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LAMPIRAN


PDF
Optimization Software:
www.balesio.com

****

* General SEM analysis results *

****

General project information

Version of WarpPLS used: 4.0

License holder: Trial license (3 months)

Type of license: Trial license (3 months)

License start date: 18-Apr-2017

License end date: 17-Jul-2017

Project path (directory): C:\Users\Trian Fisman\Documents\

Project file: pls.prj

Last changed: 19-Apr-2017 13:06:00

Last saved: Never (needs to be saved)

Raw data path (directory): C:\Users\Trian Fisman\Downloads\

Raw data file: DATA NIS.csv

Model fit and quality indices

Average path coefficient (APC)=0.335, P<0.001

Average R-squared (ARS)=0.650, P<0.001

adjusted R-squared (AARS)=0.606, P<0.001

block VIF (AVIF)=1.689, acceptable if <= 5, ideally <= 3.3

Average full collinearity VIF (AFVIF)=2.151, acceptable if <= 5, ideally <= 3.3

Tenenhaus GoF (GoF)=0.806, small >= 0.1, medium >= 0.25, large >= 0.36

Sympson's paradox ratio (SPR)=0.857, acceptable if >= 0.7, ideally = 1

R-squared contribution ratio (RSCR)=0.958, acceptable if >= 0.9, ideally = 1

Statistical suppression ratio (SSR)=1.000, acceptable if >= 0.7

Nonlinear bivariate causality direction ratio (NLBCDR)=0.786, acceptable if >= 0.7

General model elements

Outer model analysis algorithm: PLS regression

Default inner model analysis algorithm: Warp3

Multiple inner model analysis algorithms used? No

Resampling method used in the analysis: Stable

Number of data resamples used: 100

Number of cases (rows) in model data: 30

Number of latent variables in model: 5

Number of indicators used in model: 5

Number of iterations to obtain estimates: 2

Range restriction variable type: None

Range restriction variable: None

Range restriction variable min value: 0.000

Range restriction variable max value: 0.000

Only ranked data used in analysis? No

****

* Path coefficients and P values *

****

Path coefficients

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR	-0.696	-0.360	-0.174		
ROA	0.599	-0.006	-0.411	-0.096	

P values

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR	<0.001	<0.001	0.041		
ROA	<0.001	0.476	<0.001	0.163	

****

* Standard errors for path coefficients *

****

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR	0.096	0.096	0.096		
ROA	0.096	0.096	0.096	0.096	

****

* Effect sizes for path coefficients *

****

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR	0.408	0.131	0.060		
ROA	0.483	0.002	0.301	0.036	

****

* Combined loadings and cross-loadings *

****

	IRR	PDN	NPL	CAR	ROA	Type (a	SE	P value
1.000	-0.000	0.000	-0.000	-0.000	Formati	0.096	<0.001	

PDN (X2	0.000 <0.001	1.000	0.000	-0.000	-0.000	Formati	0.096
NPL (X3	-0.000 <0.001	0.000	1.000	-0.000	0.000	Formati	0.096
CAR (Y1	0.000 <0.001	-0.000	-0.000	1.000	-0.000	Formati	0.096
ROA (Y2	0.000 <0.001	-0.000	0.000	-0.000	1.000	Formati	0.096

Notes: Loadings are unrotated and cross-loadings are oblique-rotated. SEs and P values are for loadings. P values < 0.05 are desirable for reflective indicators.

****

* Normalized combined loadings and cross-loadings *

****

	IRR	PDN	NPL	CAR	ROA
IRR (X1	1.000	-0.000	0.000	-0.000	-0.000
PDN (X2	0.000	1.000	0.000	-0.000	-0.000
NPL (X3	-0.000	0.000	1.000	-0.000	0.000
CAR (Y1	0.000	-0.000	-0.000	1.000	-0.000
ROA (Y2	0.000	-0.000	0.000	-0.000	1.000

Note: Loadings are unrotated and cross-loadings are oblique-rotated, both after separate Kaiser normalizations.

****

* Pattern loadings and cross-loadings *

****

	IRR	PDN	NPL	CAR	ROA
IRR (X1	1.000	-0.000	0.000	-0.000	-0.000
PDN (X2	0.000	1.000	0.000	-0.000	-0.000
NPL (X3	-0.000	0.000	1.000	-0.000	0.000
CAR (Y1	0.000	-0.000	-0.000	1.000	-0.000
ROA (Y2	0.000	-0.000	0.000	-0.000	1.000

Note: Loadings and cross-loadings are oblique-rotated.

****

* Normalized pattern loadings and cross-loadings *

****

	IRR	PDN	NPL	CAR	ROA
IRR (X1	1.000	-0.000	0.000	-0.000	-0.000
PDN (X2	0.000	1.000	0.000	-0.000	-0.000
NPL (X3	-0.000	0.000	1.000	-0.000	0.000
CAR (Y1	0.000	-0.000	-0.000	1.000	-0.000
ROA (Y2	0.000	-0.000	0.000	-0.000	1.000

Note: Loadings and cross-loadings shown are after oblique rotation and Kaiser normalization.

****

* Structure loadings and cross-loadings *

****

	IRR	PDN	NPL	CAR	ROA
IRR (X1	1.000	-0.110	-0.581	-0.212	0.803
PDN (X2	-0.110	1.000	0.287	-0.258	-0.154
NPL (X3	-0.581	0.287	1.000	0.307	-0.626
CAR (Y1	-0.212	-0.258	0.307	1.000	-0.168
ROA (Y2	0.803	-0.154	-0.626	-0.168	1.000

Note: Loadings and cross-loadings are unrotated.

****

* Normalized structure loadings and cross-loadings *

****

	IRR	PDN	NPL	CAR	ROA
IRR (X1	0.700	-0.077	-0.407	-0.148	0.563
PDN (X2	-0.101	0.919	0.263	-0.237	-0.142
NPL (X3	-0.421	0.208	0.724	0.223	-0.454
CAR (Y1	-0.191	-0.232	0.277	0.900	-0.151
ROA (Y2	0.556	-0.107	-0.433	-0.116	0.692

Note: Loadings and cross-loadings shown are unrotated and after Kaiser normalization.

****

* Indicator weights *

****

	IRR P value	PDN VIF	NPL WLS	CAR ES	ROA	Type (a	SE
IRR (X1	1.000 <0.001	0.000 0.000	0.000 1	0.000 1.000	0.000	Formati	0.096
PDN (X2	0.000 <0.001	1.000 0.000	0.000 1	0.000 1.000	0.000	Formati	0.096
NPL (X3	0.000 <0.001	0.000 0.000	1.000 1	0.000 1.000	0.000	Formati	0.096
CAR (Y1	0.000 <0.001	0.000 0.000	0.000 1	1.000 1.000	0.000	Formati	0.096
ROA (Y2	0.000 <0.001	0.000 0.000	0.000 1	0.000 1.000	1.000	Formati	0.096

Notes: P values < 0.05 and VIFs < 2.5 are desirable for formative indicators; VIF = indicator variance inflation factor;

WLS = indicator weight-loading sign (-1 = Simpson's paradox in l.v.); ES = indicator effect size.

****

* Latent variable coefficients *

****

R-squared coefficients

IRR	PDN	NPL	CAR	ROA
		0.478	0.822	

Adjusted R-squared coefficients

IRR	PDN	NPL	CAR	ROA
		0.418	0.794	

Composite reliability coefficients

IRR	PDN	NPL	CAR	ROA
1.000	1.000	1.000	1.000	1.000

Cronbach's alpha coefficients

IRR	PDN	NPL	CAR	ROA
1.000	1.000	1.000	1.000	1.000

Average variances extracted

IRR	PDN	NPL	CAR	ROA
1.000	1.000	1.000	1.000	1.000

Full collinearity VIFs

IRR	PDN	NPL	CAR	ROA
2.931	1.278	2.056	1.300	3.189

Q-squared coefficients

IRR	PDN	NPL	CAR	ROA
		0.505	0.735	

****

* Ccorrelations among latent variables and errors *

****

Correlations among l.vs. with sq. rts. of AVEs

	IRR	PDN	NPL	CAR	ROA
IRR	1.000	-0.110	-0.581	-0.212	0.803
PDN	-0.110	1.000	0.287	-0.258	-0.154
NPL	-0.581	0.287	1.000	0.307	-0.626
CAR	-0.212	-0.258	0.307	1.000	-0.168
ROA	0.803	-0.154	-0.626	-0.168	1.000

uare roots of average variances extracted (AVEs) shown on diagonal.

P values for correlations

	IRR	PDN	NPL	CAR	ROA
IRR	1.000	0.564	<0.001	0.261	<0.001
PDN	0.564	1.000	0.125	0.168	0.416
NPL	<0.001	0.125	1.000	0.098	<0.001
CAR	0.261	0.168	0.098	1.000	0.374
ROA	<0.001	0.416	<0.001	0.374	1.000

Correlations among l.v. error terms with VIFs

	(e)CAR	(e)ROA
(e)CAR	1.005	0.073
(e)ROA	0.073	1.005

Notes: Variance inflation factors (VIFs) shown on diagonal. Error terms included (a.k.a. residuals) are for endogenous l.vs.

P values for correlations

(e)CAR	(e)ROA
1.000	0.700
0.700	1.000

****

* Block variance inflation factors *

****

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR	1.952	1.013	1.970		
ROA	1.731	1.453	2.188	1.515	

Note: These VIFs are for the latent variables on each column (predictors), with reference to the latent variables on each row (criteria).

****

* Indirect and total effects *

****

Indirect effects for paths with 2 segments

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
	0.067	0.035	0.017		

Number of paths with 2 segments

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR					
ROA	1	1	1		

P values of indirect effects for paths with 2 segments

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR					
ROA	0.166	0.307	0.404		

Standard errors of indirect effects for paths with 2 segments

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	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
	0.068	0.068	0.068		

Effect sizes of indirect effects for paths with 2 segments

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR					
ROA	0.054	0.014	0.012		

Sums of indirect effects

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR					
ROA	0.067	0.035	0.017		

Number of paths for indirect effects

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					

ROA 1 1 1

P values for sums of indirect effects

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR					
ROA	0.166	0.307	0.404		

Standard errors for sums of indirect effects

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR					
ROA	0.068	0.068	0.068		

Effect sizes for sums of indirect effects

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					

ROA	0.054	0.014	0.012	

Total effects

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR	-0.696	-0.360	-0.174		
ROA	0.666	0.029	-0.394	-0.096	

Number of paths for total effects

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR	1 1	1			
ROA	2 2	2	1		

P values for total effects

	IRR	PDN	NPL	CAR	ROA
IRR					

CAR	<0.001	<0.001	0.041	
ROA	<0.001	0.384	<0.001	0.163

Standard errors for total effects

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR	0.096	0.096	0.096		
ROA	0.096	0.096	0.096	0.096	

Effect sizes for total effects

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR	0.408	0.131	0.060		
ROA	0.537	0.011	0.288	0.036	

****

* Causality assessment coefficients *

****

Path-correlation signs

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR	1	1	-1		
ROA	1	1	1	1	

Notes: path-correlation signs; negative sign (i.e., -1) = Simpson's paradox.

R-squared contributions

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR	0.408	0.131	-0.060		
ROA	0.483	0.002	0.301	0.036	

Notes: R-squared contributions of predictor lat. vars.; columns = predictor lat. vars.; rows = criteria lat. vars.; negative sign = reduction in R-squared.

Path-correlation ratios

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR	1.189	0.991	0.500		
ROA	0.743	0.015	0.562	0.259	

Notes: absolute path-correlation ratios; ratio > 1 indicates statistical suppression; 1 < ratio <= 1.3: weak suppression; 1.3 < ratio <= 1.7: medium; 1.7 < ratio: strong.

Path-correlation differences

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR	0.110	0.003	0.521		
ROA	0.207	0.388	0.320	0.276	

solute path-correlation differences.

P values for path-correlation differences

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR	0.130	0.486	<0.001		
ROA	0.020	<0.001	0.001	0.004	

Note: P values for absolute path-correlation differences.

Warp2 bivariate causal direction ratios

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR	1.217	1.301	1.740		
ROA	1.011	1.143	0.998	0.532	

Notes: Warp2 bivariate causal direction ratios; ratio > 1 supports reversed link; 1 < ratio <= 1.3: weak support; 1.3 < ratio <= 1.7: medium; 1.7 < ratio: strong.

variate causal direction differences

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR	0.068	0.093	0.228		
ROA	0.009	0.041	0.002	0.170	

Note: absolute Warp2 bivariate causal direction differences.

P values for Warp2 bivariate causal direction differences

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR	0.242	0.171	0.013		
ROA	0.462	0.336	0.493	0.044	

Note: P values for absolute Warp2 bivariate causal direction differences.

Warp3 bivariate causal direction ratios

	IRR	PDN	NPL	CAR	ROA

IRR				
PDN				
NPL				
CAR	0.674	1.184	1.711	
ROA	1.011	0.837	0.997	0.634

Notes: Warp3 bivariate causal direction ratios; ratio > 1 supports reversed link; 1 < ratio <= 1.3: weak support; 1.3 < ratio <= 1.7: medium; 1.7 < ratio: strong.

Warp3 bivariate causal direction differences

	IRR	PDN	NPL	CAR	ROA
IRR					
PDN					
NPL					
CAR	0.191	0.067	0.247		
ROA	0.009	0.064	0.002	0.136	

Note: absolute Warp3 bivariate causal direction differences.

P values for Warp3 bivariate causal direction differences

	IRR	PDN	NPL	CAR	ROA

NPL				
CAR	0.029	0.246	0.008	
ROA	0.465	0.255	0.491	0.084

Note: P values for absolute Warp3 bivariate causal direction differences.

****

* Correlations among indicators *

****

Indicator correlations

	IRR (X1	PDN (X2	NPL (X3	CAR (Y1	ROA (Y2
IRR (X1	1.000	-0.110	-0.581	-0.212	0.803
PDN (X2	-0.110	1.000	0.287	-0.258	-0.154
NPL (X3	-0.581	0.287	1.000	0.307	-0.626
CAR (Y1	-0.212	-0.258	0.307	1.000	-0.168
ROA (Y2	0.803	-0.154	-0.626	-0.168	1.000

P values for correlations

	IRR (X1	PDN (X2	NPL (X3	CAR (Y1	ROA
	1.000	0.564	<0.001	0.261	<0.001

PDN (X2	0.564	1.000	0.125	0.168	0.416
NPL (X3	<0.001	0.125	1.000	0.098	<0.001
CAR (Y1	0.261	0.168	0.098	1.000	0.374
ROA (Y2	<0.001	0.416	<0.001	0.374	1.000

****

* Latent variable (a.k.a. factor) scores (standardized values) *

****

IRR	PDN	NPL	CAR	ROA
-1.419	0.845	3.480	-0.460	-1.209
-1.370	0.621	1.830	-0.296	-2.048
-0.592	1.145	0.355	-1.129	-1.821
-0.824	0.689	-0.230	-1.025	-1.318
-0.311	-0.012	-0.061	0.768	-0.663
-0.129	-0.580	-0.444	0.396	-0.328
0.483	-0.790	-0.289	0.061	-0.328
1.228	-0.374	-0.418	-0.534	0.092
0.384	-1.017	-0.522	-0.118	0.168
0.698	-0.985	-0.191	1.102	-0.579
0.086	0.357	0.062	0.849	0.898
1.178	1.257	-0.204	-0.259	1.107
0.814	3.300	-0.224	-1.248	0.746
0.069	0.288	-0.074	-1.241	0.369
1.591	0.010	-0.295	-1.033	1.132
	0.386	-0.503	-0.586	1.376
	-0.515	-0.555	0.154	1.560

1.707	-0.461	-0.542	0.169	1.460
0.549	-0.204	-0.522	0.660	1.208
0.516	-0.757	-0.425	1.508	0.755
-1.965	0.046	3.058	3.260	-1.838
-1.271	0.411	0.199	1.567	-0.831
-1.089	1.977	-0.061	-0.326	-0.663
-1.287	-0.356	-0.568	-0.412	-0.135
-0.807	-0.931	-0.425	-1.181	0.176
-0.791	-1.057	-0.483	-0.445	0.067
-0.013	-1.140	-0.535	-0.393	0.218
0.367	-0.732	-0.535	-0.597	0.310
-0.294	-0.873	-0.490	0.024	0.235
-0.179	-0.547	-0.386	0.768	-0.118