

# Strategic planning using neural network-based, Delphi workshop software

Ray Wyatt

Department of Geography and Environmental Studies, The University of Melbourne,  
Parkville, 3052, AUSTRALIA (r.wyatt@geography.unimelb.edu.au)

[if confused, click any blue text in the active window(s)]

Continue an old case →

Clarify strategies →

Add sub-strategies →

Rename a strategy →

Delete a strategy →

Begin a new case →

Save this case →

Score strategies →

Get a suggestion →

Change wisdom source →

**Stop**

### YOUR ATTRIBUTES

Also, please click those categories below which best describe you

AGE	SEX	CHILDREN	QUALIFICATION	OCCUPATION
0-9	Male	none	Primary School	Professional
10-19	Female	1	Secondary	Managerial
20-29		2	Tertiary	Administrative
30-39		3		Clerical
40-49		4		Sales
50-59		5		Trades
60-69		6		Unskilled
70-79		6+		HomeDuties
80-89				Unemployed
90+				Other

**FINISHED**

### SCORING

[click blue text if confused :-)]

**PLEASE CLICK CIRCLES CAREFULLY**

easy fast responsive to effort likely

effective moral improvable restrictive dependent

much more more = less much less

**FINISHED**

581

**STRATEGIZER**

If confused, click any blue

**SUGGESTION**

(from the science group)

Priority (%) → 0 10 20 30 40 50 60 70 80

recreation ← [ ] →

less industry ← [ ] →

less stormwater ← [ ] →

← [ ] →

← [ ] →

← [ ] →

0 10 20 30 40 50 60 70 80

**CONTINUE**

**Stop**

**Self Improvement**

PLEASE alter priorities to what YOU think they ought to be (given your scores).

**READY TO ALTER**

**NO NEED TO ALTER**

**THANKYOU**

Thankyou. Your planning style echoes that of the Commercial people so your reactions have been added as part of this wisdom source

**CONTINUE**

Training Data : criterion scores and overall scores										
User :-	Likelihood	Effectiveness	Improvability	Restrictiveness	Ease	Responsiveness	Speed	Dependence	Morality	Overall Score
wya1	0.33	0.33	0.33	0.17	0.33	0.25	0.33	0.33	0.33	0.32
wya1	0.08	0.08	0.5	0.5	0.08	0.67	0.08	0.58	0.58	0.42
wya1	0.58	0.58	0.17	0.33	0.58	0.08	0.58	0.08	0.08	0.26
wya2	0	0.25	0.58	0.58	0.08	0.58	0.08	0.58	0.58	0.38
wya2	0.42	0.58	0.08	0.08	0.67	0.08	0.58	0.08	0.08	0.28
wya2	0.58	0.17	0.33	0.33	0.25	0.33	0.33	0.33	0.33	0.33
...	...	...	...	...	...	...	...	...	...	...
pen1	0.33	0.33	0.33	0.25	0.33	0.25	0.33	0.5	0.25	0.32
pen1	0.58	0.5	0.33	0.5	0.33	0.58	0.5	0.25	0.5	0.45
pen1	0.08	0.17	0.33	0.25	0.33	0.17	0.17	0.25	0.25	0.22
pen2	0.08	0.08	0.25	0.25	0.33	0.08	0.17	0.5	0.08	0.2
pen2	0.58	0.58	0.5	0.58	0.5	0.58	0.5	0.17	0.58	0.51
pen2	0.33	0.33	0.25	0.17	0.17	0.33	0.33	0.33	0.33	0.29

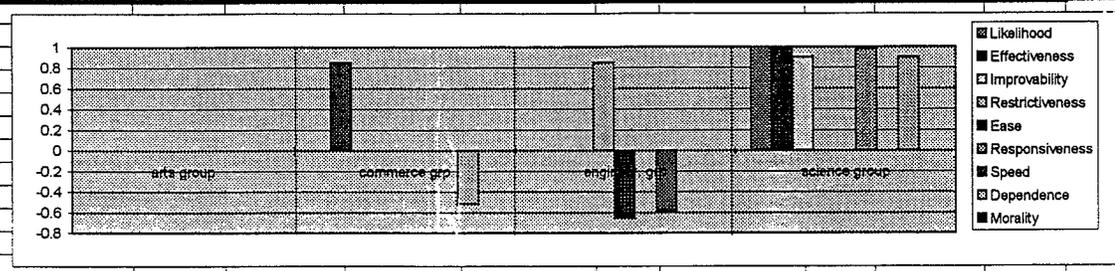
One User's Training Data : criterion scores and overall scores										
User :-	Likelihood	Effectiveness	Improvability	Restrictiveness	Ease	Responsiveness	Speed	Dependence	Morality	Overall Score
wya1	0.33	0.33	0.33	0.17	0.33	0.25	0.33	0.33	0.33	0.32
wya1	0.08	0.08	0.5	0.5	0.08	0.67	0.08	0.58	0.58	0.42
wya1	0.58	0.58	0.17	0.33	0.58	0.08	0.58	0.08	0.08	0.26
correl with -> overall score	-0.99	-0.99	0.99	0.63	-0.99	1.00	-0.99	0.99	0.99	

Initially Assumed Correlations between criterion scores and overall scores										
Group/Cluster	Likelihood	Effectiveness	Improvability	Restrictiveness	Ease	Responsiveness	Speed	Dependence	Morality	
arts group	0	0	0.5	0.5	-0.5	-0.5	-0.5	0.5	0.5	
commerce group	0.5	0	-0.5	-0.5	0.5	0.5	0	-0.5	0	
engineering group	-0.5	0.5	0	0.5	-0.5	0	0	0.5	-0.5	
science group	0.5	0	0.5	-0.5	0.5	-0.5	0	-0.5	0	
cluster 1	0.5	0.5	0.5	0	0	0	-0.5	-0.5	-0.5	
cluster 2	-0.5	-0.5	0.5	0.5	0.5	0	0	0	-0.5	
cluster 3	0	-0.5	-0.5	-0.5	0.5	0.5	0.5	0	0	
cluster 4	0.5	0	0	0	-0.5	-0.5	-0.5	0.5	0.5	
cluster 5	0.5	0	-0.5	0.5	0	-0.5	0.5	0	-0.5	
cluster 6	0	-0.5	0.5	0	-0.5	0.5	0	-0.5	0.5	
cluster 7	-0.5	0.5	0	-0.5	0.5	0	-0.5	0.5	0	
cluster 8	0	0	-0.5	-0.5	0.5	0.5	0	-0.5	0.5	
cluster 9	-0.5	0.5	0	0	-0.5	-0.5	0.5	0.5	0	

Arts Group's Training Data (part) : criterion scores and overall scores										
User :-	Likelihood	Effectiveness	Improvability	Restrictiveness	Ease	Responsiveness	Speed	Dependence	Morality	Overall Score
pre1	0.25	0.33	0.25	0.17	0.25	0.33	0.08	0.33	0.33	0.34
pre1	0.08	0.33	0.17	0.58	0.5	0.08	0.67	0.33	0.33	0.17
pre1	0.67	0.33	0.58	0.25	0.25	0.58	0.25	0.33	0.33	0.49
...	...	...	...	...	...	...	...	...	...	...
jam2	0.5	0.17	0.5	0.17	0.42	0.5	0.17	0.42	0.58	0.42
jam2	0.17	0.33	0.17	0.67	0	0.17	0.5	0.25	0	0.23
jam2	0.33	0.5	0.33	0.17	0.58	0.33	0.33	0.33	0.42	0.35
...	...	...	...	...	...	...	...	...	...	...
correl ->	0.43	0.1	0.38	0.09	0.39	0.5	0.34	-0.18	0.49	...

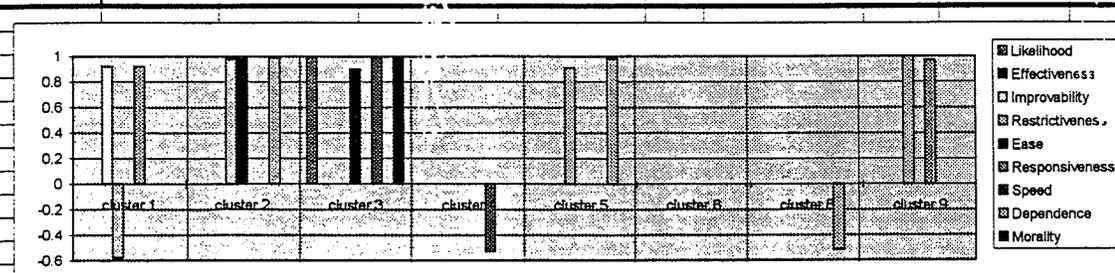
All Groups' Correlations between criterion scores and overall score :-										
within :-	Likelihood	Effectiveness	Improvability	Restrictiveness	Ease	Responsiveness	Speed	Dependence	Morality	
arts group	0.43	0.1	0.38	0.09	0.39	0.5	0.34	-0.18	0.49	
commerce grp	0.74	0.85	0.27	0.51	0.46	0.74	0.82	-0.52	0.74	
engineer. grp	-0.34	0.41	0.57	0.85	-0.66	0.83	-0.59	0.8	0.37	
science group	1	0.99	0.9	0.24	0.8	0.98	0.43	0.9	0.43	

All Groups' Correlations (> 0.85 or < -0.5) between criterion scores and overall score :-										
within :-	Likelihood	Effectiveness	Improvability	Restrictiveness	Ease	Responsiveness	Speed	Dependence	Morality	
arts group										
commerce grp		0.85						-0.52		
engineer. grp				0.85	-0.66		-0.59			
science group	1	0.99	0.9			0.98		0.9		



All Clusters' Correlations between Criterion Scores and Overall Score										
within :-	Likelihood	Effectiveness	Improvability	Restrictiveness	Ease	Responsiveness	Speed	Dependence	Morality	
cluster 7	-0.5	0.5	0	-0.5	0.5	0	-0.5	0.5	0	
cluster 1	0.72	0.4	0.92	-0.58	0.69	0.92	-0.35	0.88	0.57	
cluster 2	0.79	0.5	0.72	0.98	0.98	-0.07	0	0.99	0.61	
cluster 3	0.99	0.45	0.45	0.3	0.9	0.89	1	0.45	0.99	
cluster 4	0.15	0.65	0.36	0.58	-0.6	0.87	-0.53	0.86	0.68	
cluster 5	0.11	0.4	0.4	0.91	0.4	0.36	0.11	0.98	0.78	
cluster 6	0.16	0.58	0.88	0.82	0.39	0.71	0.63	-0.4	0.81	
cluster 8	0.45	0.61	-0.1	0.22	0.51	0.35	0.73	-0.52	0.45	
cluster 9	0.08	-0.07	0.65	1	0.3	0.97	0.39	0.65	-0.07	

All Clusters' Correlations (> 0.9 or < -0.5) between Criterion Scores and Overall Score										
within :-	Likelihood	Effectiveness	Improvability	Restrictiveness	Ease	Responsiveness	Speed	Dependence	Morality	
cluster 1			0.92	-0.58		0.92				
cluster 2				0.98	0.98			0.99		
cluster 3	0.99				0.9		1		0.99	
cluster 4							-0.53			
cluster 5				0.91				0.98		
cluster 6										
cluster 8								-0.52		
cluster 9				1		0.97				



Group/Cluster Members' Characteristics										Error @	
Gr/Cluster	Age	Sex	Child	Educ.	Occup.	Field	Problem	Role	500 Ep.	Strategy Biases	
Arts	21-30	Female	0	Ter.	Other	biogeog.	scallops	other	0.206	(none)	
	21-30	Female	0	Ter.	Other	geography	scallops	solver			
	21-30	Male	0	Ter.	Prof.	ecology	water	bystander			
	21-30	Male	0	Ter.	Prof.	ecology	water	bystander			
	31-40	Male	0	Ter.	Prof.	geography	scallops	solver			
	41-50	Male	2	Ter.	Prof.	ecology	scallops	solver			
	51-60	Male	2	Ter.	Prof.	computing	water	bystander			
61-70	Male	2	Ter.	Prof.	boundaries	scallops	solver				
Commerc	41-50	Male	0	Ter.	Prof.	drawing	water	bystander	0.152	Effective	
	41-50	Male	0	Ter.	Prof.	ecology	water	bystander		not Dependent	
	41-50	Male	0	Ter.	Prof.	ecology	scallops	n.s.			
Engineer.	21-30	Female	0	Ter.	Other	biogeog.	water	other	0.148	Restrictive	
	21-30	Female	0	Ter.	Other	geography	water	solver		not Easy	
	31-40	Male	0	Ter.	Prof.	land use	water	other		not fast	
	31-40	Male	0	Ter.	Prof.	geography	water	solver			
	41-50	Male	2	Ter.	Prof.	ecology	water	solver			
	51-60	Male	2	Ter.	Prof.	computing	scallops	bystander			
Science	31-40	Male	0	Ter.	Prof.	land use	scallops	other			
Cluster 1	21-30	Female	0	Ter.	Other	geography	scallops	solver	0.089	Improvable	
	31-40	Male	0	Ter.	Prof.	land use	scallops	other		Responsive not Restrictive	
Cluster 2	21-30	Male	0	Ter.	Prof.	ecology	water	bystander			
Cluster 3	21-30	Female	0	Ter.	Other	biogeog.	scallops	other			
Cluster 4	21-30	Female	0	Ter.	Other	biogeog.	water	other	0.028	not Fast	
	31-40	Male	0	Ter.	Prof.	land use	water	other			
	41-50	Male	2	Ter.	Prof.	ecology	water	solver			
	51-60	Male	2	Ter.	Prof.	computing	scallops	bystander			
	61-70	Male	2	Ter.	Prof.	boundaries	scallops	solver			
Cluster 5	21-30	Female	0	Ter.	Other	geography	water	solver			
Cluster 6	21-30	Male	0	Ter.	Prof.	ecology	scallops	bystander	0.011	(none)	
	31-40	Male	0	Ter.	Prof.	geography	scallops	solver			
	41-50	Male	0	Ter.	Prof.	ecology	scallops	n.s.			
	41-50	Male	2	Ter.	Prof.	ecology	scallops	solver			
	51-60	Male	2	Ter.	Prof.	computing	water	bystander			
Cluster 8	41-50	Male	0	Ter.	Prof.	drawing	water	bystander	0.485	not Dependent	
	41-50	Male	0	Ter.	Prof.	ecology	water	bystander			
Cluster 9	31-40	Male	0	Ter.	Prof.	geography	water	solver			
ALL									0.454		

Problem Addressers' Correlations between Criterion Scores and Overall Score									
within :-	Likelihood	Effectiveness	Improvability	Restrictiveness	Ease	Responsiveness	Speed	Dependence	Morality
water	-0.06	0.26	0.55	0.51	-0.44	0.65	-0.15	0.33	0.40
scallops	0.67	0.32	0.38	0.10	0.37	0.69	0.34	-0.28	0.47

