

# Theories by Discipline

DisciplineName		Conceptual Model Vali	dity
Theory Name, Type Description Value / Theory Description / Theory	y Citation	1	
	NI:1	Uncodified	0
11 NoJustification	Nil	Uncodified	0
Arbitrary or accidental choice None			
43 Not Modeled	Nil	Uncodified	0
Not included in the model			
None			
Anthropology			
157 AssymetricInfoNoTrus	SWAG	Scientific Wild Assed Guess	2
Assymetric Info / No Trust / Terroristic Violence: groups fight because of lack of trust, terrorize one another			-
Schneider, Harold K., 1979 Livestock and Equality in East Africa : The Economic Basis for Social Structure. Freund, Mary Theresa, and Jeffrey A. Kurland, 1994 Tit-for-tat among the Iroquois: A Game Theoretic Per Anthropological Archaeology 13:278-305.	BLoomington	n, Indiana: Indiana University Press.; Bonha	0
150 CircumscriptionTheor	PeerRvw	Peer reviewed theory	3
People fight over resources that are scarce relative to population levels			
Carneiro, Robert L., 1970 A Theory of the Origin of the State. Science 169:733-738.; 2002 Was the Chiefdo 1(1):80-100.	m a Congelati	ion of Ideas? Social Evolution and History	
156 CulturalGroupSelecti	SWAG+	SWAG with some review	2.5
Cultural Group Selection: only cultures with people who favor group survive. Leads to natural altruism toward	rd in-group, xe	enophobia toward out-group.	
Soltis, Joseph, Robert Boyd, and Peter J. Richerson, 1995 Can Group-functional Behaviors Evolve by Cultur Richerson, Peter J., and Robert Boyd, 2005 Not by Genes Alone: How Culture Transformed Human Evolut	1	1 65 ( )	4.;
147 CulturalSuccess	PeerRvw	+ Well reviewed theory	3.5
Men fight to achieve culturally-defined success, in order to attract mates Chagnon, Napoleon, 1988 Life Histories, Blood Revenge, and Warfare in a Tribal Population. Science 239: 9 Success. In Evolutionary Biology and Human Social Behavior. Napoleon Chagnon and William Irons, eds. P			
149 EconomicDefendabilit	PeerRvw-	+ Well reviewed theory	3.5
Economic defendability: people fight when resources are predictable and valuable			
Dyson-Hudson, Rada, and Eric Alden Smith, 1978 Human Territoriality: An Ecological Reassessment. Ame	•	0	
178 FineArt Development	SWAG+	SWAG with some review	2.5
superfluity of food resources makes possible the development of fine arts			
153 FraternalInterestGro	SWAG	Scientific Wild Assed Guess	2
Fraternal Interest Groups: males in groups have common interests and fight to protect			
Otterbein, Keith F., 1970 The Evolution of War: A Cross-Cultural Study. New Haven, Connecticut: HRAF	Press.		
236 Honor_Arab	PeerRvw	Peer reviewed theory	3
Losing honor results in humiliation and attempts to restore their honor can result in often violent struggles.			
Fontan, V. (2006). Polarization between occupier and occupied in post-saddam iraq: Colonial humiliation and Violence, 18(2), 217-238.	d the formatio	n of political violence. Terrorism and Politic	cal
175 Modernization Theory	PeerRvw	Peer reviewed theory	3
theory of social evolution closely related to dependency theory and development theory: Western countries a traditional societies to developed ones, third world countries need to be directed toward advancement	re the most de	eveloped, development stages go from the	
173 Neoevolution	PeerRyw	Peer reviewed theory	3
a modern multilineal cultural evolution theory that stresses empirical evidence	Teentew	r eer reviewed theory	5
177 Origin of Government	PeerRvw	Peer reviewed theory	3
As farming populations gathered in larger and denser communities, interactions between different groups income with star formation, new structures suddenly appeared, together with a new level of complexity. Like stars, c within their gravitational field.			
David Christian, p. 245, Maps of Time			
235 PatronageArab		+ Well reviewed theory	3.5
Patronage is a key factor in maintaining power for Sheikhs. Followers accept tribal leader's authority and in help in finding jobs, emergency assistance, well-placed contacts for various needs. For the leaders, the ability Sheikhs have a social responsibility to distribute funds and resources downwards through their tribe, and an i	to provide pa	atronage is a critical source for their authorit	0
Mcfate, M. (2005). Iraq: The social context of IEDs. Military Review, May-June, 37-40. Pryce-Jones, D. (19) Weidenfeld & Nicolson. Wikan, U. (1984). Shame and honour: A contestable pair. Man, 19, 635-652.	989). The clos	ed circle: An interpretation of the arabs. Los	ndon:

# **Conceptual Model Validity**

# Theory Name, Type Description Value / Theory Description / Theory Citation

	SWAG	Scientific Wild Assed Guess	2
Population Density - Food: when populations increase, pressure is placed on food resources; people fight			
Cohen, Mark, 1977 The Food Crisis in Prehistory. New Haven: Yale University Press.	CIVIA CI		
176 PostindustrialSociet industrial societies are coming to an end and services and information are becoming more important than go	SWAG+	SWAG with some review	2.5
industrial societies are coming to an end and services and information are becoming note important than go	003		
151 ProteinHypothesis	SWAG+	SWAG with some review	2.5
people in tribal societies fight over protein sources, esp. hunting territories			
Gross, Daniel, 1975 Protein Capture and Cultural Development in the Amazon Basin. American Anthropolo Witches: The Riddles of Culture. New York: Random House.; Wilson, David J., 1999 Indigenous South A Boulder, Colorado: Westview Press.			
159 SacredValues	WAG+	WAG plus some science	1.5
Conflict over meterial issues and rationally motivated, but sacred symbols contested			
Atran, Scott, Robert Axelrod, and Richard Davis, 2007 Sacred Barriers to Conflict Resolution. Science 317	:1039-1040.		
158 SigmoidUtilityTheory	PeerRvw	Peer reviewed theory	3
Individuals and groups of individuals with common interest motivated by envy and greed with respect to oth			
Friedman, Milton, and Leonard J. Savage, 1948 The Utility Analysis of Choices Involving Risk. Journal of I Uncertainty in a Peasant Economy. Stanford: Stanford University Press.; Kuznar, Lawrence A., 2001 Risk Models and Empirical Tests. Current Anthropology 42(3):432-440.; 2002 Evolutionary Applications of Risk of Sigmoid, Concave and Linear Functions. Evolution and Human Behavior 23(4):265-280.; 2007 Rational Social Unrest. American Anthropologist 109(2):318-329.; Kuznar, Lawrence A., and William G. Frederick, Implications for Value, Risk Sensitivity, and Social Status. Ecological Economics 46:293-306.	Sensitivity and k Sensitivity Mo lity Wars and th	Value among Andean Pastoralists: Me odels to Socially Stratified Species: Co e War on Terror: Explaining Terrorism	easures, omparison n and
152 Socialization	PeerRvw	Peer reviewed theory	3
people learn violence			
Whitings of HRAF			
174 Sociobiology		Peer reviewed theory	3
adapts neo-Darwinism to social evolution, positing that humans are products of both biological evolution and	d sociocultural	evolution	
155 TradingRaiding	SWAG	Scientific Wild Assed Guess	2
Intense interaction, disputes over trade, opportunities to steal motivate violence between groups Keeley, Lawrence H., 1996 War before Civilization: The Myth of the Peaceful Savage. Oxford: Oxford Un	iversity Press.		
172 TransCulturalDiffusi	Accepted	Generally accepted theory	4
concept that ideas, styles, religions, technologies, languages, etc. spread between individuals and thus throug	gh and between	cultures	
171 UnilinealEvolution	WAG	Wild Assed Guess	1
concept that all societies pass through a single evolutionary process from the most primitive to the most adva	anced		
149 Warran Canton	DeenDrury	Wall marries ad the own	3.5
148 WomanCapture	PeerKvw+	Well reviewed theory	
Men fight to capture women for wives; men fight over adultery			5.5
Chagnon N 1977 Vanamamo New York: Holt Rinehart and Winston			5.5
Chagnon, N., 1977 Yanamamo. New York: Holt, Rinehart and Winston.			
	SWAG+	SWAG with some review	
Business Management	SWAG+	SWAG with some review	
6 Bureaucracy	SWAG+	SWAG with some review	
6 Bureaucracy Theory of bureacracies: design them so they work despite the individual	SWAG+ SWAG+	SWAG with some review	
6 Bureaucracy Theory of bureacracies: design them so they work despite the individual Fayol, Henri			
6 Bureaucracy Theory of bureacracies: design them so they work despite the individual Fayol, Henri 12 Parkinson's Law			
Business Management 6 Bureaucracy Theory of bureacracies: design them so they work despite the individual Fayol, Henri 12 Parkinson's Law Work expands to fill the time available			
Business Management 6 Bureaucracy Theory of bureacracies: design them so they work despite the individual Fayol, Henri 12 Parkinson's Law Work expands to fill the time available Parkinson, C. Northcote	SWAG+	SWAG with some review	2.5
Business Management 6 Bureaucracy Theory of bureacracies: design them so they work despite the individual Fayol, Henri 12 Parkinson's Law Work expands to fill the time available Parkinson, C. Northcote 13 Peter Principle	SWAG+	SWAG with some review	2.5
Business Management 6 Bureaucracy Theory of bureacracies: design them so they work despite the individual Fayol, Henri 12 Parkinson's Law Work expands to fill the time available Parkinson, C. Northcote 13 Peter Principle People rise to their level of incompetence Peter, Laurence J.	SWAG+	SWAG with some review Scientific Wild Assed Guess	2.5
Business Management         6 Bureaucracy         Theory of bureacracies: design them so they work despite the individual         Fayol, Henri         12 Parkinson's Law         Work expands to fill the time available         Parkinson, C. Northcote         13 Peter Principle         People rise to their level of incompetence         Peter, Laurence J.	SWAG+ SWAG	SWAG with some review Scientific Wild Assed Guess	2.5
Business Management         6 Bureaucracy         Theory of bureacracies: design them so they work despite the individual         Fayol, Henri         12 Parkinson's Law         Work expands to fill the time available         Parkinson, C. Northcote         13 Peter Principle         People rise to their level of incompetence         Peter, Laurence J.         128 Satisficing         decision making where the first choice that is within the acceptable range is picked	SWAG+ SWAG PeerRvw	SWAG with some review Scientific Wild Assed Guess Peer reviewed theory	2.5 2.5 2 3
Business Management 6 Bureaucracy Theory of bureacracies: design them so they work despite the individual Fayol, Henri 12 Parkinson's Law Work expands to fill the time available Parkinson, C. Northcote 13 Peter Principle People rise to their level of incompetence Peter, Laurence J. 128 Satisficing decision making where the first choice that is within the acceptable range is picked 1 Theory X	SWAG+ SWAG	SWAG with some review Scientific Wild Assed Guess	2.5
Business Management         6 Bureaucracy         Theory of bureacracies: design them so they work despite the individual         Fayol, Henri         12 Parkinson's Law         Work expands to fill the time available         Parkinson, C. Northcote         13 Peter Principle         People rise to their level of incompetence         Peter, Laurence J.         128 Satisficing         decision making where the first choice that is within the acceptable range is picked         1 Theory X         Management style theory: people dislike work and must be coerced	SWAG+ SWAG PeerRvw	SWAG with some review Scientific Wild Assed Guess Peer reviewed theory	2.5 2.5 2 3
Business Management         6 Bureaucracy         Theory of bureacracies: design them so they work despite the individual         Fayol, Henri         12 Parkinson's Law         Work expands to fill the time available         Parkinson, C. Northcote         13 Peter Principle         People rise to their level of incompetence         Peter, Laurence J.         128 Satisficing         decision making where the first choice that is within the acceptable range is picked         1 Theory X         Management style theory: people dislike work and must be coerced         McGregor, Douglas	SWAG+ SWAG PeerRvw SWAG	SWAG with some review Scientific Wild Assed Guess Peer reviewed theory Scientific Wild Assed Guess	2.5 2.5 2 3 2
Business Management         6 Bureaucracy         Theory of bureacracies: design them so they work despite the individual         Fayol, Henri         12 Parkinson's Law         Work expands to fill the time available         Parkinson, C. Northcote         13 Peter Principle         People rise to their level of incompetence         Peter, Laurence J.         128 Satisficing         decision making where the first choice that is within the acceptable range is picked         1 Theory X         Management style theory: people dislike work and must be coerced	SWAG+ SWAG PeerRvw	SWAG with some review Scientific Wild Assed Guess Peer reviewed theory	2.5 2.5 2 3

## **Computer Science**

Computer Science			
57 <b>A</b> *	Accepted	Generally accepted theory	4
A-star search algorithm finds the least-cost path from a given initial node to one goal node (out of one or 1 function (usually denoted $f(x)$ ) to determine the order in which the search visits nodes in the tree. The dist function (usually denoted $g(x)$ , which may or may not be a heuristic) and an admissible "heuristic estimate function $g(x)$ is the cost from the starting node to the current node.	ance-plus-cost her	aristic is a sum of two functions: t	the path-cost
1968 by Peter Hart, Nils Nilsson, and Bertram Raphael			
169 CoherenceThThought&A	PeerRvw	Peer reviewed theory	3
Coherence theory of thought and action			
Rescher, Nicholas. 1982. The coherence theory of truth. Washington, D.C.: University Press of America.; coherence in discourse processing. New York: W. de Gruyer; Tannen, Deborah. 1984. Coherence in spok Thagard, Paul. 2000. Coherence in Thought and Action. Cambridge, MA: MIT Press			
38 ContinuousSimulation	Accepted	Generally accepted theory	4
Continuous (actually time-stepped) simulation, with time units determining precision			
Various			
37 DiscreteEventSimulat	Accepted	Generally accepted theory	4
Discrete event simulation of time			
Various			
117 Greedy Algorithm	PeerRvw	Peer reviewed theory	3
an heuristic algorithm that at every step selects the best choice available without regard to future consequences	ences		
45 Identical Variables	Accepted	Generally accepted theory	4
Connection is on a variable by variable basis, with exact semantic correspondence			
None			
36 MixedContinDiscrete	Accepted	Generally accepted theory	4
Mixed continuous and discrete event simulation of time			
Various			
5 Programmer'sDecision	WAG	Wild Assed Guess	1
The programmer had to make an implementation decision None			
127 RandomNumberGenerato	PeerRvw+	Well reviewed theory	3.5
Random number generators do not generate truly random numbers. The quality of the generator determine generators when many modeled functions use them can also affect the "randomness"	es the nearness to	true randomness and the policies	for using the
129 Simulated Annealing	Accepted	Generally accepted theory	4
computational method that is inspired by the annealing process (cf. annealing glass). Uses the Metropolis	algorithm		
39 Static model	PeerRvw	Peer reviewed theory	3
No time representation			
Various			
131 Tabu Search	Accepted	Generally accepted theory	4
a metaheuristic that guides a local heuristic search procedure to explore the solution space beyond local o	ptimality		
234 TimeSteppedSimulatio	Accepted	Generally accepted theory	4
Time stepped simulation			
Data Issues			
183 InputData	Accepted	Generally accepted theory	4
Input data treated as correct by the model		,,	
none			
44 Likert Scales	PeerRvw	Peer reviewed theory	3
Subjective evaluations using Lickert Scalses		· · · · · · · · · · · · · · · · · · ·	9
Various			
Economics, Macro			
212 BusinessCycles	Accepted	Generally accepted theory	4

Business cycle is economy-wide fluctuation in production or economic activity over long periods - boom and bust cycle (or expansion/recession) Mass, N. 1975 Economic Cycles: An Analysis of Underlying Causes, Waltham, MA: Pegasus Communications; Sterman, J. D. 2000 Business Dynamics: Systems Thinking and Modeling for a Complex World. New York, NY McGraw-Hill/Irwin

#### **DisciplineName Conceptual Model Validity** Theory Name, Type Description Value / Theory Description / Theory Citation 3 216 CapitalFlight PeerRvw Peer reviewed theory Capital flight occurs when assets and money rapidly flow out of a country due to an economic event Shibuya, H. 2001 Economic takeoff and capital flight \_Esri Discussion Paper Series\_ No 8 Tokyo: Economic and Social Research Institute Cabinet Office Govt of Japan http://www.esri.go.jp/en/archive/e\_dis/abstract/e\_dis008-e.html 219 CurrencyCrisis PeerRvw Peer reviewed theory 3 Currency crisis/investment boom and bust, currency exchange defense Krugman, P. 2009 The Return of Depression Economics and the Crisis of 2008 New York, NY W. W. Norton & Co 217 Debt-deflationSpiral PeerRvw Peer reviewed theory 3 Debt deflation is a theory of economic cycles that holds that recessions and depressions are due to overall level of debt shrinking (deflation) Graham, A. and Senge, P 1980, A long-wave hypothesis of innovation. Technological Forecasting and Social Change 17 125-142; Koo, R. 2008 The Holy Grail of Macroeconomics: Lessons from Japan's Great Recession New York, NY, Wiley 3 218 Deficit-leadHyperinf PeerRvw Peer reviewed theory Deficit-lead hyperinflation: government deficits can lead to hyperinflation Krugman, P. and Obstfeld, M. 2008 International Economics: Theory and Policy (8th edition) Reading, Mass Addison-Wesley 3 196 Endogenous Growth PeerRvw Peer reviewed theory Innovative firms generate knowledge: knowledge is a public good which spills over into the economy as a whole resulting in increase in productivity. Technological Progress Formulation: ensures the profitability of knowledge development to fuel innovation leading to increases in productivity Jones, C. 1995 Time Series Tests of Endogenous Growth Models, The Quarterly Journal of Economics 110; Cavusoglu, N. and Tebaldi, E. 2006 Evaluating Growth Theories and their Empirical Support: An Assessment of the Convergence Hypothesis, Journal of Economic Methodology 13 214 MercantilismCurrency 3 PeerRvw Peer reviewed theory Currency exchange mercantilisim: by mispricing its currency (using subsidies, etc.) country gains advantage under mercantilist theory Burgess, G. et al 2009 PA&E Global Economics Study Final Report: A reconnaissance of economic issues impacting DoD. Washington, DC DoD Directorate for Program Analysis and Evaluation; Das, D. 2009 The evolution of renminibi yuan and the protracted depate on its undervaluation: An integrated review \_Journal of Asian Economics\_ 20(50) 570-579 Sep 2009 3 215 StagflationAndImport PeerRvw Peer reviewed theory Stagflation is the coexistence of high inflation and high unemployment contribution of dependence on imports Bernanke, B. and Blinder, A 1988 Credit, money and aggregate demand \_American Economic Review\_ 78(2) 435-439; Godley, W and Lavoie, M 2006, Monetary Economics: An Integrated Approach to Credit, Money, Income, Production and Wealth, London Palgrave-Macmillan 213 TradeBalanceForex PeerRvw+ Well reviewed theory 3.5 Balancing trade through use of currency exchange rates Curry, J. 2000 A Short Course in International Economics. Novato, CA: World Trade Press; Gandolfo, G. 2002 International Finance and Open-Economy Macroeconomics. New York, NY Springer **Economics**, Micro 125 Preference Theory PeerRvw+ Well reviewed theory 3.5 studies the fundamental aspects of individual choice behavior, such as how to identify and quantify an individual's preferences over a set of alternatives and how to construct appropriate preference representation functions for decision making. 3 48 Prospect Theory PeerRvw Peer reviewed theory A prospect is a contract {x1,p1;...;xn,pn} that yields outcome xi with probability yi. Prospect theory is a descriptive theory of choice explaining common attitudes toward risk that violate the expected utility theory. The experiments involve hypothetical choices where subjects are asked for their preference between a gamble or a sure gain. The experiments has shown the overweighting of certainty itself -- and not the aversion to uncertainty or variability -- in attitudes toward risk. Other experiments have shown that people perceive outcomes as gains or losses relative to their personal point of reference rather than absolute final states. Finding the reference points and the probability weights are the main challenges. Daniel Kahneman and Amos Tversky. Prospect theory: an analysis of decision under risk. Econometrica, 47(2):263-292, 1979. 199 Risk Propensity PeerRvw+ Well reviewed theory 3.5 The individual's expected utility of a gamble is represented as V=E(u(w))=pu(w1)+(1-p)\*u(w2). The expected value of the gamble is represented as u(e(w))=u(pw1)+(1-p)\*u(w2). p)w2). If the former is smaller than the latter, such behavior is called risk aversion. If the former is larger than the latter, such behavior is called risk acceptant. Bueno de Mesquita, B. 1985 The War Trap Revisited: A Revised Expected Utility Model, The American Political Science Review 79; Kim, W. and Morrow, J. D. 1992 When Do Power Shifts Lead to War? American Journal of Political Science 36 26 Supply and Demand Accepted Generally accepted theory 4 Supply versus Demand Curve Various 133 Utility Theory 4 Accepted Generally accepted theory study of preferences structures and the ways to represent the preferences quantitatively Von Neumann, J. & Morgenstern, H. 1944 Theory of Games and Economic Behavior 200 UtilitySubjectiPerce PeerRvw+ Well reviewed theory 3.5

Subjective Perceptions & Utility: similar to Utility and Risk Propensity, but perceptions drive subjective estimates Knight, F. H. 1921 Risk, Uncertainty and Profit

#### Education 143 BehaviorConditioning PeerRvw Peer reviewed theory 3 Classical conditioning (sometimes referred to as Paylovian conditioning) is a technique used in behavioral training in which a naturally occurring stimulus is paired with a response. Next, a previously neutral stimulus is paired with the naturally occurring stimulus. Eventually, the previously neutral stimulus comes to evoke the response without the presence of the naturally occurring stimulus. The two elements are then known as the conditioned stimulus and the conditioned response. Pavlov Skinner 145 Constructivism 3 PeerRvw Peer reviewed theory learning is an active process in which learners construct new ideas or concepts based upon their current/past knowledge. The learner selects and transforms information, constructs hypotheses, and makes decisions, relying on a cognitive structure to do so. Cognitive structure (i.e., schema, mental models) provides meaning and organization to experiences and allows the individual to "go beyond the information given". The general framework for instruction is based upon the study of cognition is linked to child development research. There are two distinguishing types: "cognitive constructivism" which is about how the individual learner understands things, in terms of developmental stages and learning styles (See Jean Piaget), and "social constructivism", which emphasises how meanings and understandings grow out of social encounters-(see Lev Vygotsky) (especially Jean Piaget and Lev Vgotsky). Bruner, 1960, 1966, Piaget, Vgotsky 226 EducationSystemFlow SWAG+ SWAG with some review 2.5 Flow model of movement of students into, through, and out of education system with a parameterized dropout rate Cobb, L (2001) "NationLab 1999: The Economic and Social Reconstruction of Bolivia." In Analysis for Crisis Response and Societal Reconstruction, edited by AER Woodcock and D Davis. Clementsport, Nova Scotia: The Canadian Peacekeeping Press. 144 OperantConditioning PeerRvw Peer reviewed theory 3 Operant conditioning (sometimes referred to as instrumental conditioning) is a method of learning that occurs through reinforcement and punishments for behavior. Through operant conditioning, an association is made between a behavior and a consequence for that behavior. If the situation (context) is present, the behavior is likely to occur again (or not). The following model is used to explain and predict behavior: e.g. S: R --> Sr (S stimulus := sets the occasion Response $\rightarrow$ Sr consequences) A stimulus sets the occasion for a response to occur. If the response occurs it is followed by some consequences. Imagine a telephone ringing, which would set the occasion for a response (answer it). Depending on who it is will determine if it is a reinforcing consequence (say it is someone you like) or a negative consequence (bill collector). If it is the latter, the next time the phone rings, the behavior will not likely be repeated. 142 SocialCognitiveLearn 3 PeerRvw Peer reviewed theory Social Cognitive (Learning) Theory (Bandura) -- Theory posits that people learn from one another, via observation, imitation, and modelling and do not necessarily need direct contact with a stimulus or the consequences. The theory has often been called a bridge between behaviorist and cognitive learning theories because it encompasses attention, memory, and motivation but uses the same four term contingency of consequences (positive reinforcement, negative reinforcement (both increase behavior), punishment, and response cost (both which decrease responses) to explain how learning occurs. Bandura **Engineering**, Civil **Engineering**, Other 4 106 Control Theory Accepted Generally accepted theory Differential & difference equations, stochastic processes, etc., to steer dynamical systems toward desired results Geography, Human 223 BirthRate-AgeSpecifi Accepted Generally accepted theory 4 Age specific model of birth rate modeled as gamma distribution centered at age ten Valkovics, E (1983) "An indirect method of modeling age-specific fertility rates", Europ Demogr Inf Bull, vol 14, #1, pp 11-27. Kendelski, M (1988) "Demometric estimation of fertility function by age of women in Poland", Studia Demogr, vol 91, pp 3-24. 224 DeathRate-Thatcher Accepted Generally accepted theory 4 Age specific model of mortality rate as union of infant mortality and adult mortality processes using a logistic model Thatcher, AR (1999) "The long-term pattern of adult mortality and the highest attained age", Journal of the Royal Statistical Society, vol 162, part 1, pp 5-43. Geography, Physical SWAG with some review 2.5 34 Arc-Node network SWAG+ Planar representation of significant points Various 27 DTED-0 PeerRvw Peer reviewed theory 3

Digital Terrain Elevation Data 0 is about 1 kilometer spacing

Digital Terrain Elevation Data 1 is about 100 meters spacing US Govt

Tuesday, June 07, 2016

US Govt

28 DTED-1

35

PeerRvw+ Well reviewed theory

**Conceptual Model Validity** 

# Theory Name, Type Description Value / Theory Description / Theory Citation

### **Conceptual Model Validity**

#### Theory Name, Type Description Value / Theory Description / Theory Citation

29 <b>DTED-2</b>	Accepted	Generally accepted theory	4
Digital Terrain Elevation Data 2 is about 30 meters spacing			
US Govt			
33 Hex or Square grid	PeerRvw	Peer reviewed theory	3
Planar representation depending on size of grid			
Various			
31 Lat-Long coordinates	Accepted	Generally accepted theory	4
Planar dimensions taking acount of Earth's shape			
Various			
35 No spatial coords	SWAG	Scientific Wild Assed Guess	2
No spatial representation			
Various			
32 XY coordinates	PeerRvw+	Well reviewed theory	3.5
Planar dimensions with good local representation			
Various			
History			
146 DemographicStructura	SWAG	Scientific Wild Assed Guess	2

Demographic-structural theory: Population growth beyond the means of subsistence leads to declining levels of consumption and popular discontent, but this is not enough to destabilize agrarian societies. Peasant uprisings have little chance of success when the governing élites are unified and the state is strong. The connection between population dynamics and instability is indirect, mediated by the long-term effects of population growth on social structures. One effect is the increasing number of aspirants for élite positions, resulting in rivalry and factionalism. Another consequence is persistent inflation, which causes a decline in real revenues and a developing fiscal crisis of the state. As these trends intensify, they result in state bankruptcy and a loss of military control; conflict among élite factions; and a combination of élite-mobilized and popular uprisings, leading to the breakdown of central authority.

Turchin, Peter, "Arise 'cliodynamics'," Nature, Vol 454, No 3, 3 July 2008; Turchin, P. & S. Nefedov, Secular Cycles, Princeton Univ Press, 2008

#### Law

#### Linguistics

#### 167 Discourse Theory Accepted Generally accepted theory 4 A branch of ethnomethodology focusing on interactive communication. Blommaert, Jan. 2005. Discourse: A Critical Introduction. New York: Cambridge University Press; Tannen, Deborah and James E. Alatis. 2003. Linguistics, language and the real world : discourse and beyond. Washington, D.C. 62 SemanticDifferential PeerRvw Peer reviewed theory 3 Osgood's semantic differential was designed to measure the connotative meaning of concepts. The respondent is asked to choose where his or her position lies, on a scale between two bipolar words, or a range of words or numbers ranging across a bipolar position (for example, `Excellent', `Good', Adequate', `Poor', `Inadequate'; or from 5 (powerful) down to 1 (weak). The development of this instrument provides an interesting insight into the border area between linguistics and psychology. People have been describing each other since they developed the ability to speak. Most adjectives can also be used as personality descriptors. The occurrence of thousands of adjectives in English is an attestation of the subtleties in descriptions of persons and their behavior speakers of English developed over millennia. Roget's Thesaurus is an early attempt to classify most adjectives into categories and was used within this context to reduce the number of adjectives to manageable subsets, suitable for factor analysis. Osgood, C.E., Suci, G., & Tannenbaum, P. (1957) The measurement of meaning. Urbana, IL: University of Illinois Press Snider, J. G., and Osgood, C. E. (1969) Semantic Differential Technique: A Sourcebook. Chicago: Aldine. Osgood, C. E., May, W. H., and Miron, M. S. (1975) Cross-Cultural Universals of Affective Meaning. Urbana, IL: University of Illinois Press Krus, D.J., & Ishigaki, Y. (1992) Kamikaze pilots: The Japanese and the American perspectives. Psychological Reports, 70, 599-602

#### Mathematics

209 CommunicationTheory	PeerRvw+	Well reviewed theory	3.5
Derived from Information Theory			
Cover, T. M. and Thomas, J. A. 1991 Elements of information theory			
208 InformationTheory	Accepted	Generally accepted theory	4
Quantification of information, involves entropy, with many applications			
Shannon, Claude 1948 "A Mathematical Theory of Communication", Bell System Technical Journal,	. 27		

### Medicine

Medicine			
54 DALY Model Disability Adjusted Life Years (DALY). DALYs measure the gap between the average phealthy life. The gap is created by premature death and by ill health, and the commonly healthy life that are "lost" to the population and are computed as the sum of Years of Lii (YLDs): YLDs are given by a function of the incidence rates of a given health state, the provides a valuation of the health state (0 is completely healthy and 1 is dead). YLLs may weight of 1 and duration equal to the remaining life expectancy from the time of death.	understood metric to evaluate these fe Lost due to premature death (YI he average time spent in that health ay simply be thought of as a specia	e gaps is time. Specifically, they me Ls) and Years Lost to Disability du state (duration), and a correspondi l case of YLDs, where the health st	easure years of the to ill health ng weight that ate has a
Mathers CD, Vos T, Lopez AD, Salomon J, Ezzati M (ed.) 2001. National Burden of for Health Policy. Geneva: World Health Organization		de. Edition 2.0 Global program on	
<ul> <li>51 Epidemic SIR Model</li> <li>SIR (Susceptible – Infectious – Recovered) model.SIR model illustrates the transition of generic disease</li> <li>W. O. Kermack and A. G. McKenrick, 1927</li> </ul>		Peer reviewed theory to a dead person (or recovered per	3 son) by a
<ul> <li>52 Epidemic SIS Model</li> <li>Susceptible-Infectious-Susceptible (SIS) models adapted from the SIR model</li> </ul>	SWAG+	SWAG with some review	2.5
225 EpidemicHoppenstaedt Full spatial version of the standard SIR model, discretized integro-differential equations Hoppensteadt, F (1975) Mathematical Theories of Populations, Demographics, and Epic by the Society for Industrial and Applied Mathematics (SIAM).		<ul> <li>Well reviewed theory</li> <li>ference Series in Applied Mathema</li> </ul>	3.5 tics. Published
41 Meteorology Effects of atmospheric conditions on general operations Various	SWAG+	SWAG with some review	2.5
Military Science			
10 <b>BonderFarrell</b> Bonder-Farrel attrition at the item level Bonder & Farrell	PeerRvw	+ Well reviewed theory	3.5
113 <b>FM 3-24</b> Counterinsurgency manual US Army 12/06	PeerRvw	+ Well reviewed theory	3.5
9 HartleyLogLinearLaw Attrition at the aggregated level Hartley	PeerRvw	Peer reviewed theory	3
7 LanchesterLinearLaw "Area Fire" attrition at the aggregated level Lanchester	SWAG+	SWAG with some review	2.5
8 LanchesterSquareLaw "Aimed Fire" attrition at the aggregated level Lanchester	SWAG+	SWAG with some review	2.5
114 Small Wars Manual Counterinsurgency USMC 1940	PeerRvw	+ Well reviewed theory	3.5
Operations Research			
101 AHP Analytic Hierarchy Process derives ratio scales from both discrete and continuous paired making.		<ul> <li>Well reviewed theory</li> <li>hic structures. Used for multicriteri</li> </ul>	3.5 a decision
Saaty 65 <b>Bayes' Theorem</b> Bayes' theorem relates the conditional and marginal probabilities of events A and B, who various	-	Generally accepted theory ity:	4
Various 102 <b>BayesianDecisionTheo</b> Uses Bayes Rule to update probability based on new evidence	Accepted	Generally accepted theory	4

# **Conceptual Model Validity**

# Theory Name, Type Description Value / Theory Description / Theory Citation

103 <b>BoundedRationality</b> A theory of choice making that says the reason people don't make fully rational choice	Accepted Generally accepted theory s is they lack the knowledge and computational skill to do so.	4
Simon, 1955, 1979; Gigerenzer, Gerd and Reinhard Selten. 2002. Bounded Rationality Modeling Bounded Rationality. Cambridge, MA: MIT Press; Simon, Herbert Alexand	: The Adaptive Toolbox. Cambridge, MA: MIT Press; Rubinstein, Ariel. 199	7.
105 Cluster Analysis		,
A generic term for various procedures used to objectively group entities based on simi	Accepted Generally accepted theory larities and differences	2
107 CostEffectivenessAna	Accorded Concernilly accorded the one	2
Cost Effectiveness Analysis compares costs, benefits and risks of alternative solutions	Accepted Generally accepted theory	2
108 <b>DEA</b>	Accepted Generally accepted theory	4
Data Envelopment Analysis (DEA) is finding the efficient frontier of economic alterna		_
109 Decision Tree	Accepted Generally accepted theory	4
pictorial description, nodes & arcs, of connections among decisions and chance events		
66 Dempster-ShaferTheor	Accepted Generally accepted theory	4
The Dempster-Shafer theory is a mathematical theory of evidence[1] based on belief f information (evidence) to calculate the probability of an event. The theory was develo	inctions and plausible reasoning, which is used to combine separate pieces of	
various 56 Dijkstra's algorithm	Proved Scientifically proved theory	4
For a given source vertex (node) in the graph, the algorithm finds the path with lowest used for finding costs of shortest paths from a single vertex to a single destination vert determined. For example, if the vertices of the graph represent cities and edge path co Dijkstra's algorithm can be used to find the shortest route between one city and all oth Edsger Dijkstra in 1959	cost (i.e. the shortest path) between that vertex and every other vertex. It can a ex by stopping the algorithm once the shortest path to the destination vertex has sts represent driving distances between pairs of cities connected by a direct roa	lso be s been
111 DynamicProgramming	Accepted Generally accepted theory	2
both an approach to problem solving and a decomposition technique where there is a s Bellman, 1957	equence of interrelated decisions. Uses recursive modeling and works backwa	rd
112 ExponentialSmoothing	Accepted Generally accepted theory	2
a technique for revising an estimate of the average of a time series to extrapolate as a	orecast. New forecast=(1-alpha)*old forecast + alpha*(latest observation)	
115 Game Theory	PeerRvw+ Well reviewed theory	3.5
various types of games, with various rules		
Bennett, Peter G. 1995. "Modeling decisions in international relations: Game theory a and Oskar Morgenstern. 1944. Theory of Games and Economic Behavior. Princeton, 1 "Game theory and decision theory in multi-agent systems." Autonomous Agents and N DTGT agents." in Game Theoretic and Decision Theoretic Agents: AAAI Spring Syn Association for Artificial Intelligence; Nash	NJ: Princeton University Press; Parsons, Simon and Michael Wooldridge. 2002 fulti-Agent Systems 5:243-254; Vane, Russell R. 2001. "Hypergame theory for	•
Bennett, Peter G. 1995. "Modeling decisions in international relations: Game theory a and Oskar Morgenstern. 1944. Theory of Games and Economic Behavior. Princeton, 1 "Game theory and decision theory in multi-agent systems." Autonomous Agents and N DTGT agents." in Game Theoretic and Decision Theoretic Agents: AAAI Spring Syn Association for Artificial Intelligence; Nash	NJ: Princeton University Press; Parsons, Simon and Michael Wooldridge. 2002 fulti-Agent Systems 5:243-254; Vane, Russell R. 2001. "Hypergame theory for	•
<ul> <li>Bennett, Peter G. 1995. "Modeling decisions in international relations: Game theory a and Oskar Morgenstern. 1944. Theory of Games and Economic Behavior. Princeton, 1 "Game theory and decision theory in multi-agent systems." Autonomous Agents and N DTGT agents." in Game Theoretic and Decision Theoretic Agents: AAAI Spring Syn Association for Artificial Intelligence; Nash</li> <li>116 Graph Theory study of interconnetions of various elements</li> </ul>	NJ: Princeton University Press; Parsons, Simon and Michael Wooldridge. 2002 fulti-Agent Systems 5:243-254; Vane, Russell R. 2001. "Hypergame theory for posium, edited by S. Parsons and P. Gmytrasiewicz. Menlo Park, CA: Americ	an
<ul> <li>Bennett, Peter G. 1995. "Modeling decisions in international relations: Game theory a and Oskar Morgenstern. 1944. Theory of Games and Economic Behavior. Princeton, 1 "Game theory and decision theory in multi-agent systems." Autonomous Agents and N DTGT agents." in Game Theoretic and Decision Theoretic Agents: AAAI Spring Syn Association for Artificial Intelligence; Nash</li> <li>116 Graph Theory</li> </ul>	NJ: Princeton University Press; Parsons, Simon and Michael Wooldridge. 2002 fulti-Agent Systems 5:243-254; Vane, Russell R. 2001. "Hypergame theory for posium, edited by S. Parsons and P. Gmytrasiewicz. Menlo Park, CA: Americ PeerRvw+ Well reviewed theory PeerRvw+ Well reviewed theory	an 3.5
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<ul> <li>Bennett, Peter G. 1995. "Modeling decisions in international relations: Game theory a and Oskar Morgenstern. 1944. Theory of Games and Economic Behavior. Princeton, 1 "Game theory and decision theory in multi-agent systems." Autonomous Agents and N DTGT agents." in Game Theoretic and Decision Theoretic Agents: AAAI Spring Syn Association for Artificial Intelligence; Nash</li> <li>116 Graph Theory study of interconnetions of various elements</li> <li>118 HiddenMarkovModels statistical models comprising a Markov chian whose states are associated with some p</li> </ul>	NJ: Princeton University Press; Parsons, Simon and Michael Wooldridge. 2002 fulti-Agent Systems 5:243-254; Vane, Russell R. 2001. "Hypergame theory for posium, edited by S. Parsons and P. Gmytrasiewicz. Menlo Park, CA: Americ PeerRvw+ Well reviewed theory PeerRvw+ Well reviewed theory robability distributions - transition probabilities	an 3.5 3.5
<ul> <li>Bennett, Peter G. 1995. "Modeling decisions in international relations: Game theory a and Oskar Morgenstern. 1944. Theory of Games and Economic Behavior. Princeton, I "Game theory and decision theory in multi-agent systems." Autonomous Agents and N DTGT agents." in Game Theoretic and Decision Theoretic Agents: AAAI Spring Syn Association for Artificial Intelligence; Nash</li> <li>116 Graph Theory study of interconnetions of various elements</li> <li>118 HiddenMarkovModels statistical models comprising a Markov chian whose states are associated with some p</li> <li>110 Influence Diagram equivalent to symmetric decision tree</li> <li>61 Linear Programming Optimal selection</li> </ul>	NJ: Princeton University Press; Parsons, Simon and Michael Wooldridge. 2002 fulti-Agent Systems 5:243-254; Vane, Russell R. 2001. "Hypergame theory for posium, edited by S. Parsons and P. Gmytrasiewicz. Menlo Park, CA: Americ PeerRvw+ Well reviewed theory PeerRvw+ Well reviewed theory robability distributions - transition probabilities	an 3.5 3.5
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<ul> <li>Bennett, Peter G. 1995. "Modeling decisions in international relations: Game theory a and Oskar Morgenstern. 1944. Theory of Games and Economic Behavior. Princeton, I "Game theory and decision theory in multi-agent systems." Autonomous Agents and N DTGT agents." in Game Theoretic and Decision Theoretic Agents: AAAI Spring Syn Association for Artificial Intelligence; Nash</li> <li>116 Graph Theory study of interconnetions of various elements</li> <li>118 HiddenMarkovModels statistical models comprising a Markov chian whose states are associated with some p</li> <li>110 Influence Diagram equivalent to symmetric decision tree</li> <li>61 Linear Programming Optimal selection Dantzig</li> <li>119 Little's Law relates the number of customers in a queueing system to the waiting time of customers</li> </ul>	NJ: Princeton University Press; Parsons, Simon and Michael Wooldridge. 2002 fulti-Agent Systems 5:243-254; Vane, Russell R. 2001. "Hypergame theory fo posium, edited by S. Parsons and P. Gmytrasiewicz. Menlo Park, CA: Americ PeerRvw+ Well reviewed theory PeerRvw+ Well reviewed theory robability distributions - transition probabilities Accepted Generally accepted theory Proved Scientifically proved theory Proved Scientifically proved theory for a system in steady state	3.5
<ul> <li>Bennett, Peter G. 1995. "Modeling decisions in international relations: Game theory a and Oskar Morgenstern. 1944. Theory of Games and Economic Behavior. Princeton, I "Game theory and decision theory in multi-agent systems." Autonomous Agents and N DTGT agents." in Game Theoretic and Decision Theoretic Agents: AAAI Spring Syn Association for Artificial Intelligence; Nash</li> <li>116 Graph Theory study of interconnetions of various elements</li> <li>118 HiddenMarkovModels statistical models comprising a Markov chian whose states are associated with some p</li> <li>110 Influence Diagram equivalent to symmetric decision tree</li> <li>61 Linear Programming Optimal selection Dantzig</li> <li>119 Little's Law</li> </ul>	NJ: Princeton University Press; Parsons, Simon and Michael Wooldridge. 2002 fulti-Agent Systems 5:243-254; Vane, Russell R. 2001. "Hypergame theory fo posium, edited by S. Parsons and P. Gmytrasiewicz. Menlo Park, CA: Americ PeerRvw+ Well reviewed theory PeerRvw+ Well reviewed theory robability distributions - transition probabilities Accepted Generally accepted theory Proved Scientifically proved theory for a system in steady state Proved Scientifically proved theory	an 3.5 3.5
<ul> <li>Bennett, Peter G. 1995. "Modeling decisions in international relations: Game theory a and Oskar Morgenstern. 1944. Theory of Games and Economic Behavior. Princeton, I "Game theory and decision theory in multi-agent systems." Autonomous Agents and N DTGT agents." in Game Theoretic and Decision Theoretic Agents: AAAI Spring Syn Association for Artificial Intelligence; Nash</li> <li>116 Graph Theory study of interconnetions of various elements</li> <li>118 HiddenMarkovModels statistical models comprising a Markov chian whose states are associated with some p</li> <li>110 Influence Diagram equivalent to symmetric decision tree</li> <li>61 Linear Programming Optimal selection Dantzig</li> <li>119 Little's Law relates the number of customers in a queueing system to the waiting time of customers</li> <li>120 Markov Chains a Markov Process whose state space is discrete while its time domain may be either customers</li> </ul>	NJ: Princeton University Press; Parsons, Simon and Michael Wooldridge. 2002 fulti-Agent Systems 5:243-254; Vane, Russell R. 2001. "Hypergame theory fo posium, edited by S. Parsons and P. Gmytrasiewicz. Menlo Park, CA: Americ PeerRvw+ Well reviewed theory PeerRvw+ Well reviewed theory robability distributions - transition probabilities Accepted Generally accepted theory Proved Scientifically proved theory for a system in steady state Proved Scientifically proved theory	an 3.5 3.5

# **Conceptual Model Validity**

# Theory Name, Type Description Value / Theory Description / Theory Citation

122 MCDM	PeerRvw+ Well reviewed theory	3.
Multiple Criteria Decision Making (MCDM) includes deterministic and stochast specified by constraints) alternatives. Several techniques are available	ic outcomes and explicit (enumerated) decision alternatives or implicit (alternatives	
123 Neural Networks computational models inspired by networks of neurons	PeerRvw+ Well reviewed theory	3.:
124 Portfolio Theory	PeerRvw+ Well reviewed theory	3.:
method of selecting a portfolio of options using economic concepts		
53 Queueing Theory	Proved Scientifically proved theory	:
Derivation of wait times, service times, etc. from structure of queues various		
104 RPD and ImageTheory	PeerRvw+ Well reviewed theory	3.
	s of choice making involving pre-existing knowledge structures against which situation	ns are
Klein, 1993; Beach, 1990, 1993		
60 Search Theory	Proved Scientifically proved theory	
Theory of how to search for an object and expected results of the search Search and Detection, Alan R. Washburn, MAS, ORSA (now INFORMS), 1989		
132 Time Series Analysis	Accepted Generally accepted theory	
most popular time series forecasting method is ARIMA Box, Jenkins and Reinsel (1994), Pandit & Wu (1974)		
194 Arms Race	PeerRvw Peer reviewed theory	
Arms races will lead to the "cone of mutual deterrence" based on the parameter Gilbert, Rider & Hutchison 2005	estimates and nation's current weapons stock	
160 ContingencyTheory	SWAG+ SWAG with some review	2.
conflict is contingent on unusual or irregular conditions that cause disruptions in and social attributes of countries to explain variation in their conflict experiences	conventional politics. The contingent approach leads one to study the political, econor.	mic
Harry Eckstein. "Theoretical Approaches to Explaining Collective Political Viol The Free Press.	ence." In T.R. Gurr (ed.) Handbook of Political Conflict, pp. 135-166. 1980. New Yo	rk:
191 Deterrence, Classical	PeerRvw+ Well reviewed theory	3.
Nuclear arms races ensure peace. Ultra stable solution can be reached through n Brodie, B. 1959 Strategy in the Missile Age; Waltz, K. 1979 Theory of Internati		
193 Deterrence,Dynamic	PeerRvw+ Well reviewed theory	3.
A country chooses both rate of fire and a targeting strategy, either city or arsena Massive Retaliation, c. Nuclear capabilities of two countries are equal but arsen	. The 4 stages of nuclear deterence strategies are a. Conventional Balance of Power, b	).
Resolution 28		
192 Deterrence,GameTheor	PeerRvw+ Well reviewed theory	3.
	avior and outcomes alance of Power and Interests: An Empirical Test of a Crisis Bargaining Model, Journa , American Political Science Review 81; Zagare, F. & Kilgour, M. 2000 Perfect Deter	
251 EconomicVoting	PeerRvw+ Well reviewed theory	3.
Economic conditions do affect popularity, but the effects are not simple and line elections) 2) The big two: the vote reacts to a few macroeconomic variables—m horizon 4) Retrospective/ prospective controversy: voters react to past events r	ar. 1) E-fraction: economic change explains about 1/3 of the change in the vote (betwee ainly unemployment/ growth and inflation 3) Voters are myopic and so have a short tin ore than to expected ones, but the difference is small 5) Sociotropic/ egotropic otropic (personal) economic voting. 6) The grievance asymmetry: voters may react me	me
Lewis-Beck, M. (2000). Economic voting: an introduction. Electoral Studies, 19	(2-3), 113-121. doi:10.1016/S0261-3794(99)00042-6	
220 GovernanceQVP	PeerRvw Peer reviewed theory	
Quest for Viable Peace (QVP) as description of governance: descriptive & norm of society & illegitimate beneficiaries to the state through dollar flows to the ber	ative relationships among legitimate economy, gray economy, illegitimate economy to eficiaries, taxes to the state & resources to beneficiaries	mass
	of Computational Methods and Models for Anticipating Economic, Social, Political ar The Quest for Viable Peace: International intervention and strategies for conflict oping a legitimate Political Economy" in Covey et al.	nd
161 InherencyTheory	SWAG+ SWAG with some review	2.
	w-level contentious interactions among a set of political players. This approach leads	
•	ence." In T.R. Gurr (ed.) Handbook of Political Conflict, pp. 135-166. 1980. New Yo	rk:

Harry Eckstein. "Theoretical Approaches to Explaining Collective Political Violence." In T.R. Gurr (ed.) Handbook of Political Conflict, pp. 135-166. 1980. New York: The Free Press.

## **Conceptual Model Validity**

# Theory Name, Type Description Value / Theory Description / Theory Citation

245 LegitimacyCharismatc	PeerRvw	Peer reviewed theory	3
Charismatic Authority- based on the charisma, character, or public perception of a leader			
Weber, M. (1978). Economy and society. (G. Roth & C. Wittich, Eds.)New York (Vol. 4). U	-		
49 LegitimacyCongruence	SWAG	Scientific Wild Assed Guess	2
Social identity congruence (ethnic similarity, tribalism)			
47 LegitimacyConsent	PeerRvw	Peer reviewed theory	3
Consent of the governed			
Locke, J. (1690). Two treatises of government. Retrieved from <u>http://oregonstate.edu/instruct</u> meaning and measure of state legitimacy: Results for 72 countries. European Journal of Politi			
54 LegitimacyCorruption	PeerRvw	Peer reviewed theory	3
Corruption is also understood to be a barrier to legitimacy although the line between corruption	on and patronage is often drav	vn by perception.	
Seligson, M. a. (2008). The Impact of Corruption on Regime Legitimacy: A Comparative Stu 433. doi:10.1111/1468-2508.00132	dy of Four Latin American Co	ountries. The Journal of Politics, 64(02	), 408-
55 LegitimacyCrime	PeerRvw	Peer reviewed theory	3
Relationship between crime, security, and legitimacy			
Cummins, J. (2009). Issue Voting and Crime in Gubernatorial Elections. Social Science Quar http://onlinelibrary.wiley.com/doi/10.1111/j.1540-6237.2009.00635.x/pdf. Lamb, R. D. (200) Security, Georgetown University,. Washington, DC. Retrieved from http://www.cissm.umd.e Democratic Legitimacy and Public Insecurity : Crime and Democracy in El Salvador. Politica	5). Measuring legitimacy in w du/papers/files/lamb_measuri	eak states. Graduate Student Conferen ng legitimacy 2005.pdf. Perez, O. J. (	
0 LegitimacyElite	PeerRvw	Peer reviewed theory	3
Opinion of influential Elite'			
Zaller, J. (1992). The Nature and origins of mass opinion.			
14 LegitimacyEndorsemnt		Peer reviewed theory	3
Endorsement by influencers e.g. hereditary rule, endorsement by religious leaders, support of	-		
Weber, M. (1978). Economy and society. (G. Roth & C. Wittich, Eds.)New York (Vol. 4). U	-		
8 LegitimacyIdeologicl	PeerRvw	Peer reviewed theory	
Ideological or religious acceptability Fox, J. (1999). The Influence of Religious Legitimacy on Grievance Formation by Ethno-Reli doi:10.1177/0022343399036003003	gious Minorities. Journal of F	Peace Research, 36(3), 289-307.	
2 LegitimacyPopularity	PeerRvw	Peer reviewed theory	3
Link between legitimacy and popularity is mediated by prior reputation and other attribution in Powell, G. B., & Whitten, G. D. (1993). A Cross-National Analysis of Economic Voting: Tal			Science,
37(2), 391. doi:10.2307/2111378	<b>D D</b>	D : 14	-
6 LegitimacyRational	PeerRvw	Peer reviewed theory	3
Rational- Legal Authority- legitimacy of the process by which power was obtained Weber, M. (1978). Economy and society. (G. Roth & C. Wittich, Eds.)New York (Vol. 4). U state legitimacy: Results for 72 countries. European Journal of Political Research, 45(3), 499-			easure of
98 Median Voter	PeerRvw-	<ul> <li>Well reviewed theory</li> </ul>	3.5
In a majority election, where two politicians commit to policy position closest to own prefere median to win. If either candidate deviates to a different policy position, the deviating candidate deviates to a different policy position.	ate receives less than half the	vote	ce to the
Black, D. 1948 On the Rationale of Group Decision-making, Journal of Political Economy 56			
77 POFED		Peer reviewed theory	3
Domestic factors such as fertility, income and political effectiveness can lead to domestic inst			
Feng, Y., Kugler, J. & Zak, P. 2000 The Politics of Fertility and Economic Development, Inte	· ·		
75 Power Transition		+ Well reviewed theory	3.5
Power of dominant state is overtaken by a challenging state. Rise of populous, less developed challenger is dissatisfied with the status quo.			
Organski, A. F. K. & Kugler, J. 1980 The War Ledger; Lemke, D. & Werner, S. 1996 Power Kim, W. 1996 Power Parity, Alliance, and War from 1648-1975 in Kugler, J & Lemke, D. Pa		ge, and War, International Studies Qua	rterly 40;
3 RegimeChange		Peer reviewed theory	3
Likelihood of regime change is mediated by prior reputation and other attribution information Gasiorowski, M. J. (1995). Economic Crisis and Political Regime Change: An Event History	-	ical Science Review, 89(4), 882.	
doi:10.2307/2082515	<b>.</b> .	WV 11 1 1.1	
34 SpatialBargaining		+ Well reviewed theory	3.5
A number of bargaining models in international relations rely on an underlying "issue space" ( line. Given actors' "ideal positions" along this issue space and a point that represents the "stat points that represent mutually beneficial bargaining agreements. One approach to formalizing (Mo, 1995; Milner, 1997; Pahre, 1997; Hammond and Prins, 2006; Bailer and Schneider 200 rather than a specific point (e.g., Mo, 1995; Pahre, 1997; Hammond and Prins, 2006). In part for all actors and for which there is no further improvement possible is the prediction.	tus quo" (e.g., the current poli this conception of bargaining 6). Within this approach, the	icy being implemented), there are often is to build a spatial model using this is predicted outcome is often a range of p	many sue space policies
For an actors and for which there is no further improvement possible is the prediction. Butler C. Bellman M and Kichiyey O. "Assessing Power in Spatial Bargaining: When is $\mathbb{T}$	Thorn Advantage to Poing Sta	tus Quoa Advantaged?" International	Studios

Butler, C., Bellman, M. and Kichiyev, O., "Assessing Power in Spatial Bargaining: When is There Advantage to Being Status-Quoa Advantaged?", International Studies Quarterly, forthcoming

Unity messages are messages either designed to address an issue of interest to multiple groups, (e.g. decreasing inflation, reducing crime).

Diab, L. N. (1978). Achieving Intergroup Cooperation through Conflict-Produced Superordinate Goals. Psychological reports, 43(3), 735-741. DIAB, LN, AMER UNIV BEIRUT, DEPT SOCIAL & BEHAV SCI, BEIRUT, LEBANON .: PSYCHOLOGICAL REPORTS. 259 WedgeMessages PeerRvw Peer reviewed theory Wedge messages attempt to separate two identity groups by differentiating them Mcgowan, L. (n.d.). Driving Voters Apart: Can a Wedge Issue Be Used to Win an Election? Lukas McGowan Columbia University. American Heritage. Wilson, B. S. (2011). The Wedge Election: the Battle for Australia's Disaffected Voters. Australian Quarterly, 73(5), 8-15. Hillygus, D. S., & Shields, T. G. (2009). The Persuadable Voter: Wedge Issues in Political Campaigns, Politics, Princeton: Princeton University Press, Retrieved from  $\label{eq:http://scholar.google.com/scholar?hl=en&btnG=Search&q=intitle:The+Persuadable+Voter+:+Wedge+Issues+in+Political+Campaigns#1 (the scholar) (the s$ 163 AffectControlTheory PeerRvw+ Well reviewed theory 3.5 Generalizations: 1) actors generate feelings appropriate to a social situation, 2) actors who can't maintain their feelings redefine their views of the situation Heise, David R. 1979. Understanding Events: Affect and the Construction of Social Action. New York: Cambridge University Press.; ---. 2006. Expressive Order: Confirming Sentiments in Social Actions. New York: Springer; MacKinnon, Neil J. 1994. Symbolic Interactionism as Affect Control. Albany, NY: SUNY Press; Smith-Lovin, Lynn. 1988. "Affect control theory: An assessment." in Analyzing Social Interaction: Advances in Affect Control Theory, edited by L. Smith-Lovin and D. R. Heise. New York: Gordon and Breach 95 Attitude Functions PeerRvw Peer reviewed theory persuasion is highest when the message address the attitude function of listener (e.g., utilitarian function, social identity function) DeBono, 1987; Prentice, 1987; Shavitt, 1990, Shavitt et al., 1992 89 AttributionTheory1 2.5 SWAG+ SWAG with some review Attribution theory is concerned with how individuals interpret events and how this relates to their thinking and behavior. Attribution theory assumes that people try to Heider a person can make two attributions 1) internal attribution, the inference that a person is behaving in a certain way because of something about the person, such as attitude, character or personality. 2) external attribution, the inference that a person is behaving a certain way because of something about the situation he or she is in. Heider, 1958 90 AttributionTheorv2 SWAG+ SWAG with some review Kelley expanded on Heider's model and attempted to explain the cognitive process by which people generate internal or external explanations Kelley proposed that interpreting the cause of a behavior. Consensus refers to whether others behave identically in the given situation. Consistency refers to whether the individual behaves identically from case to case in the given situation. Distinctiveness refers to whether the individual behaves identically when the given situation is changed. Kelley, 1967 91 AttributionTheory3 SWAG+ SWAG with some review 2.5 Weiner added an additional dimension to causal interpretation when he proposed that the stability of the cause is also included in individual's explanations of outcomes. The distinction between stable, non-variable causes (such as innate ability for internal attributions and inherent task difficulty for external attributions) and unstable, variable causes (such as effort and luck respectively) was combined with Heider's internal/external dimension to form a basis for classifying the performance attributions made by individuals. Weiner, 1971 69 Behavioral Theory PeerRvw Peer reviewed theory Behavioral Theory (Skinner). Behaviorism is a theory of learning based upon the idea that all behaviors are acquired through conditioning. Conditioning occurs through interaction with the environment. Changes in behavior are the result of the consequences (Positive reinforcement, negative reinforcement, positive punishment, or response cost) of an individual's response to events (stimuli) that occur in the environment. A great deal of attention was given to schedules of reinforcement (e.g. interval versus a broad range of cognitive phenomena. For example, Skinner explained drive (motivation) in terms of deprivation and reinforcement schedules, Skinner (1957) tried to account for verbal learning and language within the operant conditioning paradigm, although this effort was strongly rejected by linguists and psycholinguists. Skinner (1971) deals with the issue of free will and social control. Skinner 239 BeliefDesireIntentio SWAG+ SWAG with some review 2.5 Build artificial intelligence agents based on beliefs, desires & intentions. Georgeff, M., Pell, B., Pollack, M., Tambe, M., & Wooldridge, M. (1999). The belief-desire-intention model of agency. Intelligent Agents V: Agents Theories, Architectures, and Languages. 5th International Workshop, ATAL'98. Proceedings., 1555 1-10. 170 BigFiveFactorModel SWAG+ SWAG with some review 2.5 Started as Neuroticism-Extroversion-Openness Inventory (NEO-I), later revised as NEO Personality Inventory (NEO PI-R). Claims personality encompasses five major traits (with subtraits): neuroticism, extraversion, openness, agreeableness and conscientiousness, Robert McCrae & Paul Costa, 1970s; Goldberg, 1994; critique O'Neil, 2007 46 CognitiveDissonanceT SWAG+ SWAG with some review Cognitive Dissonance Theory (Festinger) Social psychologist Leon Festinger first proposed the theory in 1957 after the publication of his book When Prophecy Fails, observing the counterintuitive belief persistence of members of a UFO doomsday cult and their increased proselytization after the leader's prophecy failed. The failed message of earth's destruction, purportedly sent by aliens to a woman in 1956, became a disconfirmed expectancy that increased dissonance between cognitions, thereby causing most members of the impromptu cult to lessen the dissonance by accepting a new prophecy: that the aliens had instead spared the planet for their sake. http://en.wikipedia.org/wiki/Cognitive\_dissonance, May 2008. Leon Festinger. A Theory of Cognitive Dissonance. Stanford University Press, 1957.

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## **Conceptual Model Validity**

PeerRvw Peer reviewed theory

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determine why people do what they do. A person seeking to understand why another person did something may attribute one or more causes to that behavior. According to

individuals observe three types of covariant data when assessing the causal origin of behavioral events. Consensus, consistency, and distinctiveness are all considered when

ratio) and their effects on establishing and maintaining behavior. One of the distinctive aspects of Skinner's theory is that it attempted to provide behavioral explanations for

**DisciplineName** 

260 UnityMessages

Psychology

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#### Theory Name, Type Description Value / Theory Description / Theory Citation 3 PeerRvw Peer reviewed theory 96 ElaborationLikelihoo Elaboration Likelihood Model (ELM) posits that attitude change can occur through either of tw different processing routes: central or peripheral. Central route processing produces attitude change based on careful evaluation of the arguments contained in the messages. Peripheral route processing is associated with less thoughtful processing, such as reliance on cues or heuristics unrelated to the merits (e.g., the message has an attractive source). Petty & Cacioppo, 1986; Petty & Wegener, 1999 3 164 Ethnomethodology PeerRvw Peer reviewed theory Empirically-oriented study of microinteraction and its conceptual framework. Garfinkel, Harold. 2006. Seeing Sociologically: The Routine Grounds of Social Action. Boulder, CO: Paradigm Publishers; Heritage, John. 1993. Garfinkel and Ethnomethodology. Oxford, UK: Blackwell Publishing; Hilbert, Richard A. 1992. The Classical Roots of Ethnomethodology: Durkheim, Weber and Garfinkel. Chapel Hill, NC: University of North Carolina Press 3 98 HeuristicSystematicM PeerRvw Peer reviewed theory Heuristic-Systematic Model (HSM) of social information processing divides message processing (for persuasion) into systematic and heuristic modes and describes what triggers each Chaiken, 1980, 1987 189 InfluencAuthority PeerRvw+ Well reviewed theory 3.5 Influencer implies authority by use of titles, clothing (such as uniforms), and trappings (such as cars) to induce target to make decision Influence: Science and Practice, Robert B. Cialdini, 5th Ed., 2009 PeerRvw+ Well reviewed theory 3.5 186 InfluencConsistency Influencer obtains an initial commitment from target to make a small decision that enables influencer to obtain a consistent large decision later Influence: Science and Practice, Robert B. Cialdini, 5th Ed., 2009 3.5 256 InfluencePolitical PeerRvw+ Well reviewed theory ZALLER'S RECEIVE- ACCEPT- SAMPLE MODEL (RAS) One of the more widely adopted models of political influence is Zaller's model. (Zaller, 1992) Zaller describes it in terms of these axioms: Axiom 1: RECEPTION The greater a person's level of cognitive engagement with an issue, the more likely he or she is to be exposed to and to comprehend-- in a word, to receive -- political messages concerning an issue. Axiom 2: RESISTANCE People tend to resist arguments that are inconsistent with their political predispositions, but they do so only to the extent that they possess the contextual information necessary to perceive a relationship between the message and their predisposition. Axiom 3: ACCESSIBILITY The more recently a consideration has been called to mind or thought about, the less time it takes to retrieve that consideration or related considerations from memory and bring them to mind for use. Axiom 4: RESPONSE Individuals answer survey questions by averaging across the considerations that are immediately salient or accessible to them. Zaller, J. (1992). The Nature and origins of mass opinion. 188 InfluencLiking PeerRvw+ Well reviewed theory 3.5 Influencer induces the target to like the influencer because of physical attractiveness or similarity of the influencer or praise by the influencer or repeated contact between the two under good conditions or by associating with other positive things; this liking causes target to make the decision Influence: Science and Practice, Robert B. Cialdini, 5th Ed., 2009 3.5 185 InfluencReciprocatio PeerRvw+ Well reviewed theory Influencer induces target to make a reciprocal decision by giving the target a gift first or by making a concession first Influence: Science and Practice, Robert B. Cialdini, 5th Ed., 2009 190 InfluencScarcity PeerRvw+ Well reviewed theory 3.5 Influencer activates Psychological Reactance in target by describing scarcity or increasing (or newness of) scarcity or exclusive information about scarcity or competition for the scarce item causing decision Influence: Science and Practice, Robert B. Cialdini, 5th Ed., 2009 3.5 187 InfluencSocialProof PeerRvw+ Well reviewed theory

Influences or group of influencers act in a certain way and cause target to act in the same way because of similarities between the target and the influencer or group provide social proof of the action; normally the influencing is successful because of general uncertainty by the target Influence: Science and Practice, Robert B. Cialdini, 5th Ed., 2009 99 InoculationTheory SWAG+ SWAG with some review 2.5

#### Inoculation theory concerns conferring resistance to persuation. McGuire: Jamieson, 1992 97 InvolvementELM PeerRvw Peer reviewed theory 3 Extension of Elaboration Likelihood Model (ELM) adds the effect of induced involvement in the message Slater 94 LanguageExpectancyTh PeerRvw Peer reviewed theory 3 Language Expectancy Theory (for modeling persuasion) is an axiomatic theory that expounds on the effects of linguistic variations on message persuasiveness. It is a message-centered theory that explains why certain linguistic formats in messages influence persuasion outcomes. M. Burgoon, 1995 240 LeaderBehavior 3 PeerRvw Peer reviewed theory Individuals who consider themselves political players, be they civilian politicians, tribal leaders such as Sheikhs, or religious leaders such as Islamic clerics, may have goals and behaviors that are very different from the average citizen. They may seek to gain power at the expense of security; they may oppose a functioning government as a rival to power. Furthermore, they may use their leadership positions and influence to bring about collective behavior among citizens that defies the conventional logic of counterinsurgency theory Bueno de Mesquita, B. (2009). The predictioneer's game: Using the logic of brazen self-interest to see and shape the future. New York: Random House. 182 Leadership PeerRvw Peer reviewed theory 3

Behavior patterns can be reduced to "consideration" and "initiating structure"

Halpin & Winer, "A factorial study of the leader behavior descriptions," in Stogdill & Coons, Leader Behavior Its Description and Measurement, Ohio State Univ, 1957

**DisciplineName** 

**Conceptual Model Validity** 

53 <b>MMPI</b>	PeerRvw	Peer reviewed theory	
Minnesota Multiphasic Personality Inventory (MMPI). A new and psychometrically improve statistical methods that were used to develop the RC Scales in 2003.[10] The new MMPI-2 F MMPI-2-RF produces scores on a theoretically-grounded hierarchically structured set of scal 2–RF were not available at the time the MMPI was originally developed. The MMPI-2-RF b researched since their publication in 2003. Publications on the MMPI-2-RC Scales include bo the use of the scales in a wide range of settings	Restructured Form (MMPI-2- es, including the RC Scales. uilds on the foundation of the	RF) is due to be released in July of 20 The modern methods used to develop RC Scales, which have been extensiv	008. The the MMPI- vely
Starke R. Hathaway, PhD, and J. C. McKinley, MD, originators, many contributors since 54 <b>Myers-Briggs</b>	SWAG+	SWAG with some review	2
Myers-Briggs Type Indicator (MBTI) assessment is a psychometric questionnaire designed to theories of Carl Gustav Jung as published in his 1921 book Psychological Types (English edi Katharine Cook Briggs and her daughter, Isabel Briggs Myers. They initially created the indic preferences would help women who were entering the industrial workforce for the first time i effective".[	o identify certain psychologic tion, 1923).[1] The original d cator during World War II, be	al differences according to the typologevelopers of the personality inventory elieving that a knowledge of personali	gical were ty
The Manual			
52 Prototype Concepts	-	Generally accepted theory	
The empirical discovery that human concepts are organized radially, from the empirically per Neisser, Ulric. 1987. Concepts and Conceptual Development: Ecological and Intellectual Fa Eleanor. 1978. "Principles of categorization." Pp. 27-48 in Cognition and Categorization, edi "Prototype classification and logical classification." Pp. 73-86 in New Trends in Conceptual I Hillsdale, NJ: Lawrence Erlbaum; Wittgenstein, Ludwig. 1958. Philosophical Investigations : Saddle River, NJ: Prentice-Hall	ctors in Categorization. New ted by E. Rosch and B. B. Lle Representation: Challenges t	oyd. Hillsdale, NJ: Lawrence Erlbaum o Piaget's Theory?, edited by E. K. So	n.; —. 1983 cholnick.
71 ReactanceTheory	SWAG+	SWAG with some review	2
Reactance Theory. It operates in three simple steps that are sequentially connected. People p Reactance is an intense motivational state. A person with reactance is emotional, single-mind (Very similar to cognitive dissonance theory). Brehm, 1966			
	awa a		
36 Self-affirmationTheo Self-affirmation theory. This theory explains how people will reduce the impact of a threat to area.	SWAG+ their self-concept by focusin		2 n some oth
Steele, 1988			
27 Self-awarenessQuantu	SWAG	Scientific Wild Assed Guess	
The mind and self-awareness are quantum states			
Stephen Pampinella, 2008, http://stephenpampinella.wordpress.com/2008/02/04/what-if-quar			
78 Self-awarenessTheory	SWAG+	SWAG with some review	2
Duval & Wickland, 1972			
34 Self-completionTheor	SWAG+	SWAG with some review	2
Self-completion theory. Symbolic self completion theory argues that many of the activities the substantiate their definition of themselves, clarifying their identity. These acts are especially p Wicklund & Gollwitzer, 1982			ided to
33 Self-discrepancyTheo	SWAG+	SWAG with some review	2
Self-discrepancy fuelow. We are strongly motivated to maintain a sense of consistency among invariably differences between our aspirations for ourselves and our actual behaviors. When to feel a pattern of feelings such as sadness, dissatisfaction and other depressive senses. Whe and other anxieties. As with other dissonance effects, we will act to reduce this dissonance by Higgins et al., 1987	g our various beliefs and self- the actual experience is some n experience is less that we f	perceptions. This causes problems as what less than we think we can achiev	there are ve, we tend
35 Self-evaluatnMainten	SWAG	SWAG with some review	2
Self-evaluation maintenance theory. The theory suggests that one's self-concept can be threat close the threatening person is to us and also how personally relevant the behavior is. Examp distance yourself from them, b) reduce the relevance of their behavior or c) try and improve y	eened by how other people be le, if a person does/says some	have. The level of threat depends both ething that you find uncomfortable you	h on how
Tesser, 1988			
82 Self-monitoring Theor Self-monitoring theory. The theory refers to the process through which people regulate their of a favorable manner. It disintinguishes between high self-monitors, who monitor their behavio situationally consistent.	own behavior in order to "loo		
-		SWAG with some review	2
Snyder, 1974 79 <b>Self-perceptionTheor</b>	SWAG+	SWAO WILL SULLE LEVIEW	4

**Conceptual Model Validity** 

SWAG+ SWAG with some review 2.5 81 Self-presentationThe Self-presentation theory. Impression management is the process through which people try to control the impressions other people form of them. It is a goal-directed conscious or unconscious attempt to influence the perceptions of other people about a person, object or event by regulating and controlling information in social interaction. It is usually synonymous with self-presentation, if a person tries to influence the perception of their image.

87 Self-verificationThe SWAG+ SWAG with some review 2.5 Self-verification theory. The theory asserts that people want to be known and understood by others according to their firmly held beliefs and feelings about themselves. Because chronic self-concepts and self-esteem play an important role in understanding the world, providing a sense of coherence, and guiding action, people become motivated to maintain them through self-verification strivings. Such strivings provide stability to people's lives, making their experiences more coherent, orderly, and comprehensible than they would be otherwise. Self-verification processes are also adaptive for groups, groups of diverse backgrounds and the larger society, in that they make people predictable to one another thus serve to facilitate social interaction. Swann, 1990

#### 68 SocialCognitiveTheor

Goffman 1959

**DisciplineName** 

Social Cognitive Theory (formerly social learning theory). - Social cognitive theory provides a framework for understanding, predicting, and changing human behavior. The theory identifies human behavior as an interaction of personal factors, behavior, and the environment. In the model, the interaction between the person and behavior involves the influences of a person's thoughts and actions. The interaction between the person and the environment involves human beliefs and cognitive competencies that are developed and modified by social influences and structures within the environment. The third interaction, between the environment and behavior, involves a person's behavior determining the aspects of their environment and in turn their behavior is modified by that environment. Bandura 1977: Bandura 1986

#### 47 SocialComparison

The theory that people evaluate their opinions and abilities in comparison to other people. Many opinions and abilities cannot be evaluated without some sort of reference. The theory suggests that individuals who are too different do not compare to each other. This comparison is the basis for generating goals and levels of aspirations in individuals. A tendency toward uniformity also explains the spread of opinions through social influence and competition of abilities since abilities among individuals cannot be identical.

Leon Festinger, A theory of social comparison process, Human Relations, pages 117-140, 1954,

#### 93 SocialExchangeTheory

Social Exchange theory explains how we feel about a relationship with another person as depending on our perceptions of: a) the balance between what we put into the relationship and what we get out of it, b) the kind of relationship we deserve, and c) the chances of having a better relationship with someone else. In deciding what is fair, we develop a comparison level against which we compare the give/take ratio. This level will vary between relationships, with some being more giving and others where we get more from the relationship. They will also vary greatly in what is given and received. Thus, for example, exchanges at home may be very different, both in balance and content. We also have a comparison level for the alternative relationships. With a high such comparison level, we might believe the world is full of lovely people just waiting to meet us. When this level is low, we may stay in a high-cost relationship simply because we believe we could not find any better elsewhere. Thibaut & Kelly, 1959

#### 77 SocialFacilitation

Social facilitation. Tasks which we find easy, are done \*better/quicker\* in the presence of other people. The opposite is true for difficult tasks. This is because first, the presence of others increases physiological arousal such that our bodies become more energized, and secondly because when we are aroused it is more difficult to perform new or difficult tasks. The presence of others makes us suspect evaluation. Depending on how we forecast that evaluation, we may look forward to either adulation or criticism and rejection

Tripp, 1918; Zajonc

### 88 TerrorMgmtTheory

Terror Management Theory. It is based on Ernest Becker's writings, in which the universality of death terror and the need to protect against it play an essential role. Psychologically, the protective function is accomplished via a cultural anxiety buffer that has two components. One component consists of the individual's conception of the cultural worldview and the faith one has in this worldview. The second component involves a sense of personal worth or self-esteem that is attained by believing that one is living up to the cultural system's standards of values. The need for defense is particularly high when one is reminded of his or her mortality (mortality salience is increased) and when one's cultural system is threatened. In those cases one can expect negative reactions against those who are considered to embody the threat, such as individuals who belong to a different group, known as "outgroupers," and positive reactions toward those who represent the cultural values, typically "ingroupers." A second implication, the anxiety-buffer hypothesis, states that strengthening the anxiety-buffer, for example boosting a person's self-esteem, should reduce this person's death anxiety. Greenberg, Solomon, & Pyszczynski, 1991

#### 100 TheoryReasonedAction

Theory of Reasoned Action (TRA) was developed to explain volitional behaviors. It excludes spontaneous, impulsive, habitual, cravings driven, scripted or mindless behaviors

Fishbein & Aizen, 1975, 1980

#### 70 ThOfPlannedBehavior

Theory of Planned Behavior. Theory of Reasoned Action suggests that a person's behavior is determined by his/her intention to perform the behavior and that this intention is, in turn, a function of his/her attitude toward the behavior and his/her subjective norm. The best predictor of behavior is intention. Intention is the cognitive representation of a person's readiness to perform a given behavior, and it is considered to be the immediate antecedent of behavior. This intention is determined by three things: their attitude toward the specific behavior, their subjective norms and their perceived behavioral control. The theory of planned behavior holds that only specific attitudes toward the behavior in question can be expected to predict that behavior. In addition to measuring attitudes toward the behavior, we also need to measure people's subjective norms - their beliefs about how people they care about will view the behavior in question. To predict someone's intentions, knowing these beliefs can be as important as knowing the person's attitudes. Finally, perceived behavioral control influences intentions. Perceived behavioral control refers to people's perceptions of their ability to perform a given behavior. These predictors lead to intention. A general rule, the more favorable the attitude and the subjective norm, and the greater the perceived control the stronger should the person's intention to perform the behavior in question.

Ajzen & Fishbein, 1980

### **Conceptual Model Validity**

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# SWAG+ SWAG with some review

# SWAG+ SWAG with some review

SWAG+ SWAG with some review

PeerRvw Peer reviewed theory

PeerRvw Peer reviewed theory

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PeerRvw Peer reviewed theory

SWAG+ SWAG with some review

# Theory Name, Type Description Value / Theory Description / Theory Citation

92 **TriangularThOfLove** SWAG+ SWAG with some review 2.5 The triangular theory of love. The theory characterizes love within the context of interpersonal relationships by three different components: intimacy, passion commitment. The "amount" of love one experiences depends on the absolute strength of these three components; the "type" of love one experiences depends on their strengths relative to each other. Different stages and types of love can be explained as different combinations of these three elements; for example, the relative emphasis of each component changes over time as an adult romantic relationship develops. A relationship based on a single element is less likely to survive than one based on two or more. Sternberg, 1986

#### 80 TwoFactorTheoEmotion

Two-factor theory of emotion. When trying to understand what kind of person we are, we first watch what we do and feel and then deduce our nature from this. This means that the first step is to experience physiological arousal. We then try to find a label to explain our feelings, usually by looking at what we are doing and what else is happening at the time of the arousal. Thus we don't just feel angry, happy or whatever: we experience feeling and then decide what they mean. Event ==> arousal ==> reasoning ==> emotion \*\*\*This is notable as it places emotion as a cognitive act (albeit subconscious) rather than a deeper state (this is the place of arousal). Schachter & Singer, 1962

#### Science, Biology

#### 72 Evolution

Evolutionary Theory widely held notion that all life is related and has descended from a common ancestor: the birds and the bananas, the fishes and the flowers -- all related. Darwin's general theory presumes the development of life from non-life and stresses a purely naturalistic (undirected) "descent with modification". That is, complex creatures evolve from more simplistic ancestors naturally over time. In a nutshell, as random genetic mutations occur within an organism's genetic code, the beneficial mutations are preserved because they aid survival -- a process known as "natural selection." These beneficial mutations are passed on to the next generation. Over time, beneficial mutations accumulate and the result is an entirely different organism (not just a variation of the original, but an entirely different creature). Darwin

#### Science, Physical

#### Sociology

Agenda-Settir	Agenda-Setting Theory (AST): Media coverage of themes encourages public consideration leading to attitude influence within the public				
McCombs, M	McCombs, M. and Shaw, D. 1972 The agenda-setting function of mass media, The Public Opinion Quarterly 36				
76 Arousal Theory SWAG+ SWAG with some review 2					
Arousal Theor	y. cost-reward theory suggests that people feel upset when they see a person in need and are moti	vated to do	something to reduce the unpleasant arousal.		
People then w	igh the costs of helping versus not helping. The clearer the need for help, the more likely people a	are to help.	The presence of others inhibits helping beha	ivior	
due to diffusio	of responsibility, a belief that someone else will help. Environmental and personality characteris	tics also in	fluence helping.		

#### 258 BoundedConfidence

205 AgendaSettingTheory

Bounded confidence refers to models where agents are influenced by each other only if they are already similar to each other within some interval, which is the bound' of their confidence. interested in how extremism could arise in such models, given that most naïve models tend to converge toward homogeneity. They modeled opinions that were continuous, not discrete variables, where persuasion involved moving another agent toward one's position on a continuum. They added level of certainty to the model, the converse of which is influenceability, and created some agents who had extreme opinions and very narrow ranges of uncertainty (which has some real-world plausibility). These agents could influence others and move them outward toward their own extreme positions, without themselves being influenced toward the center, which could in many cases produce divergence and extremism instead of homogeneity.

Deffuant, G., Amblard, F., & Weisbuch, G. (2004). Modelling group opinion shift to extreme: the smooth bounded confidence model. Arxiv preprint cond-mat/0410199, 1-12. Retrieved from <a href="http://arxiv.org/abs/cond-mat/0410199">http://arxiv.org/abs/cond-mat/0410199</a>. Kulakowski, K. (2009). Opinion polarization in the Receipt–Accept–Sample model. Physica A: Statistical Mechanics and its Applications, 388(4), 469-476. Elsevier B.V. doi:10.1016/j.physa.2008.10.037. Hegselmann, R., & Krause, U. (2002). OPINION DYNAMICS AND BOUNDED CONFIDENCE. Simulation, 5(3). Weisbuch, G. (2004). Bounded confidence and social networks. The European Physical Journal B-Condensed Matter and Complex Systems, 38(2), 339–343. Springer. Retrieved from <a href="http://www.springerlink.com/index/9BV8FYFYAA9HPX72.pdf">http://www.springerlink.com/index/9BV8FYFYAA9HPX72.pdf</a>. Malarz, K., & Kulakowski, K. (2011). Bounded confidence model: addressed information maintain diversity of opinions. Simulation. Kulakowski, Krzysztof, & Krawczyk, M. J. (2009). Hate: no choice. Agent simulations., 1-17.
 243 CivilViolenceModel

43	CivilViolenceModel	SWAG+	SWAG with some review	2.5
	Several components, including perception of state's legitimacy, hardship (combine to create grievance score).			
	Epstein, J. M., Steinbruner, J. D., & Parker, M. T. (2001). Modeling Civil Violence: An Agent-Based Computation	ational Appr	oach Working Paper No. 20. Science.	

#### 241 CoalitionTheory

Coalition theory is a branch of game theory concerned with how partnerships are formed in different situations in order to win' at games that single players cannot win on their own.

Gamson, W. A. (1961). A theory of coalition formation. American Sociological Review, 26(3), 373-382.

### 201 CommunicatnPenetratn

Communication Penetration Theory (CPT): messages contained in media will reach only a limited fraction of public with access to media channels Berlo, D. K. 1960 The process of communication: an introduction to theory and practice; Stone, G., Singletary, M., Richmond, V. 1999 Clarifying communications theories: a hands-on approach

### **Conceptual Model Validity**

SWAG+ SWAG with some review

Accepted Generally accepted theory

SWAG+ SWAG with some review

PeerRvw+ Well reviewed theory

PeerRvw Peer reviewed theory

Accepted Generally accepted theory

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### DisciplineName Theory Name Type Decorintion Value /

50 Comp.Org.Theory

# Theory Name, Type Description Value / Theory Description / Theory Citation

Discipline focuses on theorizing about, describing, understanding, and predicting the behaviors of organizations and the process of organizing using formal approaches (computational, mathematical and logical models). Kathleen M, Carley and Lee Gasser. Multiagent systems: a modern approach to distributed artificial intelligence, chapter Computational Organization Theory, MIT Press, Cambridge, MA, 1999. 3.5 136 Conflict Theory PeerRvw+ Well reviewed theory Conflict theory argues that society is not about solidarity or social consensus but rather about competition. Society is made up of individuals competing for limited resources (e.g., money, leisure, sexual partners, etc.). Broader social structures and organizations (e.g., religions, government, etc.) reflect the competition for resources in their inherent inequalities; some people and organizations have more resources (i.e., power and influence) and use those resources to maintain their positions of power in society. The following are three primary assumptions of modern conflict theory: · Competition over scarce resources is at the heart of all social relationships. Competition rather than consensus is characteristic of human relationships. Inequalities in power and reward are built into all social structures. Individuals and groups that benefit from any particular structure strive to see it maintained. Change occurs as a result of conflict between competing interests rather than through adaptation. Change is often abrupt and revolutionary rather than evolutionary. Conflict theory was elaborated in the United Kingdom by Max Gluckman and John Rex, in the United States by Lewis A. Coser and Randall Collins, and in Germany by Ralf Dahrendorf, all of whom were influenced by Karl Marx, Ludwig Gumplovicz, Vilfredo Pareto, Georg Simmel, and other founding fathers of European sociology. 180 CulturalDimensions PeerRvw+ Well reviewed theory 3.5 Five dimensions: power distance index (PDI), individualism (IDV), masculinity (MAS), uncertainty avoidance index (UAI), long-term orientation (LTO), to define differences in culture. Cultures that score high in power distance expect power to be distributed unequally, and expect leaders to behave in more autocratic ways. High power distance cultures can be very tolerant of financial gains by leaders that would be considered excessive or even corrupt in more egalitarian societies. Hofstede, G. (1983). National cultures in four dimensions: A research-based theory of cultural differences among nations. International Studies of Management & Organization, 13(2), 46-74. Hofstede, Geert, Exploring Culture, 2002 2.5 55 Forced Migration SWAG+ SWAG with some review people place tremendous value on their physical security and will abandon their property and relocate if they feel their security is threatened Davenport, Christina A., Will H. Moore, and Steven C. Poe. 2003. Sometimes you just have to leave: Threat and refugee movements, 1964 - 1989. International Interactions 29:27 - 55. 207 FramingTheory SWAG+ SWAG with some review 2.5 Framing Theory (FT): Frames of reference used in form arguments contained in media (spin) can alter public influence Chong, D. and Druckman, J. N. 2007 Framing theory, Annual Review of Political Science 10 238 HorizontalInequality 3 PeerRvw Peer reviewed theory The theory of horizontal inequality predicts that groups will fear and resent gains made by groups that they consider to be their near-peers. These gains may be in the socioeconomic, political, or cultural domains. Gains made by peer groups are feared because they change the implied social ranking, i.e. move a reference group down a notch, in a way that gains made by non-peer groups do not. Stewart, F. (2000). Crisis prevention: Tackling horizontal inequalities. Oxford Development Studies, 28(3), 245-262. Østby, G. (2008). Polarization, horizontal inequalities and violent civil conflict. Journal of Peace Research, 45(2), 143-162. 139 ImpressionManagement PeerRvw Peer reviewed theory An extension of role theory, impression management is both a theory and process. The theory argues that people are constantly engaged in controlling how others perceive them. The process refers to the goal-directed conscious or unconscious effort to influence the perceptions other people form of an individual, object, or event by regulating and controlling information in social interaction. If a person tries to influence the perception of her or his own image, this activity is called self-presentation. Erving Goffman, 1959 73 InformtnlScialInflnc SWAG+ SWAG with some review 2.5 Informational social influence occurs when one turns to the members of one's group to obtain accurate information. A person is most likely to use informational social influence in three situations: When a situation is ambiguous, people become uncertain about what to do. They are more likely to depend on others for the answer. During a crisis immediate action is necessary, in spite of panic. Looking to other people can help ease fears, but unfortunately they are not always right. The more knowledgeable a person is, the more valuable they are as a resource. Thus people often turn to experts for help. Sherif, 1935; Cialdini, 1993 233 Insecurity PeerRvw Peer reviewed theory 3 Insecurity as a factor in population actions United Nations Development Program 1994 Human Development Report 1994: New Dimensions of Human Security New York Oxford University Press ISBN 0-19-509170-1 3 141 Integration Theory PeerRvw Peer reviewed theory Recently, some sociologists have been taking a different approach to sociological theory by employing an integrationist approach - combining micro- and macro-level theories to provide a comprehensive understanding of human social behavior. One example is Ritzer's Integration Model. It proposes four highly interdependent elements in his sociological model: a macro-objective component (e.g., society, law, bureaucracy), a microobjective component (e.g., patterns of behavior and human interaction), a macro-subjective component (e.g., culture, norms, and values), and a micro-subjective component (e.g., perceptions, beliefs). This model is of particular use in understanding society because it uses two axes: one ranging from objective (society) to subjective (culture and cultural interpretation); the other ranging from the macrolevel (norms) to the micro-level (individual level beliefs).

135 Manifest&LatentFunct

Ritzer & Goodman 2004

Says there is a difference between manifest and latent functions, where manifest functions are the intended functions of a phenomenon in a social system and latent functions are the unintended functions. An example of manifest and latent functions is public education. The manifest purpose of public education is to increase the knowledge and abilities of the citizenry. The latent function of the public education system is the development of a hierarchy of the learned. Merton, 1957

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PeerRvw Peer reviewed theory

**Conceptual Model Validity** 

2.5

SWAG+ SWAG with some review

210 MediaOutletTheory	SWAG+	SWAG with some review	2.5
A conceptual model of the media outlet production process, with 5 behaviors: 1. balance sentiment of contr distribution of content according to its priority themes, 3. carry statements exclusively from a list of its legi messages having strong tone to capture audience attention b. prefer messages that can impact its target aud other outlets to fit own needs	itimate sources, 4	I. fill its limited capacity according to a. pr	
Bennet, W. H. 2010 Media and Influence in Estimating Impact by A. Kott and G. Citrenbaum			
165 Micro-Generation	SWAG+	SWAG with some review	2.5
The theory that social interaction at all scales is ultimately microinteraction.			
Collins, Randall. 1981. "On the microfoundations of macrosociology." American Journal of Sociology 86:9 micro-macro order." American Sociological Review 55:794-808; Rawls, Anne Warfield. 1987. "The intera Sociological Theory 5:136-149; Stinchcombe, Arthur L. 2001. When Formality Works: Authority and Abs Chicago Press	action order sui g	eneris: Goffman's contribution to social th	eory."
242 MinimumResourceTheor	PeerRvw	Peer reviewed theory	3
Uses coalition theory to make somewhat counterintuitive predictions about choice of coalition partners. Mi coalitions that are large enough to dominate a resource (e.g. control parliament) but not larger. The reason resources are shared proportionate to each player's relative power, an assumption called the parity norm. A power would prefer to partner with a player who controlled 15% rather than a player who controlled 30%, share of a winning coalition (45/60), and the second would leave player A with only a 60% share of a winning coalition (45/60).	for this is the ass According to this because the first	sumption that within a coalition, power and logic Player A who controlled 45% of ava partnership would leave Player A with a	l uilable
Gamson, W. A. (1961). A theory of coalition formation. American Sociological Review, 26(3), 373-382. L An interpretation based on the theory of games. American Political Science Review, 62, 770-787.	Leiserson, M. (19	68). Factions and coalitions in one-party j	apan:
74 NormativeScialInflnc	SWAG+	SWAG with some review	2.5
Normative social influence. Normative social influence occurs when one conforms to be liked or accepted	by the members	of the group.	
Asch, 1951	-		
229 OpinionDescription	PeerRvw	Peer reviewed theory	3
Describing population opinions with Beta distributions		2	
Cobb, L., Stochastic Differential Equations for the Social Sciences, in Mathematical Frontiers of the Social M. Merkle EC and Verkuilen, J 2011 Beta regression finite mixture models of polarization and priming in . 831	2		,
203 OpinionLeadershipTh	PeerRvw	Peer reviewed theory	3
Opinion Leadership Theory (OPT): trends in opinion formation are led by a small fraction of gatekeepers w media influence within a public segment		•	
Katz, E. and Lazarsfeld, P. F. 1955 Personal influence: the part played by people in the flow of mass comm	nunication		
206 PrimingTheory	SWAG+	SWAG with some review	2.5
Priming Theory (PT): Media coverage of topics can inform the public and prepare it to reach informed deci			
Goidel, R. K., Shields, T. G., Peffley, M. 1997 Priming theory and RAS models: toward an integrated pers		influence American Politics Research 25	
168 Public discourse	-	Peer reviewed theory	3
Study of the beliefs & ideologies in history and public policy, their dynamics and the resources that shape t		reer reviewed theory	5
Apter, David E. and Tony Saich. 1994. Revolutionary Discourse in Mao's Republic. Cambridge, MA: Harv mass belief systems." Pp. 206-261 in Ideology and Its Discourset, edited by D. Apter. New York: Free Pr Ideology and Social Structure in the Reformation, the Enlightenment, and European Socialism. Cambridge,	vard University F ress; Wuthnow, F	Robert. 1989. Communities of Discourse:	e of
49 Relative Deprivation	SWAG	Scientific Wild Assed Guess	2
Relative deprivation is the experience of being deprived of something to which one thinks one is entitled.[1 discrepancy between legitimate expectations and present actualities."[2] It is a term used in social sciences deprivation that are relative rather than absolute.[3] It has important consequences for both behavior and participation in collective action. It is relevant to researchers and students in social psychology, sociology, interested in intergroup relations, prejudice, social identity, group processes, social comparison, social justic concept of relative fitness, where an organism that successfully outproduces its competitors leaves more concept.	1] Schaefer define s to describe feeli l attitudes, includi economics, polit tice, and social m	es it as "the conscious experience of a neg ings or measures of economic, political, or ing feelings of stress, political attitudes, ar ics, and other social sciences, especially t ovements.[4] Its origins are from the biolo	ative social ad hose
T. R. Gurr. Why men rebel. Princeton University Press, Princeton, NJ, 1970.			
138 Role Theory		Peer reviewed theory	3
Role Theory posits that human behavior is guided by expectations held both by the individual and by other individuals perform or enact in their daily lives, such as secretary, father, or friend. Individuals generally ha norms that function as plans or blueprints to guide behavior. Roles specify what goals should be pursued, v required in a given scenario or situation. Role theory holds that a substantial proportion of observable, day much as actors carry out their roles on the stage or ballplayers theirs on the field. Role theory is, in fact, pre expectations for a specified position (e.g., sister, fireman, prostitute), a significant portion of the behavior or more, role theory also argues that in order to change behavior it is necessary to change roles; roles correspt following propositions: 1. people spend much of their lives participating as members of groups and organiz each of these positions entails a role, which is a set of functions performed by the person for the group 4. g rules, which include what rewards will result when roles are successfully performed and what punishments	ave and manage r what tasks must b -to-day social bel redictive. It implie of the persons occ ond to behaviors zations 2. within ( groups often form s will result when	many roles. Roles consist of a set of rules be accomplished, and what performances a havior is simply persons carrying out their es that if we have information about the ro cupying that position can be predicted. We and vice versa. Role Theory includes the these groups, people occupy distinct positi alize role expectations as norms or even c	re roles, le nat's ions 3. odified

### 202 SCMR

DisciplineName

PeerRvw+ Well reviewed theory

**Conceptual Model Validity** 

Source-message-channel-receiver (SCMR): a media message that is received by an audience may be accepted or rejected depending on its agreement with message sentiment and trust in media source

to live up to the norms that accompany their roles 6. group members check each individual's performance to determine whether it conforms with the norms; the anticipation

Berlo, D. K., Lemert, J. B., Mertz, R. J. 1969 Dimensions for evaluating the acceptability of message sources, Public Opinion Quarterly 33; Stone, G., Singletary, M., Richmond, V. 1999 Clarifying communications theories: a hands-on approach

Tuesday, June 07, 2016

that others will apply sanctions ensures role performance

#### DIME/PMESII VV&A Tool, v1.52 © 2012, Hartley Consulting

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3.5

Bennet, W. H. 2010 Media and Influence in Estimating Impact by A. Kott and G. Citrenbaum

# Theory Name, Type Description Value / Theory Description / Theory Citation

179 SemanticDifferentIW	SWAG+	SWAG with some review	2.5
MCCDC/OAD study created Influence=Evaluation*sqrt(Potential**2+Activity**2) from the three S	Semantic Differential co	mponents	
Marling, Robin, 2009, "A Semantic Differential Approach to Incorporating Qualitative Data into M	lodels," Phalanx, March	2009, Vol 42, No 1	
140 SocialConstructionis	SWAG+	SWAG with some review	2.5
Social constructionism is a school of thought introduced into sociology by Berger and Luckmann. S groups create their perceived reality. Social constructionism focuses on the description of institution constructed reality is seen as an on-going dynamic process; reality is re-produced by people acting them. Berger and Luckmann argue that social construction describes both subjective and objective reproduced in social interactions.	ns and actions and not or on their interpretations of	n analyzing cause and effect. Social of what they perceive to be the work	lly ld external to
Peter L. Berger and Thomas Luckmann in 1966 book The Social Construction of Reality			
166 SocialEmotion		Well reviewed theory	3.5
The theory that emotion underlies human reasoning and all social processes. These references draw			
Collins, Randall. 1981. "On the microfoundations of macrosociology." American Journal of Sociole transient emotions." Pp. 27-57 in Research Agendas in the Sociology of Emotions, edited by T. D. J common denominator of rational choice." Rationality and Society 5:203-230:; —. 2004. Interaction Edward J. 2003. "Interaction, emotion and collective identities." in Advances in Identity Theory and Sallach, David L. 2008. "Modeling emotional dynamics: Currency versus field." Rationality and So theory of ethnic nationalism." in Social Theory and the Politics of Identity, edited by C. Calhoun. C Human Emotions: A Sociological Inquiry into the Evolution of Human Affect. Stanford, CA: Sta	Kemper. Albany: SUNY n Ritual Chains. Princeto d Research, edited by P. ociety 20:343-365; Scher ambridge, MA: Blackwo	<sup>r</sup> Press.; —. 1993. "Emotional ener n, NJ: Princeton University Press; J. Burke. New York: Kluwer Acad ff, Thomas. 1994. "Emotions and id	gy as the Lawler, demic; dentity: A
58 SocialIdentity	PeerRvw	Peer reviewed theory	3
<ul> <li>Individual decisions are affected by social identity and the psychological basis of intergroup discrim others (and ourselves) into categories. Labeling someone a Muslim, a Turk, a Gimp or a soccer play. We also associate with certain groups (our ingroups), which serves to bolster our self-esteem. Corbias toward the group to which we belong. Psychological Distinctiveness: We desire our identity the As developed by Tajfel, social identity theory is a diffuse but interrelated group of social psychologi and behave as part of, social groups, adopting shared attitudes to outsiders. It is also concerned with perceived as encounters between group members. Social identity theory is thus concerned both with Reacting against individualistic explanations of group behaviour (e.g. Allport) on one hand, and ten identity that held together both society and individual. Tajfel first sought to differentiate between the and interpersonal relationships (personal identity) and those elements derived from belonging to a prepertoire of identities open to them (social and personal), each identity informing the individual of is most salient for an individual at any time will vary according to the social context. Tajfel then pointerpersonal to the purely intergroup. Where personal identity is salient, the individual will relate to and any personal relationship existing between the individuals. However, under certain conditions " and that when this is the case behaviour is qualitatively different: it is group behaviour." "Social identity and that when this is the case collectivities, form roles. The use of standardized markers, especially to do v societies, notwithstanding large cross-cultural variations which can be noted." by Giddens Henri Tajfel and John Turner (1979). Kopecky, J., Bos, N. D., &amp; Greenberg, A. (2010). Social ider Behavioral Research in Modeling and Simulation.</li> <li>75 Social Impact Theory. The theory predicts that as strength and immediacy increase within a group ( important a group is and the more one is i</li></ul>	nination. It is composed yer are ways of saying o mparison: We compare of to be both distinct from a gical theories concerned h what difference it mak h the psychological and s dencies to reify the grou toose elements of self-ider avarticular group (social ic who he is and what this stulated that social behav o others in an interperson 'social identity is more sidentities are associated with the bodily attributes ntity modeling: past worl SWAG+ (up to about 4-5 people), the group's normative pro-	of four elements: Categorization: ther things about these people. Id our groups with other groups, seein and positively compared with other with when and why individuals ide es when encounters between indivi- sociological aspects of group behav p on the other, Tajfel sought an ac- ntity derived from individual person dentity). Each individual is seen to identity entails. Which of these ma- viour exists on a spectrum from the nal manner, dependent on their cha- alient then personal identity in self- with normative rights, obligations a of age and gender, is fundamental k and relevant issues for socio-cultu SWAG with some review , conformity will also increase. The essures. As the size of a group incre-	We often put entification: g a favorable groups.[1] ntify with, iduals are viour. count of group nality traits have a up identities purely racter traits -conception and sanctions in all ural modeling. 2.5 more eases a single
Latane, B. 1981 The psychology of social impact, American Psychologist 36			
204 SocialJudgmentTheory	SWAG+	SWAG with some review	2.5
Social Judgment Theory (SJT): opinion formation within the public is driven by the social interaction represents collective confidence and strength of opinion held within a social group. Evolved from S			ent attitude
Jager, W. and Amblard, F. 2004 A dynamical perspective on attitude change in Proceedings of the Organizational Science (NAACSOS) Conference	North American Associa	ation for Computational Social and	
257 SocialNetwork	PeerRvw	Peer reviewed theory	3
Individual decisions are affected by social networks			
Marsden, P. V., & Friedkin, N. E. (1993). Network Studies of Social Influence. Sociological Method	ods & Research, 22(1), 1	127-151. doi:10.1177/0049124193	022001006
228 SocialNetworkQuantum	SWAG	Scientific Wild Assed Guess	2
Social networks using quantum theory			
Bisconti, et al. "Quantum Modeling of Social Networks The Q.NET Project," Springer, 2009, http://www.networks.com/actional-acti	://www.springerlink.com	n/content/r54556j0702488p4/	
211 SourceLinesofCommuni Source Lines of Communication	SWAG	Scientific Wild Assed Guess	2

**Conceptual Model Validity** 

Years of use & criticism of the DEXES model in training situations		
Various		
4 HartleyDIME/PMESII	SWAG	Scientific Wild Assed Gue
DIME/PMESII connections added by Hartley		
Hartley, Dean S., III. Operations Other Than War (OOTW) Flexible Asymmetric Simulation Technolog DRC, Orlando, FL, 2006.	;ies (FAST) Prototy	pe Toolbox: ISSM v4.00 A
3 Hayes & Sands	SWAG+	SWAG with some review
DIME/PMESII connections defined in book		
Hayes, Bradd C. and Jeffrey I. Sands. Doing Windows: Non-Traditional Military Responses to Comple-	x Emergencies. CO	CRP, Washington, DC, 1998
231 RolePlayer	WAG	Wild Assed Guess
Role player decisions in game at runtime		
230 ScenarioDesigner	WAG+	WAG plus some science
Scenario designer decisions at runtime		

**DisciplineName** 

134 StructuralFunctional

# Subject Matter Expert

1.5

# **Conceptual Model Validity**

PeerRvw+ Well reviewed theory

#### societies members perform very different tasks, resulting in a strong interdependence between individuals. Based on the metaphor of an organism in which many parts function together to sustain the whole, Durkheim argued that modern complex societies are held together by organic solidarity (think interdependent organs). The central concern of structural-functionalism is a continuation of the Durkheimian task of explaining the apparent stability and internal cohesion of societies that are necessary to ensure their continued existence over time. Many functionalists argue that social institutions are functionally integrated to form a stable system and that a change in one institution will precipitate a change in other institutions. Societies are seen as coherent, bounded and fundamentally relational constructs that function like organisms, with their various parts (social institutions) working together to maintain and reproduce them. The various parts of society are assumed to work in an unconscious, quasiautomatic fashion towards the maintenance of the overall social equilibrium. All social and cultural phenomena are therefore seen as being functional in the sense of working together to achieve this state and are effectively deemed to have a life of their own. These components are then primarily analysed in terms of the function they play. In other words, to understand a component of society, one can ask the question, "What is the function of this institution?" A function, in this sense, is the contribution made by a phenomenon to a larger system of which the phenomenon is a part. Durkheim's strongly sociological perspective of society was continued by Radcliffe-Brown. Following Auguste Comte, Radcliffe-Brown believed that the social constituted a separate level of reality distinct from both the biological and the inorganic (here nonliving). Explanations of social phenomena therefore had to be constructed within this social level, with individuals merely being transient occupants of comparatively stable social roles. Thus, in structuralfunctionalist thought, individuals are not significant in and of themselves but only in terms of their social status: their position in patterns of social relations. The social structure is therefore a network of statuses connected by associated roles. Durkheim, Hoult 1969, Auguste Comte, Radcliffe-Brown, Layton 1997 67 StructurationTheory SWAG+ SWAG with some review 2.5 The notion of construction and reconstruction of the social system through human interaction based on rules and resources 137 SymbolicInteraction PeerRvw Peer reviewed theory 3 Symbolic Interactionism is a theoretical approach to understanding the relationship between humans and society. The basic notion of symbolic interactionism is that human action and interaction are understandable only through the exchange of meaningful communication or symbols. In this approach, humans are portrayed as acting as opposed to being acted upon. The main principles of symbolic interactionism as outlined by Blumer (1986) are: 1. human beings act toward things on the basis of the meanings that things have for them 2. these meanings arise of out of social interaction 3. social action results from a fitting together of individual lines of action Herman and Reynolds 1994 181 TippingPoint PeerRvw+ Well reviewed theory 3.5 Concept that riots, rumor diffusion, strikes, migration are threshold driven actions, where decision for a given actor to make a choice depends on the proportion of others making the decision Granovetter, Mark, "Threshold Models of Collective Behavior," The American Journal of Sociology, Vol 83, No 6 (May 1978) 3 237 VerticalCollectivism PeerRvw Peer reviewed theory Related to Hofstede's Power Distance, refers to a society that expects a low degree of individual autonomy and a strong respect for existing hierarchies. Triandis, H. C., & Gelfand, M. J. (1998). Converging measurement of horizontal and vertical individualism and collectivism. Journal of Personality and Social Psychology, 74(1), 118 - 128. 221 Cobb. Loren SWAG+ SWAG with some review 2.5 Cobb's experience in building & using social models Various 222 **DEXES** PeerRvw Peer reviewed theory 3 Years of use & criticism of the DEXES model in training situations 2 c Wild Assed Guess ox: ISSM v4.00 Analysts' Guide. with some review 2.5 hington, DC, 1998. 23 sed Guess 1

Structural-Functionalism focuses on the ways social institutions meet social needs. Attempts to explain social cohesion and stability of a society through the concept of solidarity. In more "primitive" societies it was mechanical solidarity, everyone performing similar tasks, that held society together. Durkheim proposed that such societies tend to be segmentary, being composed of equivalent parts that are held together by shared values, common symbols, or systems of exchanges. In modern, complex

35