

Global Vision, Inc.

**Some Important Elements Potentially Contributing to
Global Dynamic Modeling and Forecasting**

Revised 11-02-03

short name:	some current or representative proponent(s):	originator or early proponent(s):
1 Enhanced econometric modeling.	Globus group; Hughes; Luterbacher	Forrester / Meadows; Mesarovic / Pestel.
2 Input-output modeling.	Duchin	Leontief
3 Earth environmental modeling.	Kuhn	
4 Deadly quarrels.	Singer / COW group	Richardson; Wright
5 Choice theory.	Bueno de Mesquita	Morgenstern / Von Neumann
6 Linear differential change.	Kadera	Richardson; Rashevsky
7 Nonlinear dynamics / complex systems.	Mayer; Santa Fe Institute	Poincaré
8 Constrained generating procedures.	Holland	
9 Cellular automata.	Conway	Ulam
10 Homeokinetics.		Iberall
11 Non-equilibrium thermodynamics.		Prigogine
12 EE control theory.	Karasik	
13 Feed forward neural nets.	Farmer; Bueno de Mesquita / Karasik / Williamson	Werbos
14 Cyclical neural nets.	Holland	Hebb; McCulloch / Pitts
15 Social field/spatial theory.	Williamson	Wright; Rummel
16 World order study.	Wilkinson	Wallerstein
17 Waiting times analysis.	Cioffi; Williamson	Tuma / Hannan
18 Evolutionary theory.	Axelrod; Dawkins	Darwin; Wallace
19 Power balance/transition.	Kadera; Kugler; Lemke; Wayman; Houweling - Siccima	Organski
20 Graphs / networks.	Maoz; Barabasi; Bonabeau	Brams; Alger
21 Demography	Cohen	

