

```
> M1_P1 <- cfa(M1_Parc, data=A4L_6, std.ov=T,orthogonal=F, std.lv=T,
mimic="lavaan", estimator="MLR", missing="fiml")
> summary(M1_P1, fit.measures=TRUE, standardized=TRUE)
```

```
M1_Parc <- '
UM =~ UM_1 + UM_2 + UM_3
RFP =~ RFP_1 + RFP_2
RM =~ RM_1 + RM_2 + RM_3
RA =~ RA_1 + RA_2
RQP =~ RQP_1 + RQP_2 + RQP_3
RC =~ RC_1 + RC_2
FM =~ FM_1 + FM_2 + FM_3
SJM =~ SJM_1 + SJM_2 + SJM_3
RO =~ RO_1 + RO_2 + RO_3
SR =~ SR_1 + SR_2
CO =~ CO_1 + CO_2 + CO_3
HRD =~ HRD_1 + HRD_2 + HRD_3
SC =~ SC_1 + SC_2 + SC_3
WP =~ WP_1 + WP_2 + WP_3

THREAT =~ CO + HRD + SC
L12 =~ RFP + RM + RA + RQP + RC
```

lavaan 0.6-19 ended normally after 81 iterations

Estimator	ML
Optimization method	NLMINB
Number of model parameters	150
Number of observations	752
Number of missing patterns	67

Model Test User Model:

	Standard	Scaled
Test Statistic	1912.466	1590.742
Degrees of freedom	629	629
P-value (Chi-square)	0.000	0.000
Scaling correction factor		1.202
Yuan-Bentler correction (Mplus variant)		

Model Test Baseline Model:

Test statistic	17392.265	12686.127
Degrees of freedom	703	703
P-value	0.000	0.000
Scaling correction factor		1.371

User Model versus Baseline Model:

Comparative Fit Index (CFI)	0.923	0.920
Tucker-Lewis Index (TLI)	0.914	0.910
Robust Comparative Fit Index (CFI)		0.932
Robust Tucker-Lewis Index (TLI)		0.924

Loglikelihood and Information Criteria:

Loglikelihood user model (H0)	-32154.410	-32154.410
Scaling correction factor for the MLR correction		3.005
Loglikelihood unrestricted model (H1)	-31198.177	-31198.177
Scaling correction factor for the MLR correction		1.549
Akaike (AIC)	64608.819	64608.819
Bayesian (BIC)	65302.230	65302.230
Sample-size adjusted Bayesian (SABIC)	64825.920	64825.920

Root Mean Square Error of Approximation:

RMSEA	0.052	0.045
90 Percent confidence interval - lower	0.049	0.043
90 Percent confidence interval - upper	0.055	0.048
P-value H ₀ : RMSEA ≤ 0.050	0.097	0.999
P-value H ₀ : RMSEA ≥ 0.080	0.000	0.000
Robust RMSEA		0.049
90 Percent confidence interval - lower		0.046
90 Percent confidence interval - upper		0.053
P-value H ₀ : Robust RMSEA ≤ 0.050		0.617
P-value H ₀ : Robust RMSEA ≥ 0.080		0.000

Standardized Root Mean Square Residual:

SRMR	0.057	0.057
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Parameter Estimates:

Standard errors	Sandwich
Information bread	Observed
Observed information based on	Hessian

Latent Variables:

	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
UM =~						
UM_1	0.911	0.067	13.691	0.000	0.911	0.894
UM_2	0.948	0.066	14.400	0.000	0.948	0.948

UM_3	0.811	0.048	16.791	0.000	0.811	0.806
RFP =~						
RFP_1	0.501	0.138	3.640	0.000	0.740	0.738
RFP_2	0.561	0.156	3.595	0.000	0.828	0.825
RM =~						
RM_1	0.624	0.173	3.606	0.000	0.728	0.725
RM_2	0.690	0.137	5.034	0.000	0.805	0.805
RM_3	0.361	0.094	3.841	0.000	0.421	0.421
RA =~						
RA_1	0.617	0.057	10.774	0.000	0.813	0.805
RA_2	0.717	0.065	10.979	0.000	0.945	0.946
RQP =~						
RQP_1	0.232	0.067	3.472	0.001	0.603	0.603
RQP_2	0.250	0.085	2.922	0.003	0.649	0.649
RQP_3	0.317	0.097	3.256	0.001	0.825	0.824
RC =~						
RC_1	0.751	0.097	7.772	0.000	0.835	0.830
RC_2	0.711	0.098	7.260	0.000	0.791	0.792
FM =~						
FM_1	0.850	0.073	11.710	0.000	0.850	0.846
FM_2	0.792	0.067	11.843	0.000	0.792	0.787
FM_3	0.800	0.057	13.972	0.000	0.800	0.793
SJM =~						
SJM_1	0.864	0.053	16.434	0.000	0.864	0.866
SJM_2	0.823	0.063	13.032	0.000	0.823	0.823
SJM_3	0.370	0.037	9.953	0.000	0.370	0.370
RO =~						
RO_1	0.706	0.042	16.728	0.000	0.706	0.706
RO_2	0.936	0.030	31.527	0.000	0.936	0.937
RO_3	0.892	0.029	30.824	0.000	0.892	0.891
SR =~						
SR_1	0.971	0.036	26.770	0.000	0.971	0.971
SR_2	0.906	0.036	25.392	0.000	0.906	0.907
CO =~						
CO_1	0.705	0.033	21.131	0.000	0.792	0.792
CO_2	0.809	0.039	20.894	0.000	0.908	0.908
CO_3	0.587	0.032	18.357	0.000	0.659	0.659
HRD =~						
HRD_1	0.587	0.040	14.568	0.000	0.852	0.851
HRD_2	0.658	0.047	14.099	0.000	0.957	0.957
HRD_3	0.487	0.034	14.203	0.000	0.707	0.708
SC =~						
SC_1	0.509	0.040	12.863	0.000	0.838	0.838
SC_2	0.590	0.048	12.321	0.000	0.971	0.970
SC_3	0.510	0.040	12.907	0.000	0.839	0.839
WP =~						
WP_1	0.932	0.023	40.764	0.000	0.932	0.933
WP_2	0.929	0.021	43.508	0.000	0.929	0.930
WP_3	0.941	0.020	47.286	0.000	0.941	0.942

THREAT ==						
CO	-0.510	0.076	-6.755	0.000	-0.455	-0.455
HRD	1.054	0.123	8.556	0.000	0.725	0.725
SC	1.306	0.161	8.127	0.000	0.794	0.794
L12 ==						
RFP	1.086	0.327	3.319	0.001	0.736	0.736
RM	0.602	0.188	3.204	0.001	0.516	0.516
RA	0.858	0.143	5.998	0.000	0.651	0.651
RQP	2.399	0.802	2.992	0.003	0.923	0.923
RC	0.486	0.111	4.376	0.000	0.437	0.437

Covariances:

	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
UM ~~						
FM	-0.148	0.057	-2.578	0.010	-0.148	-0.148
SJM	0.115	0.032	3.632	0.000	0.115	0.115
RO	0.291	0.052	5.551	0.000	0.291	0.291
SR	0.154	0.042	3.699	0.000	0.154	0.154
WP	0.034	0.036	0.931	0.352	0.034	0.034
THREAT	0.106	0.047	2.262	0.024	0.106	0.106
L12	-0.034	0.054	-0.635	0.525	-0.034	-0.034
FM ~~						
SJM	0.066	0.061	1.086	0.278	0.066	0.066
RO	-0.296	0.043	-6.861	0.000	-0.296	-0.296
SR	-0.170	0.044	-3.844	0.000	-0.170	-0.170
WP	-0.156	0.038	-4.094	0.000	-0.156	-0.156
THREAT	-0.281	0.054	-5.171	0.000	-0.281	-0.281
L12	0.575	0.068	8.424	0.000	0.575	0.575
SJM ~~						
RO	0.041	0.048	0.866	0.386	0.041	0.041
SR	0.104	0.055	1.878	0.060	0.104	0.104
WP	-0.114	0.043	-2.653	0.008	-0.114	-0.114
THREAT	-0.131	0.050	-2.642	0.008	-0.131	-0.131
L12	0.072	0.044	1.621	0.105	0.072	0.072
RO ~~						
SR	0.298	0.041	7.333	0.000	0.298	0.298
WP	0.128	0.040	3.216	0.001	0.128	0.128
THREAT	0.271	0.049	5.571	0.000	0.271	0.271
L12	-0.243	0.049	-4.927	0.000	-0.243	-0.243
SR ~~						
WP	0.021	0.042	0.494	0.621	0.021	0.021
THREAT	0.196	0.047	4.136	0.000	0.196	0.196
L12	-0.104	0.052	-2.002	0.045	-0.104	-0.104
WP ~~						
THREAT	0.296	0.044	6.796	0.000	0.296	0.296
L12	-0.160	0.038	-4.183	0.000	-0.160	-0.160
THREAT ~~						
L12	-0.400	0.059	-6.818	0.000	-0.400	-0.400

Intercepts:

	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
.UM_1	-0.013	0.038	-0.344	0.731	-0.013	-0.013
.UM_2	-0.004	0.037	-0.112	0.911	-0.004	-0.004
.UM_3	-0.005	0.037	-0.133	0.894	-0.005	-0.005
.RFP_1	0.003	0.037	0.069	0.945	0.003	0.003
.RFP_2	0.002	0.037	0.067	0.947	0.002	0.002
.RM_1	0.004	0.037	0.094	0.925	0.004	0.003
.RM_2	0.000	0.036	0.000	1.000	0.000	0.000
.RM_3	-0.000	0.036	-0.004	0.997	-0.000	-0.000
.RA_1	0.009	0.037	0.236	0.813	0.009	0.009
.RA_2	-0.000	0.037	-0.005	0.996	-0.000	-0.000
.RQP_1	0.003	0.037	0.077	0.939	0.003	0.003
.RQP_2	0.001	0.037	0.040	0.968	0.001	0.001
.RQP_3	0.003	0.037	0.084	0.933	0.003	0.003
.RC_1	0.003	0.037	0.086	0.931	0.003	0.003
.RC_2	-0.000	0.036	-0.009	0.993	-0.000	-0.000
.FM_1	0.007	0.037	0.183	0.854	0.007	0.007
.FM_2	0.008	0.037	0.226	0.821	0.008	0.008
.FM_3	0.018	0.038	0.477	0.633	0.018	0.018
.SJM_1	-0.001	0.037	-0.031	0.975	-0.001	-0.001
.SJM_2	0.001	0.037	0.020	0.984	0.001	0.001
.SJM_3	-0.001	0.037	-0.030	0.976	-0.001	-0.001
.RO_1	-0.003	0.037	-0.075	0.940	-0.003	-0.003
.RO_2	-0.006	0.037	-0.155	0.876	-0.006	-0.006
.RO_3	-0.004	0.037	-0.113	0.910	-0.004	-0.004
.SR_1	-0.000	0.037	-0.004	0.997	-0.000	-0.000
.SR_2	-0.002	0.037	-0.045	0.964	-0.002	-0.002
.CO_1	0.001	0.037	0.038	0.969	0.001	0.001
.CO_2	0.002	0.037	0.044	0.965	0.002	0.002
.CO_3	0.002	0.037	0.062	0.951	0.002	0.002
.HRD_1	0.001	0.037	0.036	0.971	0.001	0.001
.HRD_2	0.000	0.037	0.003	0.998	0.000	0.000
.HRD_3	-0.001	0.037	-0.031	0.975	-0.001	-0.001
.SC_1	-0.006	0.037	-0.161	0.872	-0.006	-0.006
.SC_2	-0.004	0.037	-0.118	0.906	-0.004	-0.004
.SC_3	-0.001	0.037	-0.027	0.979	-0.001	-0.001
.WP_1	0.003	0.036	0.072	0.943	0.003	0.003
.WP_2	-0.001	0.036	-0.023	0.982	-0.001	-0.001
.WP_3	0.002	0.036	0.059	0.953	0.002	0.002

Variances:

	Estimate	Std.Err	z-value	P(> z)	Std.lv	Std.all
.UM_1	0.209	0.025	8.366	0.000	0.209	0.201
.UM_2	0.101	0.021	4.811	0.000	0.101	0.101
.UM_3	0.355	0.028	12.711	0.000	0.355	0.350
.RFP_1	0.458	0.127	3.616	0.000	0.458	0.455
.RFP_2	0.320	0.120	2.660	0.008	0.320	0.319
.RM_1	0.479	0.183	2.620	0.009	0.479	0.475

.RM_2	0.351	0.161	2.182	0.029	0.351	0.352
.RM_3	0.821	0.186	4.415	0.000	0.821	0.823
.RA_1	0.359	0.062	5.825	0.000	0.359	0.352
.RA_2	0.104	0.061	1.716	0.086	0.104	0.105
.RQP_1	0.637	0.049	13.071	0.000	0.637	0.636
.RQP_2	0.578	0.100	5.780	0.000	0.578	0.579
.RQP_3	0.321	0.068	4.761	0.000	0.321	0.321
.RC_1	0.315	0.120	2.631	0.009	0.315	0.311
.RC_2	0.372	0.115	3.241	0.001	0.372	0.373
.FM_1	0.287	0.044	6.479	0.000	0.287	0.285
.FM_2	0.385	0.044	8.744	0.000	0.385	0.380
.FM_3	0.376	0.048	7.793	0.000	0.376	0.370
.SJM_1	0.250	0.091	2.754	0.006	0.250	0.251
.SJM_2	0.324	0.079	4.077	0.000	0.324	0.323
.SJM_3	0.862	0.035	24.667	0.000	0.862	0.863
.RO_1	0.501	0.041	12.212	0.000	0.501	0.501
.RO_2	0.122	0.031	3.986	0.000	0.122	0.122
.RO_3	0.205	0.030	6.789	0.000	0.205	0.205
.SR_1	0.058	0.061	0.957	0.339	0.058	0.058
.SR_2	0.178	0.057	3.116	0.002	0.178	0.178
.CO_1	0.372	0.031	11.837	0.000	0.372	0.372
.CO_2	0.175	0.042	4.200	0.000	0.175	0.175
.CO_3	0.566	0.036	15.691	0.000	0.566	0.566
.HRD_1	0.276	0.027	10.102	0.000	0.276	0.275
.HRD_2	0.084	0.035	2.386	0.017	0.084	0.084
.HRD_3	0.499	0.038	13.094	0.000	0.499	0.499
.SC_1	0.298	0.026	11.304	0.000	0.298	0.298
.SC_2	0.059	0.028	2.110	0.035	0.059	0.059
.SC_3	0.296	0.028	10.596	0.000	0.296	0.296
.WP_1	0.130	0.017	7.674	0.000	0.130	0.130
.WP_2	0.135	0.014	9.636	0.000	0.135	0.135
.WP_3	0.112	0.013	8.374	0.000	0.112	0.113
UM	1.000				1.000	1.000
.RFP	1.000				0.459	0.459
.RM	1.000				0.734	0.734
.RA	1.000				0.576	0.576
.RQP	1.000				0.148	0.148
.RC	1.000				0.809	0.809
FM	1.000				1.000	1.000
SJM	1.000				1.000	1.000
RO	1.000				1.000	1.000
SR	1.000				1.000	1.000
.CO	1.000				0.793	0.793
.HRD	1.000				0.474	0.474
.SC	1.000				0.370	0.370
WP	1.000				1.000	1.000
THREAT	1.000				1.000	1.000
L12	1.000				1.000	1.000

Parcels:

A10_1 RFP_1

A10_2 RFP_2

A10_3 RFP_1

A10_4 RFP_2

A10_5 RQP_3

A11_1 RM_1

A11_2 RM_2

A11_3 RM_2

A11_4 RM_1

A11_5 RM_3

A12_1 RA_1

A12_2 RA_2

A12_3 RA_1

A12_4 RA_2

A13_1 RQP_1

A13_2 RQP_2

A13_3 RQP_3

A13_4	RQP_1
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A14_1	RC_1
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A14_2	RC_2
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A14_3	RC_1
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A14_4	RC_2
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A15_1	FM_1
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A15_2	FM_2
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A15_3	FM_3
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A15_4	FM_1
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A15_5	FM_2
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A15_6	FM_3
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A15_7	FM_1
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A15_8	FM_2
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A15_9	FM_3
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A15_10	FM_1
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A15_11	FM_2
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A15_12	FM_3
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A15_13	FM_1
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A15_14 FM_2

A15_15 FM_3

A15_16 FM_1

A15_17 FM_2

A15_18 FM_3

A15_19 FM_1

A15_20 FM_2

A15_21 FM_3

A15_22 FM_1

A16_1 UM_1

A16_2 UM_2

A16_3 UM_3

A16_4 UM_1

A16_5 UM_2

A16_6 UM_3

A16_7 SJM_1

A16_8 SJM_2

A16_9 SJM_3

A16_10 RO_1

A16_11 RO_2

A16_12 RO_3

A16_13 SR_1

A16_14 SR_2

A17_1 CO_1

A17_2 CO_2

A17_3 CO_3

A17_4 HRD_1

A17_5 HRD_2

A17_6 HRD_3

A17_7 SC_1

A17_8 SC_2

A17_9 SC_3

Q21_1 WP_1

Q21_2 WP_2

Q21_3 WP_3

Q21_4 WP_1

Q21_5	WP_2
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Q21_6	WP_3
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Q21_7	WP_1
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Q21_8	WP_2
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Q21_9	WP_3
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Q21_10	WP_1
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