The Brief

Management Techniques for the Agribusiness.

"One specialist in futures market and one on Anti-trust Laws will be the other members . . . Although your are free to choose how you will address the subject, I think you should consider evaluating how the different operational research techniques are used to enhance agribusiness management."

- ·Management & Operational Research?
- ·Relationship between OR and Management?
- ·Management Techniques what are they?
- ·OR Techniques do they have a future?

Farm Management and Agri-business Management are, perhaps, "borrowers" when it comes to the use of OR techniques; possibly not a fair comment. Let us leave it till we come to the discussion part of the session.

"Management (from old French, 'the art of conducting, directing', from Latin 'to lead by the hand') ...

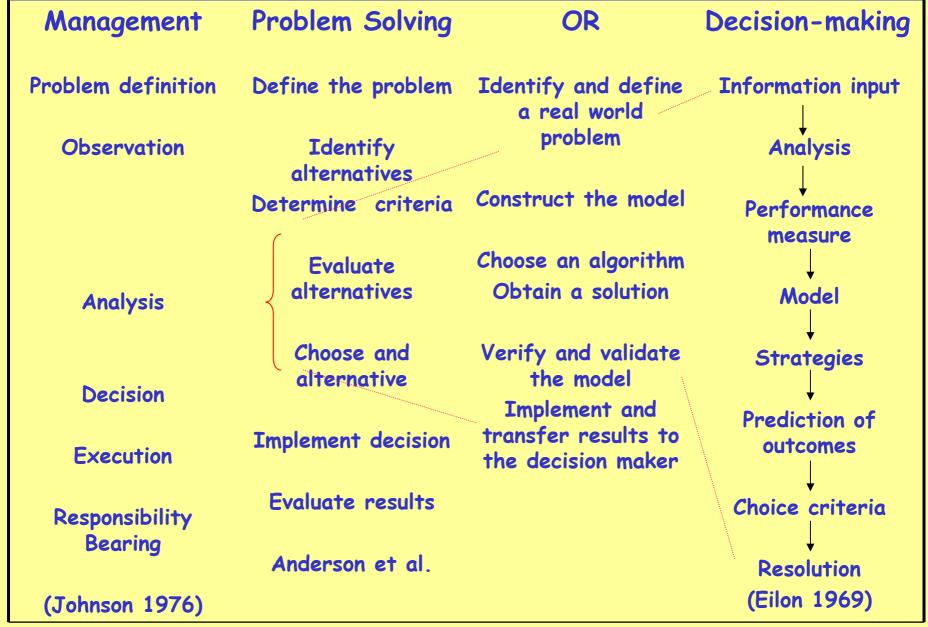
[is] the process of leading and directing all or part of an organisation, often a business, through the deployment and manipulation of resources (human, financial, material, intellectual or intangible).

"functionally [it is] the action of measuring a quantity on a regular basis and of adjusting some initial plan ... to reach one's intended goal"

"Operations research, operational research, or simply OR, is the use of mathematical models, statistics and algorithms to aid in decision-making.

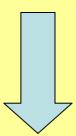
It is most often <u>used to analyse</u> <u>complex real-world systems</u>, typically with <u>the goal of improving</u> <u>or optimising performance</u>"

In short, OR supplies information and insights, gained through analysis, to decision-makers to improve their decision-making

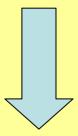




Data & Information

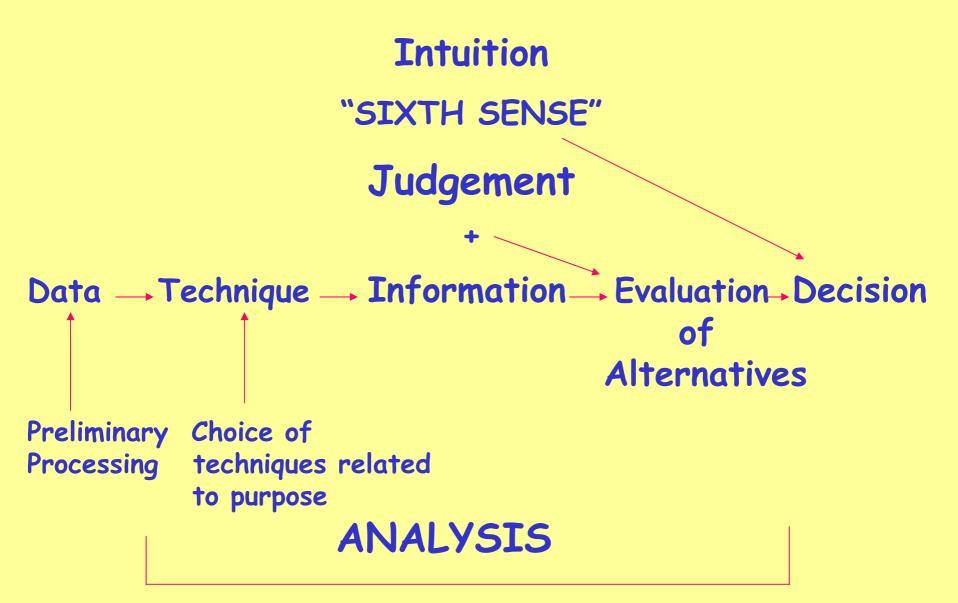


Technique (s) of Analysis



Preferred Solution (a proposed course of action)







Core Concern for Management is Decision-making and for OR it is Analysis in order to improve Decision-making

"Future" for the use of OR techniques in management: "Future is past"

It seems to be a case of "reddiscovering" some thorough bred horses from a rather large stable

But quite possibly the "tracks" in which those "horses" are to run are new and may even need to be developed anew

Propose to raise 5 questions, which will hopefully lead to some thought and discussion on the future use of OR techniques

"How well is my business doing (performing), when compared to my peers?"

(Performance/Benchmarking)
In relation to some expectation

DEA Data Envelopment Analysis WHAT is it and WHY use it?

"How 'green' is my business?" DEA again! WHY?

"I have many things that I wish to achieve for my business, for my self. How do I work out what I give up and what are the 'trade offs' please?

The MCDM framework!

Whatever is that, sounds rather unfamiliar?



"What I hold dear (what is important to me) and makes me what I am and shapes my business, please will someone sort me out?"

"Before you give me advice, do you know me?"



Market is changing: consumers are concerned with foodsafety, health care and some say they are becoming obsessed with obesity, is there anything there for agri-businesses to move into?

"Designer Diets"

Oh no! You are not talking about that enduring workhorse, Linear Programming? You cannot be serious that what we have learned in livestock diet formulation can help us move in this market? Oh yes, it can!

