 TE 3 3 TE 4 4 TE 5 5 TE 6 6 TE 7 7 TE 8 8 TE 9 9 TE 10 10 TE 11 11

FR TE 12 12 TE 13 13 TE 14 14 TE 15 15 TE 16 16 TE 17 17 TE 18 18 TE 19 19 TE 20 20

FR TE 21 21 TE 2 1 TE 17 16 TE 20 9 TE 9 7 TE 14 6 TE 20 19 TE 16 13 TE 11 9 TE 9 6

FR TE 19 9 TE 14 5 TE 19 3 TE 9 5 TE 21 4 TE 21 15 TE 11 1 TE 11 7 TE 10 6 TE 7 6

FR TE 21 3 TE 21 2 TE 17 5 TE 21 14 TE 21 8 TE 16 11 TE 19 13 TE 16 14 TE 21 7 TE 4 1

FR TE 14 11 TE 18 7 TE 11 10 TE 3 2 TE 3 1 TE 10 4 TE 4 2 TE 14 1 TE 21 19 TE 20 14

FR TE 19 8 TE 18 5 TE 18 1 TE 12 4 TE 18 4 TE 20 4 TE 12 8 TE 13 8 TE 17 14 TE 12 1

FR TE 15 13 TE 19 5 TE 19 4 TE 19 14 TE 7 5 TE 20 13 TE 17 7 TE 13 7 TE 15 1 TE 13 2

FR TE 17 4 TE 11 6 TE 18 6 TE 19 6 TE 9 8 TE 10 8 TE 16 8 TE 17 8 TE 12 9 TE 15 10

FR TE 13 11 TE 20 11 TE 16 12 TE 18 15 TE 19 16 TE 13 1 TE 17 15 TE 21 17 PD

OU ME=ML AM RS EF FS SC IT=250

TI CFA1

Number of Input Variables 74

Number of Y - Variables 21

Number of X - Variables 0

Number of ETA - Variables 4

Number of KSI - Variables 1

Number of Observations 280

TI CFA1

Covariance Matrix

A1 A2 A3 A4 A5 B6

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

A1 1.00

A2 0.69 1.00

A3 0.63 0.63 1.00

A4 0.55 0.60 0.72 1.00

A5 0.54 0.51 0.73 0.76 1.00

B6 0.49 0.48 0.62 0.63 0.64 1.00

B7 0.37 0.28 0.42 0.45 0.39 0.37

B8 0.44 0.44 0.56 0.59 0.60 0.65

B9 0.46 0.40 0.54 0.56 0.47 0.38

B10 0.46 0.42 0.55 0.62 0.58 0.51

C11 0.37 0.40 0.59 0.63 0.62 0.57

C12 0.50 0.50 0.64 0.72 0.70 0.59

C13 0.51 0.50 0.53 0.62 0.56 0.52

C14 0.57 0.50 0.61 0.70 0.58 0.46

C15 0.56 0.49 0.63 0.70 0.67 0.60

C16 0.44 0.42 0.61 0.61 0.66 0.56

D17 0.39 0.34 0.54 0.52 0.62 0.51

D18 0.43 0.45 0.57 0.56 0.56 0.52

D19 0.36 0.34 0.53 0.38 0.45 0.47

D20 0.36 0.33 0.48 0.41 0.49 0.46

D21 0.43 0.32 0.55 0.46 0.60 0.51

Covariance Matrix

B7 B8 B9 B10 C11 C12

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

B7 1.00

B8 0.46 1.00

B9 0.50 0.49 1.00

B10 0.41 0.61 0.47 1.00

C11 0.44 0.50 0.61 0.38 1.00

C12 0.43 0.50 0.48 0.50 0.63 1.00

C13 0.30 0.54 0.46 0.51 0.46 0.65

C14 0.39 0.54 0.49 0.54 0.51 0.72

C15 0.39 0.54 0.50 0.52 0.59 0.73

C16 0.37 0.51 0.50 0.48 0.51 0.61

D17 0.31 0.53 0.56 0.44 0.53 0.54

D18 0.31 0.52 0.55 0.53 0.50 0.57

D19 0.37 0.54 0.29 0.46 0.35 0.43

D20 0.41 0.50 0.24 0.49 0.37 0.48

D21 0.29 0.59 0.53 0.50 0.49 0.55

Covariance Matrix

C13 C14 C15 C16 D17 D18

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

C13 1.00

C14 0.66 1.00

C15 0.68 0.76 1.00

C16 0.46 0.56 0.68 1.00

D17 0.51 0.51 0.61 0.73 1.00

D18 0.54 0.61 0.68 0.63 0.69 1.00

D19 0.41 0.36 0.45 0.50 0.47 0.53

D20 0.35 0.39 0.52 0.50 0.48 0.58

D21 0.45 0.47 0.52 0.59 0.69 0.67

Covariance Matrix

D19 D20 D21

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

D19 1.00

D20 0.70 1.00

D21 0.57 0.53 1.00

TI CFA1

Parameter Specifications

LAMBDA-Y

CV TV MV RV

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

A1 0 0 0 0

A2 1 0 0 0

A3 2 0 0 0

A4 3 0 0 0

A5 4 0 0 0

B6 0 0 0 0

B7 0 5 0 0

B8 0 6 0 0

B9 0 7 0 0

B10 0 8 0 0

C11 0 0 0 0

C12 0 0 9 0

C13 0 0 10 0

C14 0 0 11 0

C15 0 0 12 0

C16 0 0 13 0

D17 0 0 0 0

D18 0 0 0 14

D19 0 0 0 15

D20 0 0 0 16

D21 0 0 0 17

GAMMA

VB

--------

CV 18

TV 19

MV 20

RV 21

PSI

CV TV MV RV

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

22 23 24 25

THETA-EPS

A1 A2 A3 A4 A5 B6

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

A1 26

A2 27 28

A3 29 30 31

A4 32 33 0 34

A5 0 0 0 0 35

B6 0 0 0 0 0 36

B7 0 0 0 0 37 38

B8 0 0 0 0 0 0

B9 0 0 0 0 41 42

B10 0 0 0 46 0 47

C11 50 0 0 0 0 51

C12 56 0 0 57 0 0

C13 61 62 0 0 0 0

C14 67 0 0 0 68 69

C15 72 0 0 0 0 0

C16 0 0 0 0 0 0

D17 0 0 0 82 83 0

D18 90 0 0 91 92 93

D19 0 0 97 98 99 100

D20 0 0 0 107 0 0

D21 0 114 115 116 0 0

THETA-EPS

B7 B8 B9 B10 C11 C12

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

B7 39

B8 0 40

B9 43 44 45

B10 0 48 0 49

C11 52 0 53 54 55

C12 0 58 59 0 0 60

C13 63 64 0 0 65 0

C14 0 0 0 0 70 0

C15 0 0 0 73 0 0

C16 0 76 0 0 77 78

D17 84 85 0 0 0 0

D18 94 0 0 0 0 0

D19 0 101 102 0 0 0

D20 0 0 108 0 109 0

D21 117 118 0 0 0 0

THETA-EPS

C13 C14 C15 C16 D17 D18

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

C13 66

C14 0 71

C15 74 0 75

C16 79 80 0 81

D17 0 86 87 88 89

D18 0 0 95 0 0 96

D19 103 104 0 105 0 0

D20 110 111 0 0 0 0

D21 0 119 120 0 121 0

THETA-EPS

D19 D20 D21

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

D19 106

D20 112 113

D21 122 0 123

TI CFA1

Number of Iterations = 14

LISREL Estimates (Maximum Likelihood)

LAMBDA-Y

CV TV MV RV

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

A1 0.65 - - - - - -

A2 0.60 - - - - - -

(0.05)

12.88

A3 0.81 - - - - - -

(0.06)

13.22

A4 0.87 - - - - - -

(0.07)

12.12

A5 0.87 - - - - - -

(0.07)

12.26

B6 - - 0.83 - - - -

B7 - - 0.57 - - - -

(0.07)

8.80

B8 - - 0.77 - - - -

(0.06)

14.04

B9 - - 0.72 - - - -

(0.07)

10.38

B10 - - 0.73 - - - -

(0.06)

11.86

C11 - - - - 0.74 - -

C12 - - - - 0.84 - -

(0.06)

14.29

C13 - - - - 0.75 - -

(0.06)

11.83

C14 - - - - 0.86 - -

(0.07)

12.76

C15 - - - - 0.86 - -

(0.06)

14.56

C16 - - - - 0.80 - -

(0.07)

12.04

D17 - - - - - - 0.78

D18 - - - - - - 0.85

(0.06)

15.50

D19 - - - - - - 0.64

(0.06)

10.90

D20 - - - - - - 0.69

(0.06)

11.87

D21 - - - - - - 0.79

(0.05)

15.36

GAMMA

VB

--------

CV 0.98

(0.08)

11.65

TV 0.92

(0.06)

14.85

MV 0.94

(0.07)

13.31

RV 0.90

(0.07)

13.58

Covariance Matrix of ETA and KSI

CV TV MV RV VB

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

CV 1.00

TV 0.90 1.00

MV 0.92 0.87 1.00

RV 0.88 0.83 0.85 1.00

VB 0.98 0.92 0.94 0.90 1.00

PHI

VB

--------

1.00

PSI

Note: This matrix is diagonal.

CV TV MV RV

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

0.04 0.15 0.11 0.19

(0.03) (0.04) (0.02) (0.04)

1.64 4.01 4.46 4.99

Squared Multiple Correlations for Structural Equations

CV TV MV RV

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

0.96 0.85 0.89 0.81

Squared Multiple Correlations for Reduced Form

CV TV MV RV

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

0.96 0.85 0.89 0.81

THETA-EPS

A1 A2 A3 A4 A5 B6

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

A1 0.58

(0.05)

11.47

A2 0.30 0.64

(0.04) (0.05)

7.47 11.72

A3 0.11 0.13 0.34

(0.03) (0.03) (0.03)

3.70 4.69 11.09

A4 -0.02 0.07 - - 0.24

(0.02) (0.02) (0.02)

-0.89 2.92 9.81

A5 - - - - - - - - 0.25

(0.03)

9.50

B6 - - - - - - - - - - 0.33

(0.04)

7.92

B7 - - - - - - - - -0.09 -0.14

(0.03) (0.03)

-3.19 -3.96

B8 - - - - - - - - - - - -

B9 - - - - - - - - -0.12 -0.23

(0.02) (0.04)

-5.47 -6.35

B10 - - - - - - 0.07 - - -0.10

(0.02) (0.03)

3.16 -2.94

C11 -0.08 - - - - - - - - 0.03

(0.03) (0.03)

-2.96 1.23

C12 -0.03 - - - - 0.03 - - - -

(0.02) (0.02)

-1.10 1.82

C13 0.07 0.06 - - - - - - - -

(0.03) (0.03)

2.19 1.97

C14 0.04 - - - - - - -0.12 -0.15

(0.03) (0.02) (0.02)

1.53 -5.92 -6.35

C15 0.04 - - - - - - - - - -

(0.02)

1.90

C16 - - - - - - - - - - - -

D17 - - - - - - -0.05 0.05 - -

(0.02) (0.02)

-2.42 2.17

D18 -0.05 - - - - -0.08 -0.08 -0.04

(0.02) (0.02) (0.02) (0.02)

-2.07 -3.88 -3.74 -1.66

D19 - - - - 0.09 -0.11 -0.01 0.05

(0.02) (0.03) (0.02) (0.03)

3.46 -4.21 -0.60 1.70

D20 - - - - - - -0.12 - - - -

(0.03)

-4.89

D21 - - -0.09 -0.01 -0.15 - - - -

(0.03) (0.02) (0.02)

-3.43 -0.54 -6.14

THETA-EPS

B7 B8 B9 B10 C11 C12

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

B7 0.68

(0.06)

10.96

B8 - - 0.40

(0.04)

10.32

B9 0.13 -0.03 0.51

(0.04) (0.03) (0.05)

3.07 -1.15 9.73

B10 - - 0.04 - - 0.48

(0.03) (0.05)

1.25 10.10

C11 0.07 - - 0.14 -0.09 0.46

(0.04) (0.03) (0.03) (0.04)

1.93 3.98 -2.97 10.53

C12 - - -0.05 -0.04 - - - - 0.29

(0.02) (0.02) (0.03)

-2.18 -1.68 10.67

C13 -0.08 0.06 - - - - -0.07 - -

(0.03) (0.03) (0.03)

-2.52 2.48 -2.40

C14 - - - - - - - - -0.12 - -

(0.02)

-5.12

C15 - - - - - - -0.02 - - - -

(0.02)

-1.09

C16 - - -0.02 - - - - -0.10 -0.06

(0.03) (0.03) (0.02)

-0.83 -4.06 -2.32

D17 -0.07 0.04 - - - - - - - -

(0.03) (0.03)

-2.37 1.57

D18 -0.10 - - - - - - - - - -

(0.03)

-3.25

D19 - - 0.09 -0.13 - - - - - -

(0.03) (0.03)

3.36 -3.95

D20 - - - - -0.23 - - -0.04 - -

(0.03) (0.03)

-6.71 -1.44

D21 -0.14 0.09 - - - - - - - -

(0.03) (0.03)

-4.14 3.54

THETA-EPS

C13 C14 C15 C16 D17 D18

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

C13 0.44

(0.04)

10.95

C14 - - 0.26

(0.03)

9.12

C15 0.03 - - 0.27

(0.02) (0.02)

1.41 10.91

C16 -0.15 -0.12 - - 0.36

(0.03) (0.03) (0.04)

-5.41 -4.86 9.64

D17 - - -0.06 0.04 0.17 0.38

(0.02) (0.02) (0.03) (0.04)

-2.49 1.82 6.35 9.81

D18 - - - - 0.05 - - - - 0.27

(0.02) (0.03)

2.53 8.66

D19 0.03 -0.09 - - 0.03 - - - -

(0.03) (0.03) (0.02)

1.02 -3.57 1.27

D20 -0.09 -0.14 - - - - - - - -

(0.03) (0.03)

-3.16 -5.52

D21 - - -0.09 -0.03 - - 0.05 - -

(0.02) (0.02) (0.02)

-3.84 -1.70 1.84

THETA-EPS

D19 D20 D21

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

D19 0.59

(0.05)

11.26

D20 0.26 0.55

(0.04) (0.05)

6.73 11.02

D21 0.09 - - 0.37

(0.03) (0.04)

3.19 9.87

Squared Multiple Correlations for Y - Variables

A1 A2 A3 A4 A5 B6

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

0.42 0.36 0.66 0.76 0.75 0.68

Squared Multiple Correlations for Y - Variables

B7 B8 B9 B10 C11 C12

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

0.33 0.60 0.50 0.52 0.54 0.71

Squared Multiple Correlations for Y - Variables

C13 C14 C15 C16 D17 D18

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

0.56 0.74 0.73 0.64 0.62 0.73

Squared Multiple Correlations for Y - Variables

D19 D20 D21

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

0.41 0.46 0.63

Goodness of Fit Statistics

Degrees of Freedom = 108

Minimum Fit Function Chi-Square = 106.64 (P = 0.52)

Normal Theory Weighted Least Squares Chi-Square = 101.02 (P = 0.67)

Estimated Non-centrality Parameter (NCP) = 0.0

90 Percent Confidence Interval for NCP = (0.0 ; 19.97)

Minimum Fit Function Value = 0.38

Population Discrepancy Function Value (F0) = 0.0

90 Percent Confidence Interval for F0 = (0.0 ; 0.072)

Root Mean Square Error of Approximation (RMSEA) = 0.0

90 Percent Confidence Interval for RMSEA = (0.0 ; 0.026)

P-Value for Test of Close Fit (RMSEA < 0.05) = 1.00

Expected Cross-Validation Index (ECVI) = 1.27

90 Percent Confidence Interval for ECVI = (1.27 ; 1.34)

ECVI for Saturated Model = 1.66

ECVI for Independence Model = 58.70

Chi-Square for Independence Model with 210 Degrees of Freedom = 16334.41

Independence AIC = 16376.41

Model AIC = 347.02

Saturated AIC = 462.00

Independence CAIC = 16473.74

Model CAIC = 917.10

Saturated CAIC = 1532.64

Normed Fit Index (NFI) = 0.99

Non-Normed Fit Index (NNFI) = 1.00

Parsimony Normed Fit Index (PNFI) = 0.51

Comparative Fit Index (CFI) = 1.00

Incremental Fit Index (IFI) = 1.00

Relative Fit Index (RFI) = 0.99

Critical N (CN) = 380.60

Root Mean Square Residual (RMR) = 0.026

Standardized RMR = 0.026

Goodness of Fit Index (GFI) = 0.97

Adjusted Goodness of Fit Index (AGFI) = 0.93

Parsimony Goodness of Fit Index (PGFI) = 0.45

TI CFA1

Fitted Covariance Matrix

A1 A2 A3 A4 A5 B6

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

A1 1.00

A2 0.70 1.00

A3 0.63 0.63 1.00

A4 0.54 0.59 0.71 1.00

A5 0.56 0.53 0.71 0.76 1.00

B6 0.48 0.45 0.60 0.64 0.65 1.01

B7 0.33 0.31 0.42 0.45 0.36 0.34

B8 0.45 0.42 0.57 0.60 0.61 0.64

B9 0.42 0.39 0.52 0.56 0.44 0.36

B10 0.42 0.39 0.53 0.64 0.57 0.50

C11 0.36 0.41 0.55 0.59 0.59 0.56

C12 0.48 0.47 0.63 0.71 0.68 0.60

C13 0.52 0.47 0.56 0.60 0.60 0.54

C14 0.56 0.48 0.65 0.69 0.57 0.47

C15 0.56 0.48 0.64 0.69 0.69 0.61

C16 0.48 0.45 0.60 0.64 0.64 0.57

D17 0.44 0.41 0.56 0.54 0.64 0.53

D18 0.44 0.45 0.61 0.57 0.58 0.55

D19 0.36 0.34 0.54 0.38 0.47 0.48

D20 0.39 0.36 0.49 0.40 0.53 0.47

D21 0.45 0.33 0.56 0.46 0.61 0.54

Fitted Covariance Matrix

B7 B8 B9 B10 C11 C12

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

B7 1.01

B8 0.44 1.00

B9 0.54 0.52 1.02

B10 0.42 0.60 0.52 1.01

C11 0.44 0.49 0.59 0.37 1.00

C12 0.42 0.52 0.49 0.53 0.62 1.00

C13 0.29 0.57 0.47 0.47 0.49 0.63

C14 0.43 0.58 0.54 0.54 0.51 0.73

C15 0.43 0.57 0.53 0.52 0.63 0.72

C16 0.40 0.52 0.50 0.51 0.49 0.62

D17 0.30 0.54 0.46 0.47 0.49 0.56

D18 0.31 0.55 0.51 0.51 0.53 0.61

D19 0.30 0.50 0.25 0.38 0.40 0.46

D20 0.33 0.44 0.17 0.41 0.39 0.49

D21 0.24 0.60 0.47 0.48 0.50 0.57

Fitted Covariance Matrix

C13 C14 C15 C16 D17 D18

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

C13 1.00

C14 0.65 1.01

C15 0.67 0.74 1.00

C16 0.45 0.57 0.69 1.01

D17 0.49 0.51 0.60 0.71 0.98

D18 0.54 0.63 0.67 0.58 0.66 1.00

D19 0.44 0.37 0.46 0.47 0.50 0.54

D20 0.34 0.36 0.50 0.47 0.53 0.59

D21 0.50 0.49 0.54 0.54 0.66 0.68

Fitted Covariance Matrix

D19 D20 D21

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

D19 1.00

D20 0.70 1.02

D21 0.59 0.54 1.00

Fitted Residuals

A1 A2 A3 A4 A5 B6

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

A1 0.00

A2 0.00 0.00

A3 -0.01 0.00 0.00

A4 0.01 0.01 0.01 0.00

A5 -0.02 -0.02 0.02 0.00 0.00

B6 0.01 0.03 0.02 -0.01 0.00 -0.01

B7 0.03 -0.03 0.00 0.00 0.03 0.03

B8 -0.02 0.01 -0.01 -0.01 0.00 0.02

B9 0.04 0.01 0.01 0.00 0.04 0.02

B10 0.03 0.03 0.02 -0.01 0.01 0.01

C11 0.01 -0.01 0.04 0.04 0.03 0.01

C12 0.02 0.03 0.01 0.02 0.02 -0.02

C13 0.00 0.02 -0.03 0.02 -0.04 -0.01

C14 0.01 0.02 -0.04 0.01 0.00 0.00

C15 0.00 0.01 -0.01 0.01 -0.02 -0.01

C16 -0.04 -0.03 0.01 -0.03 0.02 -0.01

D17 -0.05 -0.08 -0.02 -0.02 -0.02 -0.02

D18 -0.01 -0.01 -0.04 -0.01 -0.02 -0.03

D19 -0.01 0.00 -0.01 0.00 -0.02 -0.01

D20 -0.04 -0.03 -0.01 0.01 -0.03 -0.01

D21 -0.02 -0.01 -0.01 0.00 0.00 -0.03

Fitted Residuals

B7 B8 B9 B10 C11 C12

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

B7 -0.01

B8 0.01 0.00

B9 -0.05 -0.03 -0.02

B10 -0.01 0.01 -0.05 -0.01

C11 0.00 0.00 0.02 0.00 0.00

C12 0.01 -0.02 0.00 -0.03 0.01 0.00

C13 0.00 -0.03 -0.01 0.04 -0.02 0.02

C14 -0.04 -0.04 -0.05 -0.01 -0.01 -0.01

C15 -0.03 -0.03 -0.03 0.01 -0.04 0.00

C16 -0.03 -0.01 0.00 -0.03 0.02 -0.01

D17 0.01 0.00 0.09 -0.02 0.05 -0.02

D18 0.00 -0.03 0.04 0.02 -0.03 -0.04

D19 0.07 0.03 0.04 0.08 -0.05 -0.03

D20 0.09 0.06 0.07 0.08 -0.02 -0.01

D21 0.05 -0.01 0.06 0.03 -0.01 -0.02

Fitted Residuals

C13 C14 C15 C16 D17 D18

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

C13 0.00

C14 0.02 -0.01

C15 0.01 0.02 0.00

C16 0.01 -0.01 -0.01 -0.01

D17 0.02 0.00 0.01 0.02 0.02

D18 0.00 -0.01 0.01 0.05 0.03 0.00

D19 -0.02 -0.01 -0.02 0.03 -0.02 -0.02

D20 0.00 0.03 0.02 0.03 -0.06 -0.01

D21 -0.05 -0.02 -0.02 0.05 0.02 -0.01

Fitted Residuals

D19 D20 D21

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

D19 0.00

D20 0.00 -0.02

D21 -0.02 -0.01 0.00

Summary Statistics for Fitted Residuals

Smallest Fitted Residual = -0.08

Median Fitted Residual = 0.00

Largest Fitted Residual = 0.09

Stemleaf Plot

- 7|7

- 6|

- 5|61100

- 4|655200

- 3|966655544444100

- 2|9998776655554332211110

- 1|998888877665555544333222000000

- 0|9999988888777777776666665554444433333332111100

0|1112222222333334444455555566788899

1|0000111122222355666777778999

2|00002223444556789

3|0001134477999

4|0269

5|02

6|12

7|0159

8|7

9|4

Standardized Residuals

A1 A2 A3 A4 A5 B6

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

A1 -0.31

A2 -0.12 -0.29

A3 -0.59 0.02 0.37

A4 0.59 0.82 0.68 0.22

A5 -1.26 -0.91 1.57 0.21 -0.48

B6 0.34 0.93 0.67 -0.61 -0.18 -0.68

B7 0.82 -0.81 0.09 -0.12 1.63 1.72

B8 -0.48 0.43 -0.34 -0.69 -0.13 0.95

B9 1.21 0.35 0.43 0.09 2.01 0.92

B10 1.01 0.70 0.73 -1.01 0.53 0.80

C11 0.47 -0.20 1.43 1.73 1.13 0.37

C12 1.19 1.04 0.42 1.31 1.18 -0.69

C13 -0.24 1.06 -1.10 0.80 -1.94 -0.47

C14 0.46 0.60 -1.64 0.63 0.32 -0.30

C15 0.11 0.30 -0.69 0.60 -0.86 -0.38

C16 -1.20 -0.97 0.48 -1.42 0.82 -0.54

D17 -1.61 -2.25 -0.87 -1.30 -1.15 -0.87

D18 -0.48 -0.20 -1.89 -0.42 -1.49 -1.55

D19 -0.15 0.09 -0.34 0.12 -1.04 -0.53

D20 -0.95 -0.85 -0.42 0.27 -1.24 -0.23

D21 -0.56 -0.41 -0.44 -0.15 -0.20 -1.02

Standardized Residuals

B7 B8 B9 B10 C11 C12

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B7 -0.78

B8 0.56 0.52

B9 -2.62 -1.28 -1.18

B10 -0.35 0.78 -2.15 -1.00

C11 0.16 0.08 1.08 0.11 0.21

C12 0.28 -1.47 -0.20 -0.94 0.58 1.92

C13 0.13 -1.74 -0.23 1.21 -1.70 1.17

C14 -1.30 -1.66 -1.67 -0.24 -0.54 -0.56

C15 -1.15 -1.40 -1.29 0.38 -2.25 0.33

C16 -1.01 -0.69 -0.04 -0.90 1.06 -0.50

D17 0.55 -0.18 2.94 -0.79 1.54 -0.65

D18 -0.05 -1.05 1.37 0.71 -1.08 -1.55

D19 1.66 1.45 1.70 2.13 -1.40 -0.81

D20 2.08 1.74 3.04 2.05 -0.69 -0.22

D21 2.28 -0.43 1.91 0.90 -0.18 -0.67

Standardized Residuals

C13 C14 C15 C16 D17 D18

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

C13 -0.28

C14 0.89 -0.64

C15 0.50 1.54 0.13

C16 0.43 -0.64 -0.64 -0.85

D17 0.59 0.09 0.40 1.40 2.03

D18 0.02 -0.58 0.42 2.12 1.87 0.52

D19 -1.00 -0.33 -0.50 1.30 -0.97 -0.81

D20 0.20 1.04 0.71 0.93 -2.22 -0.48

D21 -1.60 -1.08 -1.11 1.78 1.72 -0.58

Standardized Residuals

D19 D20 D21

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

D19 -0.05

D20 0.01 -1.32

D21 -1.06 -0.47 -0.20

Summary Statistics for Standardized Residuals

Smallest Standardized Residual = -2.62

Median Standardized Residual = -0.15

Largest Standardized Residual = 3.04

Stemleaf Plot

- 2|6

- 2|3222

- 1|9977776665555

- 1|4443333332221111111000000000

- 0|999999998888887777777766666666655555555555

- 0|44444443333333222222222222221111000000

0|1111111111222223333333444444444

0|55555555666666677777788888899999

1|0000111122222334444

1|55667777778999

2|0001113

2|9

3|0

Largest Negative Standardized Residuals

Residual for B9 and B7 -2.62

Largest Positive Standardized Residuals

Residual for D17 and B9 2.94

Residual for D20 and B9 3.04

TI CFA1

Qplot of Standardized Residuals

3.5..........................................................................

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. . xx .

. . xx .

N . x\*xxx .

o . x\*\* .

r . x\*\* .

m . \*xx .

a . \*\*x .

l . \*x .

. \*\*\* .

Q . xx\* .

u . \*x. .

a . x\*x .

n . \*x .

t . \*x. .

i . \*\*\* .

l . x\* .

e . x\* .

s . xx .

. \*xx .

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. xx .

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. x. .

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-3.5..........................................................................

-3.5 3.5

Standardized Residuals

TI CFA1

Modification Indices and Expected Change

Modification Indices for LAMBDA-Y

CV TV MV RV

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

A1 - - 0.79 0.90 0.00

A2 - - 0.40 0.24 0.71

A3 - - 0.03 0.02 2.67

A4 - - 0.15 1.67 0.88

A5 - - 0.20 0.12 0.50

B6 1.46 - - 0.78 1.15

B7 0.01 - - 0.37 0.54

B8 2.13 - - 1.11 0.95

B9 2.47 - - 0.31 7.38

B10 3.28 - - 0.54 0.99

C11 2.03 1.48 - - 0.00

C12 0.25 0.70 - - 0.97

C13 1.71 0.08 - - 0.07

C14 0.44 0.57 - - 0.22

C15 0.00 0.15 - - 0.54

C16 0.66 0.15 - - 4.50

D17 0.01 0.05 0.82 - -

D18 1.43 0.45 0.31 - -

D19 0.01 0.13 0.62 - -

D20 0.18 1.96 1.42 - -

D21 0.01 0.01 0.02 - -

Expected Change for LAMBDA-Y

CV TV MV RV

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

A1 - - 0.13 -0.23 0.01

A2 - - 0.09 0.08 -0.11

A3 - - -0.02 0.02 -0.19

A4 - - -0.05 0.19 0.64

A5 - - 0.06 -0.05 -0.10

B6 -0.35 - - -0.15 -0.14

B7 -0.02 - - -0.10 0.13

B8 -0.39 - - -0.17 -0.14

B9 0.37 - - -0.09 0.34

B10 0.50 - - 0.12 0.13

C11 0.27 0.22 - - 0.00

C12 0.08 -0.09 - - -0.09

C13 -0.24 -0.03 - - 0.03

C14 -0.11 -0.09 - - -0.05

C15 0.00 -0.04 - - 0.09

C16 0.18 -0.05 - - 0.26

D17 -0.01 0.02 0.11 - -

D18 -0.20 -0.08 -0.06 - -

D19 -0.01 0.05 -0.08 - -

D20 0.05 0.14 0.11 - -

D21 0.02 0.01 -0.01 - -

Standardized Expected Change for LAMBDA-Y

CV TV MV RV

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

A1 - - 0.13 -0.23 0.01

A2 - - 0.09 0.08 -0.11

A3 - - -0.02 0.02 -0.19

A4 - - -0.05 0.19 0.64

A5 - - 0.06 -0.05 -0.10

B6 -0.35 - - -0.15 -0.14

B7 -0.02 - - -0.10 0.13

B8 -0.39 - - -0.17 -0.14

B9 0.37 - - -0.09 0.34

B10 0.50 - - 0.12 0.13

C11 0.27 0.22 - - 0.00

C12 0.08 -0.09 - - -0.09

C13 -0.24 -0.03 - - 0.03

C14 -0.11 -0.09 - - -0.05

C15 0.00 -0.04 - - 0.09

C16 0.18 -0.05 - - 0.26

D17 -0.01 0.02 0.11 - -

D18 -0.20 -0.08 -0.06 - -

D19 -0.01 0.05 -0.08 - -

D20 0.05 0.14 0.11 - -

D21 0.02 0.01 -0.01 - -

Completely Standardized Expected Change for LAMBDA-Y

CV TV MV RV

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

A1 - - 0.13 -0.23 0.01

A2 - - 0.09 0.08 -0.11

A3 - - -0.02 0.02 -0.19

A4 - - -0.05 0.19 0.64

A5 - - 0.06 -0.05 -0.10

B6 -0.35 - - -0.15 -0.14

B7 -0.02 - - -0.10 0.13

B8 -0.39 - - -0.17 -0.14

B9 0.37 - - -0.09 0.34

B10 0.50 - - 0.12 0.13

C11 0.27 0.22 - - 0.00

C12 0.08 -0.09 - - -0.09

C13 -0.23 -0.03 - - 0.03

C14 -0.11 -0.09 - - -0.05

C15 0.00 -0.04 - - 0.09

C16 0.18 -0.05 - - 0.26

D17 -0.01 0.02 0.11 - -

D18 -0.20 -0.08 -0.06 - -

D19 -0.01 0.05 -0.08 - -

D20 0.05 0.14 0.11 - -

D21 0.02 0.01 -0.01 - -

Modification Indices for BETA

CV TV MV RV

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

CV - - 1.01 2.13 5.99

TV 1.01 - - 5.99 2.13

MV 2.13 5.99 - - 1.01

RV 5.99 2.13 1.01 - -

Expected Change for BETA

CV TV MV RV

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

CV - - 0.17 0.36 -0.33

TV 0.61 - - -0.56 0.19

MV 0.94 -0.40 - - 0.13

RV -1.47 0.23 0.22 - -

Standardized Expected Change for BETA

CV TV MV RV

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

CV - - 0.17 0.36 -0.33

TV 0.61 - - -0.56 0.19

MV 0.94 -0.40 - - 0.13

RV -1.47 0.23 0.22 - -

No Non-Zero Modification Indices for GAMMA

No Non-Zero Modification Indices for PHI

Modification Indices for PSI

CV TV MV RV

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

CV - -

TV 1.01 - -

MV 2.13 5.99 - -

RV 5.99 2.13 1.01 - -

Expected Change for PSI

CV TV MV RV

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

CV - -

TV 0.03 - -

MV 0.04 -0.06 - -

RV -0.06 0.04 0.02 - -

Standardized Expected Change for PSI

CV TV MV RV

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

CV - -

TV 0.03 - -

MV 0.04 -0.06 - -

RV -0.06 0.04 0.02 - -

Modification Indices for THETA-EPS

A1 A2 A3 A4 A5 B6

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

A1 - -

A2 - - - -

A3 - - - - - -

A4 - - - - 0.10 - -

A5 0.01 0.12 1.35 0.35 - -

B6 0.16 0.55 0.01 1.02 0.09 - -

B7 2.15 2.97 0.18 0.28 - - - -

B8 1.28 0.97 0.00 0.13 0.10 2.46

B9 0.86 0.04 0.07 0.14 - - - -

B10 0.16 0.01 0.23 - - 0.01 - -

C11 - - 1.75 2.62 0.76 0.05 - -

C12 - - 0.69 0.15 - - 1.40 0.33

C13 - - - - 0.27 0.24 3.90 0.13

C14 - - 0.08 0.94 0.23 - - - -

C15 - - 0.16 0.18 0.36 0.25 0.75

C16 1.24 0.02 0.64 0.77 0.77 0.19

D17 0.11 3.75 0.08 - - - - 0.00

D18 - - 0.28 1.46 - - - - - -

D19 0.13 0.22 - - - - - - - -

D20 0.62 0.00 0.06 - - 1.55 0.09

D21 0.01 - - - - - - 0.07 0.34

Modification Indices for THETA-EPS

B7 B8 B9 B10 C11 C12

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

B7 - -

B8 0.04 - -

B9 - - - - - -

B10 0.00 - - 2.53 - -

C11 - - 0.26 - - - - - -

C12 0.72 - - - - 2.44 0.10 - -

C13 - - - - 0.36 1.86 - - 1.46

C14 0.31 0.00 0.59 0.16 - - 1.16

C15 0.65 0.54 0.23 - - 2.59 0.00

C16 0.20 - - 0.37 0.01 - - - -

D17 - - - - 2.12 1.81 1.69 0.67

D18 - - 1.84 0.79 0.24 0.40 0.80

D19 0.55 - - - - 0.40 2.14 0.20

D20 0.31 2.14 - - 0.23 - - 0.00

D21 - - - - 0.14 0.19 0.16 0.38

Modification Indices for THETA-EPS

C13 C14 C15 C16 D17 D18

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

C13 - -

C14 0.06 - -

C15 - - 3.89 - -

C16 - - - - 1.02 - -

D17 2.73 - - - - - - - -

D18 0.38 0.02 - - 1.97 0.70 - -

D19 - - - - 0.02 - - 0.02 0.10

D20 - - - - 1.21 0.23 1.22 0.00

D21 1.57 - - - - 0.13 - - 0.03

Modification Indices for THETA-EPS

D19 D20 D21

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

D19 - -

D20 - - - -

D21 - - 0.03 - -

Expected Change for THETA-EPS

A1 A2 A3 A4 A5 B6

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

A1 - -

A2 - - - -

A3 - - - - - -

A4 - - - - -0.01 - -

A5 0.00 -0.01 0.02 -0.01 - -

B6 0.01 0.02 0.00 -0.02 0.01 - -

B7 0.04 -0.05 -0.01 0.01 - - - -

B8 -0.03 0.02 0.00 -0.01 0.01 0.07

B9 0.03 0.01 -0.01 0.01 - - - -

B10 0.01 0.00 0.01 - - 0.00 - -

C11 - - -0.04 0.04 0.02 -0.01 - -

C12 - - 0.02 0.01 - - 0.02 -0.01

C13 - - - - -0.01 0.01 -0.04 -0.01

C14 - - 0.01 -0.02 0.01 - - - -

C15 - - 0.01 -0.01 0.01 -0.01 0.02

C16 -0.03 0.00 0.02 -0.02 0.02 -0.01

D17 0.01 -0.05 -0.01 - - - - 0.00

D18 - - 0.01 -0.03 - - - - - -

D19 0.01 0.01 - - - - - - - -

D20 -0.02 0.00 -0.01 - - -0.03 -0.01

D21 0.00 - - - - - - 0.01 -0.02

Expected Change for THETA-EPS

B7 B8 B9 B10 C11 C12

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

B7 - -

B8 0.01 - -

B9 - - - - - -

B10 0.00 - - -0.06 - -

C11 - - 0.02 - - - - - -

C12 0.02 - - - - -0.04 0.01 - -

C13 - - - - -0.02 0.04 - - 0.03

C14 -0.02 0.00 -0.02 0.01 - - -0.03

C15 -0.02 -0.02 -0.01 - - -0.04 0.00

C16 -0.01 - - -0.02 0.00 - - - -

D17 - - - - 0.04 -0.03 0.03 -0.02

D18 - - -0.03 0.02 0.01 -0.02 -0.02

D19 0.02 - - - - 0.02 -0.05 -0.01

D20 0.02 0.04 - - 0.01 - - 0.00

D21 - - - - 0.01 0.01 -0.01 0.01

Expected Change for THETA-EPS

C13 C14 C15 C16 D17 D18

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

C13 - -

C14 -0.01 - -

C15 - - 0.04 - -

C16 - - - - -0.03 - -

D17 0.04 - - - - - - - -

D18 0.02 0.00 - - 0.03 0.02 - -

D19 - - - - 0.00 - - 0.00 0.01

D20 - - - - 0.02 0.01 -0.03 0.00

D21 -0.03 - - - - 0.01 - - 0.00

Expected Change for THETA-EPS

D19 D20 D21

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

D19 - -

D20 - - - -

D21 - - 0.01 - -

Completely Standardized Expected Change for THETA-EPS

A1 A2 A3 A4 A5 B6

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

A1 - -

A2 - - - -

A3 - - - - - -

A4 - - - - -0.01 - -

A5 0.00 -0.01 0.02 -0.01 - -

B6 0.01 0.02 0.00 -0.02 0.01 - -

B7 0.04 -0.05 -0.01 0.01 - - - -

B8 -0.03 0.02 0.00 -0.01 0.01 0.07

B9 0.02 0.00 -0.01 0.01 - - - -

B10 0.01 0.00 0.01 - - 0.00 - -

C11 - - -0.04 0.04 0.02 -0.01 - -

C12 - - 0.02 0.01 - - 0.02 -0.01

C13 - - - - -0.01 0.01 -0.04 -0.01

C14 - - 0.01 -0.02 0.01 - - - -

C15 - - 0.01 -0.01 0.01 -0.01 0.02

C16 -0.03 0.00 0.02 -0.02 0.02 -0.01

D17 0.01 -0.05 -0.01 - - - - 0.00

D18 - - 0.01 -0.03 - - - - - -

D19 0.01 0.01 - - - - - - - -

D20 -0.02 0.00 -0.01 - - -0.03 -0.01

D21 0.00 - - - - - - 0.01 -0.02

Completely Standardized Expected Change for THETA-EPS

B7 B8 B9 B10 C11 C12

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

B7 - -

B8 0.01 - -

B9 - - - - - -

B10 0.00 - - -0.06 - -

C11 - - 0.02 - - - - - -

C12 0.02 - - - - -0.04 0.01 - -

C13 - - - - -0.02 0.04 - - 0.03

C14 -0.02 0.00 -0.02 0.01 - - -0.03

C15 -0.02 -0.02 -0.01 - - -0.04 0.00

C16 -0.01 - - -0.01 0.00 - - - -

D17 - - - - 0.04 -0.03 0.03 -0.02

D18 - - -0.03 0.02 0.01 -0.02 -0.02

D19 0.02 - - - - 0.02 -0.05 -0.01

D20 0.02 0.04 - - 0.01 - - 0.00

D21 - - - - 0.01 0.01 -0.01 0.01

Completely Standardized Expected Change for THETA-EPS

C13 C14 C15 C16 D17 D18

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

C13 - -

C14 -0.01 - -

C15 - - 0.04 - -

C16 - - - - -0.03 - -

D17 0.04 - - - - - - - -

D18 0.02 0.00 - - 0.03 0.02 - -

D19 - - - - 0.00 - - 0.00 0.01

D20 - - - - 0.02 0.01 -0.03 0.00

D21 -0.03 - - - - 0.01 - - 0.00

Completely Standardized Expected Change for THETA-EPS

D19 D20 D21

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

D19 - -

D20 - - - -

D21 - - 0.00 - -

Maximum Modification Index is 7.38 for Element ( 9, 4) of LAMBDA-Y

TI CFA1

Factor Scores Regressions

ETA

A1 A2 A3 A4 A5 B6

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

CV 0.01 -0.01 0.05 0.23 0.31 0.16

TV -0.07 0.02 -0.06 -0.09 0.26 0.49

MV -0.06 0.01 -0.03 -0.04 0.15 0.12

RV -0.01 -0.01 -0.10 0.30 0.13 0.14

ETA

B7 B8 B9 B10 C11 C12

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

CV 0.05 -0.07 0.14 -0.05 -0.01 -0.07

TV 0.07 0.05 0.37 0.09 -0.11 -0.04

MV 0.00 -0.07 0.05 0.01 0.17 0.03

RV 0.11 -0.17 0.10 -0.07 -0.04 -0.13

ETA

C13 C14 C15 C16 D17 D18

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

CV 0.03 0.26 -0.08 0.07 -0.07 0.09

TV -0.01 0.31 -0.09 0.02 -0.06 0.03

MV 0.17 0.40 0.00 0.31 -0.15 -0.03

RV 0.02 0.25 -0.12 -0.08 0.17 0.29

ETA

D19 D20 D21

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

CV -0.01 0.14 0.10

TV -0.04 0.18 -0.01

MV -0.05 0.16 0.09

RV 0.07 0.17 0.25

TI CFA1

Standardized Solution

LAMBDA-Y

CV TV MV RV

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

A1 0.65 - - - - - -

A2 0.60 - - - - - -

A3 0.81 - - - - - -

A4 0.87 - - - - - -

A5 0.87 - - - - - -

B6 - - 0.83 - - - -

B7 - - 0.57 - - - -

B8 - - 0.77 - - - -

B9 - - 0.72 - - - -

B10 - - 0.73 - - - -

C11 - - - - 0.74 - -

C12 - - - - 0.84 - -

C13 - - - - 0.75 - -

C14 - - - - 0.86 - -

C15 - - - - 0.86 - -

C16 - - - - 0.80 - -

D17 - - - - - - 0.78

D18 - - - - - - 0.85

D19 - - - - - - 0.64

D20 - - - - - - 0.69

D21 - - - - - - 0.79

GAMMA

VB

--------

CV 0.98

TV 0.92

MV 0.94

RV 0.90

Correlation Matrix of ETA and KSI

CV TV MV RV VB

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

CV 1.00

TV 0.90 1.00

MV 0.92 0.87 1.00

RV 0.88 0.83 0.85 1.00

VB 0.98 0.92 0.94 0.90 1.00

PSI

Note: This matrix is diagonal.

CV TV MV RV

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

0.04 0.15 0.11 0.19

TI CFA1

Completely Standardized Solution

LAMBDA-Y

CV TV MV RV

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

A1 0.65 - - - - - -

A2 0.60 - - - - - -

A3 0.81 - - - - - -

A4 0.87 - - - - - -

A5 0.87 - - - - - -

B6 - - 0.82 - - - -

B7 - - 0.57 - - - -

B8 - - 0.78 - - - -

B9 - - 0.71 - - - -

B10 - - 0.72 - - - -

C11 - - - - 0.74 - -

C12 - - - - 0.84 - -

C13 - - - - 0.75 - -

C14 - - - - 0.86 - -

C15 - - - - 0.86 - -

C16 - - - - 0.80 - -

D17 - - - - - - 0.79

D18 - - - - - - 0.86

D19 - - - - - - 0.64

D20 - - - - - - 0.68

D21 - - - - - - 0.79

GAMMA

VB

--------

CV 0.98

TV 0.92

MV 0.94

RV 0.90

Correlation Matrix of ETA and KSI

CV TV MV RV VB

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

CV 1.00

TV 0.90 1.00

MV 0.92 0.87 1.00

RV 0.88 0.83 0.85 1.00

VB 0.98 0.92 0.94 0.90 1.00

PSI

Note: This matrix is diagonal.

CV TV MV RV

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0.04 0.15 0.11 0.19

THETA-EPS

A1 A2 A3 A4 A5 B6

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A1 0.58

A2 0.30 0.64

A3 0.11 0.13 0.34

A4 -0.02 0.07 - - 0.24

A5 - - - - - - - - 0.25

B6 - - - - - - - - - - 0.32

B7 - - - - - - - - -0.09 -0.13

B8 - - - - - - - - - - - -

B9 - - - - - - - - -0.12 -0.22

B10 - - - - - - 0.07 - - -0.10

C11 -0.08 - - - - - - - - 0.03

C12 -0.03 - - - - 0.03 - - - -

C13 0.07 0.06 - - - - - - - -

C14 0.04 - - - - - - -0.12 -0.15

C15 0.04 - - - - - - - - - -

C16 - - - - - - - - - - - -

D17 - - - - - - -0.05 0.05 - -

D18 -0.05 - - - - -0.09 -0.08 -0.04

D19 - - - - 0.09 -0.11 -0.01 0.05

D20 - - - - - - -0.12 - - - -

D21 - - -0.09 -0.01 -0.15 - - - -

THETA-EPS

B7 B8 B9 B10 C11 C12

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

B7 0.67

B8 - - 0.40

B9 0.13 -0.03 0.50

B10 - - 0.04 - - 0.48

C11 0.07 - - 0.13 -0.09 0.46

C12 - - -0.05 -0.04 - - - - 0.29

C13 -0.08 0.06 - - - - -0.07 - -

C14 - - - - - - - - -0.12 - -

C15 - - - - - - -0.02 - - - -

C16 - - -0.02 - - - - -0.10 -0.06

D17 -0.07 0.04 - - - - - - - -

D18 -0.10 - - - - - - - - - -

D19 - - 0.09 -0.12 - - - - - -

D20 - - - - -0.23 - - -0.04 - -

D21 -0.14 0.09 - - - - - - - -

THETA-EPS

C13 C14 C15 C16 D17 D18

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

C13 0.44

C14 - - 0.26

C15 0.03 - - 0.27

C16 -0.15 -0.12 - - 0.36

D17 - - -0.06 0.04 0.18 0.38

D18 - - - - 0.05 - - - - 0.27

D19 0.03 -0.09 - - 0.03 - - - -

D20 -0.09 -0.14 - - - - - - - -

D21 - - -0.09 -0.03 - - 0.05 - -

THETA-EPS

D19 D20 D21

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

D19 0.59

D20 0.26 0.54

D21 0.09 - - 0.37

TI CFA1

Total and Indirect Effects

Total Effects of X on ETA

VB

--------

CV 0.98

(0.08)

11.65

TV 0.92

(0.06)

14.85

MV 0.94

(0.07)

13.31

RV 0.90

(0.07)

13.58

BETA\*BETA' is not Pos. Def., Stability Index cannot be Computed

Total Effects of ETA on Y

CV TV MV RV

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

A1 0.65 - - - - - -

A2 0.60 - - - - - -

(0.05)

12.88

A3 0.81 - - - - - -

(0.06)

13.22

A4 0.87 - - - - - -

(0.07)

12.12

A5 0.87 - - - - - -

(0.07)

12.26

B6 - - 0.83 - - - -

B7 - - 0.57 - - - -

(0.07)

8.80

B8 - - 0.77 - - - -

(0.06)

14.04

B9 - - 0.72 - - - -

(0.07)

10.38

B10 - - 0.73 - - - -

(0.06)

11.86

C11 - - - - 0.74 - -

C12 - - - - 0.84 - -

(0.06)

14.29

C13 - - - - 0.75 - -

(0.06)

11.83

C14 - - - - 0.86 - -

(0.07)

12.76

C15 - - - - 0.86 - -

(0.06)

14.56

C16 - - - - 0.80 - -

(0.07)

12.04

D17 - - - - - - 0.78

D18 - - - - - - 0.85

(0.06)

15.50

D19 - - - - - - 0.64

(0.06)

10.90

D20 - - - - - - 0.69

(0.06)

11.87

D21 - - - - - - 0.79

(0.05)

15.36

Total Effects of X on Y

VB

--------

A1 0.63

(0.05)

11.65

A2 0.59

(0.05)

10.86

A3 0.80

(0.05)

16.00

A4 0.85

(0.05)

17.53

A5 0.85

(0.05)

17.44

B6 0.76

(0.05)

14.85

B7 0.53

(0.06)

9.48

B8 0.71

(0.05)

13.69

B9 0.66

(0.05)

12.24

B10 0.67

(0.05)

12.59

C11 0.69

(0.05)

13.31

C12 0.79

(0.05)

16.12

C13 0.71

(0.05)

13.80

C14 0.81

(0.05)

16.56

C15 0.81

(0.05)

16.39

C16 0.76

(0.05)

14.94

D17 0.70

(0.05)

13.58

D18 0.77

(0.05)

15.19

D19 0.57

(0.05)

10.68

D20 0.62

(0.05)

11.71

D21 0.71

(0.05)

13.86

TI CFA1

Standardized Total and Indirect Effects

Standardized Total Effects of X on ETA

VB

--------

CV 0.98

TV 0.92

MV 0.94

RV 0.90

Standardized Total Effects of ETA on Y

CV TV MV RV

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

A1 0.65 - - - - - -

A2 0.60 - - - - - -

A3 0.81 - - - - - -

A4 0.87 - - - - - -

A5 0.87 - - - - - -

B6 - - 0.83 - - - -

B7 - - 0.57 - - - -

B8 - - 0.77 - - - -

B9 - - 0.72 - - - -

B10 - - 0.73 - - - -

C11 - - - - 0.74 - -

C12 - - - - 0.84 - -

C13 - - - - 0.75 - -

C14 - - - - 0.86 - -

C15 - - - - 0.86 - -

C16 - - - - 0.80 - -

D17 - - - - - - 0.78

D18 - - - - - - 0.85

D19 - - - - - - 0.64

D20 - - - - - - 0.69

D21 - - - - - - 0.79

Completely Standardized Total Effects of ETA on Y

CV TV MV RV

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

A1 0.65 - - - - - -

A2 0.60 - - - - - -

A3 0.81 - - - - - -

A4 0.87 - - - - - -

A5 0.87 - - - - - -

B6 - - 0.82 - - - -

B7 - - 0.57 - - - -

B8 - - 0.78 - - - -

B9 - - 0.71 - - - -

B10 - - 0.72 - - - -

C11 - - - - 0.74 - -

C12 - - - - 0.84 - -

C13 - - - - 0.75 - -

C14 - - - - 0.86 - -

C15 - - - - 0.86 - -

C16 - - - - 0.80 - -

D17 - - - - - - 0.79

D18 - - - - - - 0.86

D19 - - - - - - 0.64

D20 - - - - - - 0.68

D21 - - - - - - 0.79

Standardized Total Effects of X on Y

VB

--------

A1 0.63

A2 0.59

A3 0.80

A4 0.85

A5 0.85

B6 0.76

B7 0.53

B8 0.71

B9 0.66

B10 0.67

C11 0.69

C12 0.79

C13 0.71

C14 0.81

C15 0.81

C16 0.76

D17 0.70

D18 0.77

D19 0.57

D20 0.62

D21 0.71

Completely Standardized Total Effects of X on Y

VB

--------

A1 0.63

A2 0.59

A3 0.80

A4 0.85

A5 0.85

B6 0.76

B7 0.53

B8 0.71

B9 0.65

B10 0.67

C11 0.70

C12 0.80

C13 0.71

C14 0.81

C15 0.81

C16 0.75

D17 0.71

D18 0.77

D19 0.57

D20 0.61

D21 0.71

Time used: 0.125 Seconds