A NEW SCIENCE FOR GLOBAL GOVERNANCE

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SCIENTIFIC PARADIGMS



"If economics is a science—and it is not clear as it used to be what that is—it is evidently a science whose powers of prediction and control are limited, largely because the phenomena it seeks to explain are subject to persistent change and often for reasons that may lie outside the traditional boundaries of the discipline.

What we need is not a new orthodoxy on scope and method but a readiness to listen seriously to our colleagues who take opposing views on fundamental principles and to admit to the natural scientists, or the politicians, or the students, who are crying out for economic truth, that the right answers are unlikely to come from any pure economic dogma."

-Phyllis Deane, "The Scope and Method of Economic Science", Economic Journal 93, 1983

ECONOMICS SCIENCE The Fork in the Road in the 20th Century



WHEN THE BEST CAN KILL THE REST



SYSTEMS "ON EDGE"



COMPONENTS OF COMPLEX SELF ADAPTIVE SYSTEMS

	ORGANISATION	RESOURCES	PROCESS	GOALS
	PERMEABLE BOUNDARIES	FLEXIBLE ARCHITECTURE	MINIMUM CRITICAL RULES	ASPIRATIONS ALIGNED
	Open/closed Systems	 Requisite variety Adequate redundancy Latent valency 	Learning and unlearning	
ACHINE GEMENT IGM	 UNITS (VERTICALS/SILOS) PERFORMANCE MANAGEMENT 	STANDARDISATIONFULL UTILISATION	TIGHT CONTROLNO SURPRISES	 WHAT YOU MEASURE YOU MANAGE NUMERICALLY MEASURABLE GOALS

THE M MANA PARAD

LIMITS OF COMPTETIVE EVOLUTION THEORY FOR GLOBAL GOVERNANCE

MULTI-LEVEL SELECTION COUNTRY GOVERNANCE (RULES OF THE GAME)

ENTERPRISES WITHIN NATIONS



WHICH COUNTRY SYSTEM IS BEST? HOW CHOSEN? BY WHOM? WHAT CRIETRIA?

THE MOST POWERFUL IMPOSE RULES ON REST NOT DEMOCRATIC; NOT GOOD FOR GLOBAL RESILIENCE

"INCOMPLETENESS" OF SCIENTIFIC/MATHEMATICAL MODELS



*E.G. HUMANS-RATIONAL; SELFISH; UTLITY MAXIMIZING

"IMPOSSIBILITY" OF MATHEMATICALLY DEFINING COLLECTIVE HUMAN ASPIRATIONS

- SOCIAL CHOICE/ARROW'S IMPOSSIBILITY THEOREM
- WEIGHTAGES TO DIFFERENT VALUES
- ALIGINING UNQUANTIFIABLE QUALITIES
- MANTAINING DIVERSITY FOR RESILIENCE AND SUSTAINABILITY OF SYSTEM

LISTENING TO "PEOPLE **NOT** LIKE US."