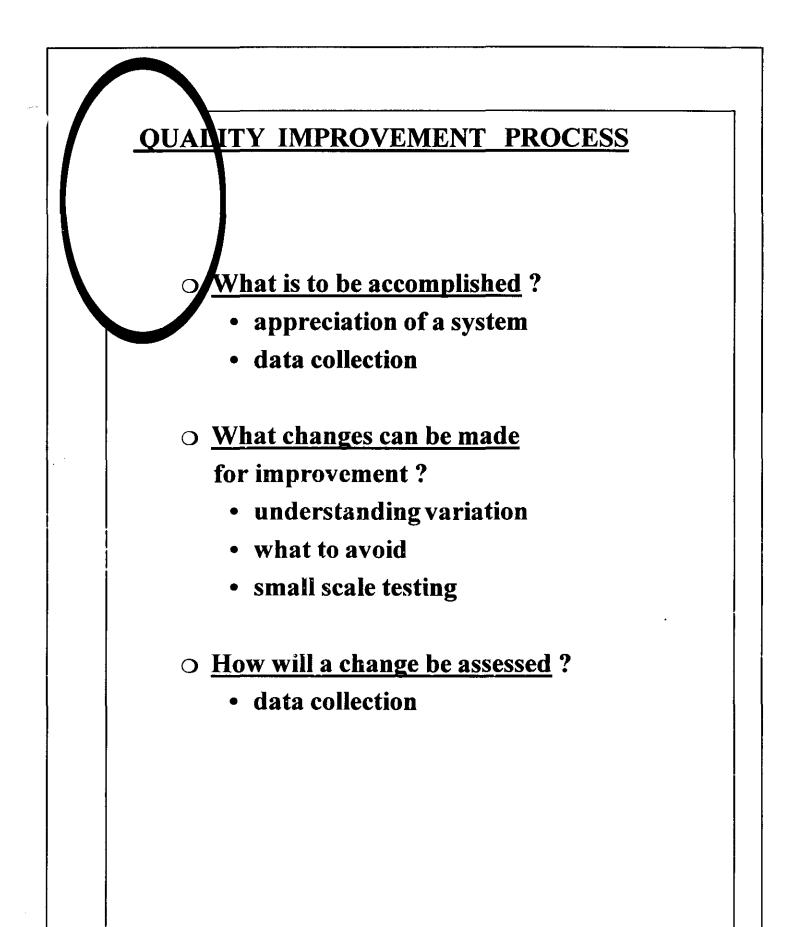


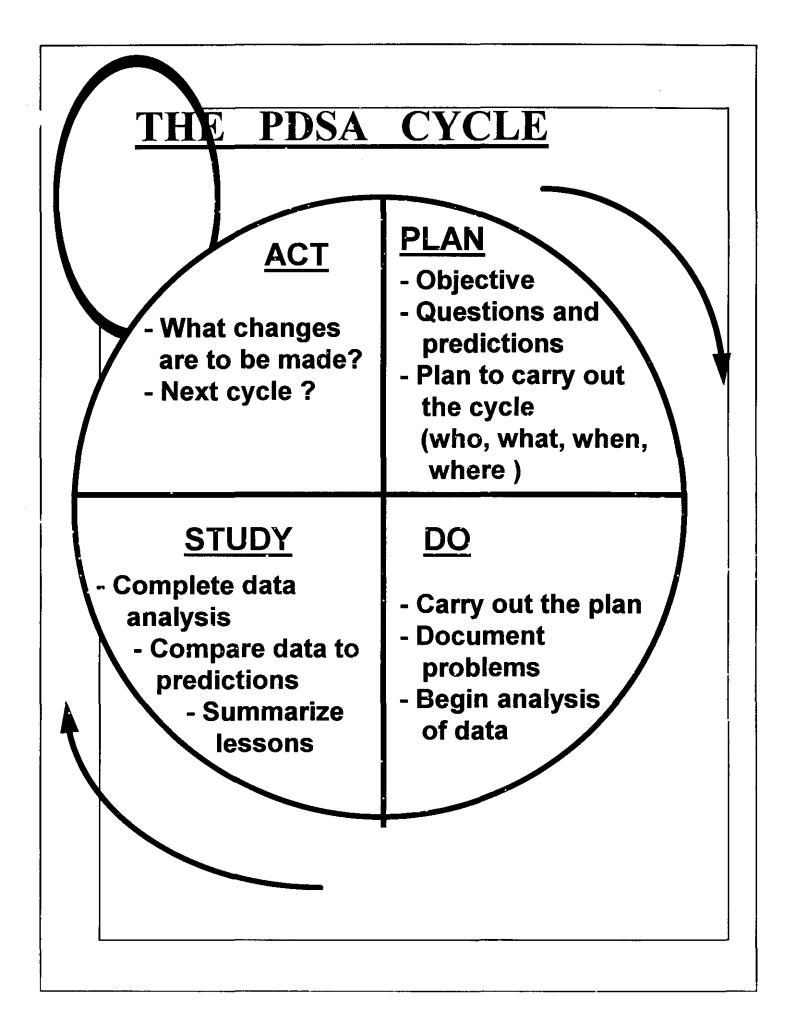
OBJECTIVES of PRESENTATION

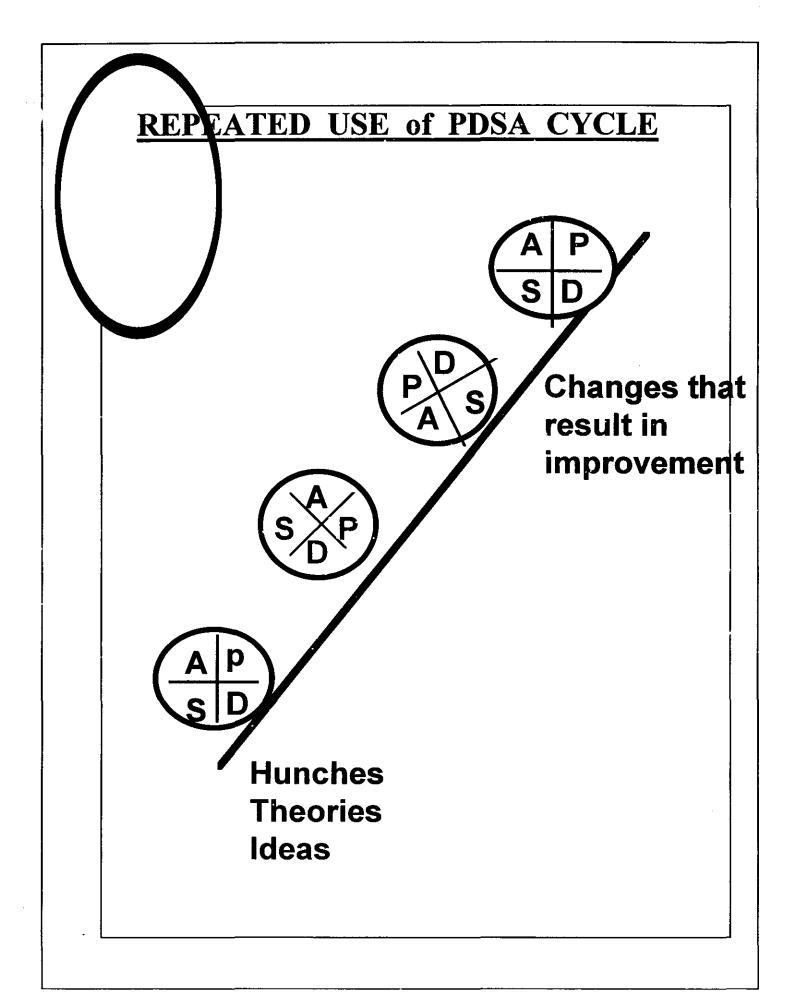
This presentation will discuss

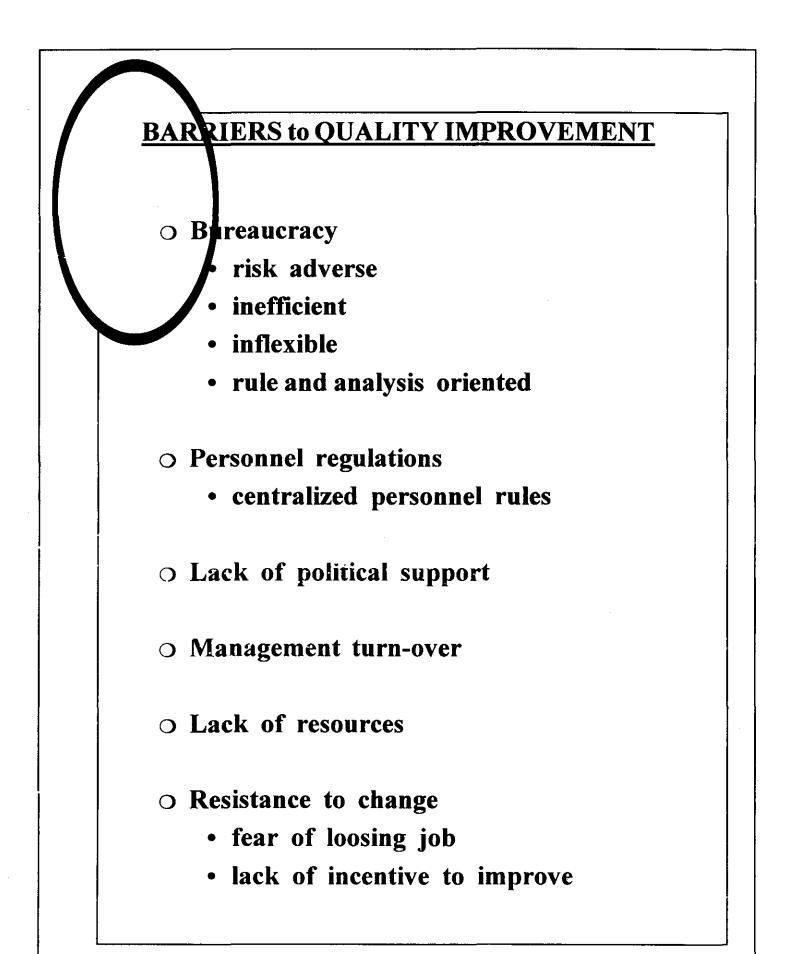
the following topics :

- **o** Foundations of Quality Improvement
 - Quality Improvement process
 - Statistical thinking
 - Variation
- Specific tools and their application :
 - description
 - area of application
 - key considerations for use



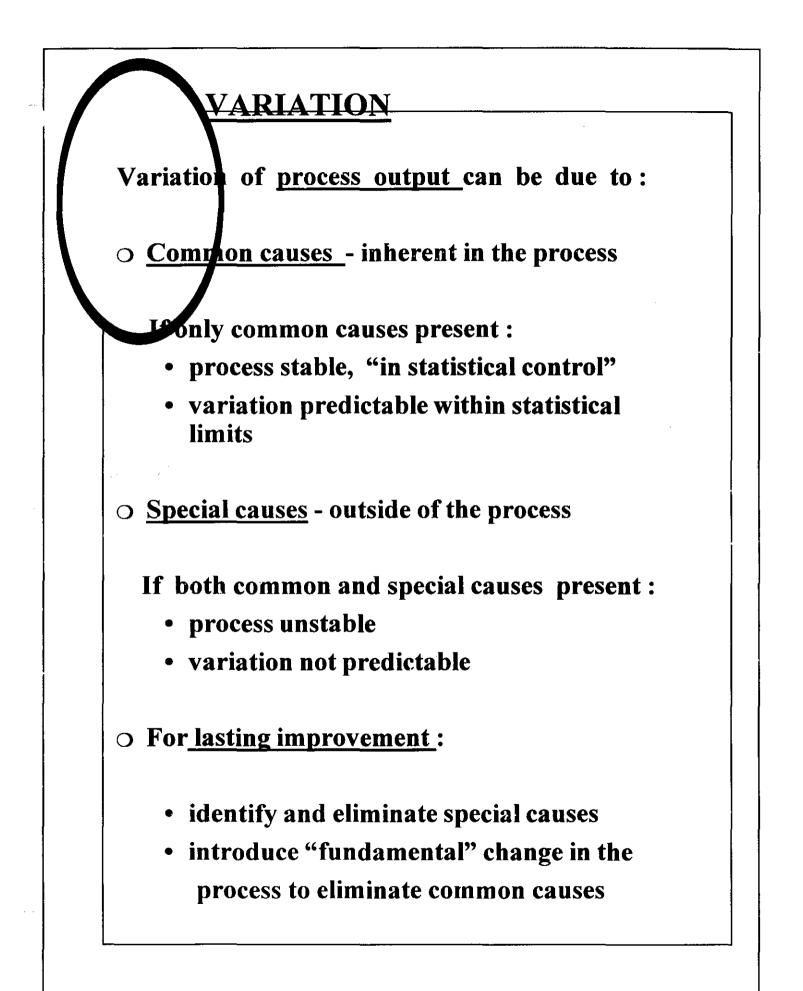


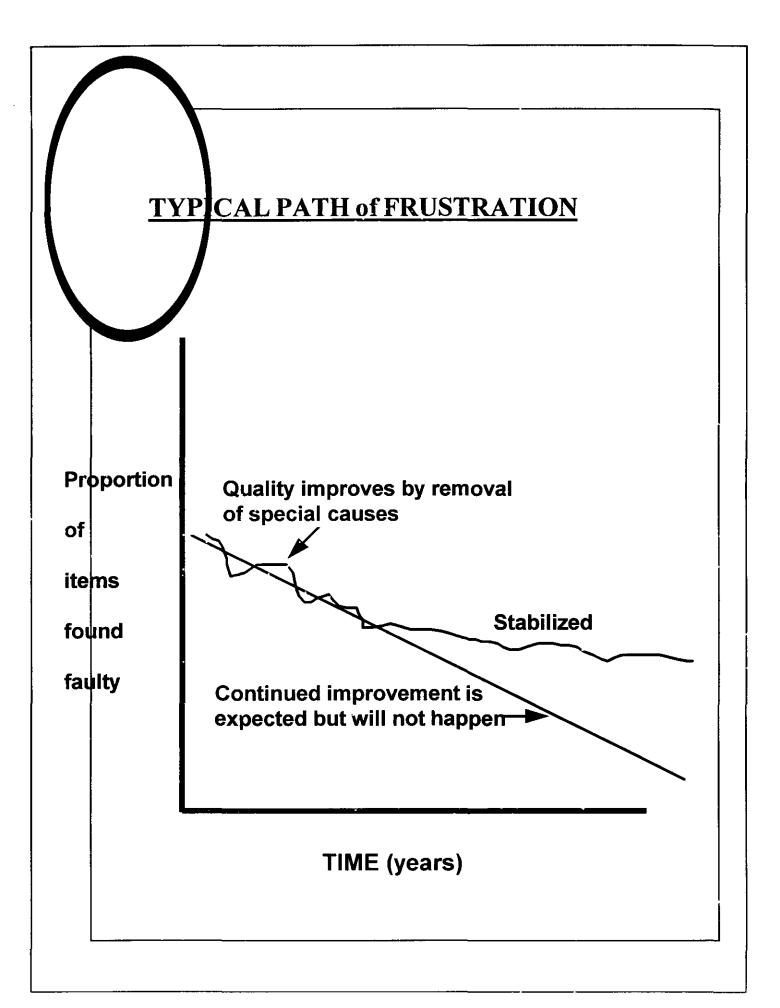


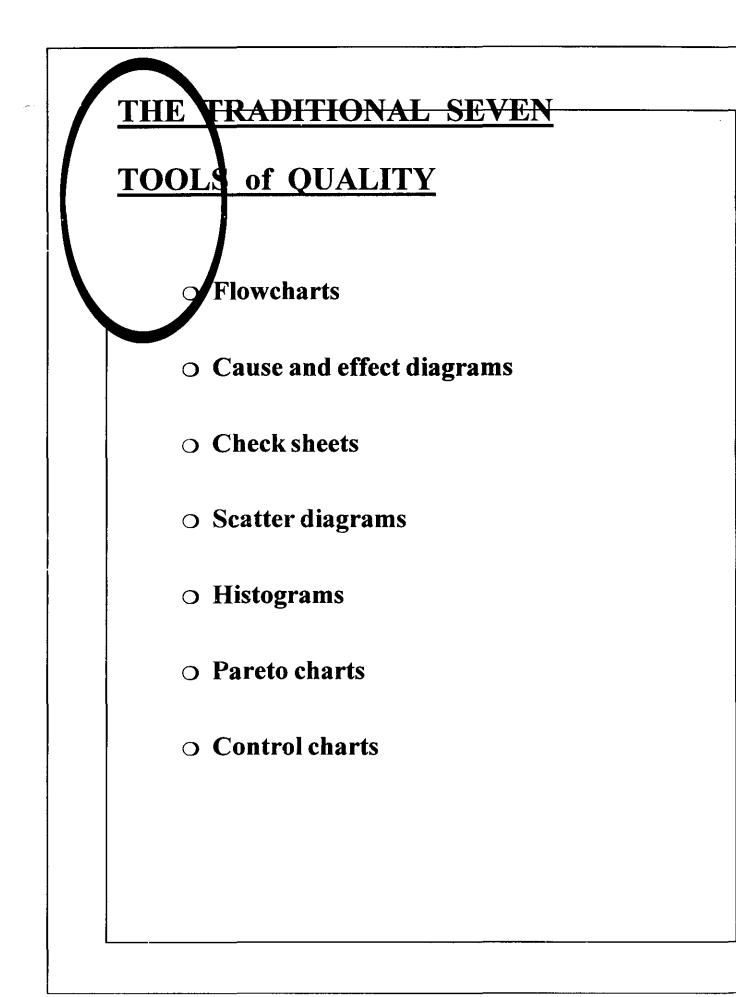


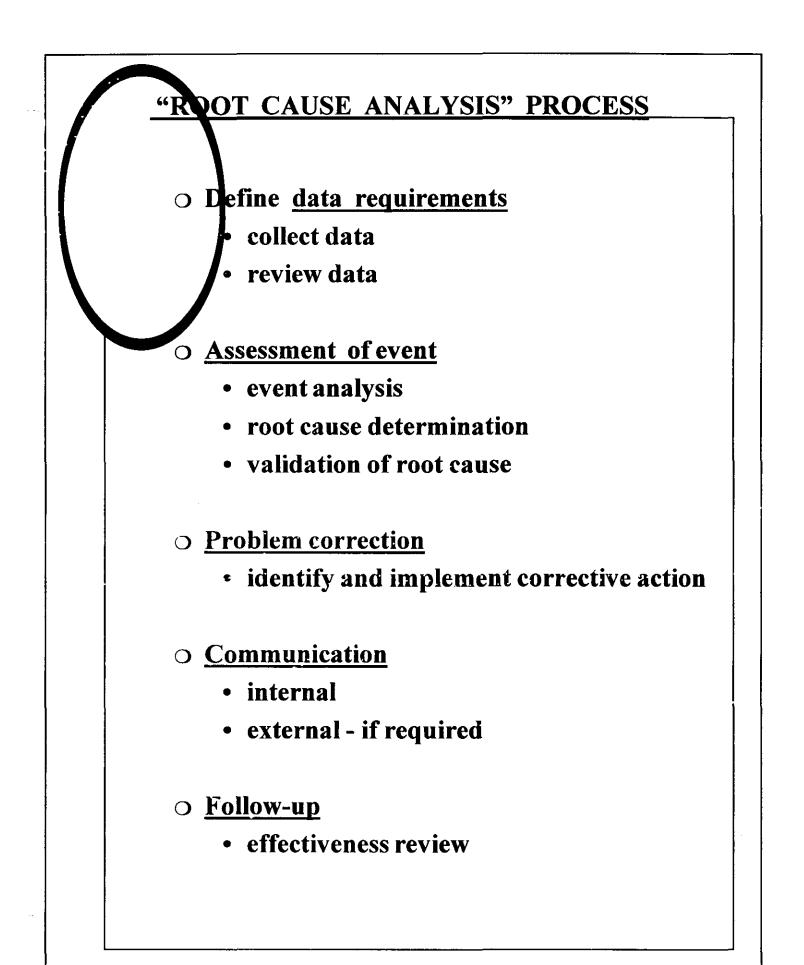
TATISTICAL THINKING

- Process thinking :
 - work is a series of interconnected processes
 - problems are usually in the process
 - focus on fixing problems, not blaming people
- Understanding variation :
 - variation is present in everything
 - variation makes improvement possible
 - reduction of variation is improvement
- Using data to guide actions:
 - data should drive actions and behavior
 - data must be relevant to measures
 - using data is the key





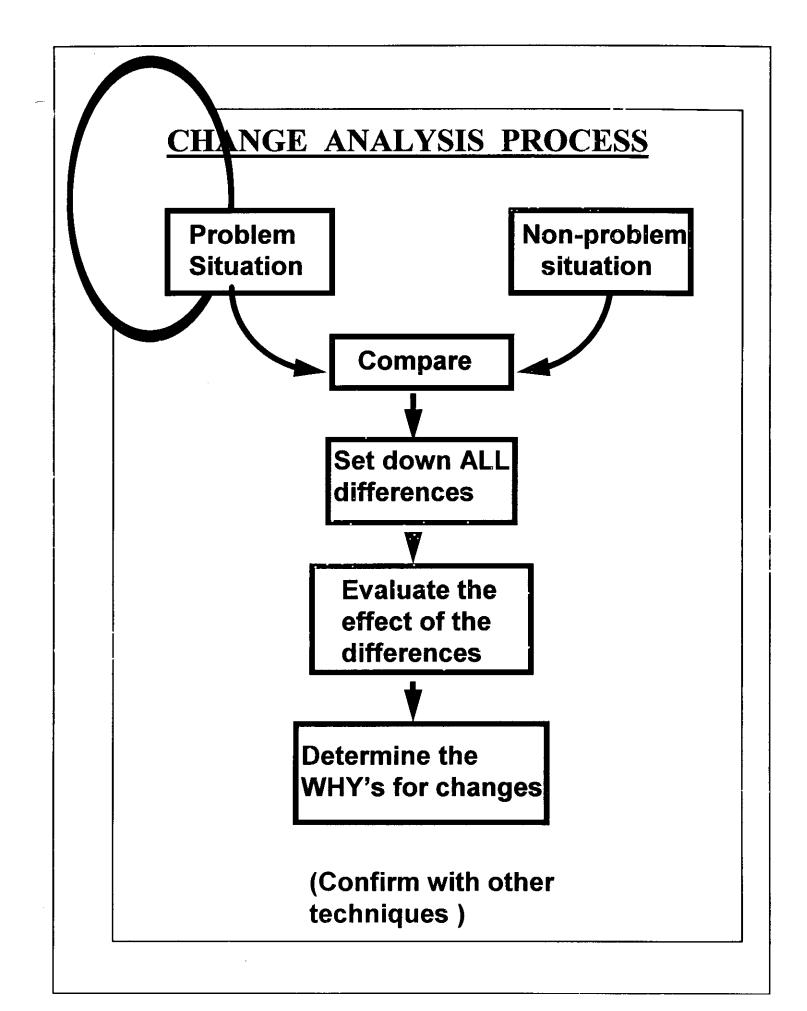






ROOT CAUSE ANALYSIS

- Serious consequences of event
- Sequence of occurrences or multiple failures during the event
- Recurring operational or human performance problems or equipment failures
- Unexpected conditions encountered during the event
- **O** Previous corrective action ineffective



BENCHMARKING

Working definition :

Identification of the best practices in a function or performance area and adapting these practices to improve own performance, so as to eventually challenge the best performer for supremacy

Advantages :

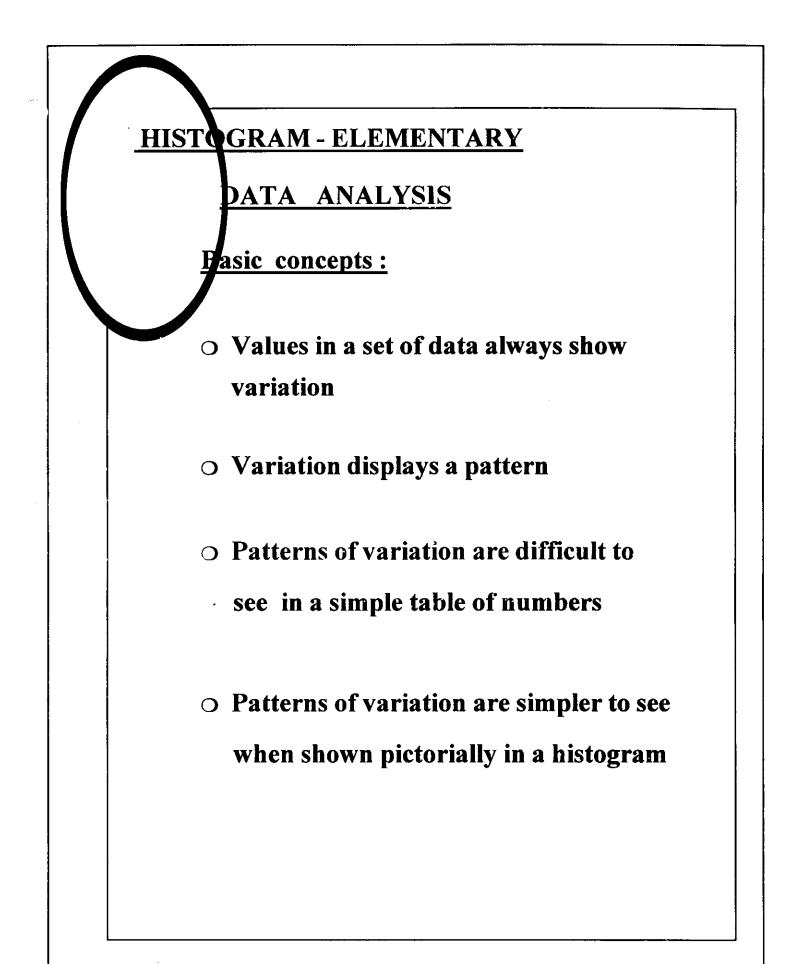
- learn from other companies and plants and avoid their mistakes
- set attainable goals and focus efforts on these, based on demonstrated success of others
- build a network of contacts, information exchange and cooperation

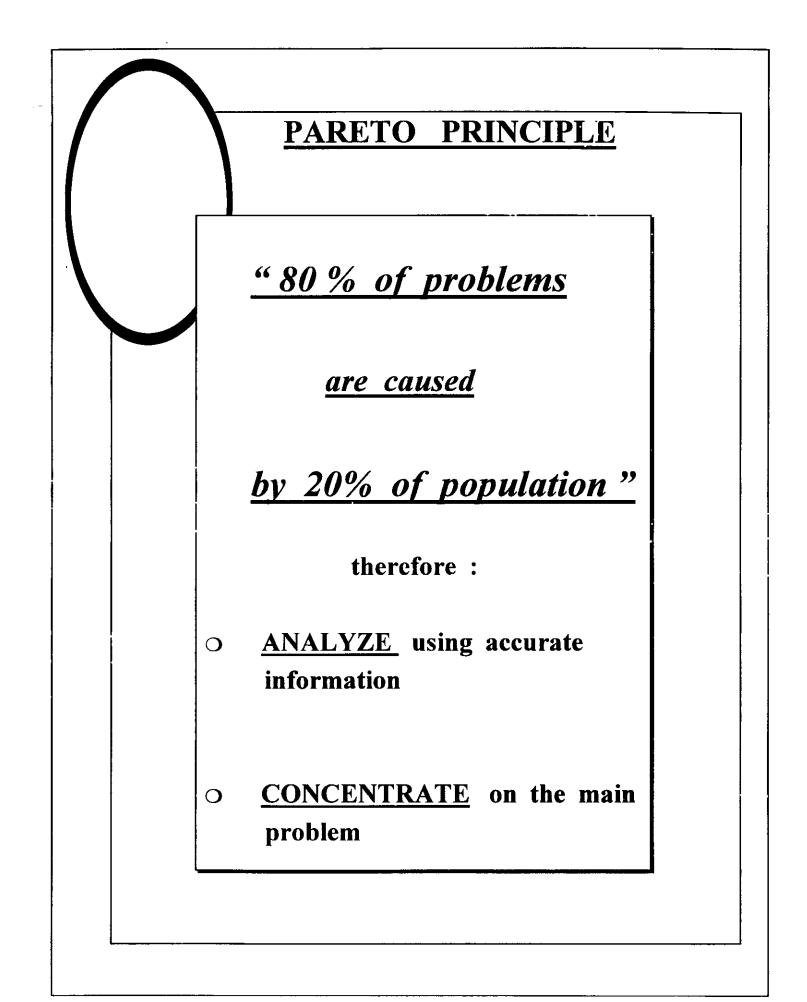


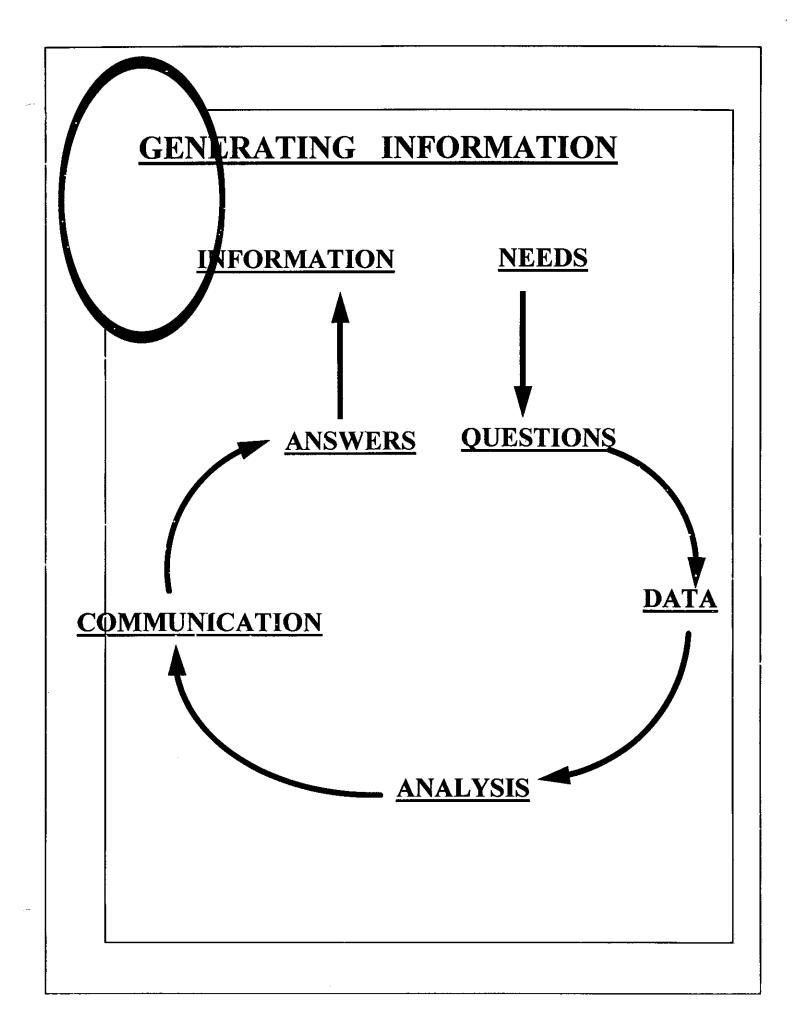
- **o** Identify what is to be benchmarked
- Identify the best performers

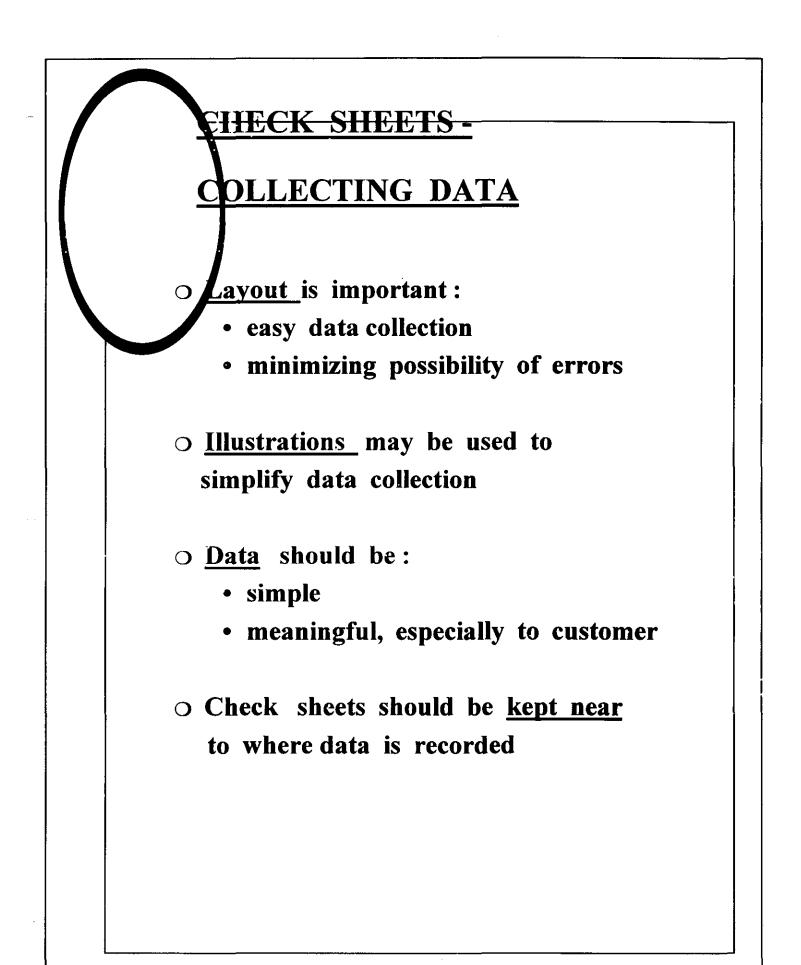
Decide what data is to be collected and collect it

- What is the current "performance gap?"
- Set performance objectives
- Communicate findings and gain acceptance
- **O** Set functional goals
- **O** Develop action plans
- Implement specific actions and monitor results
- <u>O Benchmark again</u>

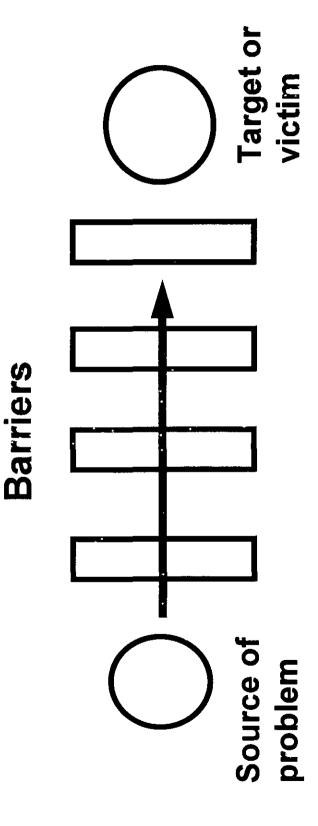






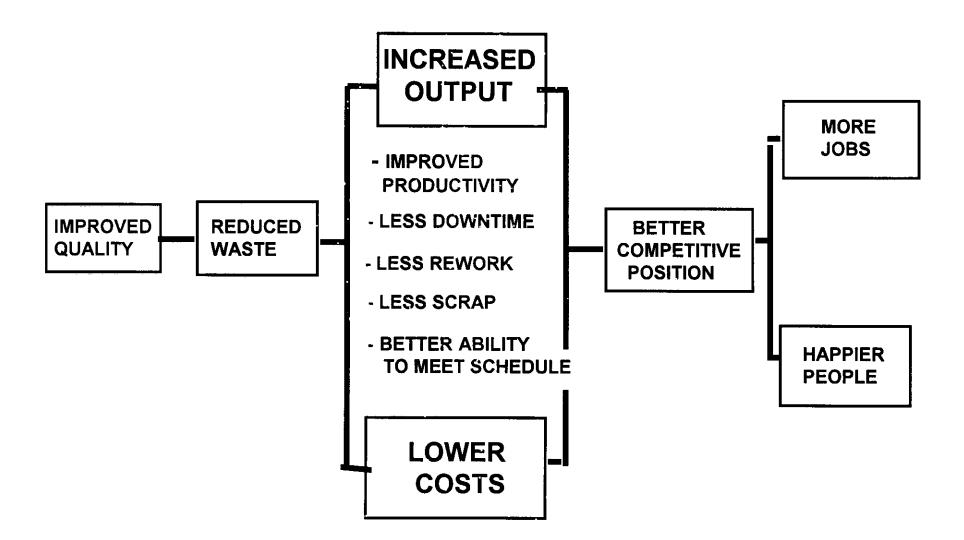






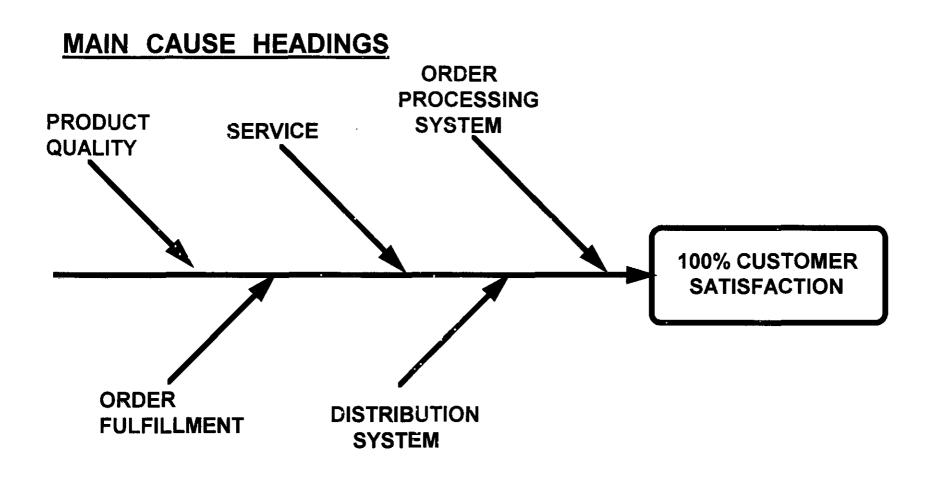
COST vs QUALITY

÷

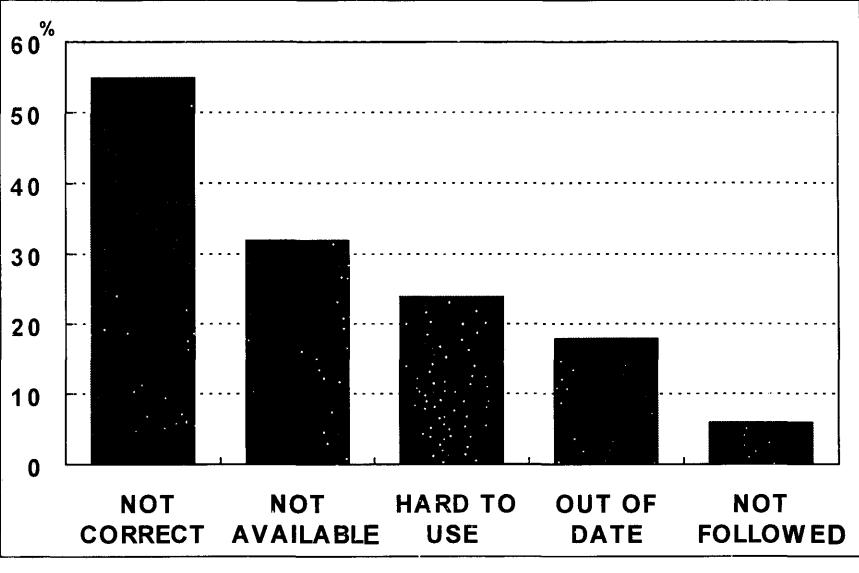


2

CAUSE and EFFECT DIAGRAMS



PROCEDURAL PROBLEMS



4