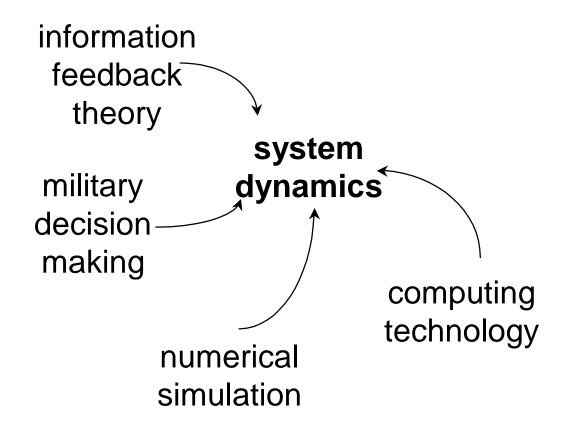
THE EVOLVING DISCIPLINE OF SYSTEM DYNAMICS

International System Dynamics Conference Bergen, Norway August 2000

SYSTEM DYNAMICS - ORIGINAL FOUNDATIONS Visual Modelling and Simulation of Purposive Information Feedback Systems



NEW IDEAS THAT HAVE ENTERED THE FIELD

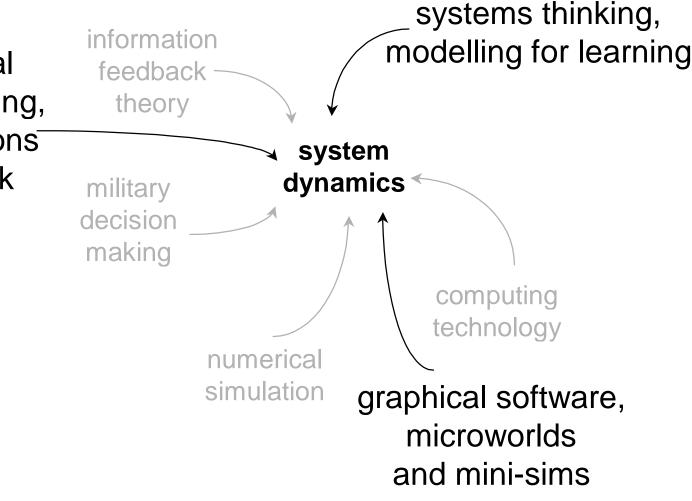
behavioural decisionmaking / bounded rationality misperceptions of feedback in dynamic decisionmaking

feedback systems thinking and the disciplines of the learning organisation modelling for learning

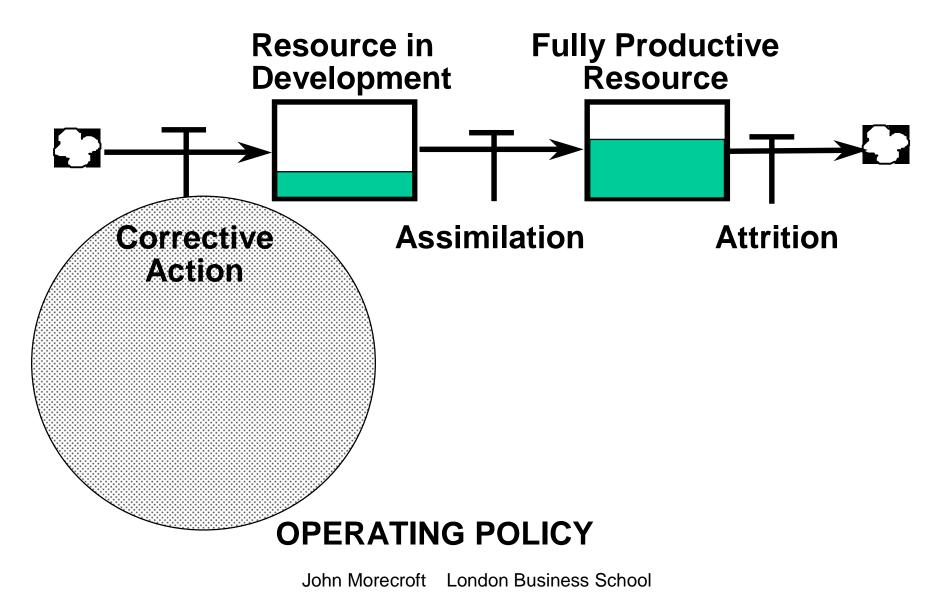
graphical modelling software for visualisation microworlds, management flight simulators and mini-sims

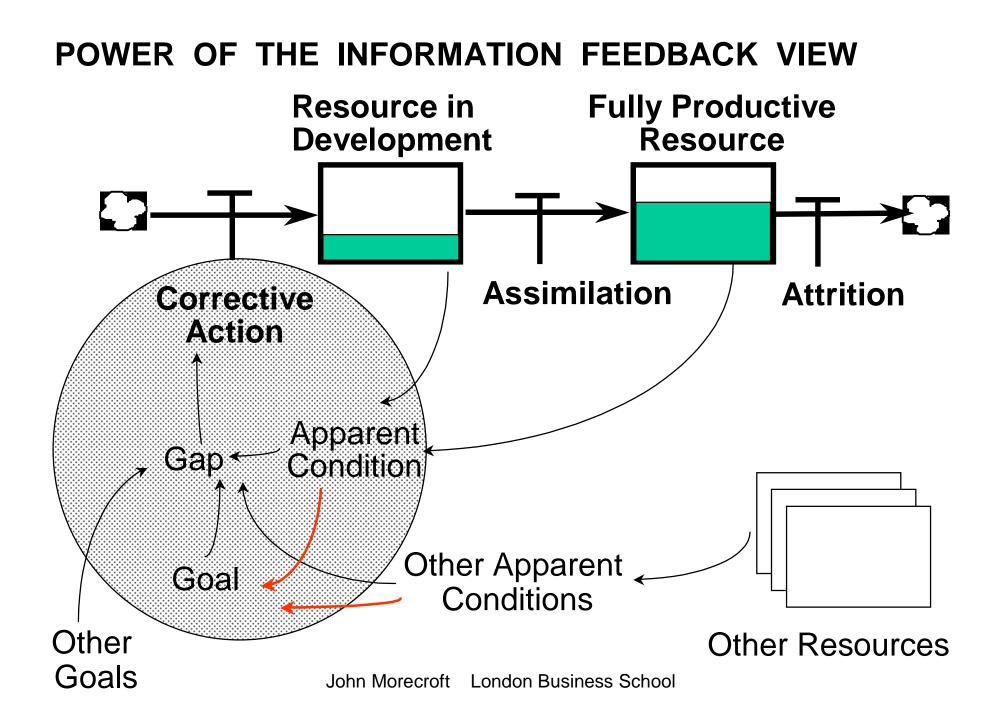
SYSTEM DYNAMICS TODAY

behavioural decisionmaking, misperceptions of feedback

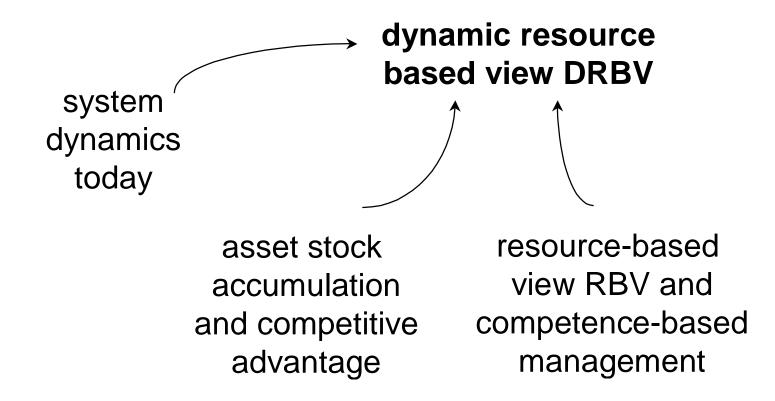


POWER OF INFORMATION FEEDBACK VIEW Portraying Purposive Behaviour in Organisations

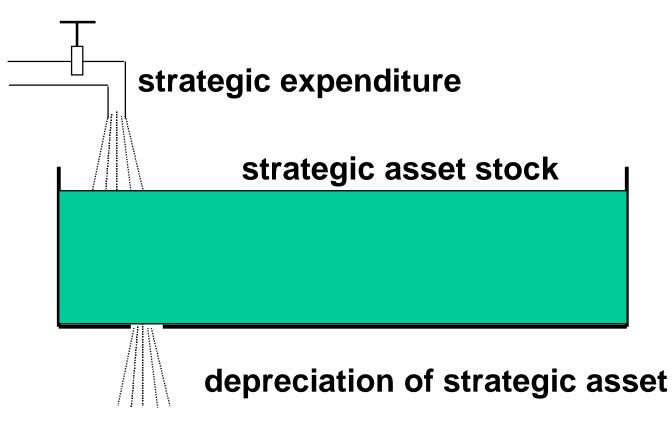




FOUNDATIONS OF A "DYNAMIC RESOURCE-BASED VIEW" OF STRATEGY

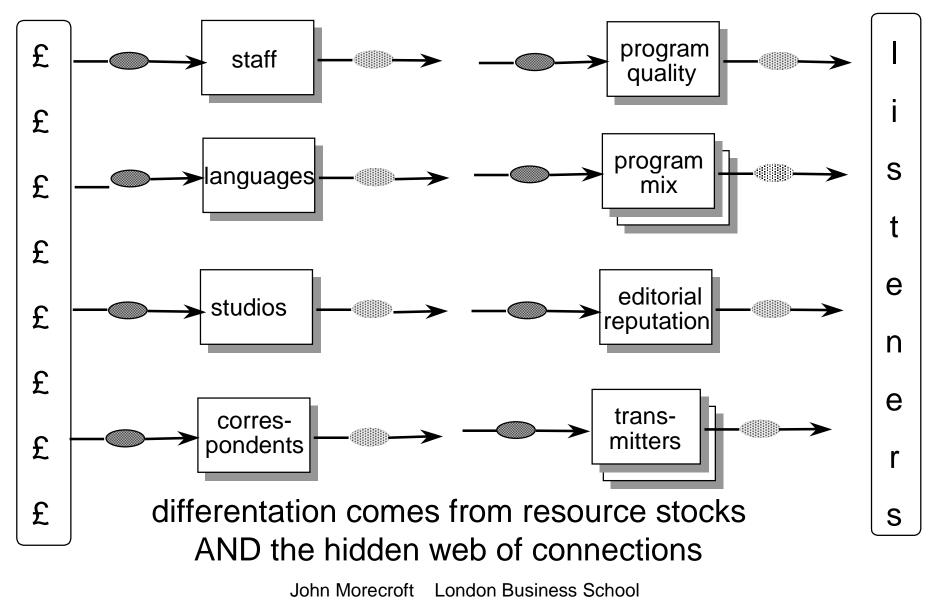


ASSET STOCK ACCUMULATION AND COMPETITIVE ADVANTAGE



"It takes a consistent pattern of resource flows to accumulate a desired change in strategic asset stocks" Dierickx and Cool, 1989

RESOURCE MENU OF RADIO BROADCASTER Tangible and Intangible Resources



HOW SYSTEM DYNAMICS HELPS STRATEGY

a visual language for resource mapping showing complementarity

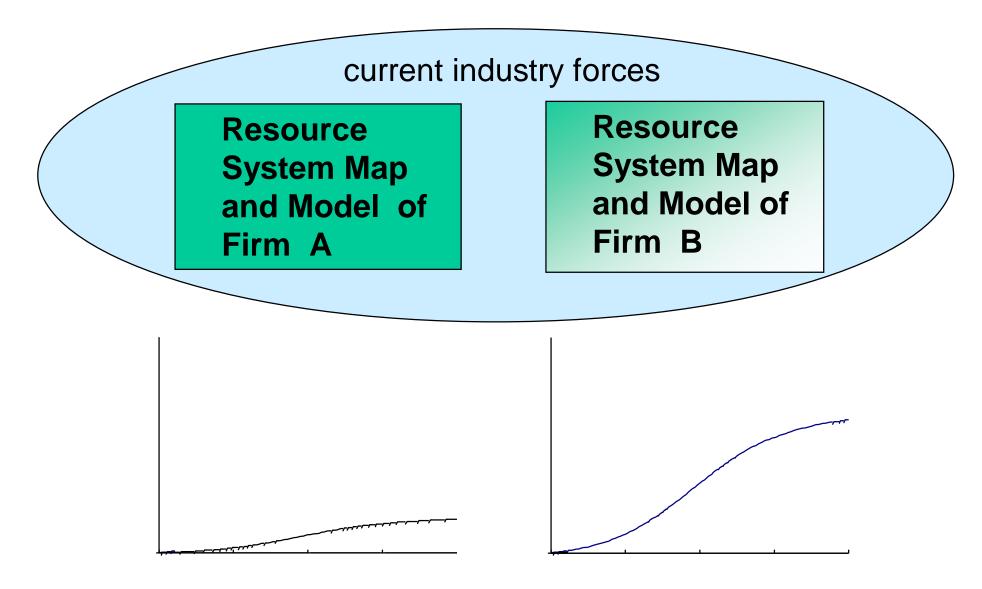
rules for specifying interconnections drawing on principles of information feedback systems and bounded rationality

focus on "structure" (of the resource system) and "behaviour over time" (resource evolution and the dynamics of competitive advantage)

the rigour of algebraic modelling and simulation

mini-sims and microworlds to communicate insight into business dynamics

DYNAMICS OF COMPETITIVE ADVANTAGE



MANAGING METAMORPHOSIS

