

DEFINE THE PROBLEM





MAIN TRAPS

Solution not problem

Issue too broad and general



SOLUTIONS NOT PROBLEMS



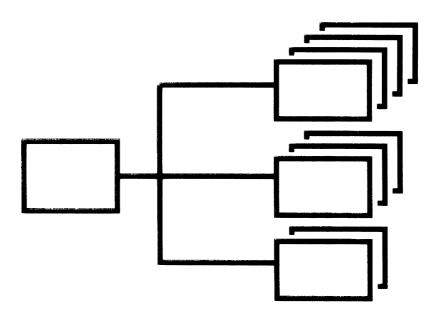


TOO BROAD AND GENERAL

"Communications"

"Attitudes"







IF A SOLUTION

Ask:

"What is this the answer to?"

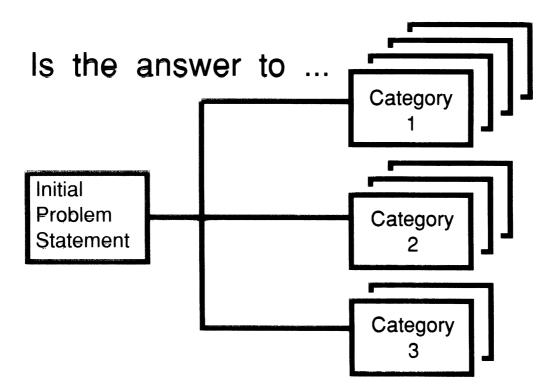


IF TOO BROAD AND GENERAL

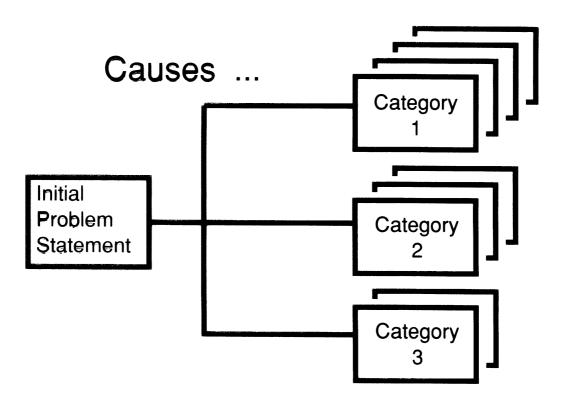
Ask:

"What does this cause?"







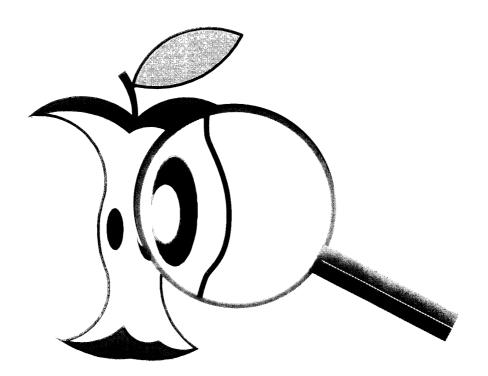




What outcome do I want to see from this problem?



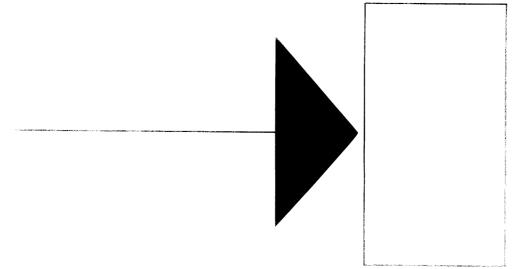
ANALYSE THE PROBLEM





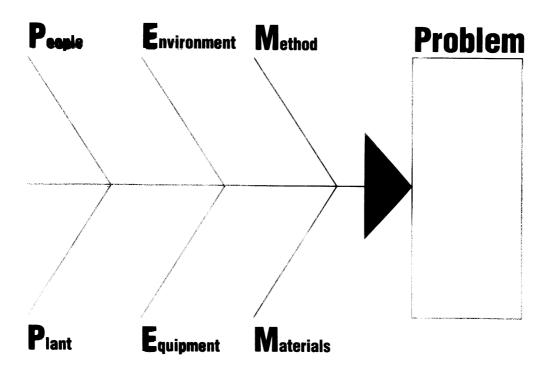
FISHBONE DIAGRAM







FISHBONE DIAGRAM





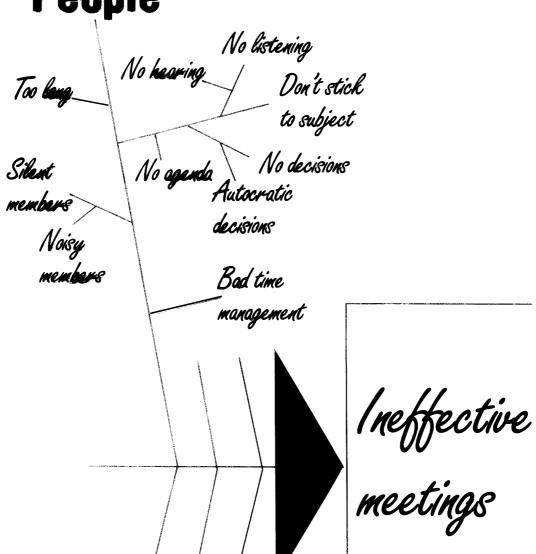
BRAINSTORMING

- No criticism
- Freewheel
- Quantity
- Record all ideas
- Incubate



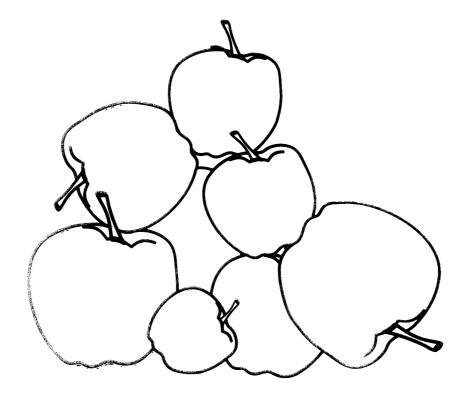
FISHBONE DIAGRAM

People





COLLECT DATA





ANALYSIS OF INCOMING CALLS

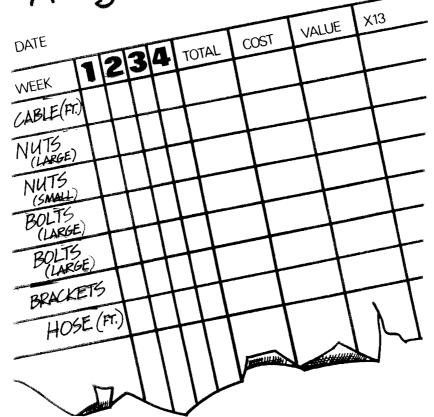
DATE

NAME

TIME	9-11	11-1	1.3	3.5	TOTAL
POTENTIAL CUSTOMERS					
Ser vicing					
CUSTOMERS'					
salesmens Orders					
CALLS FOR MANAGER					
PRIVATE CALLS					
OTHER CALLS					
TOTAL					
- Constant	www	uuun	and a	hu	····



Analysis of usable waste





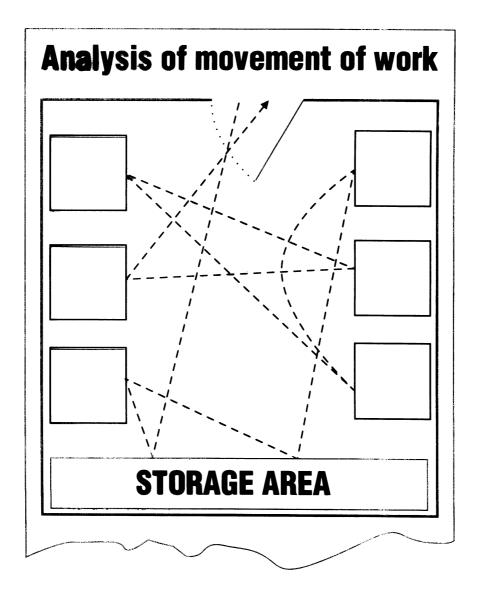
MACHINE BREAKDOWN ANALYSIS

MACHINE:

DATE:

TIME MACHINE DOWN	TIME FITTER ARRIVES	TIME MACHINE ON	TOTAL DOWNTIME	REASON FOR BREAKDOWN
	e de la companya de l			
		AND THE PROPERTY OF THE PROPER	6 1	







INTERPRET DATA

ANALYSIS OF INCOMING CALLS

QATE NAME

TIME	9·11 13	1-3	TOTAL
ČUSTOMERS ERVIÇING	## ###		UHT UHT DA.
USTOMERS ORDERS	<u>"</u> ##	1114 1114 1114 1111	
CALLS FOR MANAGER	भाग		um II
PRIVATE CALLS	HI HIT	HH I	WH WH IIII
CALLS	W.	W W W	#
TOTAL			



PARETO DIAGRAM STEP 1

Problem	No of occas	ions
Bad caps Bad containers Broken bottles Wrong labels Glue problems Jammed bottles Broken conveyor Packer breakdown Operator error Oil leak	58 46 8 5 4 3 3 2 2	Others 15
Total occasions	132	



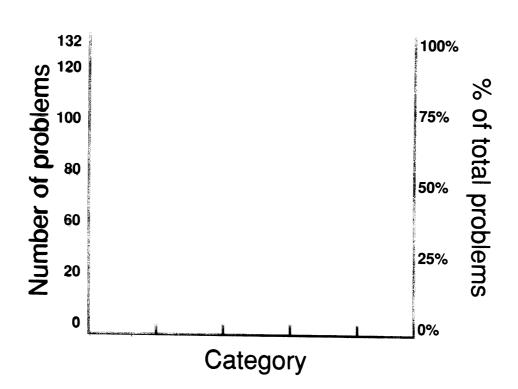
PARETO DIAGRAM STEP 2

Problem	Lost production (value)				
Broken bottles	45,000				
Packer breakdown	37,000				
Broken conveyor	10,000				
Glue problems	5,000				
Bad caps	4,000				
Jammed bottles	2,000				
Bad containers	1,000 Cothers				
Wrong labels	1,000 \[9.000				
Operator error	500				
Oil leak	500				

Total lost production (value) 106,000

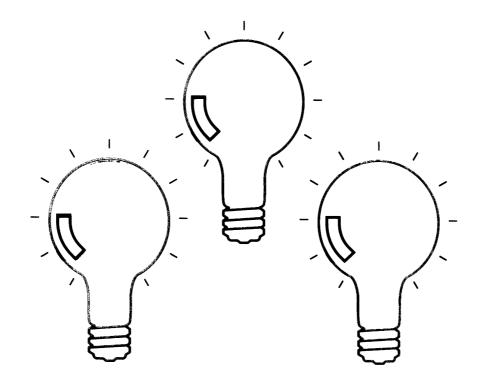


PARETO DIAGRAM STEP 3





POSSIBLE SOLUTIONS





FORCE FIELD ANALYSIS

The Worst	The Current						The Ideal
Situation	Situation					Situation	
	IMP	IMP INF IMP INF					
		US	OTH		US	ОТН	
-						- CITTLE	
Driving			LICENSES SERVICES				Restraining
Forces			ALL PARTY AND A STATE OF THE ST				Forces
Park - 200 MILLIA							· (1).
							—
*Indiana Communication Communi							A services
Flipchart 1		F	lipcl	nart 2	2		Flipchart 3 🗸

Key: IMP = Importance of the forces

INF = How much can the forces be influenced by ...

US = The group

OTH = Others outside the group



FORCE FIELD ANALYSIS

Rating of importance

Definition	Rating
A key influence - vital to shift this force if the problem is to be solved	4
An important influence - will definitely help if we can change this force	3
Useful progress could be made by changing the force, but not likely to be of great importance overall	2
Little influence on the problem	1



FORCE FIELD ANALYSISRating of how easy to change

Definition	Rating
A force that is easily changed	4
A force that would change with effort	3
A difficult force to change entirely, but possible with much effort to change a little	2
A fixed unchanging force	1



COST BENEFIT ANALYSIS







COST BENEFIT ANALYSIS

Are the benefits

- one off?
- ongoing?



COST BENEFIT ANALYSIS

Costs
Annual
benefit

Payback period



PRESENT THE SOLUTION





THE PROBLEM SOLVING PROCESS

- O Define the problem
- Analyse the problem
- **©** Collect data
- 4 Interpret data
- **O Possible solutions**
- **©** Cost benefit analysis
- Present the solution
- **©** Follow up



VISUAL AIDS

- overheads
- flip charts
- slides
- working documents

"A picture is worth a thousand words"



FOLLOW UP

