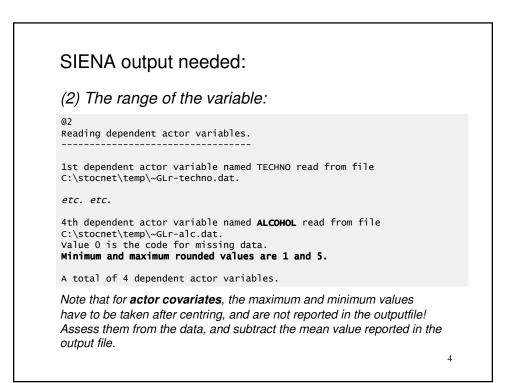
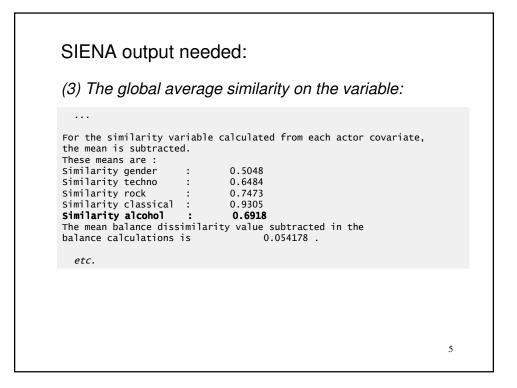
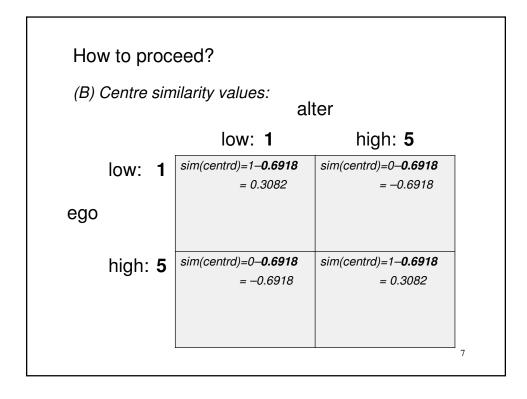


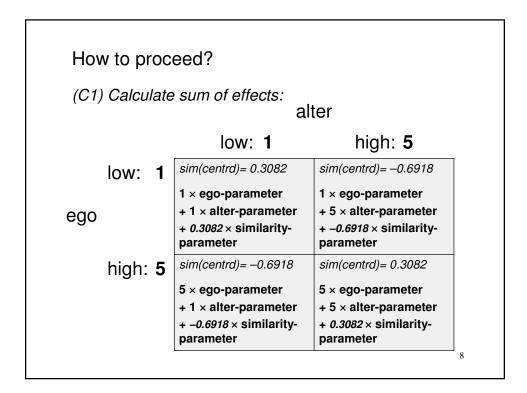
SIENA output needed:			
(1) The estimates of the similarity, in the network objective functio	ego and alt n:	er	effects
02 Estimation results.			
Regular end of estimation algorithm. Total of 5229 iteration steps.			
03 Estimates and standard errors			
 1: constant network rate (period 1) 2: constant network rate (period 2) etc. 	12.4476 9.5558		1.5410) 1.0762)
25. u: classical ego 26. u: alcohol similarity (centered) 27. u: alcohol alter		Ċ	0.1671
	-0.0284	Ċ	

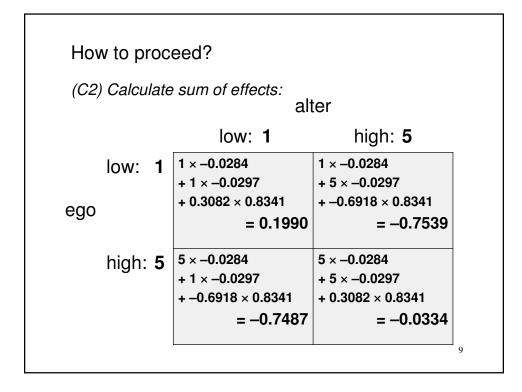


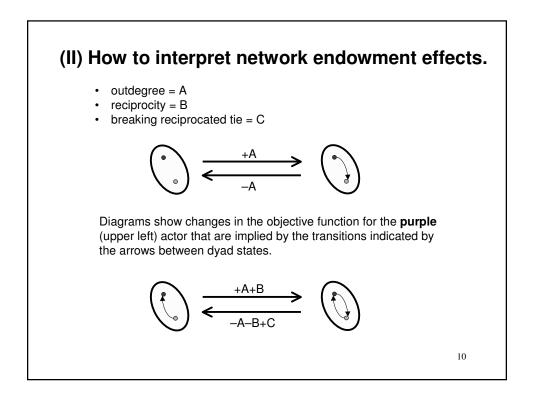


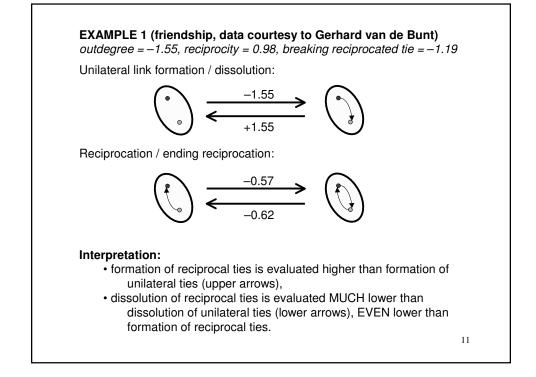
How to pr (A) Make a		go-alter table:		
		al low: 1	lter high: 5	
low:	1	similarity=1	similarity=0	
ego				
high:	5	similarity=0	similarity=1	
				6

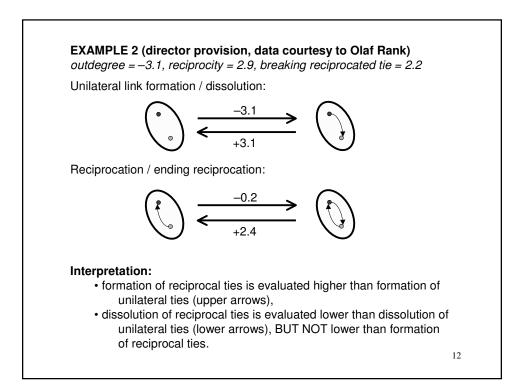


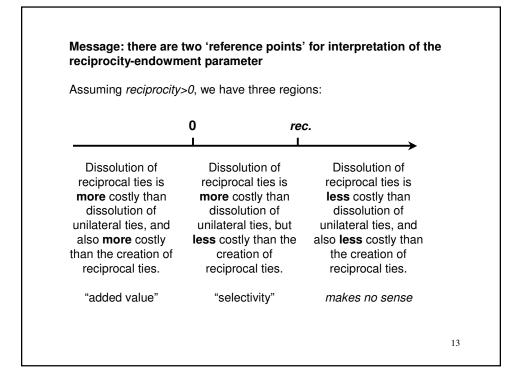


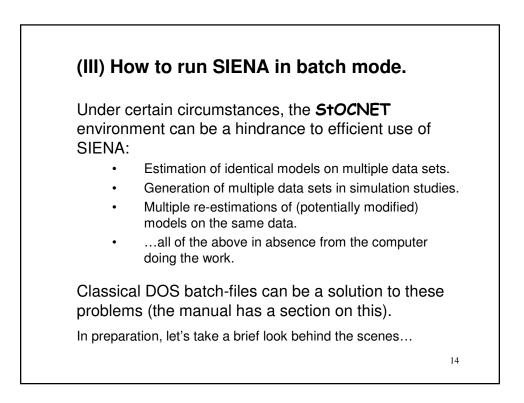


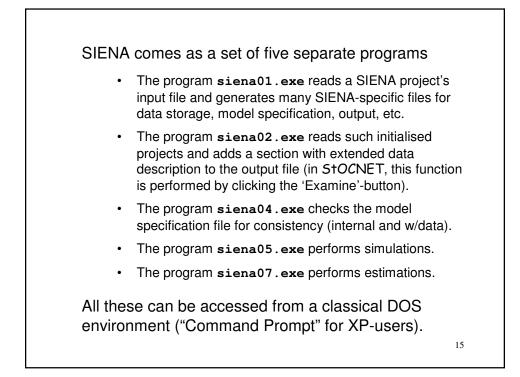


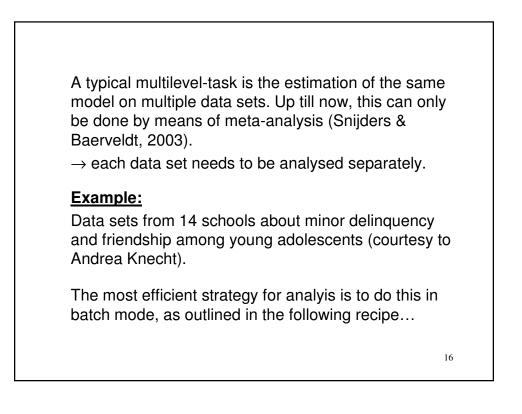






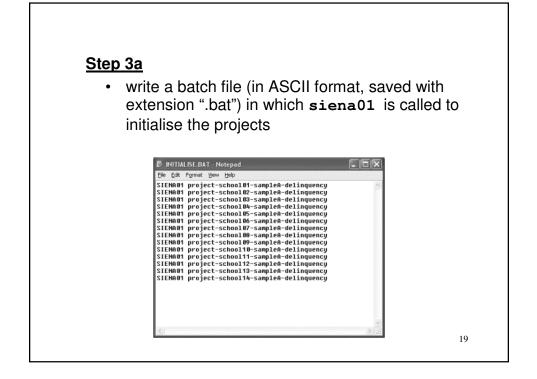


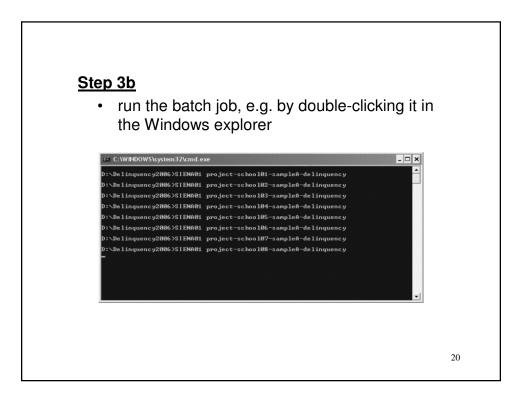


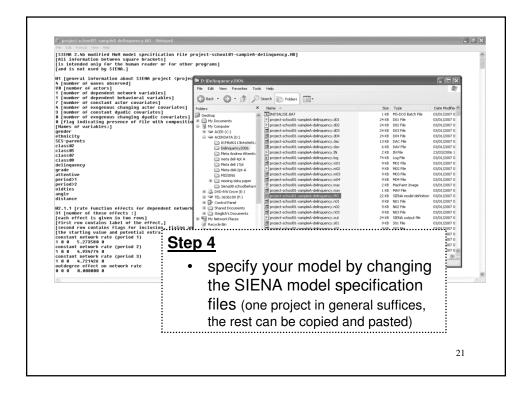


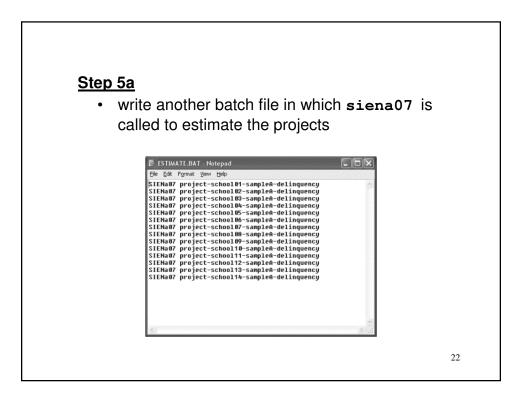
Bisk See to Folders Folders Size Type Date Modified Positop See all 1.exe 623 H8 Application 23/03/2006 16:50 Produmine Size 1,163 H8 Application 23/03/2006 16:50 Produmine See all 7.exe 1,163 H8 Application 23/03/2006 16:50 Produmine See all 7.exe 1,163 H8 Application 23/03/2006 14:12 Produmine See all 7.exe 1,163 H8 Application 23/03/2006 14:12 Produmine Sec all 7.exe 1,163 H8 Application 23/03/2006 14:12 Produmine Sec all 7.exe 1 H8 DAT File 07/03/2006 14:12 Produmine School) -sampleA-covi.dst 1 H8 DAT File 07/03/2006 14:12 Produmine School) -sampleA-covi.dst 1 H8 DAT File 07/03/2006 14:12 Produmine School) -sampleA-covi.dst 1 H8 DAT File 07/03/2006 14:12 Produmine School) -sampleA-covi.dst 1 H8 DAT File 07/03/2006 14:12 Produmine School) -sampleA-covi.dst 2 H8 DAT File	File Edit Yiew Favorites Too	ls <u>H</u> elp				ay.
Desktop Berhall.exe 623 HB Application 23/03/2006 16:50 23/03/2006 16:50 23/03/2006 16:50 23/03/2006 16:50 23/03/2006 16:50 23/03/2006 16:50 23/03/2006 16:50 23/03/2006 16:50 23/03/2006 16:50 23/03/2006 16:50 23/03/2006 16:50 23/03/2006 16:50 23/03/2006 16:50 23/03/2006 16:12 23/03/2006 16:1	3 Back + 0 - 0 0	Search Polders				
 In the directory to hold the analyses In the directory In the din the directory In the directory	Folders X	Name	Size	Туре 🔶	Date Modified	~
 Thy Documents Thy Computer Schooll-sampleA-acold.dt Scho	Desktop	Siena01.exe	623 KB	Application	23/03/2006 16:50	
 with Computer with Com		Siena07.exe	1,163 KB	Application	23/03/2006 23:10	
		school01-sampleA-alcohol.dat	1 KB	DAT File	07/03/2006 14:12	
		school01-sampleA-angle.dat	32 KB	DAT File	07/03/2006 14:12	
	🗏 🥯 ACERDATA (D:)	school01-sampleA-attentive.dat	1 KB	DAT File	07/03/2006 14:12	
 create a new directory to hold the analyses create a new directory to hold the analyses place the data in the directory place copies of the programs siena01 and siena07 in the directory 			1 KB	DAT File	23/03/2006 16:48	
 create a new directory to hold the analyses place the data in the directory place copies of the programs siena01 and siena07 in the directory Copy of DRAG-AUGUSTUS-2C school2-sampleA-atcrive.dat Copy of DRAG-AUGUSTUS-2C school2-sampleA-atcrive.dat 	Delinguency2006	school01-sampleA-cov1.dat	1 KB	DAT File	07/03/2006 14:12	
Copy of DRAG-AUGUSTUS-22 B schoolD2-sampleA-alcohol.dat 2 KB DAT File 07/03/2006 14:12 B of dengung ways 2006 B schoolD2-sampleA-alcohol.dat 2 KB DAT File 07/03/2006 14:12 B of Dengung ways 2006 B schoolD2-sampleA-alcohol.dat 2 KB DAT File 07/03/2006 14:12 B of Dengung ways 2006 B schoolD2-sampleA-alcohol.dat 2 KB DAT File 07/03/2006 14:12 B of Dengung ways 2006 B schoolD2-sampleA-alcohol.dat 2 KB DAT File 07/03/2006 14:12 B of Dengung ways 2006 B schoolD2-sampleA-classdummi 2 KB DAT File 07/03/2006 14:12	place the	data in the dire	ctory			
Copy or Linkows 2006 B school02-sampleA-angle.dat 48 KB DAT File 07/03/2006 14:12 Copy or Linkows 2006 B school02-sampleA-attritive.dat 2 KB DAT File 07/03/2006 14:12 Copy or Linkows 2006 B school02-sampleA-attritive.dat 2 KB DAT File 07/03/2006 14:12 Copy or Linkows 2006 B school02-sampleA-attritive.dat 2 KB DAT File 07/03/2006 14:12 Copy or Linkows 2006 B school02-sampleA-attritive.dat 1 KB DAT File 07/03/2006 14:12	 place the place copi	data in the dire les of the progr	ctory ams			
BrAcALSTUD-22006 BrAcALSTUD-2006 BrACALSTUD-200 BRACALSTUD-200	 place the opinion place copinion siena07 	data in the dire les of the progr in the directory	ctory ams	siena	101 and	
esteem Image: School02-sampleA-classdummi 2 KB DAT File 23/03/2006 16:48 image: School02-sampleA-classdummi 2 KB DAT File 07/03/2006 14:12 Image: School02-sampleA-classdummi	 place the oplace copi siena07 	data in the dire les of the progr in the directory	ctory ams	siena	101 and	
C SchoolD2-sampleA-cov1.dat 1 KB DAT File 07/03/2006 14:12	 place the oplace copies place copies siena07 copy of DRAG-AUGUSTUS-2C 	data in the dire les of the progr in the directory	ctory ams / 2 KB +8 KB	siena DAT File DAT File	01 and	
	 place the operation of the place copies of the place copies of the place copies of the place of	data in the dire les of the progr in the directory	ctory ams	Siena DAT File DAT File DAT File	01 and 07/03/2006 14-12 07/03/2006 14-12 07/03/2006 14-12	
gi i i i i i i i i i i i i i i i i i i	 place the operation of the place copies of the place copies of the place copies of the place of	data in the dire tes of the progr in the directory	ctory ams 2 KB 48 KB 2 KB 2 KB 2 KB	Siena DAT File DAT File DAT File DAT File	07/03/2006 14:12 07/03/2006 14:12 07/03/2006 14:12 07/03/2006 14:12 23/03/2006 16:49	
	 place the place copi siena07 Copy of DRAGAUQUSTUS-20 Generatory 2006 DRAGAUQUSTUS-2006 	data in the dire tes of the progr in the directory	ctory ams 2 KB 48 KB 2 KB 2 KB 2 KB	DAI File DAI File DAI File DAI File DAI File DAI File	0703/2006 14:12 0703/2006 14:12 0703/2006 14:12 0703/2006 14:12	Jer (

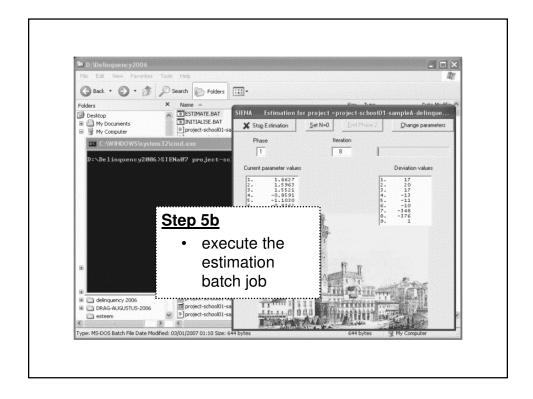
🖡 project-school01-sampleA-delinquency, IN - Notepad	
Fie EdX Format Yew Heb @fl[general information about SIEMA project <project-school01- 4 [number of waves] 90 [number of actors] 1 [number of dependent network variables] 1 [number of files with constant actor covariates]</project-school01- 	sampleA-delinquency>:]
<pre>4 [number of exogenous changing actor covariates] 3 [number of constant dyadic covariates] 0 [number of exogenous changing dyadic covariates] 0 [andicator for file with composition change directives] 02[network files in temporal order; names follow:] school01-sampleA-net-1.dat 1 [code for tie] 9 [code for nissing] 5 [code for nissing] 9 [code for nissing] 9 [code for nissing] 9 [code for tie] 9 [code for tis] 9 [code for tis] 9 [code for nissing] 5 chool01-sampleA-net-4.dat 1 [code for tie] 9 [code for nissing] 600[files with dependent actor variables, and their names:]</pre>	 Step 2 write SIENA input files (in ASCII format) for each data set to be analysed (this is a
school01-sampleA-delinquency.dat 0 [code for missing] delinquency @A[files with constant actor covariates:] school01-sampleA-cov1.dat 3 [number of covariates in this file; names follow:] 0 [code for missing] gender 0 [code for missing]	bit cumbersome)

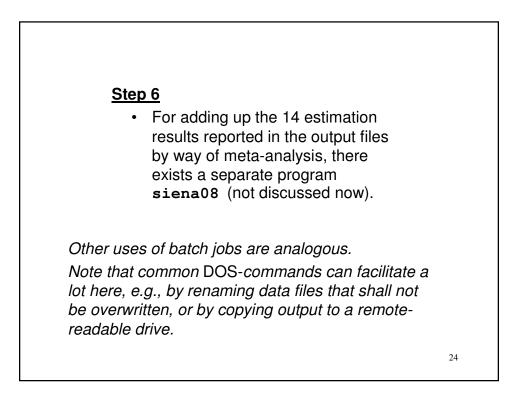


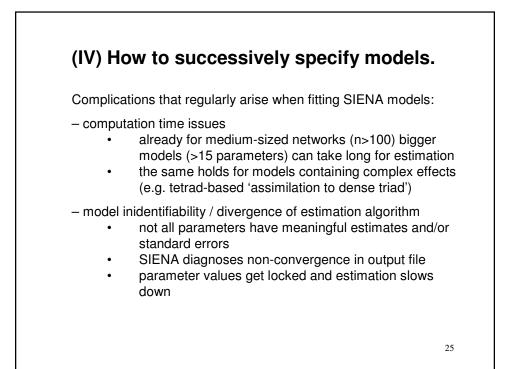


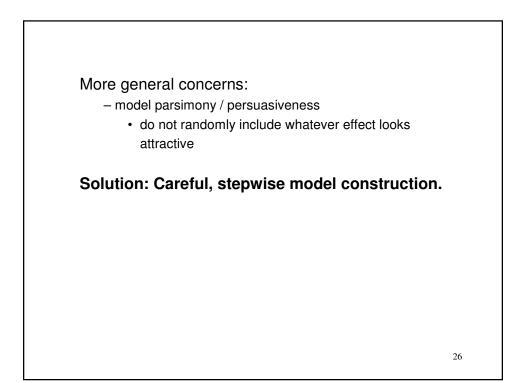


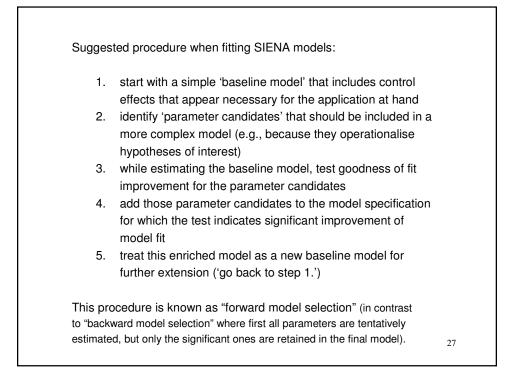


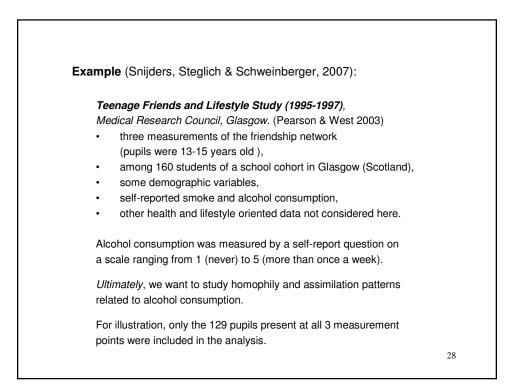


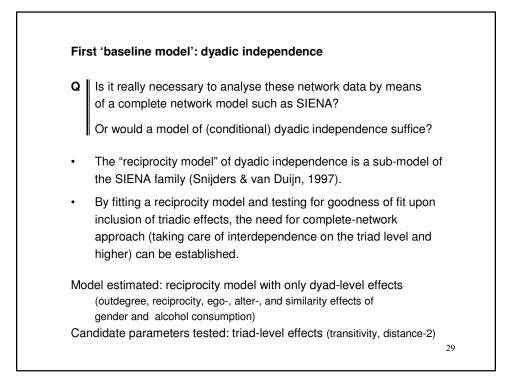


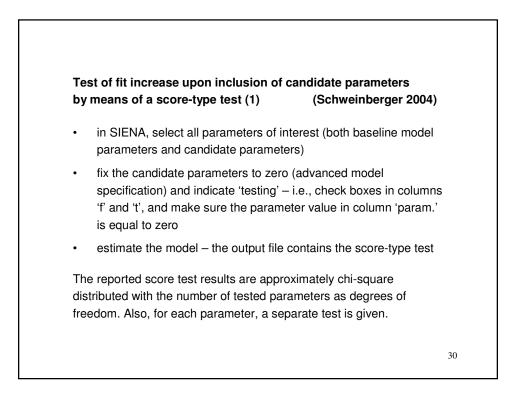


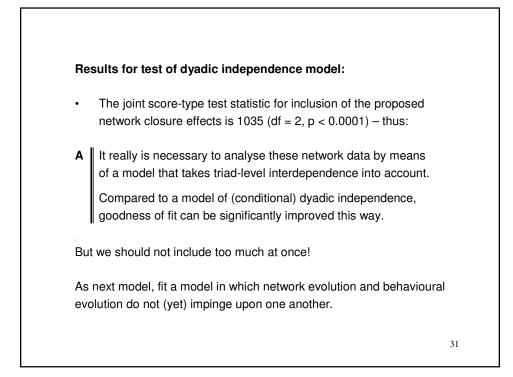


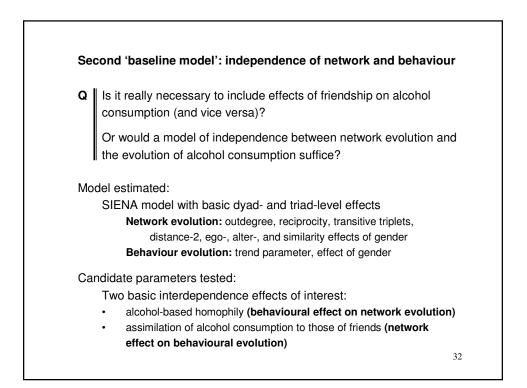




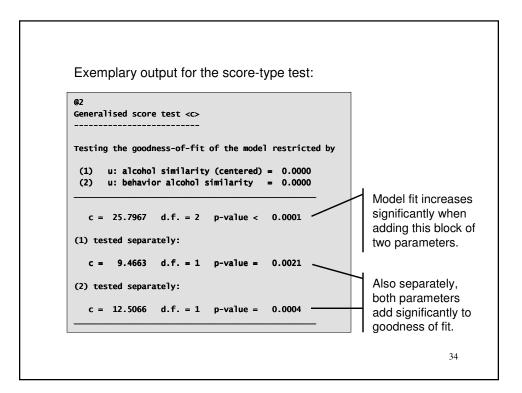


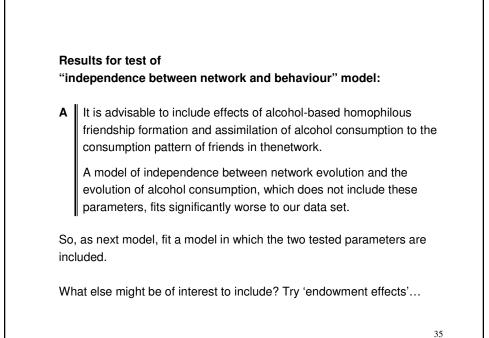


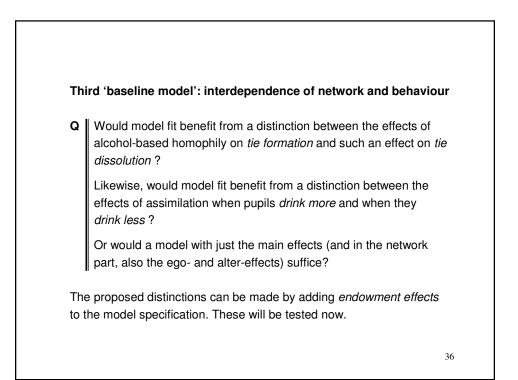


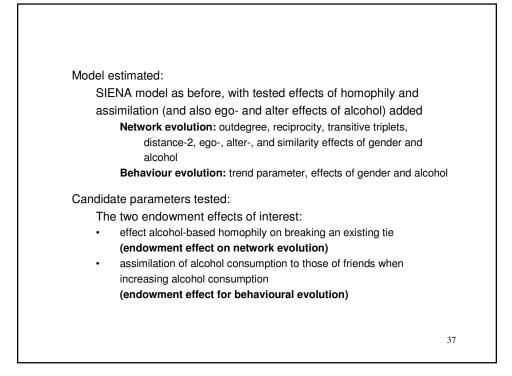


behaviour model:	Parameter	estimate	s.e.	p
	X: Network dynamics			
	X: outdegree	-2.11	0.08	< 0.001
	X: reciprocity	2.06	0.09	< 0.001
	X: transitive triplets	0.17	0.03	< 0.001
	X: distance-2	-0.80	0.11	< 0.001
	X: gender homophily	0.82	0.12	< 0.001
	X: gender ego (F)	0.18	0.09	0.05
	X: gender alter (F)	-0.25	0.10	0.02
	X: rate period 1	12.46	2.45	
	X: rate period 2	9.33	2.66	
	Z: Behavior (i.e., alco	ohol consum	ption)	dynam
	Z: tendency	0.27	0.06	< 0.001
	Z: gender (F)	0.08	0.15	0.57
	Z: rate period 1	1.36	0.21	
	Z: rate period 2	2.18	0.12	

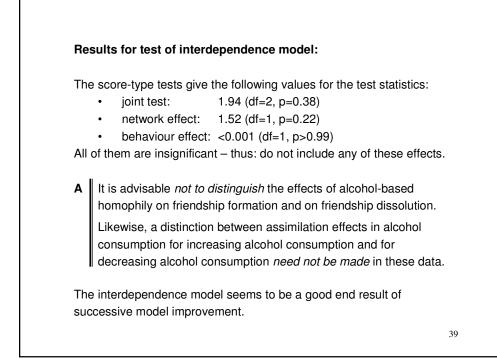








Estimated	Parameter	estimate	s.e.	<i>p</i> -value
parameters	X: Network dynamics			
of the	X: outdegree	-2.06	0.16	< 0.001
interdepen-	X: reciprocity	2.03	0.11	< 0.001
-	X: transitive triplets	0.17	0.04	< 0.001
dence model:	X: distance-2	-0.79	0.10	< 0.001
	X: gender homophily	0.84	0.11	< 0.001
	X: gender ego (F)	0.21	0.13	0.11
	X: gender alter (F)	-0.24	0.13	0.06
	X: alcohol homophily	0.89	0.30	0.003
	X: alcohol ego	-0.04	0.05	0.48
	X: alcohol alter	0.00	0.05	0.93
	X: rate period 1	12.37	3.38	
	X: rate period 2	9.22	3.50	
	Z: Behavior (i.e., alco	hol consum	ption)	dynamic
	Z: tendency	0.33	0.09	< 0.001
	Z: gender (F)	0.05	0.14	0.73
	Z: assimilation	3.91	1.08	< 0.001
	Z: rate period 1	1.53	0.23	
	Z: rate period 2	2.37	0.25	



iterature:	
Pearson, Mike, and Patrick West, 2003. Social network analysis and Markov processes in a longitu friendship groups and risk-taking. Connections 25, 59 – 76.	-
Schweinberger, Michael, 2005. Statistical modeling of network panel data: goodness-of-fi Submitted for publication.	t.
Snijders, Tom A.B., Christian Steglich, and Michael Schweinberg Modeling the co-evolution of networks and behavior. Chap Montfort, H. Oud and A. Satorra (Eds.), <i>Longitudinal models in and related sciences</i> . Mahwah NJ: Lawrence Erlbaum.	oter 3 in K. van
Snijders, Tom A.B., and Marijtje A.J. van Duijn, 1997. Simulation for statistical inference in dynamic network mo In: Conte, R., Hegselmann, R. Terna, P. (eds.), Simulating soc 493-512. Berlin: Springer (1997).	