

A

Real

Organisational

Unit

Simulated

As

Life

Past, Present and Future

Background

Structure

Opportunities

Users

Background

AROUSAL

Origins

- Putting research findings into practice
- More relevant and effective management training/learning
- Concern for the future of many large organisations

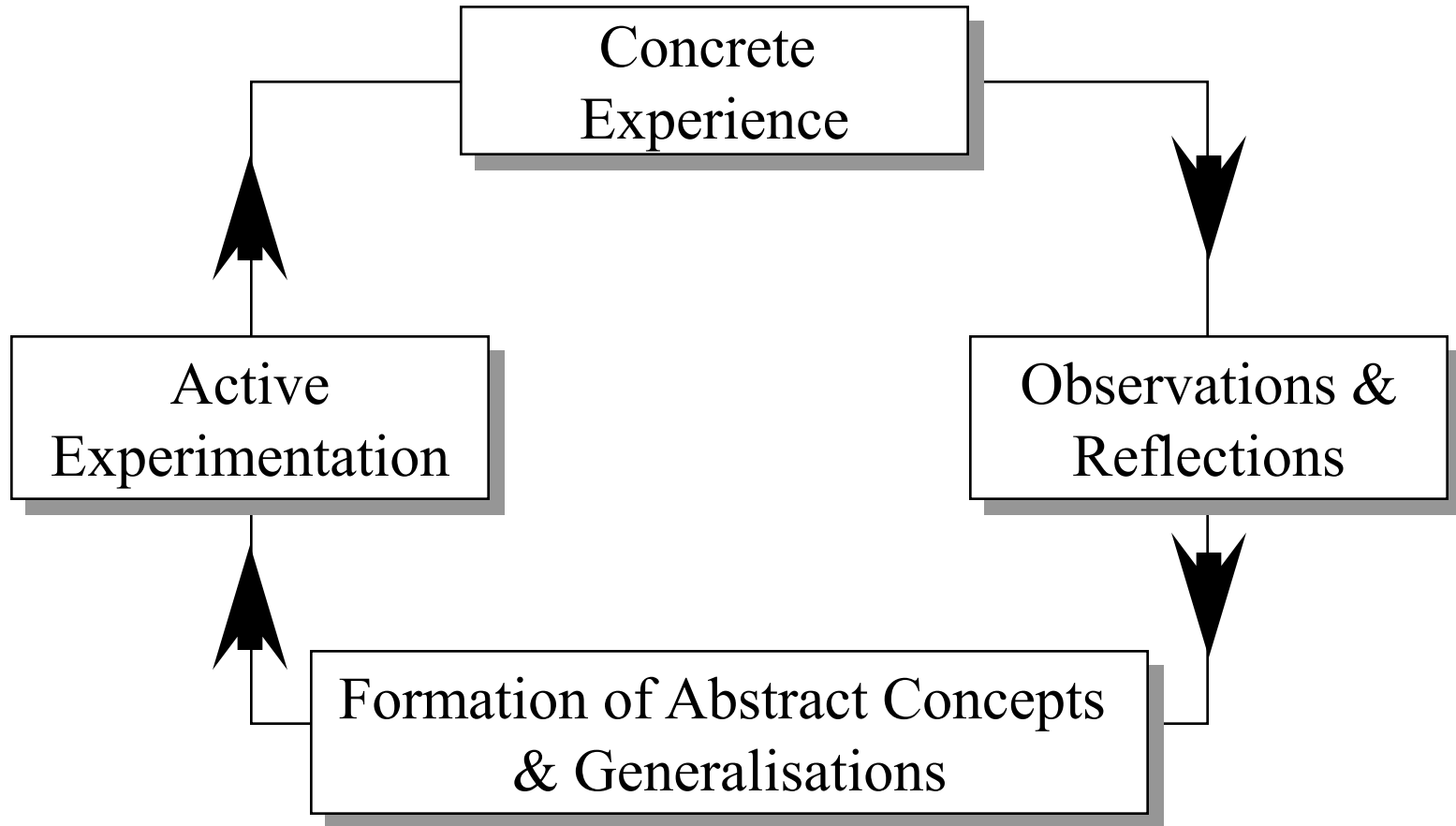
Background : Training Method Effectiveness

Training Objective	Most Effective Method	Case Studies	Business Games
Knowledge Acquisition	Conference Method	Strong	Doubtful
Changing Attitudes	Sensitivity Training	Possible	Strong
Problem-Solving Skills	Case Study	Strong	Possible
Interpersonal Skills	Role Playing	Possible	Strong
Participant Acceptance	Case Study	Strong	Strong
Knowledge Retention	Programmed Instruction	Possible	Doubtful

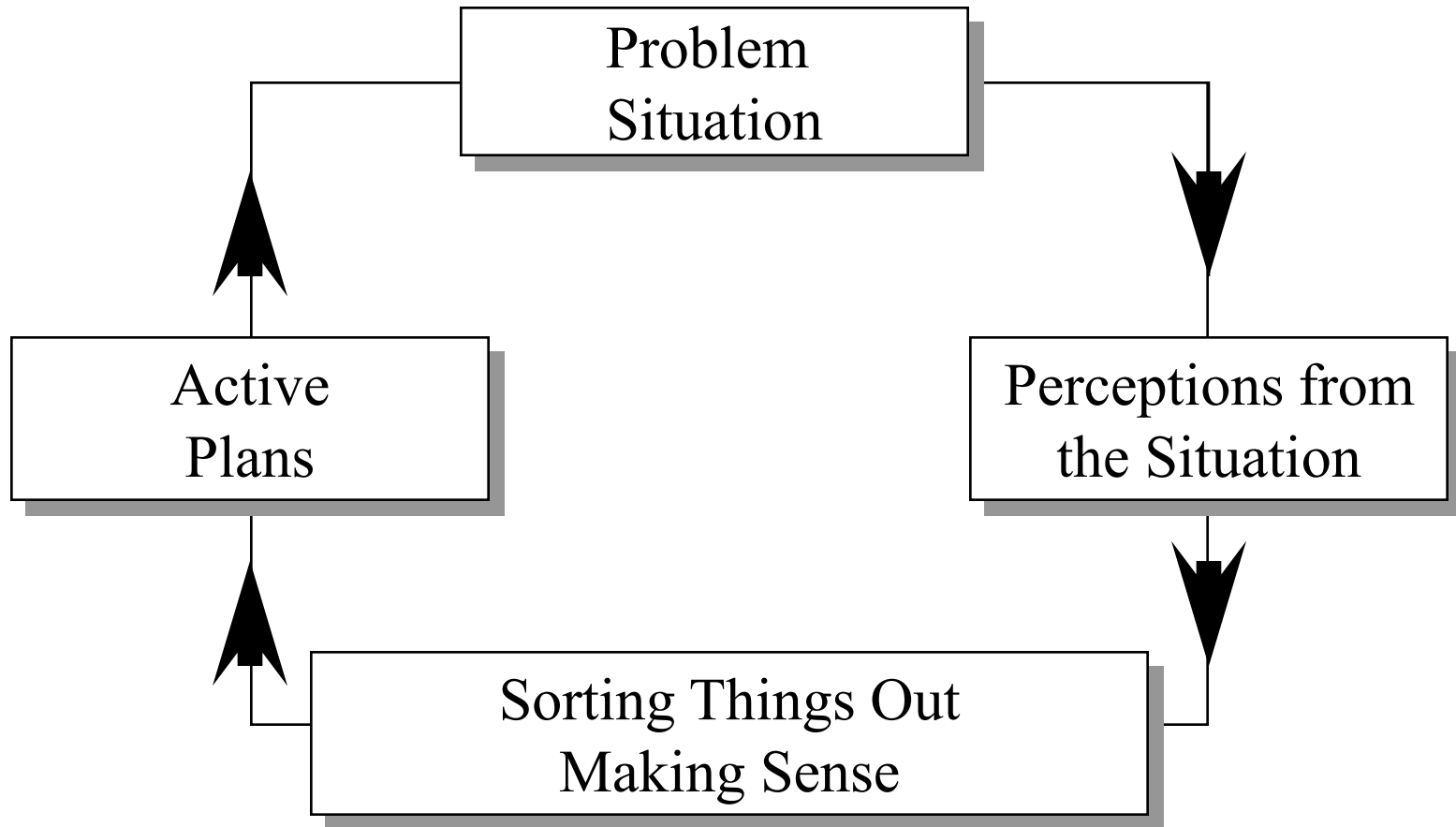
Background : Training Method Effectiveness

Principle	Case Studies	Business Games
Active Participation	High	High
Feedback	Possible	Possible
Reinforcement	Possible	Possible
Organisation of Material	High	Questionable
Practice	Possible	High
Ease of Transfer	Possible	Probable

Background : The Learning Cycle



Background : Problem-Solving Process



Background : Preferences of Managers on Courses

Managers Like

- * Involvement and participation
- * Linked to realism
- * Active learning rather than passive learning
- * Diagnosing business problems and proposing solutions

Managers Dislike

- * Games and gimmicks
- * Lectures
- * Theory

Background : Reactions of Managers

Case Studies	Business Games
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* Realistic, sophisticated,
multi level

Static

* Emphasis on analysis

Restricted evaluation

Too distant, lack of “Feel”
or ownership

Unrealistic, naïve,
single level

* Dynamic

Over emphasis on feedback

* Extensive evaluation

Ownership of decisions
rather than of problems

The Path to AROUSAL

Theory of
Learning

Managers
Likes and
Dislikes

Experts on
Training Methods
and
Learning Principles

Case Studies and Business Games

Simulators



Structure

Designing A Simulation

Ownership

realistic context and presentation of context

realistic problems multi-level, multi-function
embedded in context

Dynamic Environment

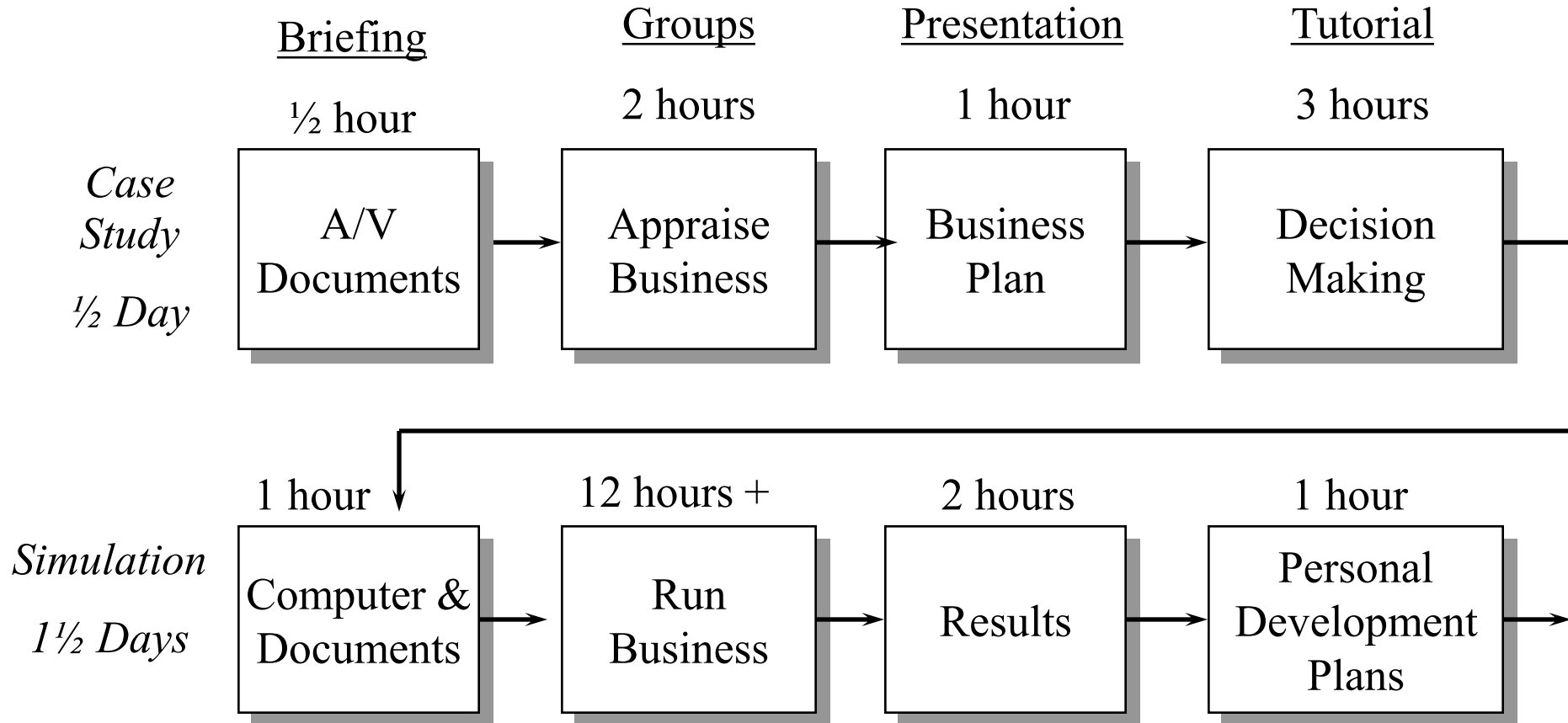
decision areas interact with each other and
with environment

analysis and feedback balanced, outcomes can
be compared within and outside “reality” of simulation

Tailoring

designing learning experience and associated
simulations to meet a wide range of needs

AROUSAL - Course Structure



Phase

1. FAMILIARISATION

“concrete experience”

meeting the problems of a business unit visit, films, written material

2. DISCUSSION

“observations and reflections”

group work along traditional case study lines

3. PRESENTATION

“abstract concepts,
generalisations”

reporting of findings and recommendations

4. OPERATIONALISATION

“active experimentation”

application of recommendations to the running of the business unit; via a simulation model

5. RUNNING THE BUSINESS

“full cycle”

simulating the business unit for, say, two years, with expert counselling as required.

6. SWAPPING OF EXPERIENCES

“observations and reflections”

final “round up” of simulation analyses of decision making and managerial behaviour

Leadership

Forecasting

Organisation

Finance

Management of
Change

Personnel
Management

Strategic
Planning

Estimating

AROUSAL
Areas for learning

Job
Design

Marketing

Decision
Making

Appraisal

Manpower
Planning

Production

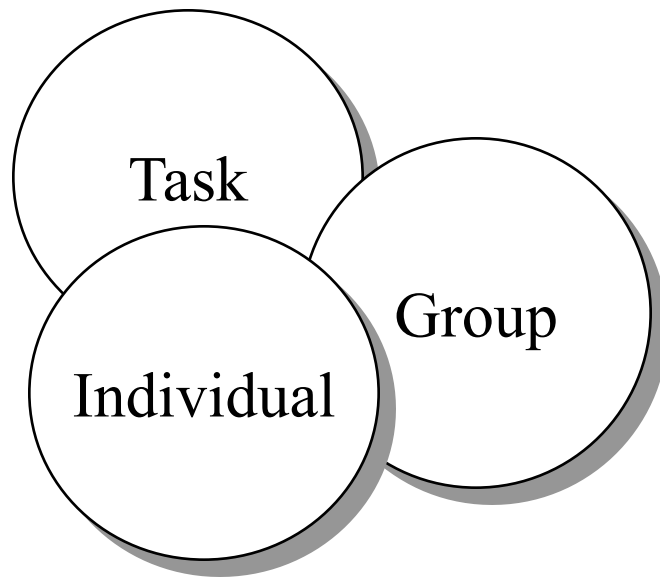
Recruitment

Production

Presentations

Communication

AROUSAL



PROCESS

Interpersonal skills

Decision Making

Running Meetings

Presentations

Leadership

Team Building

Personal Awareness

Communications

Influencing

Negotiating

Assertiveness

Personal Development

Problem Solving

Opportunities

AROUSAL

USES

Management Development Courses

Induction Courses

Counselling

Coaching

Assessment

Team Building

Leadership

Managing Change

Corporate Appraisal

Typical Objectives

for construction organisations

- as a vehicle for management development
- developing a basic understanding of the ingredients of a business
- developing team work and interpersonal skills
- demonstrating particular approaches, philosophies
- providing context to other training activities

Typical Objectives

for Non-Construction Organisations

- **Rapid familiarisation with the construction / contracting business**
 - * as a whole
 - * ingredients of:-
 - organisation
 - finance
 - personnel
 - contracting
 - technology/management interface
 - * language
- **Understanding the types of decision made by contractors**
 - * why, how and their consequences
- **Exploring**
 - * new approaches/practices/philosophies
 - * new ideas
 - * new perspectives

AROUSAL Meets Changing Needs

Issue	1982	1990	1996
Economic Situation	Recession after depression	Recession after boom	Recovery
<i>Training</i>	<i>Neglected</i>	<i>Accepted</i>	<i>Neglected</i>
Knowledge of Business Functions, Organisation, Strategy	Poor	Better	Poor
<i>Managerial Skills</i>	<i>Very Weak</i>	<i>Stronger</i>	<i>Weak</i>
Knowledge of Employer, Acceptance of Culture	Good	Poor	Poor

Some AROUSAL Models

Masters Building Company, Plymouth, UK

John Laing Construction, UK

Renzo Construction Company, Boston, USA

Pipers (h&v) Ltd, UK

Barset Engineering, Lincoln, UK

K.R. Construction, Istanbul, Turkey

Renzo in Russia

Red Stripe Contractors, WI

Users

Some Very Early Supporters

- CITB
- EITB
- John Laing
- Alfred McAlpine
- Tarmac
- Wiltshier
- Bovis
- MEPC
- Regional Health Authorities
- County & District Councils
- Construction Executive
Program at Stanford University
- Arthur Andersen
(UK, USA, Europe)
- Beacon Construction (USA)
- Associated General Contractors
(USA)
- Jardine Pacific (Hong Kong)
- STFA (Turkey)
- Pernas Construction (Malaysia)
- Public Works Department
(Brunei)
- LTA (South Africa)
- CITB (South Africa)
- INDEVO (Sweden)

The Appeal of AROUSAL

- Building
- Civil Engineering
- Building Services Engineering
- Mechanical and Electrical Engineering
- Property Development
- Banking
- Accounting
- Management Consulting
- Agriculture
- Commodity Trading
- Public Sector Management
- Health Service Management
- Shipping
- Higher Education
- Retailing

Europe and Eastern Europe

North America

Asia

Australasia

Africa

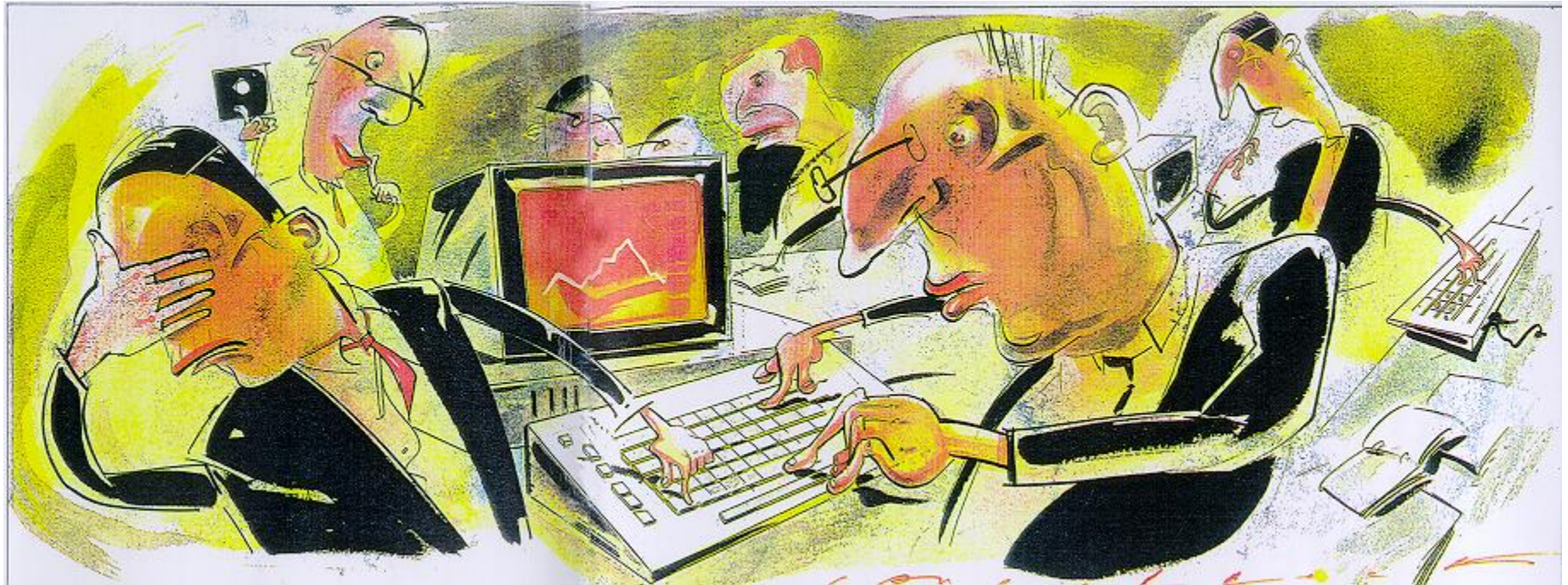
Beliefs

- Management effectiveness is best measured by quantifiable results
- An effective manager is able to forecast the outcomes of his actions and so take specific actions to keep control.
- The effective manager has to integrate a wide range of skills and operate across the full range of problem levels

Managers learn best by doing

“The greatest learning takes place when managers are able to handle new ideas against the backcloth of a familiar business setting”

AROUSAL



AROUSAL

&

The companies it works with

A Shared Mission?

- “Helping Managers and Professionals to Realise their Full Potential”
- “Helping Companies Change so as to become More Productive”

**What would you do if you
had a simulator of your
organisation (or
something close to your
organisation)?**

Develop Managers?

**Change Attitudes &
Behaviours?**

**Improve Knowledge &
Skills?**

Design of effective approaches

- **Learning not Products**
 - processes come before lessons
- **World of the Learner**
 - more important than world they should inhabit
- **Context and Content**
 - precede overt lessons
- **Sound Evidence Base**
 - not untested notions
- **Speculation**
 - not Specification

The objectives of the simulator

- Give a dramatically new learning experience
- Support the training of senior and middle managers
- Provide integration with conventional approaches
- Give an evaluation of how the trainee has coped with the various situations

The features of the simulation

- Operationally realistic scenarios
- Dynamic scenarios
- Interactivity with people and situations presented by them
- Editing of situations by the trainer

The learning experience

- Non threatening, but involving
- Realistic scenarios
- Group rather than individual
- Real time pressures
- Single situation or longitudinal experience

Potential benefits

- Holistic perspective of business
- Decentralisation of use, in-company learning
- Rapid introduction for those needing urgent industry orientation
- Links to other tools/software

What Else?