



## Project Management

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# Project Management — History

#### The World-Class **Administrative Professional** Course

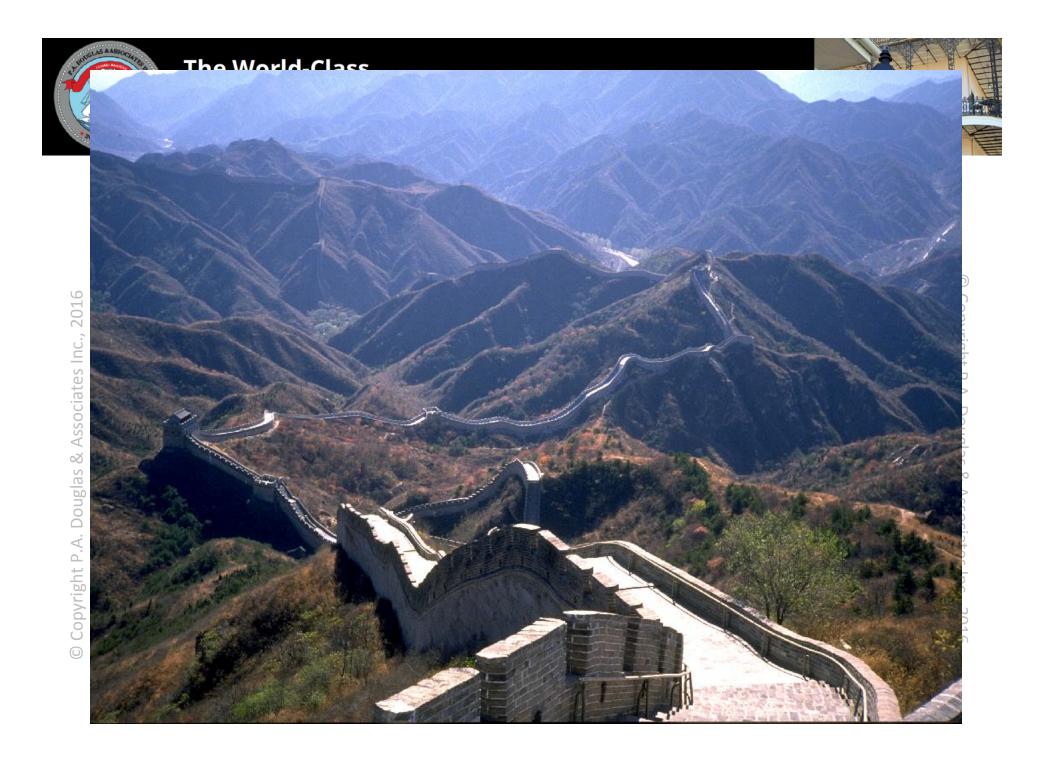


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It ranked as the tallest structure on Earth for more than 43 centuries, Each side is carefully oriented with one of the points of the compass. The horizontal cross section of the pyramid is square at any level, with each side measuring 229 m (751 ft) in length. The maximum error between side lengths is astonishingly less than 0.1%.





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"If one of you decides to build a tower, will he not first sit down and calculate the outlay to see if he has enough money to complete the project? He will do that for fear of laying the foundation and then not being able to complete the work"

**Luke 16: 28-29** 



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#### Only until recently has PM escaped the traditional boundaries of Aerospace projects and construction projects but is reaching into every industry





### Fortune magazine calls PM the number one career choice in the post reengineering





# Why such a boom in Project Management?

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## Greater Change =

### More Innovation =

More Projects

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## How do Projects Originate?



#### -When someone reacts to problem that needs to be fixed

## -When there is an opportunity for a new venture



## When a decision is made about what to do about the problem or opportunity, a project manager is



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## True of Salsa



### True or False?

## Projects are initiated by whoever is in charge.



## True or False?

Project management is no different than any other application of management principles.

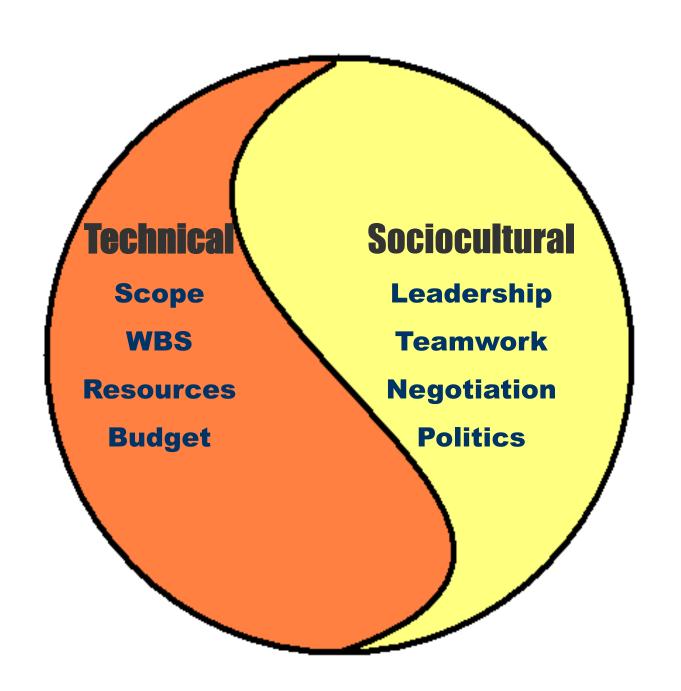


## True or False?

The project's initiator usually has a clear idea of all important aspects of the project.

## Anyone can be a project manager.

#### **Implementation** requires mastering both the technical and sociocultural dimensions of the process.



## What is a Project?



## Projects You

## Have Done?



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## 1. One-time effort

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## 2. Unique



# 3. Have limited and defined life spans

## 4. Involve Change

## 5. Defined Outcomes



## What is Project Management?



## Project Management

Project management is managing movement from one state to another

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## Project Management

Project management brings together and optimizes the resources necessary to successfully complete the project

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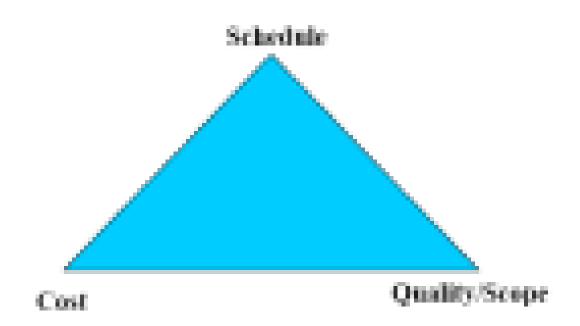
#### Those resources include:

- -Skills, talents, cooperative effort of a team
- -Facilities
- -Tools
- -Equipment
- -Information
- -Systems and techniques
- -Money



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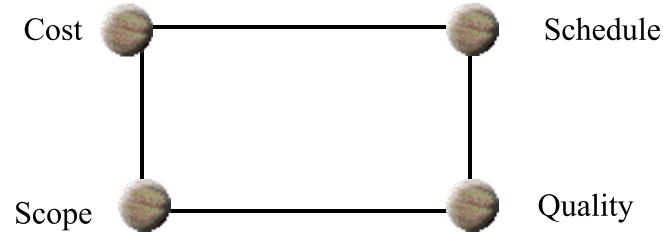








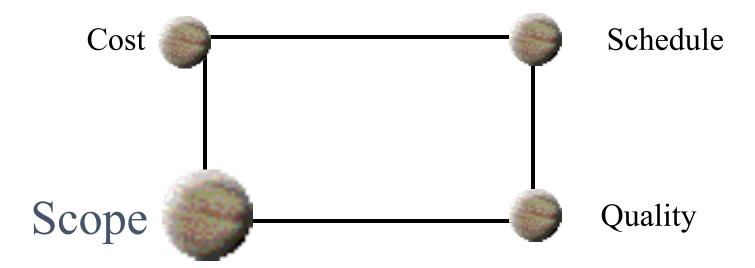
## The Four Cornerstones of Project Management







#### Cornerstones of Project Management





Poor scope definition is the major contributing factor to cost overruns in the engineering and construction industry.





### W. Edwards Deming

- 1. He developed the TQM system
- 2. 94% of errors are due to people not following proper procedure for the job

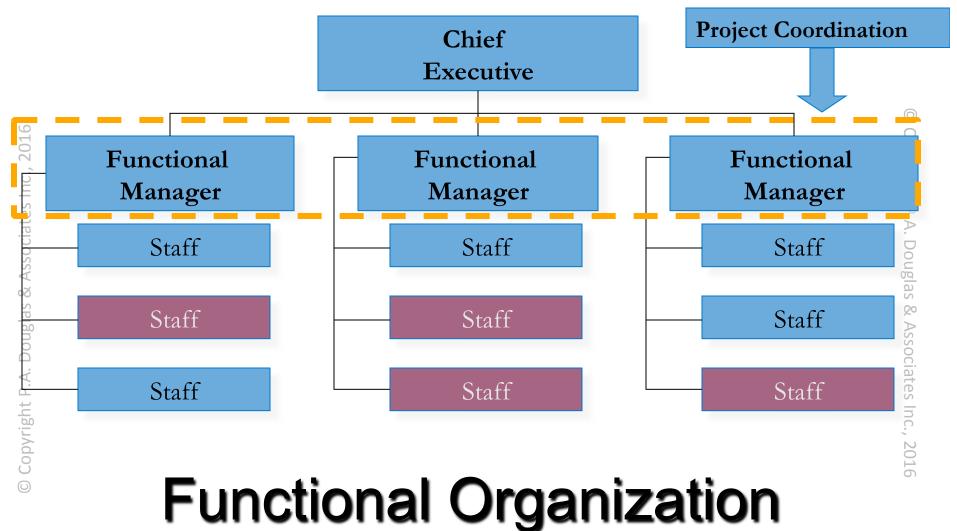


## **What qualifies a Project Manager?**

- 1. You have to need and want to be a project manager
- 2. You must have the opportunity either at work or home
- 3. You must have knowledge of project management principles

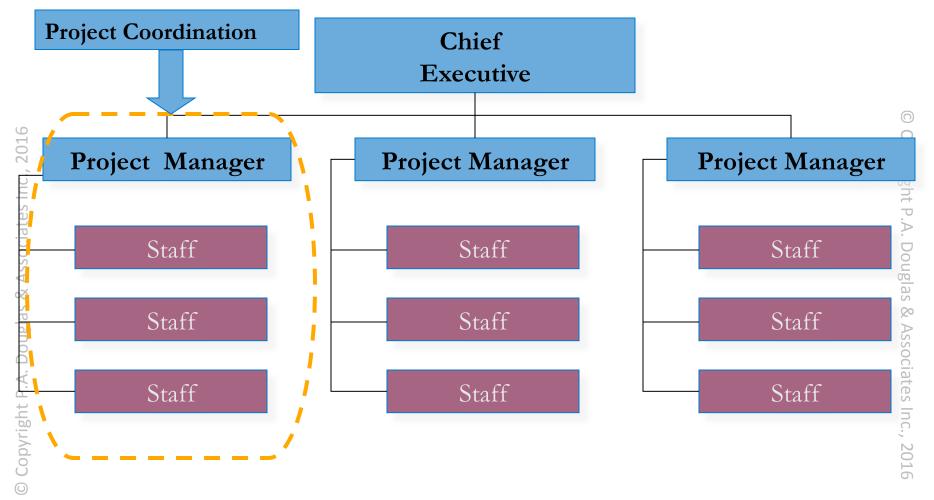












## **Project Organization**



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#### Challenges in managing projects:

- -Personnel
- -Authority
- -Estimating
- -Budgeting
- -Communication

## Step 1

# The Defining Stage



#### -Tasks that will be performed

- -Timetables
- -Budgets
- -Goals
- -Constraints
- -Deliverables
- -Specifications



#### **Strengths**

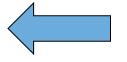
Weaknesses

**Opportunities** 

**Threats** 



**Strengths** Internal



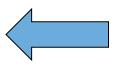
**Weaknesses** Internal



**Opportunities External** 



**Threats External** 





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### Internal:

## -People/Management Expertise

- -Facilities
- -Technology
- -Reputation
- -Marketing



## External:

- -Political/Social/Economic changes
- -Competition
- -Market Trends

## Step 2

# The Planning Stage



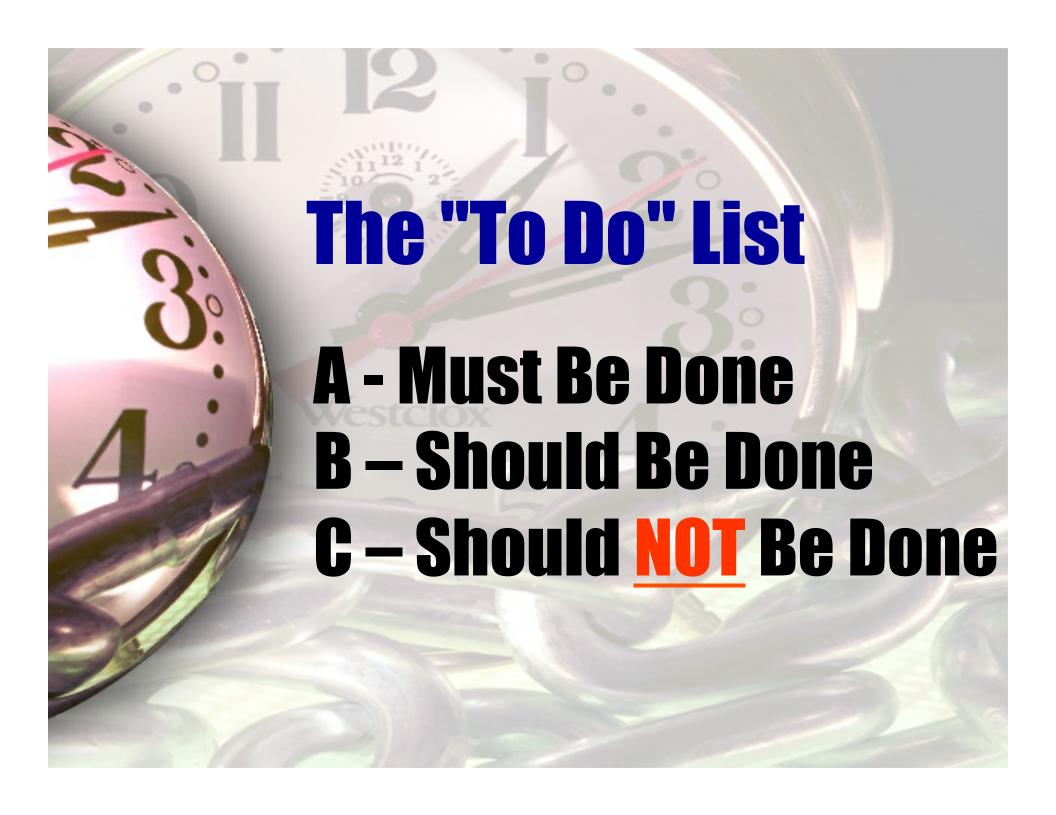
## **Planning the Project**

- -Schedule development
- -Who will be involved?
- -Budget
- -Refine, Refine, Refine!











#### **LIFETIME**

- •Delor sit amet consecteurer
- Adipes terdes edrtt fretd
- Wer thidfe ded
- Mether vert e
- Yer berfet uti ner

#### **YEARLY**

- •Delor sit amet consecteurer
- Adipes terdes edrtt fretd
- •Wer thidfe de
- Mether vert e
- Yer berfet ut

#### **MONTHLY**

- •Delor sit amet consecteurer
- Adipes terdes edrtt fretd
- Wer thidfe degth
- Mether vert eder
- Yer berfet utif ner



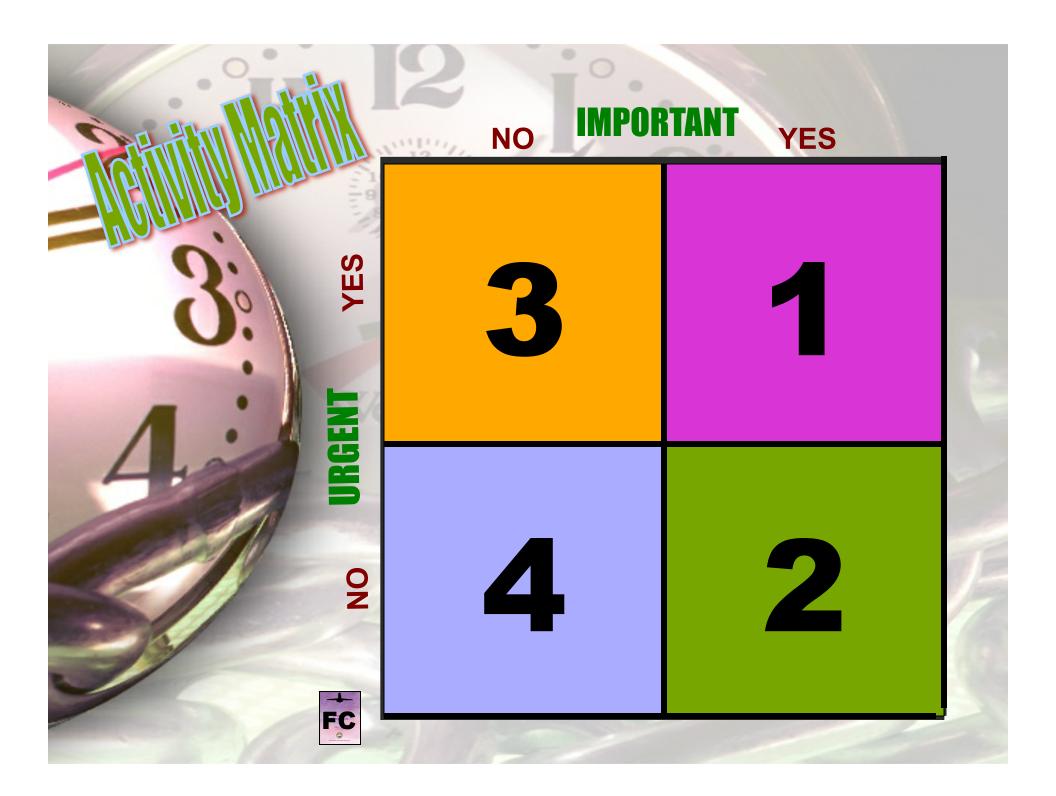
#### **S**pecific

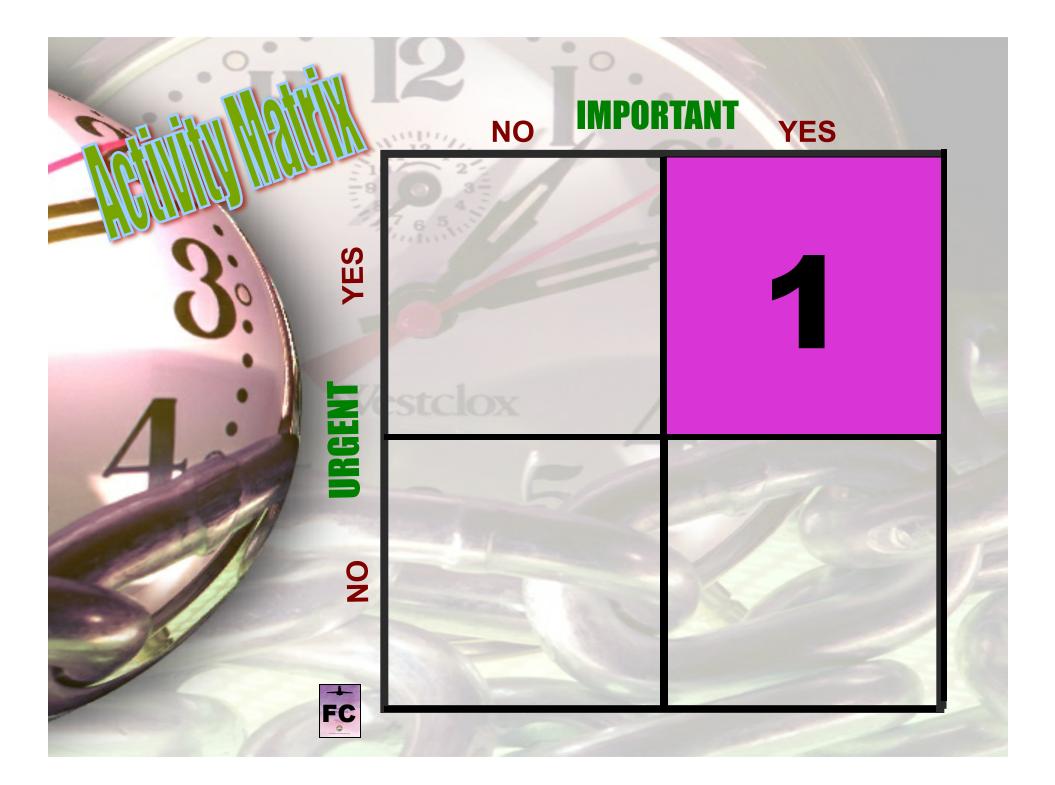
**Measurable** 

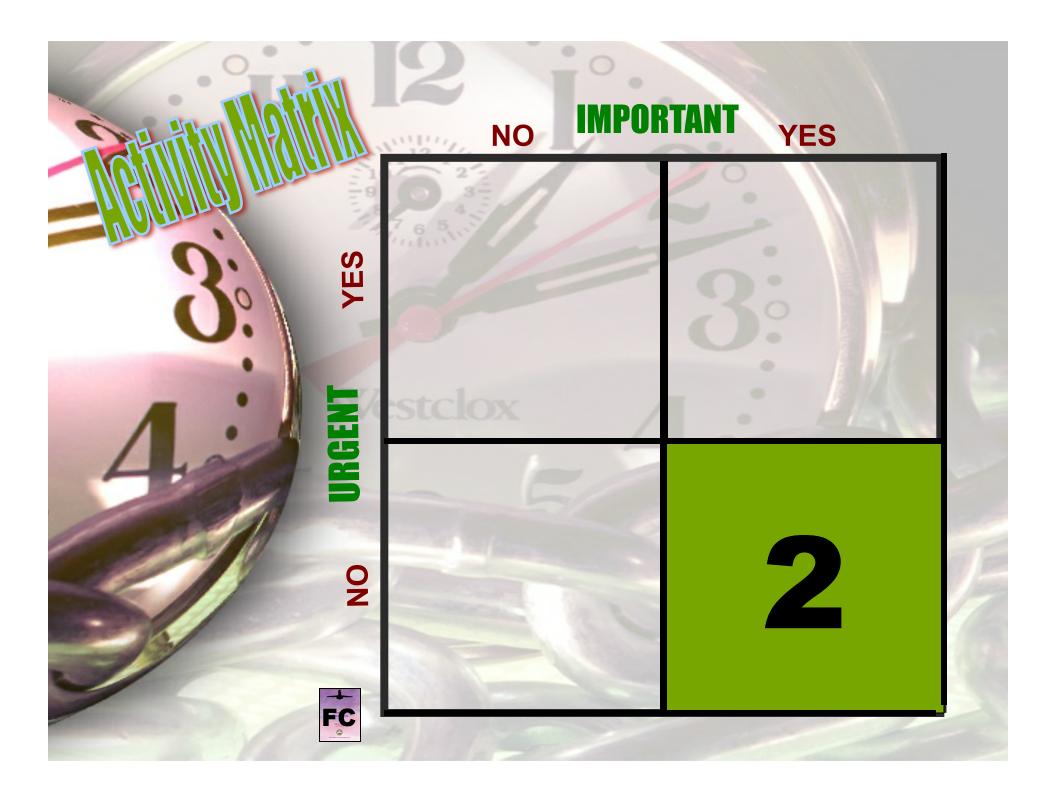
**Achievable** 

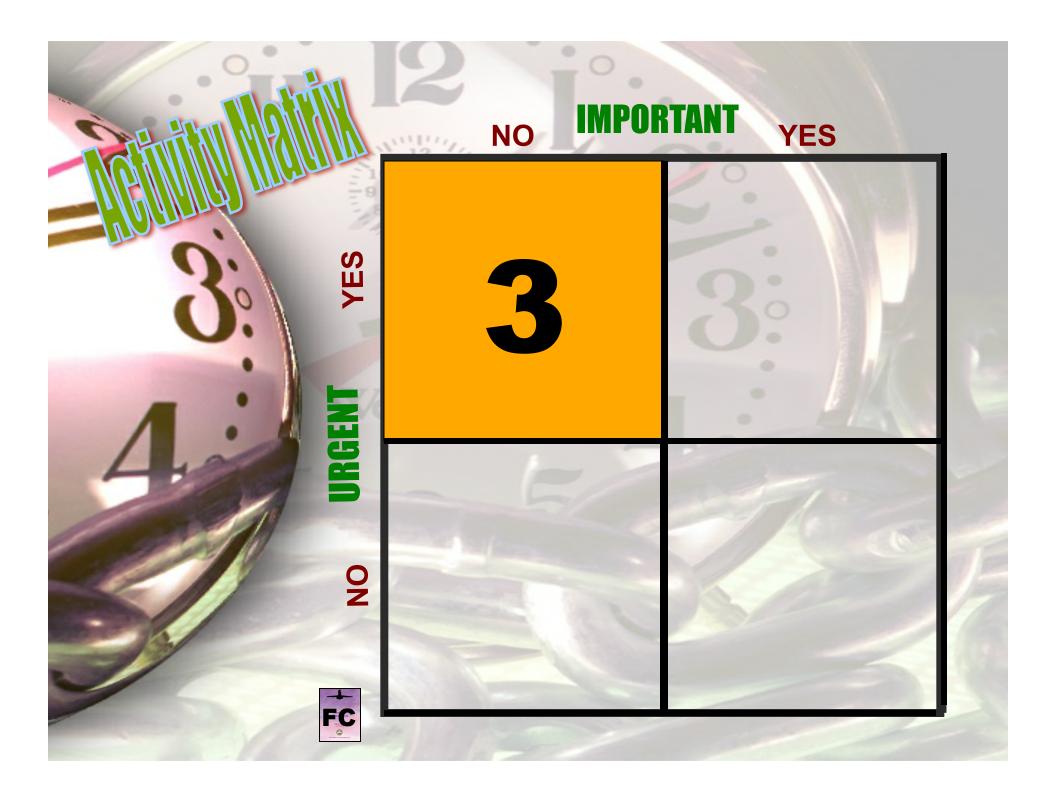
Rewarding

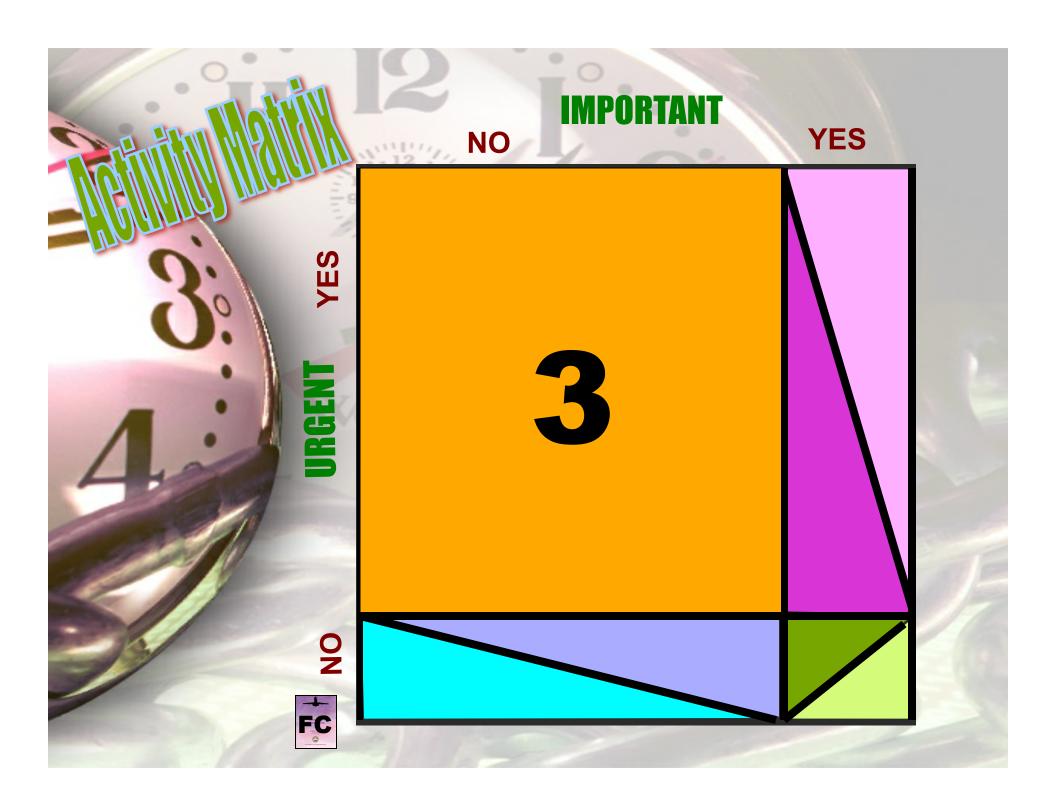
**Timely** 

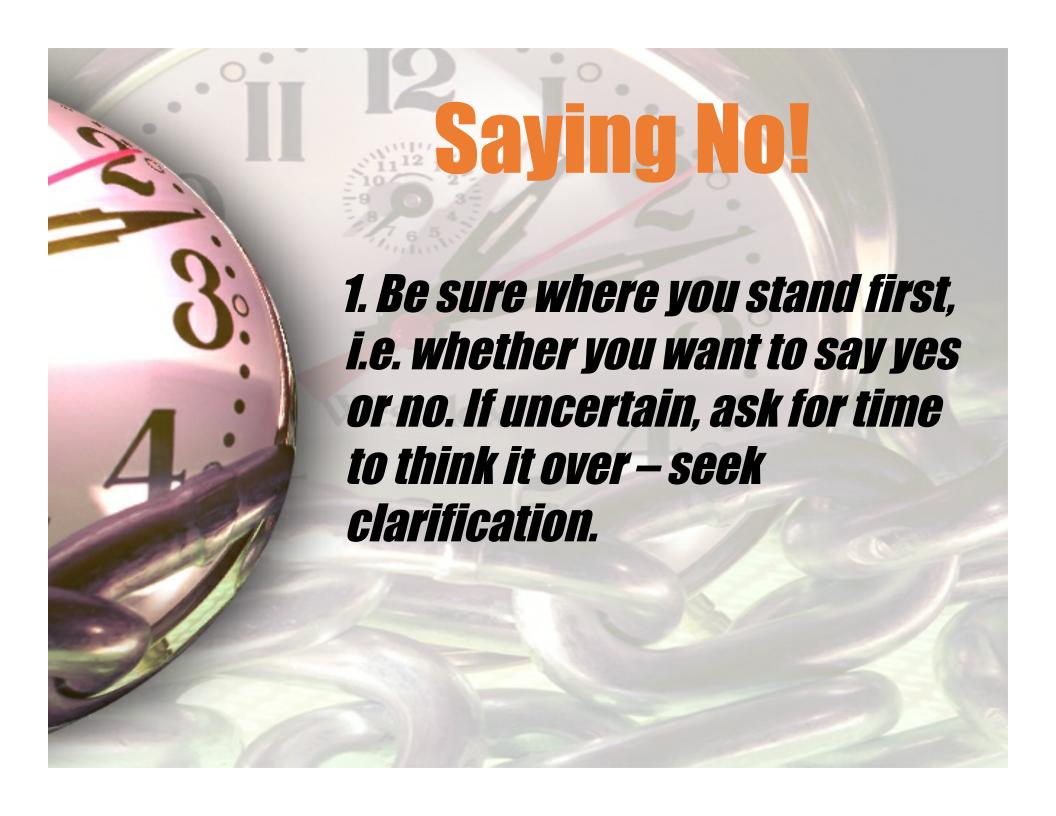








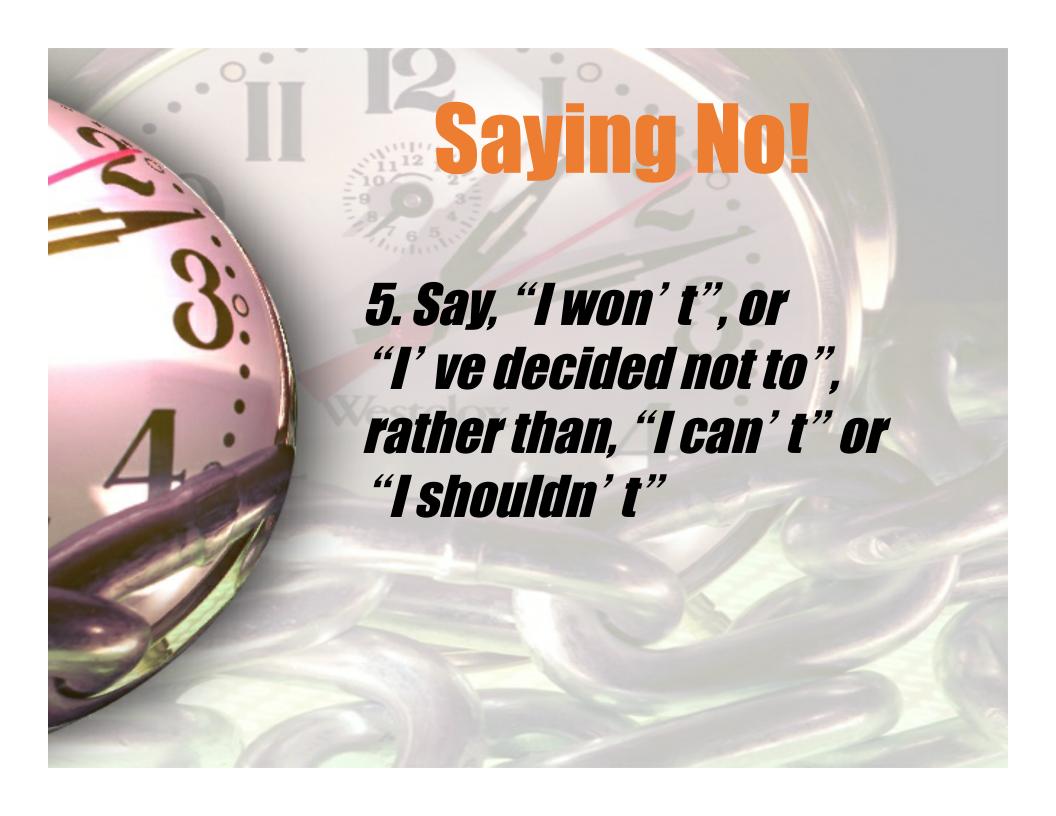


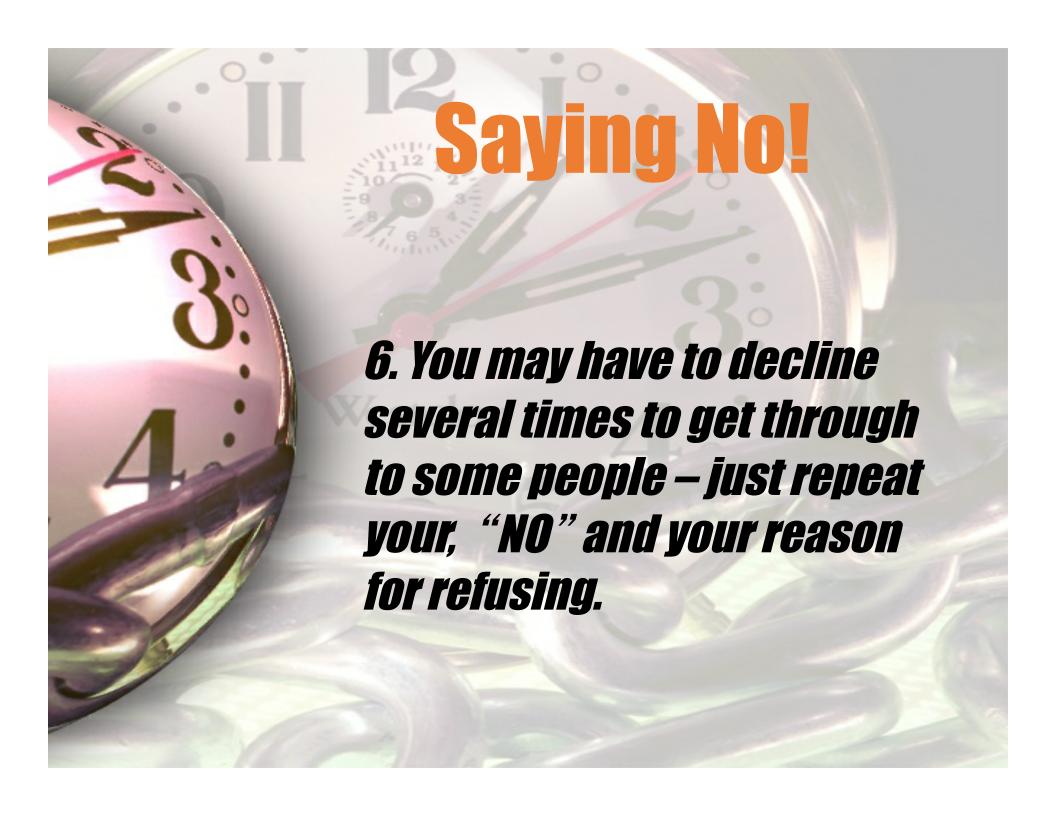




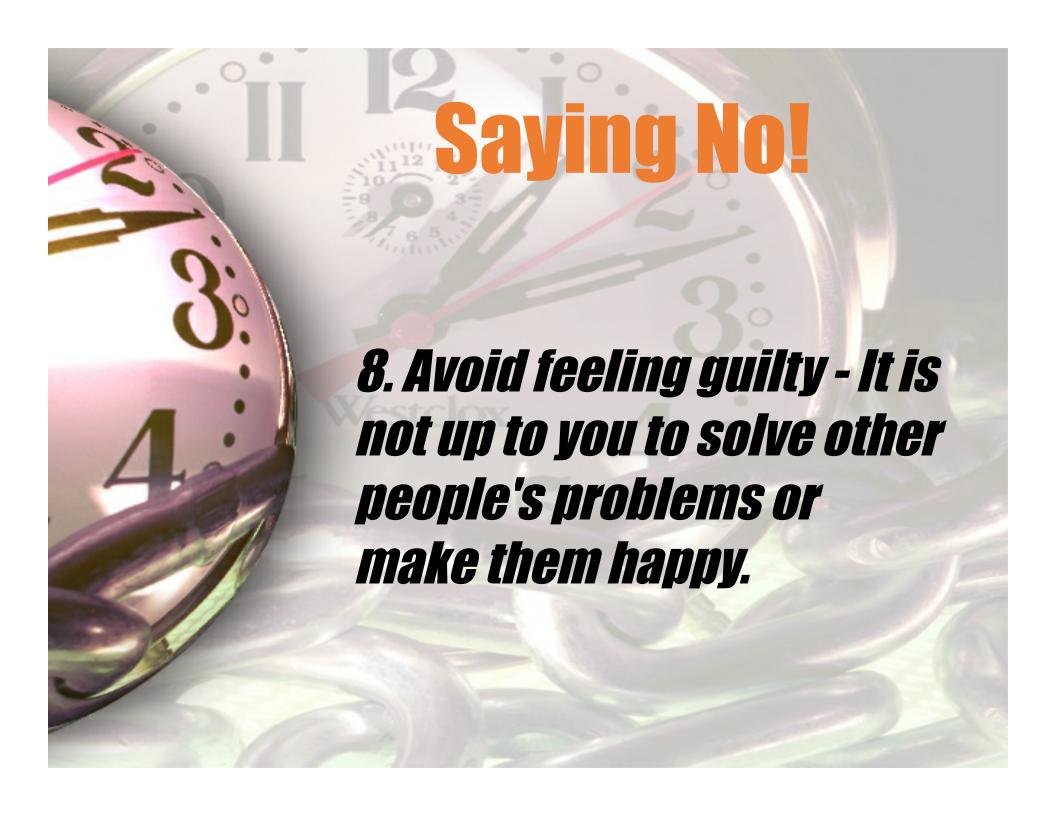


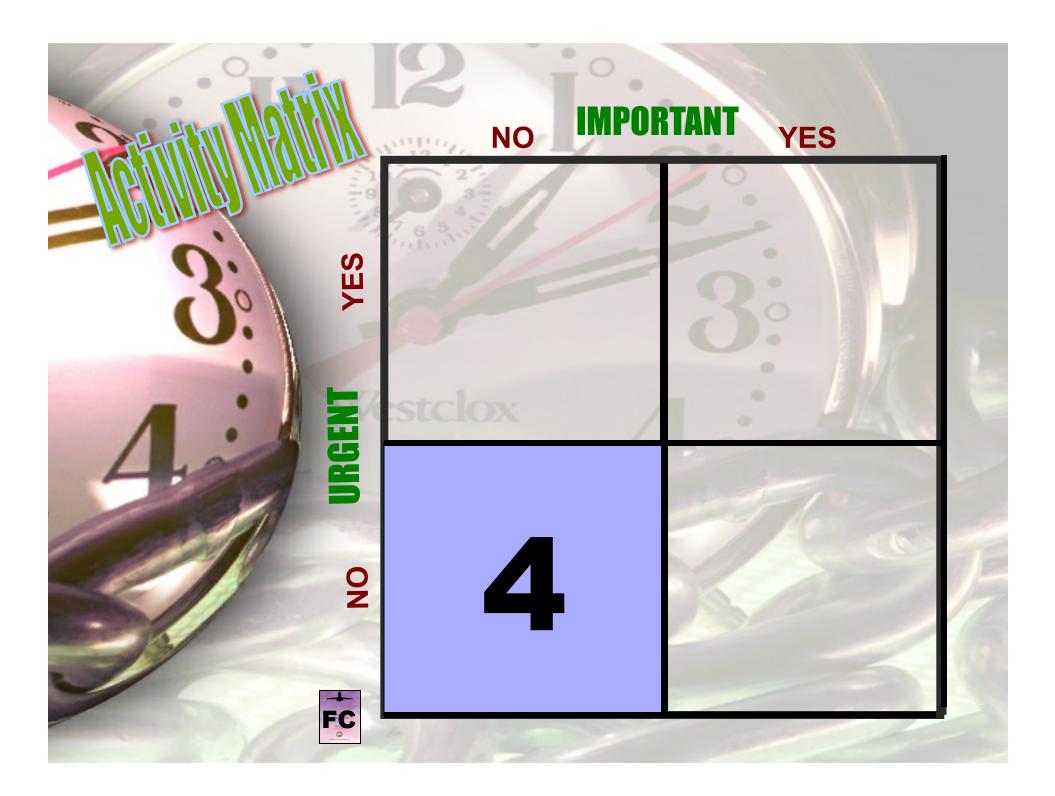




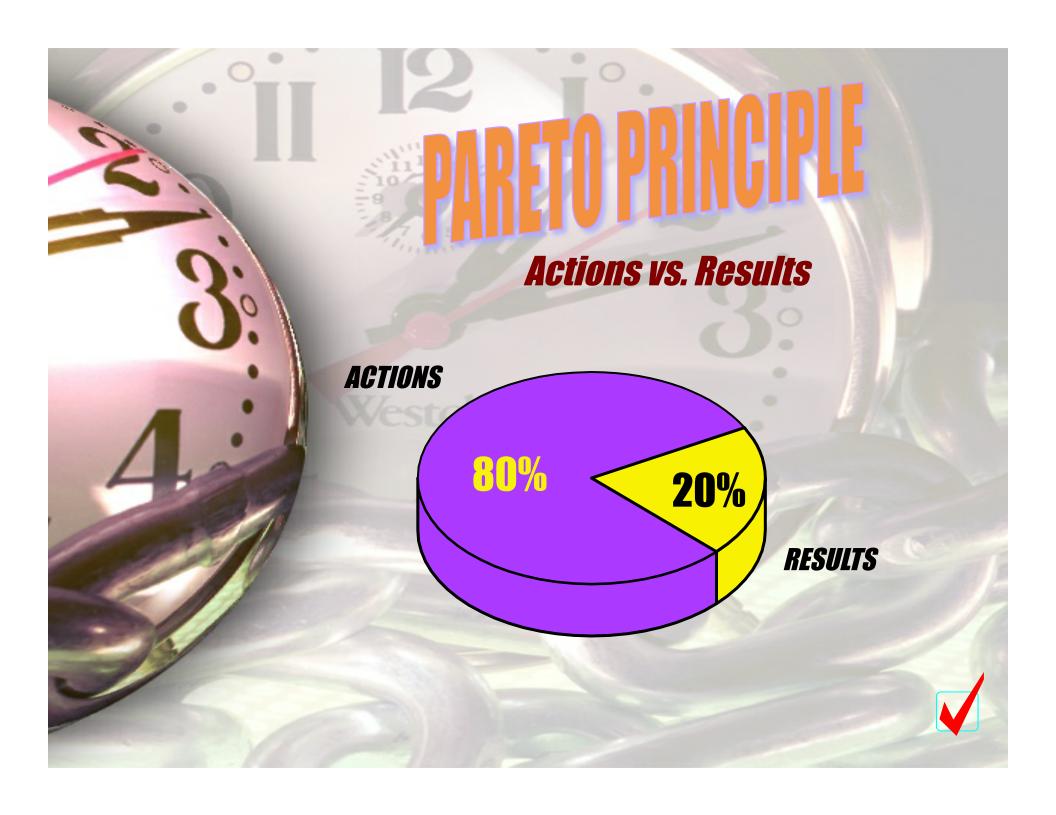


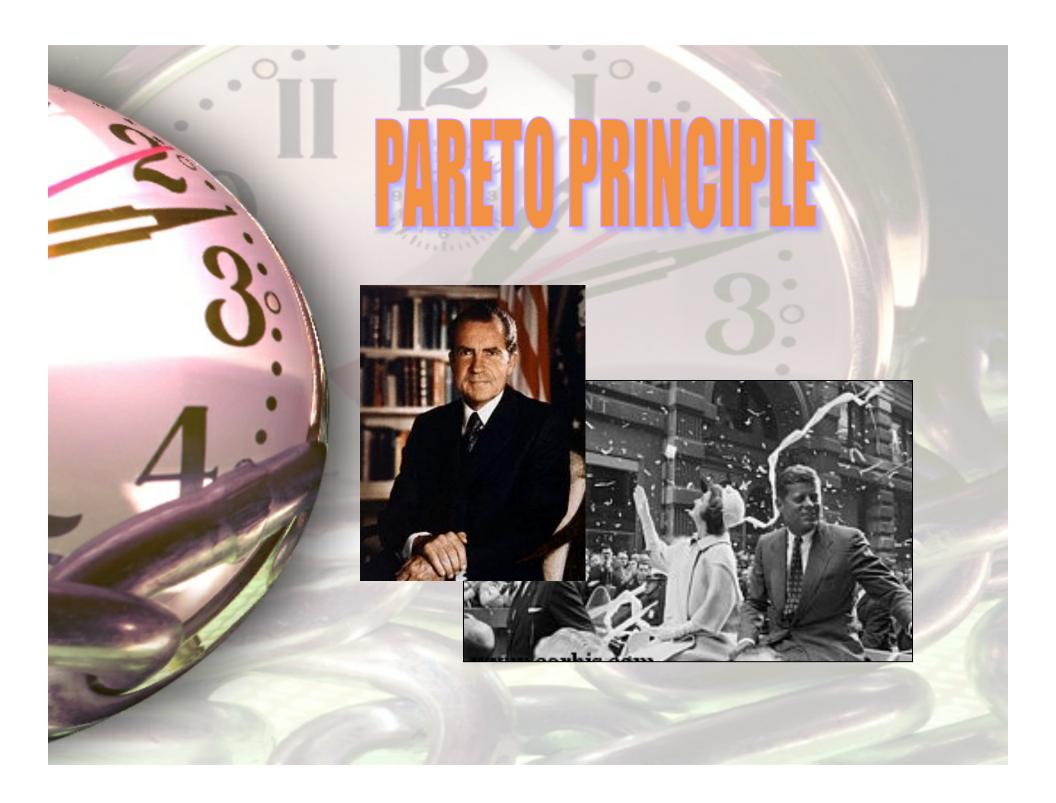














## The Work Breakdown Structure (WBS)

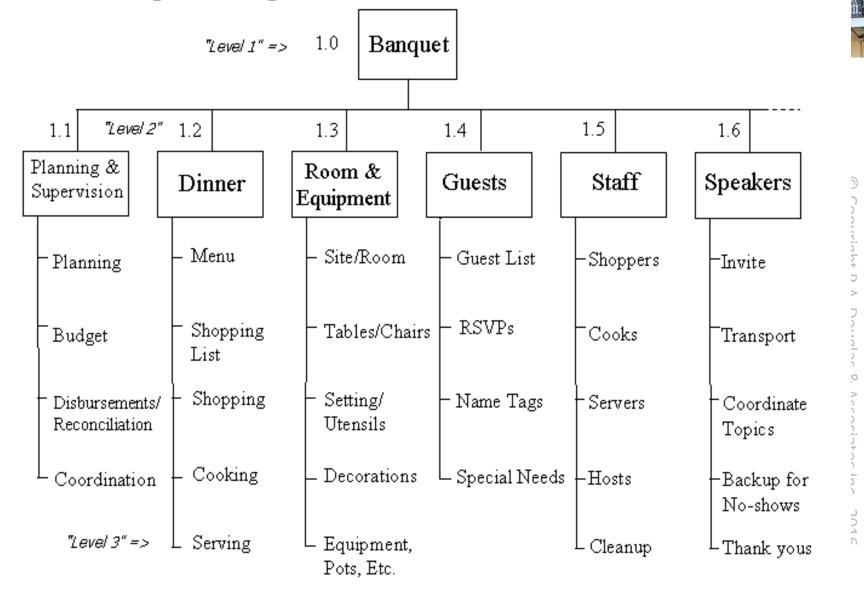
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#### -Deliverables

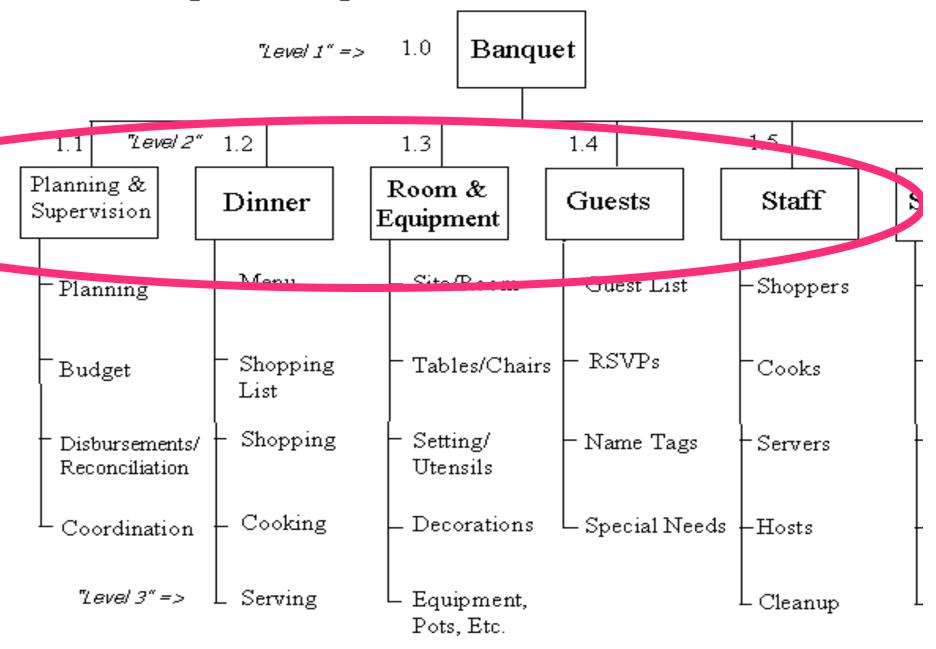
## -Specific activities

## -Tasks and subtasks

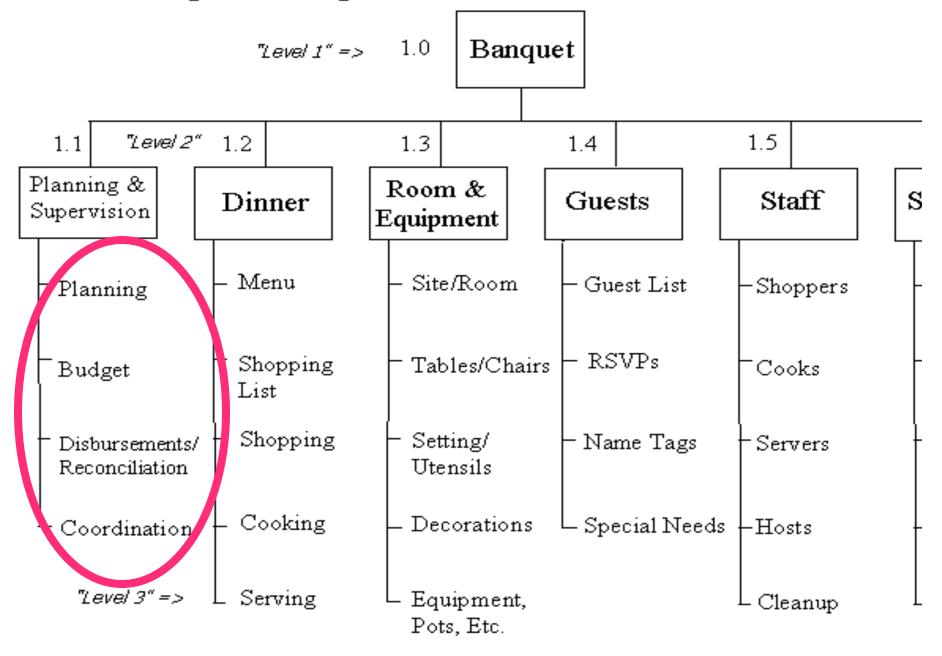
#### WBS Example - Banquet

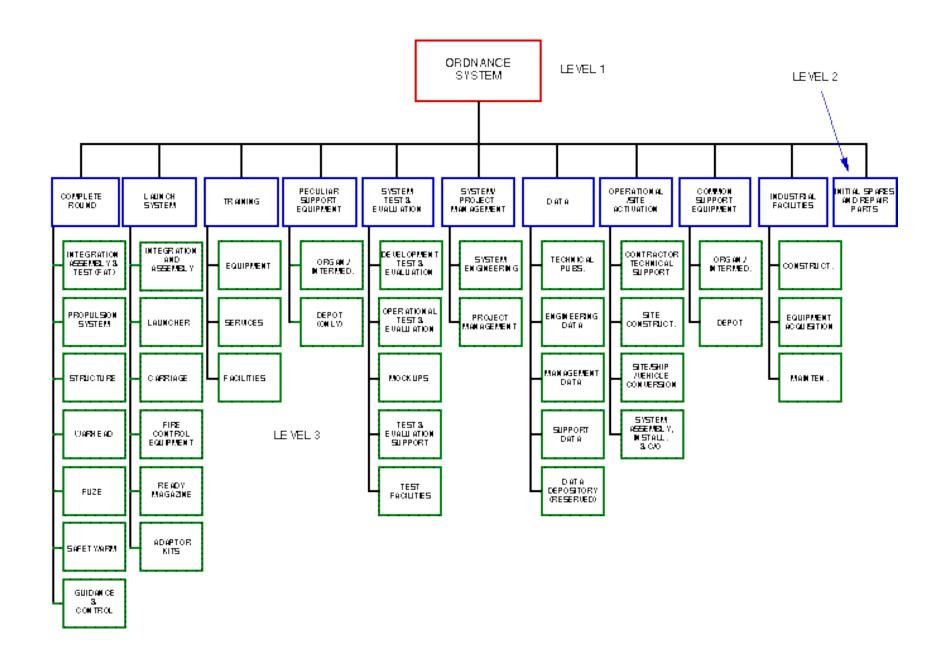


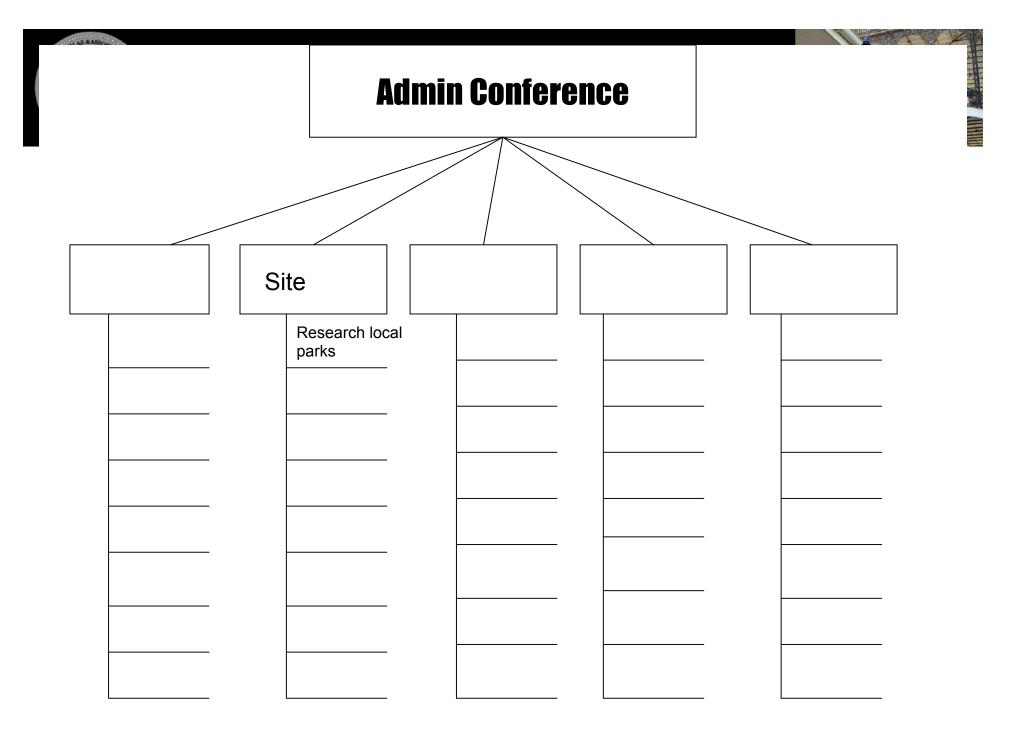
#### WBS Example - Banquet



#### WBS Example - Banquet







#### **Admin Conference**

Site **Promotion** Food **Activities** Clean-up Determine food Research safe Research local Develop blurb Delegate people preferences activities parks Provide Arrange for Create menu Visit each park Add to company instructions equipment newsletter Delegate Design in-Follow-up Find caterers supervisors Make selection company memo Book caterer Obtain contract Distribute blurb

Determine set-

up style





## What About Murphy?

## Contingency Planning



## 1. What is likely to go wrong?

## 2.When will you know about it?

3.What will you do about it?





## 1. What is likely to go wrong?

## -What is the worst case scenario?



- 2. When will you know about it?
- -PERT, Gantt
- -Meetings
- -Watch for developing patterns



- 3. What will you do about it?
- -Back-ups of money, HR, resources
- -Have a re-schedule in place
- -Gather facts from people affected

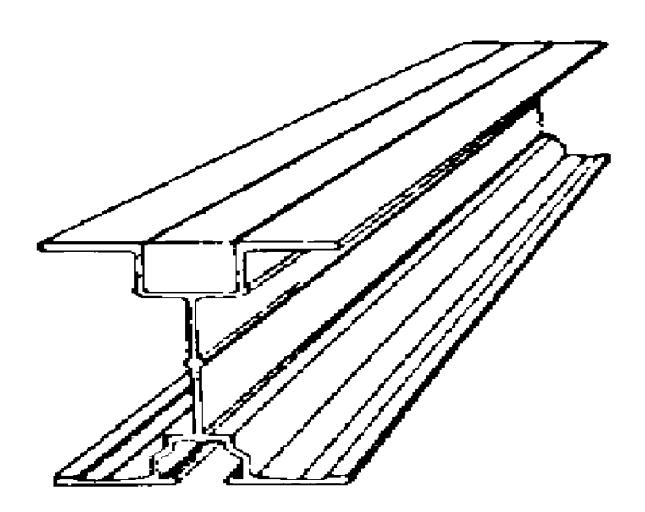
## Step 3

# Executing and Controlling the Project

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OHES

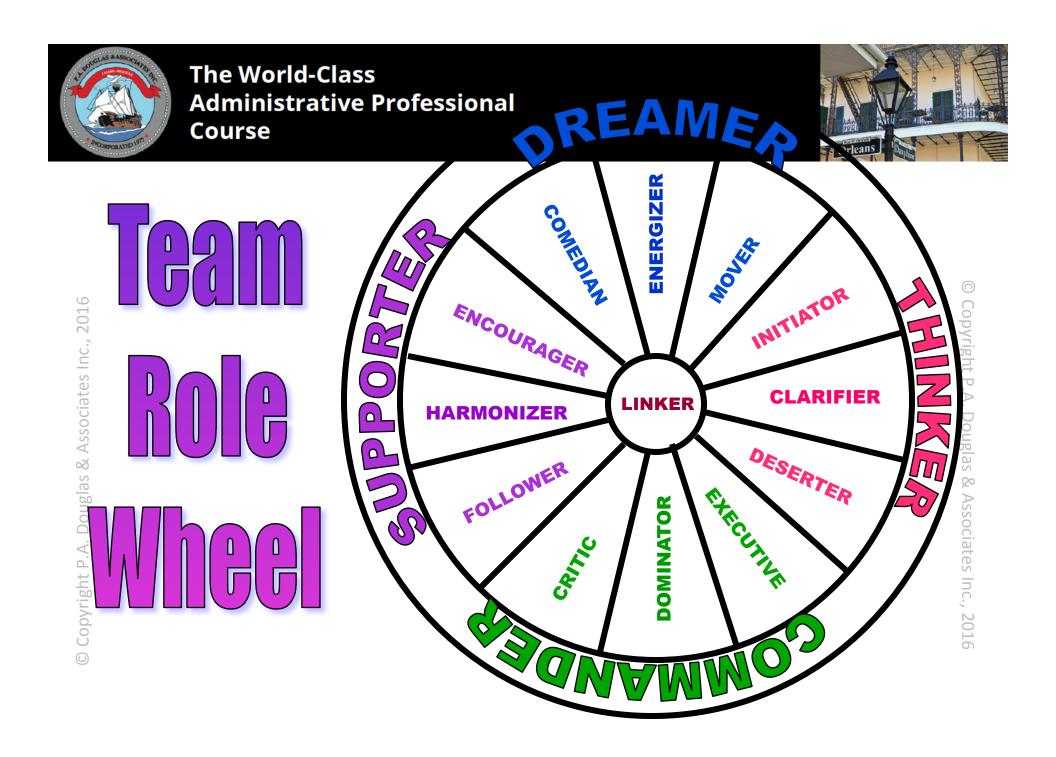


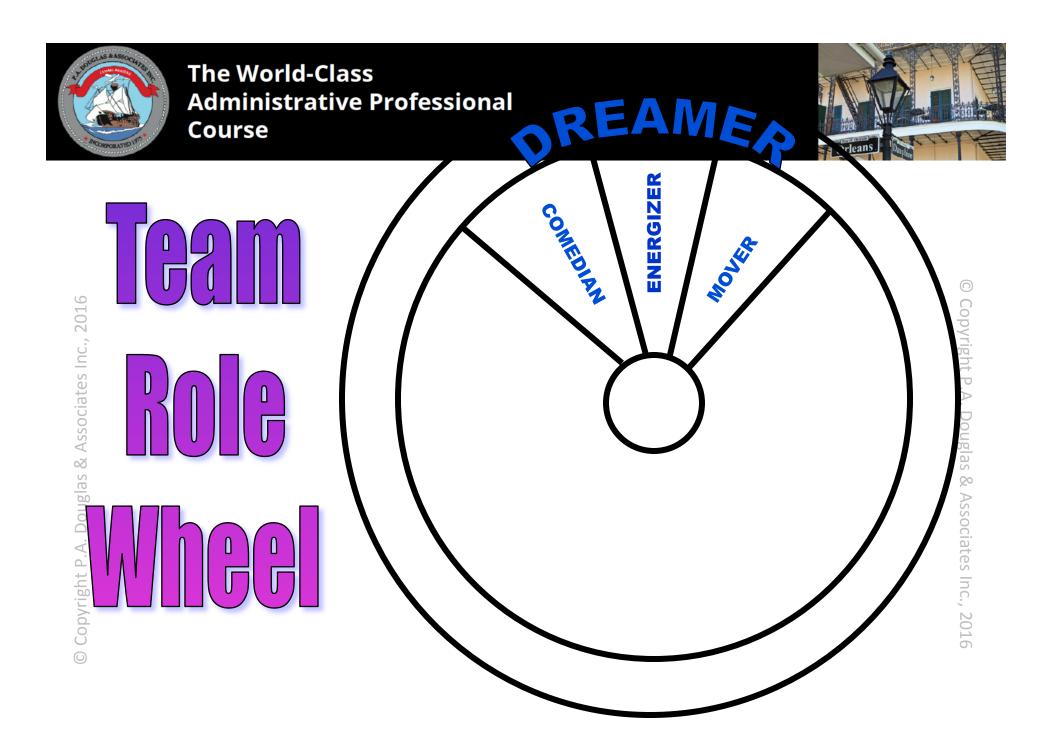


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#### **Common Roles:**

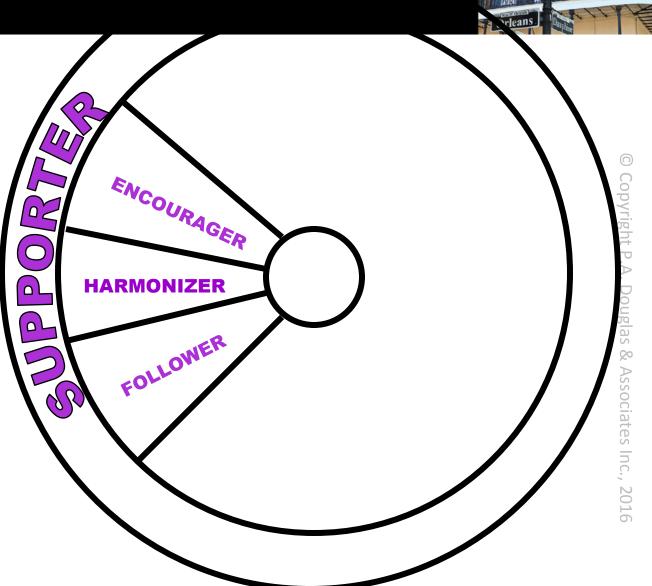
**Energizer** – They enthuse and motivate other group members to action. They constantly move the group along.

**Comedian** - They interject humour into the group situation.

**Distracter** – They divert the group's energy from the job at hand to non-productive areas.



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#### **Common Roles:**

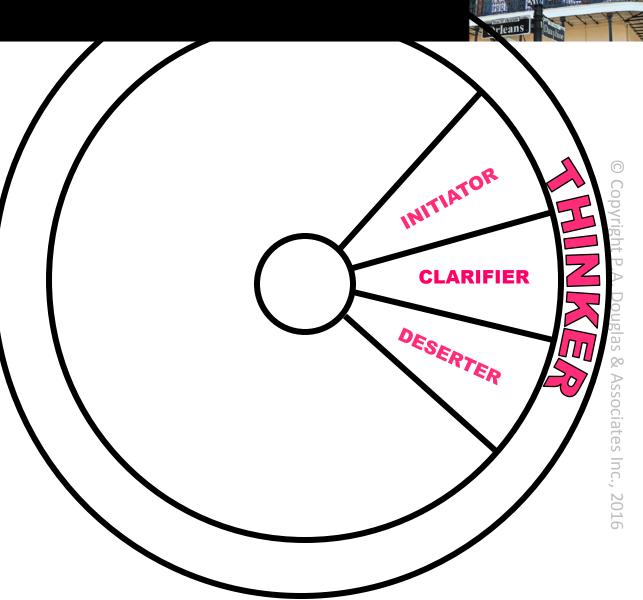
**Encourager** - They provide support, praise, and acceptance of those who offer any type of verbal expression.

Harmonizer – They are sensitive and keenly aware of potential conflict and reduce any tension that arises between members.

Follower – They tend to go along with everyone else.



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#### **Common Roles:**

Initiator - They define the problem, and propose, what they think are workable solutions.

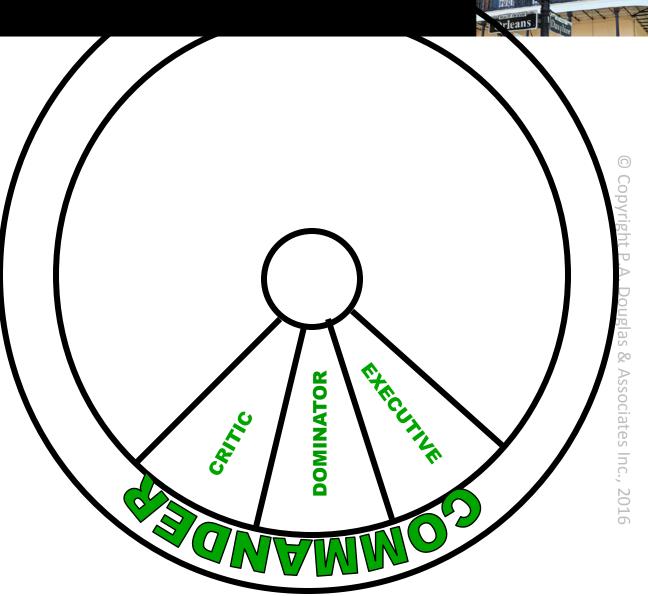
Clarifier – They tend to seek clarification and continually solicit information from others.

Deserter – They may withdraw from group discussions.



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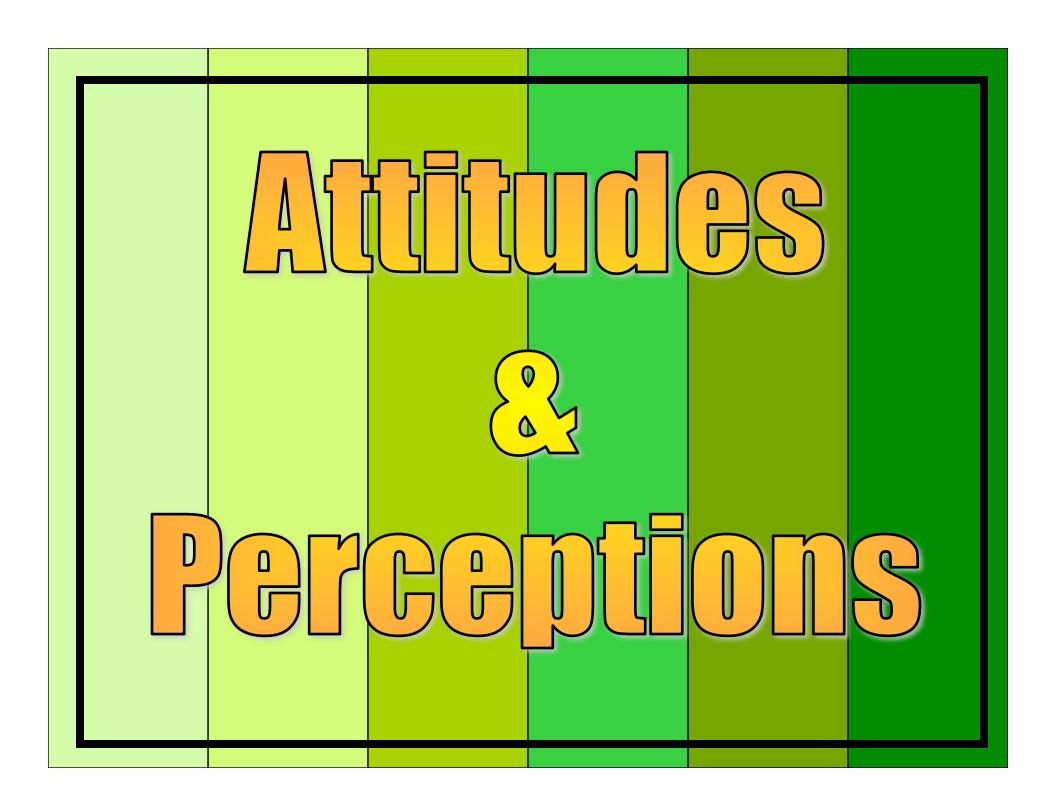
#### **Common Roles:**

Executive – They can cut through the trivial and unimportant and move the group to the key issues and goals.

**Dominator** – They tend to monopolize group time by speaking too often and presenting long, drawn out monologues.

Critic/Aggressor – They may attack other group member and their ideas in order to protect your own status. They can be highly critical of the approaches taken and suggestions made by others.

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• Although the concept of paradigm shifts has been around for many decades, it was not until 1980 when Joel Barker wrote the book, Discovering the Future that the concept of paradigms began to affect the business world.

## Attitudes & Perceptions - Dress

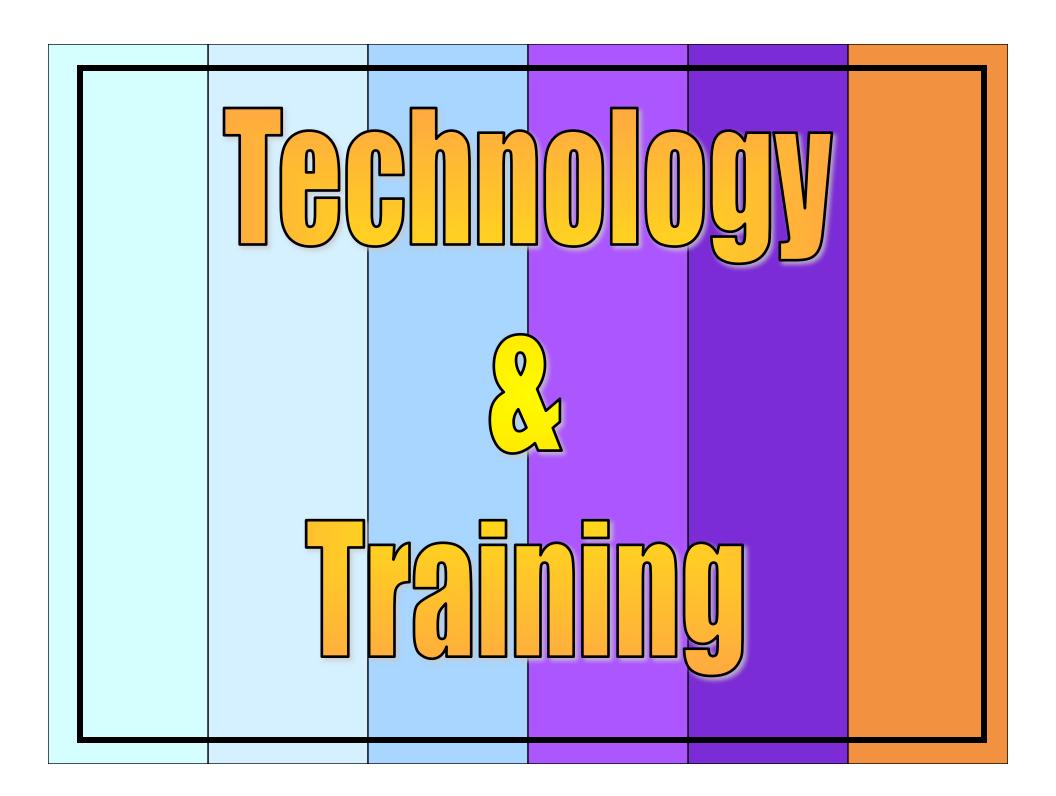
50'\$	60'\$	70'\$	80'\$	90'\$	Future
Wears a Dress	Pant Suits Allowed	Some Choice in Clothing		Many Choices In Dress	Dress Irrelevant

## Attitudes & Perceptions - Power

50'\$	60'\$	70'\$	80'\$	90'\$	Future
Manager Has Power	Manage r Has Power	Shifting Power Relationships	Shifting Power Relation - ships	Team Has Power	AP Has Increased Power

## Attitudes & Perceptions - Career Vision

50'\$	60'\$	70'\$	80'\$	90%	Future
No Career Vision	Wanting Career Options	Lateral Career Vision	Lateral Career Vision	Upward Career Vision	Upward Career Vision



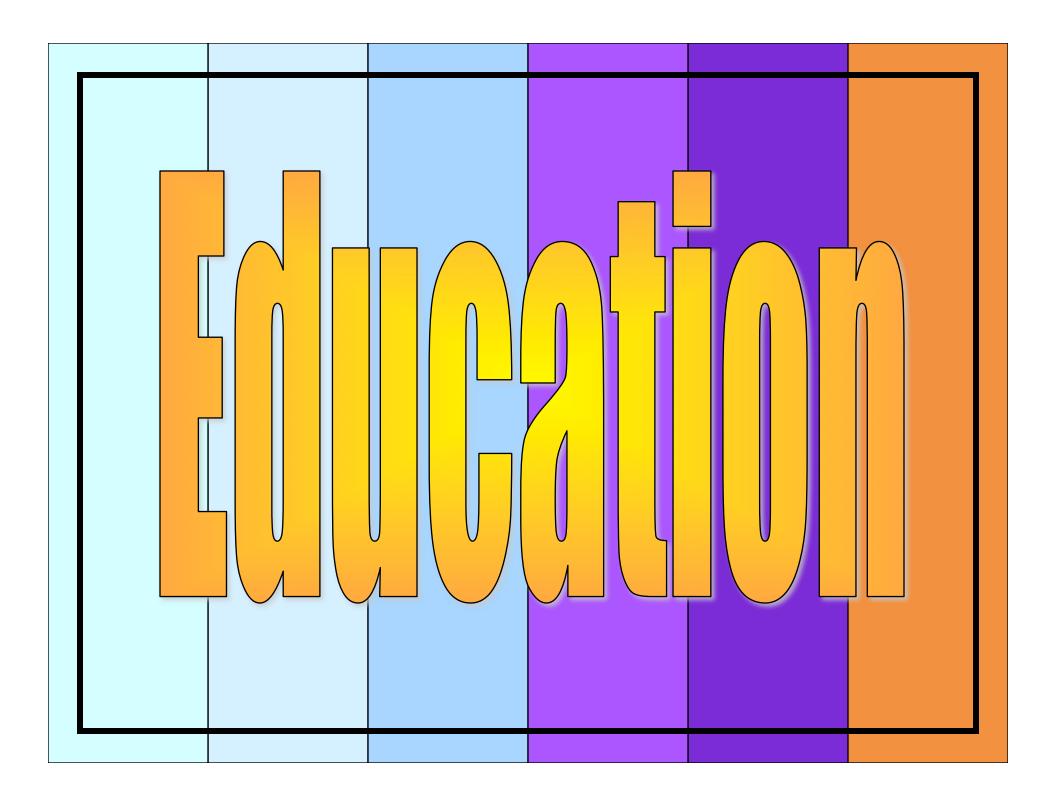
## Technology & Training

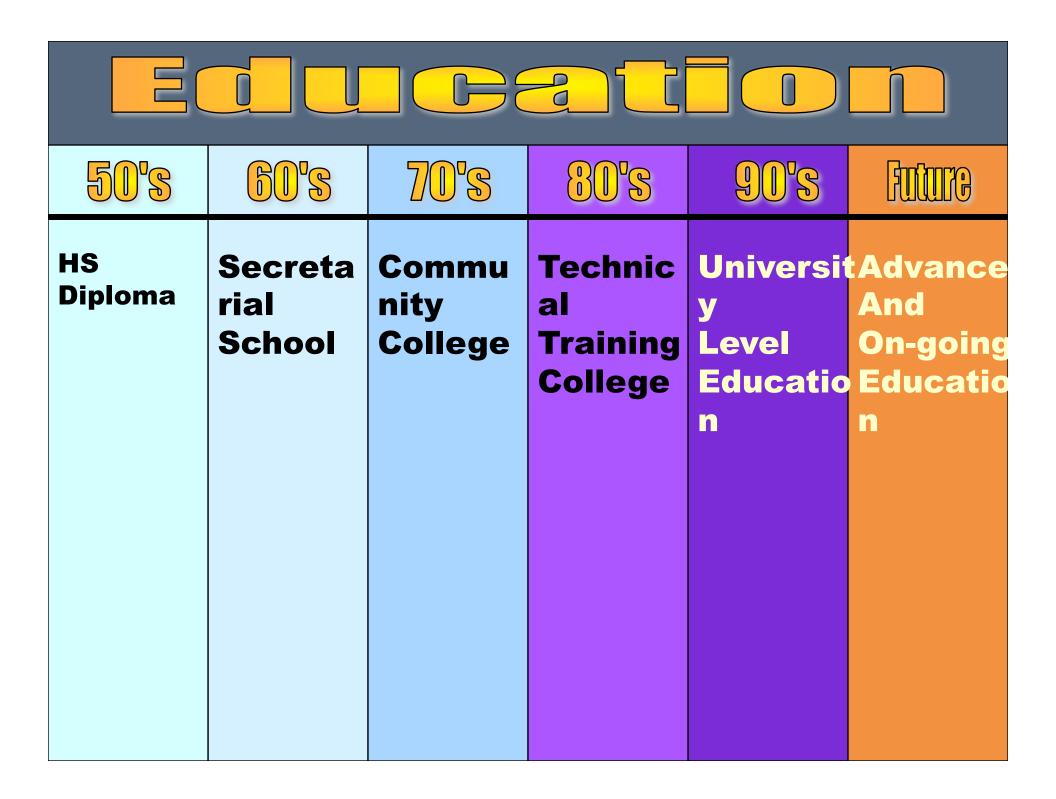
50'\$	60'\$	70'\$	80'\$	90%	
Filing Typing Phones	Filing Typing Phones	Word Process ing	Word Process ing	Compute Literate	Problem Solving
Shorthand Required	nd nd IRequire d	Shortha nd Expecte d	Optional Skills	As Needed Basis	As Needed Basis

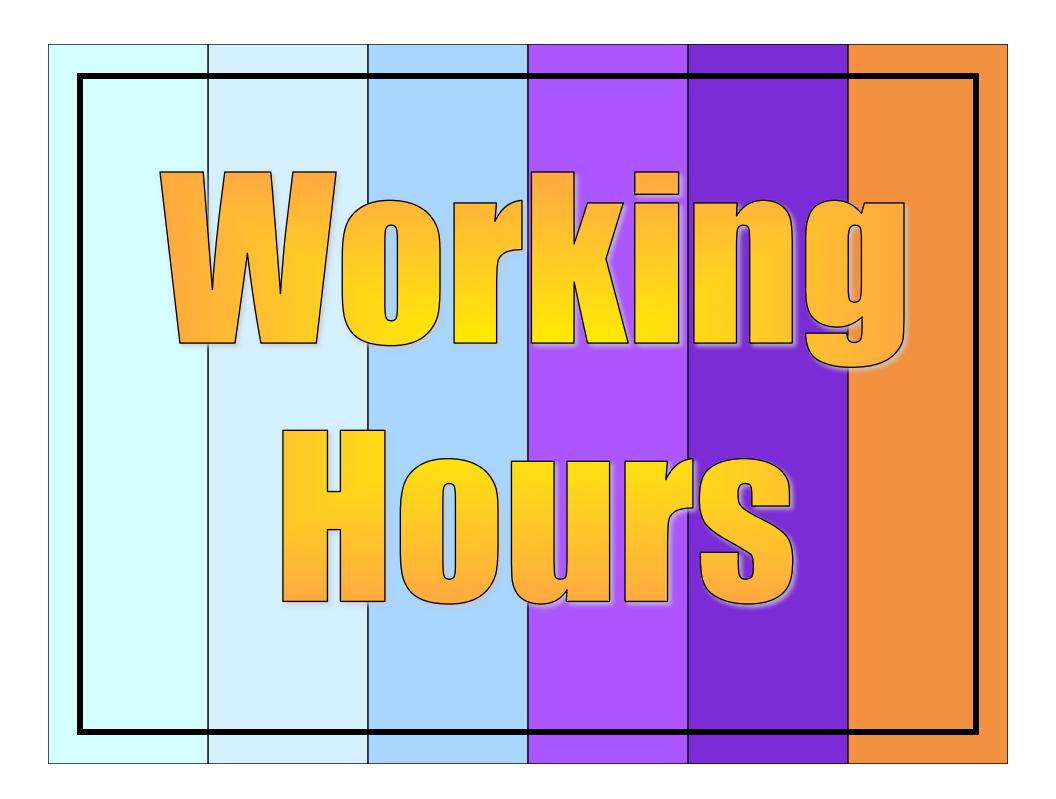
## 

## Skills & Responsibilities

50'\$	60'\$	70'\$	80'\$	90'\$	Fuure
n- Making No	No Decisio n- Making No Autono my	Respons -ibility Without Autono my	Respons - Ibility With Autono my	Respons - Ibility With Autono my	Accountability







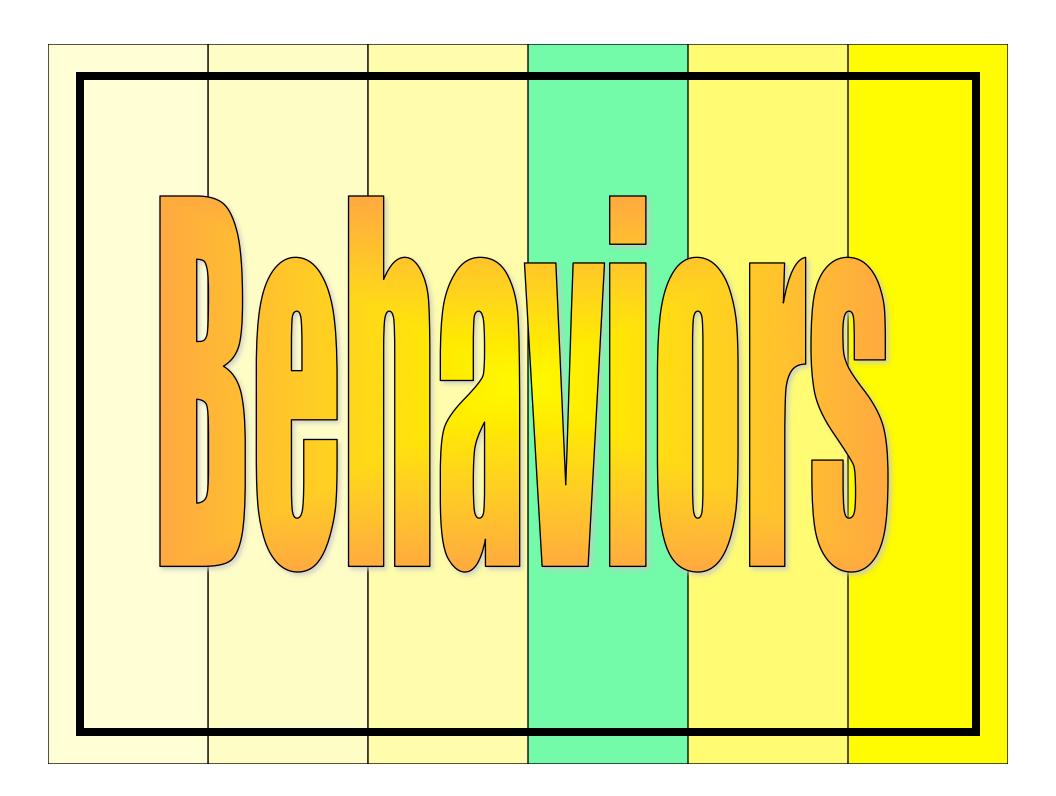
#### Working Hours

50'\$	60'\$	70'\$	80'\$	90'\$	Future
9 to 5 day	Increas ed Hours	Increas ed Flexibili ty But More Hours	Increas ed Flexibili ty But More Hours	Flexible Hours And Location	Increase

## 

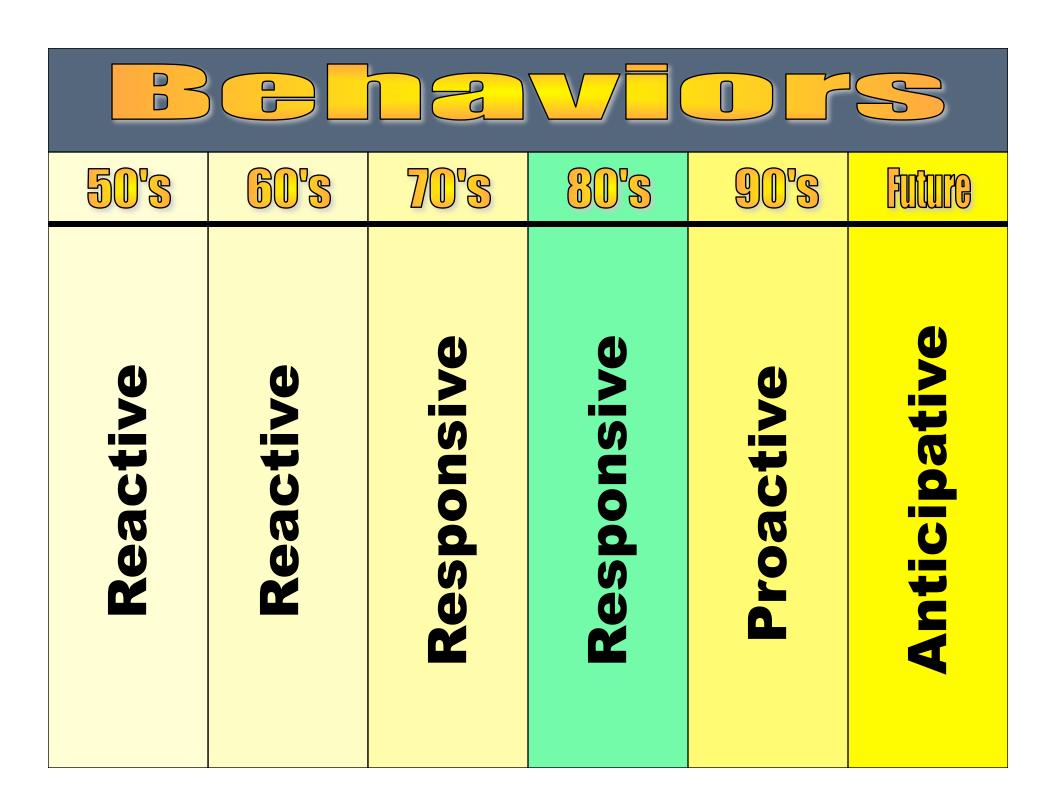
#### Professional Development

50's	60°s	70's	80'\$	90'\$	Future
No Profess Develo		Functional Training Only	Comput er And Assertiv e-ness Training	n Team-	unicatio  Building ement



#### 

<b>50</b> 's	60'\$	70's	80'\$	90%	Fuure
Never Questions Manage r	Never Questions Manage r	Rarely Questions Manage r	Questions Manage r When Needed	Questions Manager As Needed	As





Rents job

#### ADMINISTRATIVE PROFESSIONAL

Owns job



- Rents job
- Focuses on tasks

- Owns job
- Focuses on results



- Rents job
- Focuses on tasks
- Waits for direction

- Owns job
- Focuses on results
- Takes initiative



- Rents job
- Focuses on tasks
- Waits for direction
- Is driven by policies and procedures

- Owns job
- Focuses on results
- Takes initiative
- Innovates



- Rents job
- Focuses on tasks
- Waits for direction
- Is driven by policies and procedures
- Is managed

- Owns job
- Focuses on results
- Takes initiative
- Innovates
- Self-manages



- Rents job
- Focuses on tasks
- Waits for direction
- Is driven by policies and procedures
- Is managed
- Is plagued by problems

- Owns job
- Focuses on results
- Takes initiative
- Innovates
- Self-manages
- Is solution-minded



- Rents job
- Focuses on tasks
- Waits for direction
- Is driven by policies and procedures
- Is managed
- Is plagued by problems
- Resists change

- Owns job
- Focuses on results
- Takes initiative
- Innovates
- Self-manages
- Is solution-minded
- Adapts to change





#### Datebook Organizers





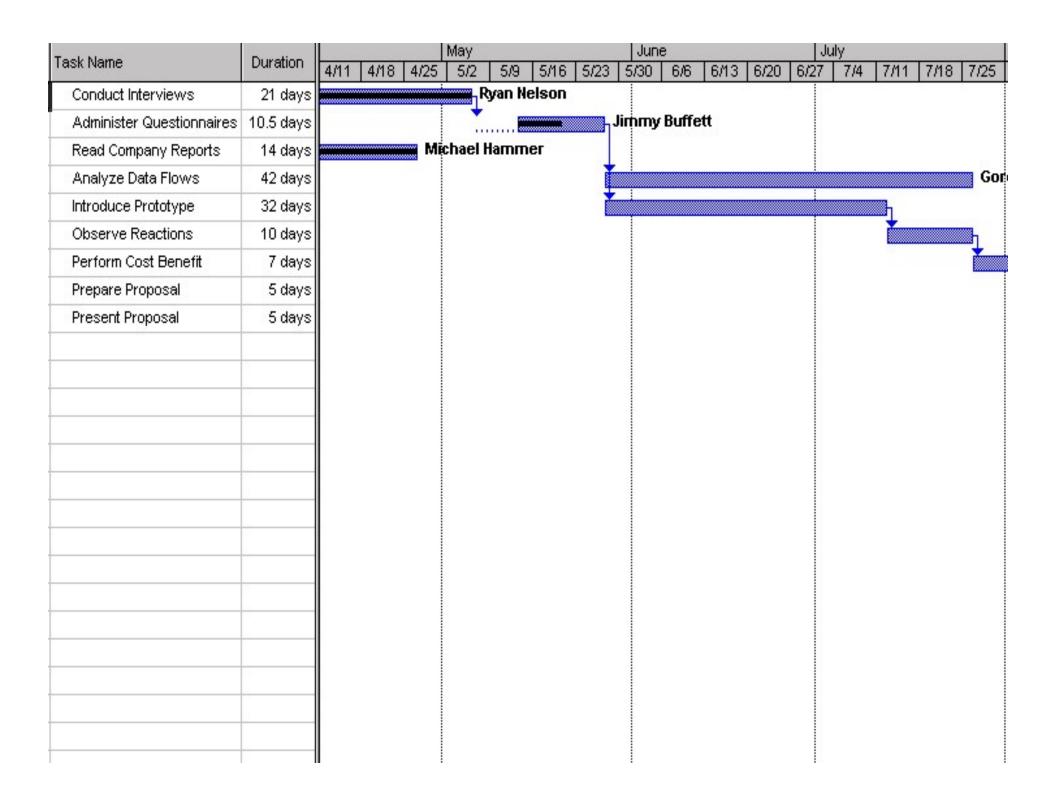






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# Gantt Charts



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#### **Advantages:**

- -Timeline shows relative length of project activities
- -Empty bar lines are filled as progress is made
- -Unscheduled time is identifiable if needed

#### **Evaluation**

And

Review Technique

(PERT)



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#### Simple PERT Chart





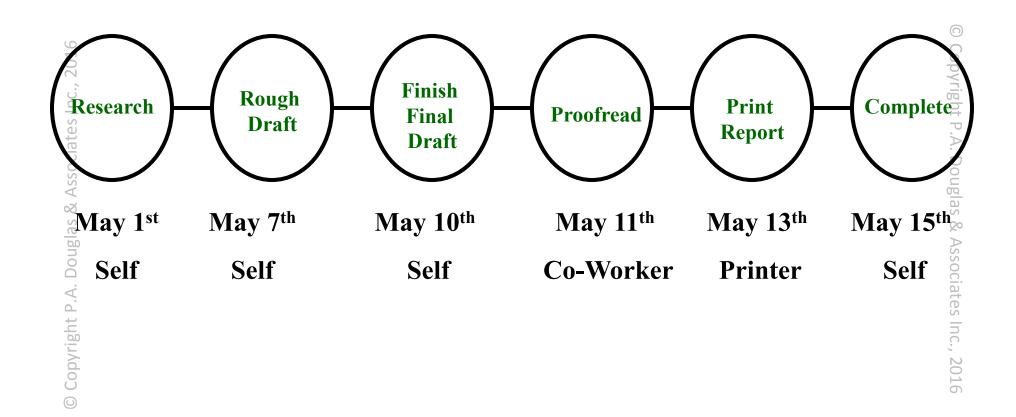
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B Select location	A	1 day
C Get weather forecast	В	1 day
D Create a flyer to notify employees	С	3 days
E Create menu	D	2 days
F Confirm menu	Е	1 day
G Plan recreational activities	F	2 days
H Confirm activities	G	1 day
I Find cooks	Н	2 days
J Confirm cooks	I	1 day
K Confirm employee attendance	J	2 days
L First aid	K	1 day
M Confirm weather conditions	L	1 day
N Shop for food	M	1 day
O Wrap & prepare food to deliver	N	1 day
P Deliver food to cooks	О	1 day
COMPANY BBQ May 25		







#### -Clearly shows relationships between activities

- -Easily understood by someone unfamiliar or outside the project
- -Deadlines and/or delegations can be specifically indicated to each step
- -The CPM may be easily identified and shown for planning and prioritizing



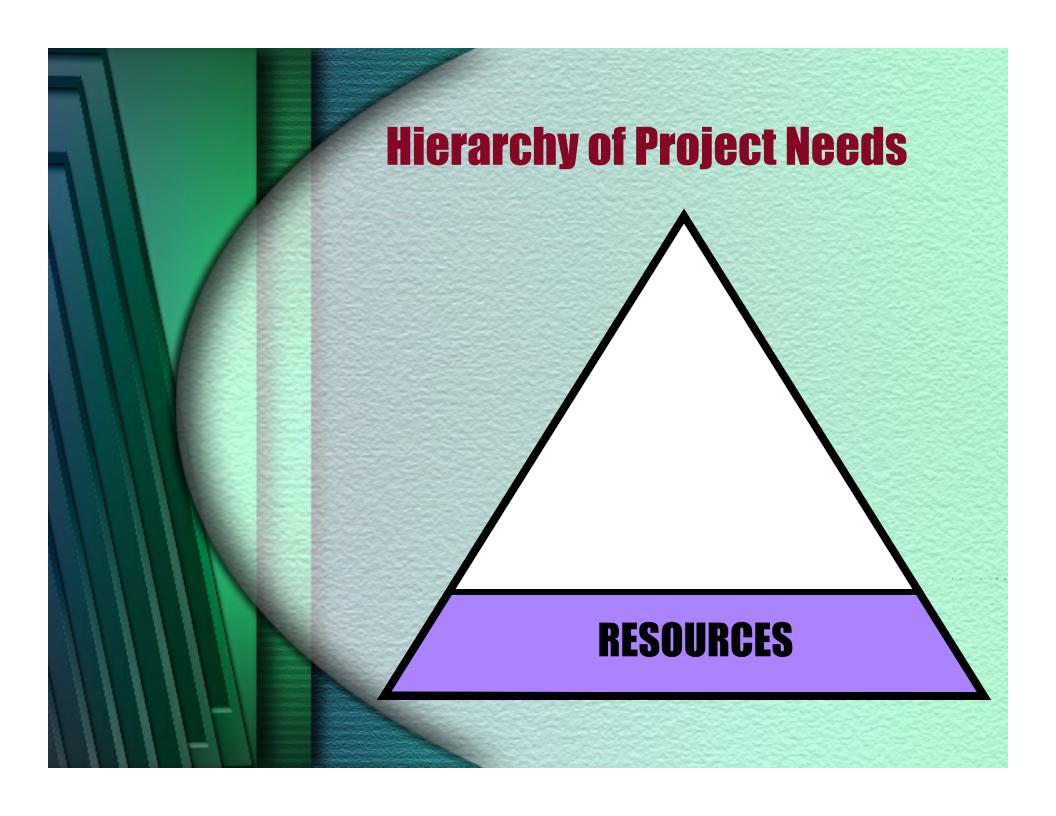
#### **Advantages:**

- 1. Can enter data directly from your WBS
- 2. Detailed task and subtask information
- 3. Budget, resources
- 4. Compute charts, tables
- 5. Easily can create Gantt, PERT, CPM

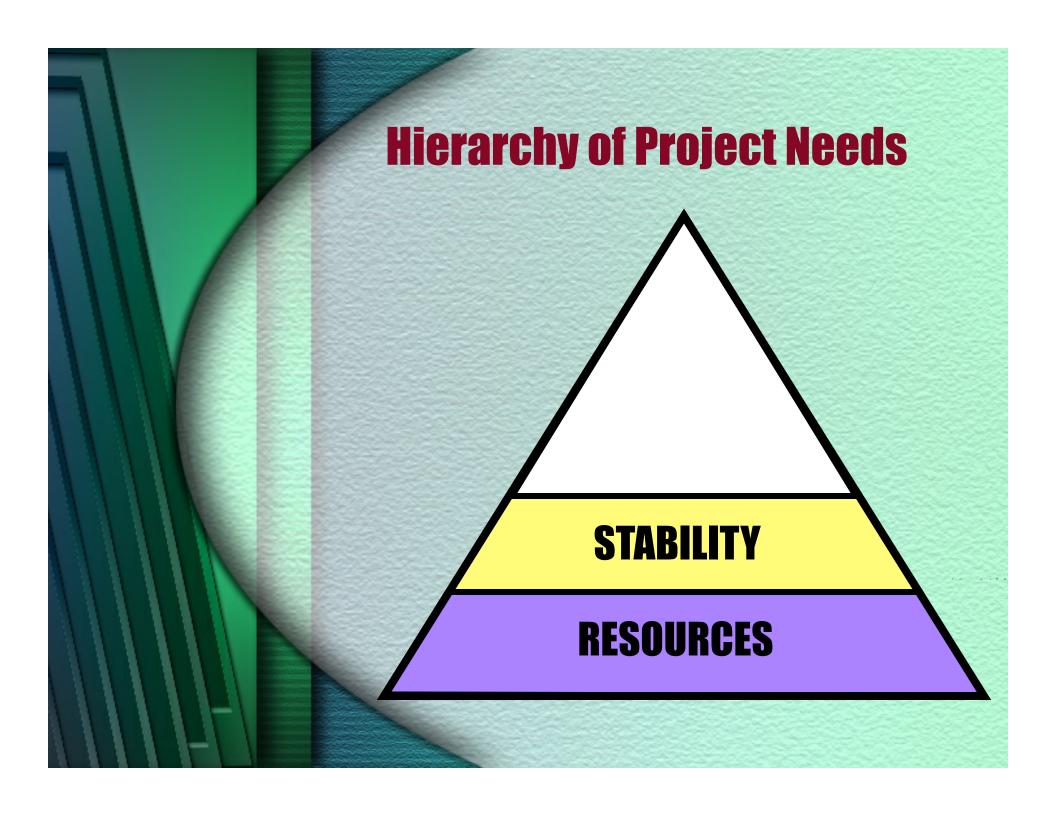


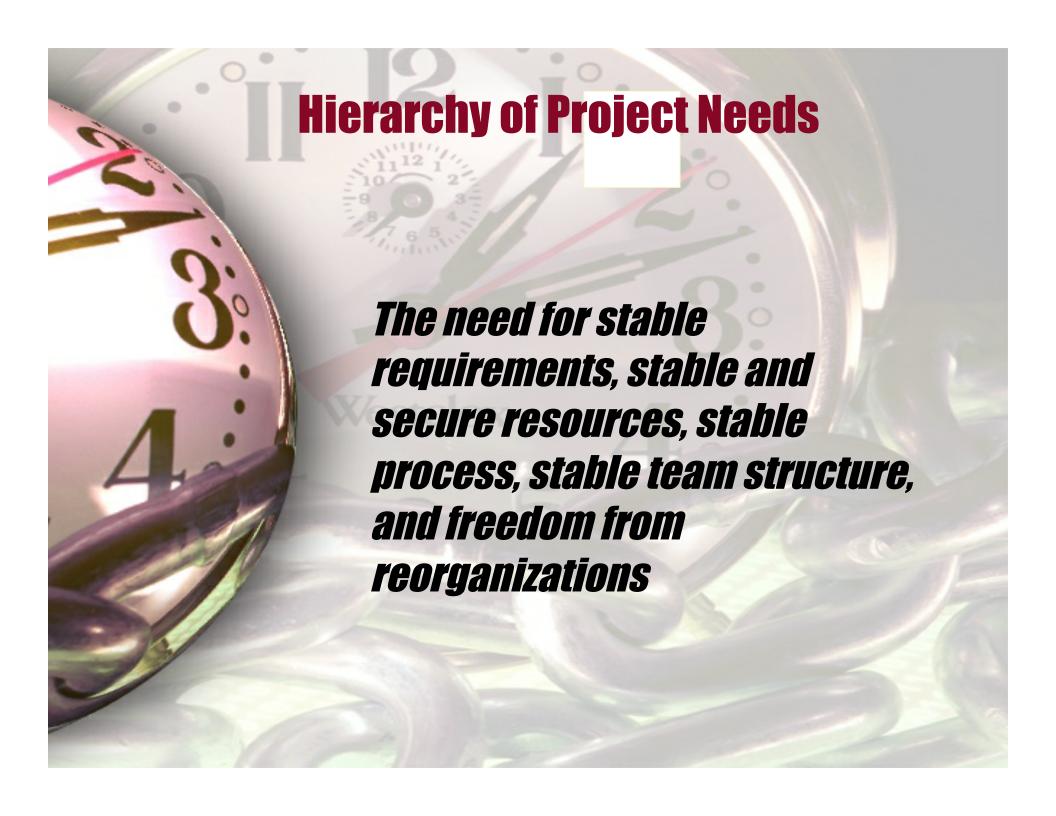
## Importance of Project Management Tools...

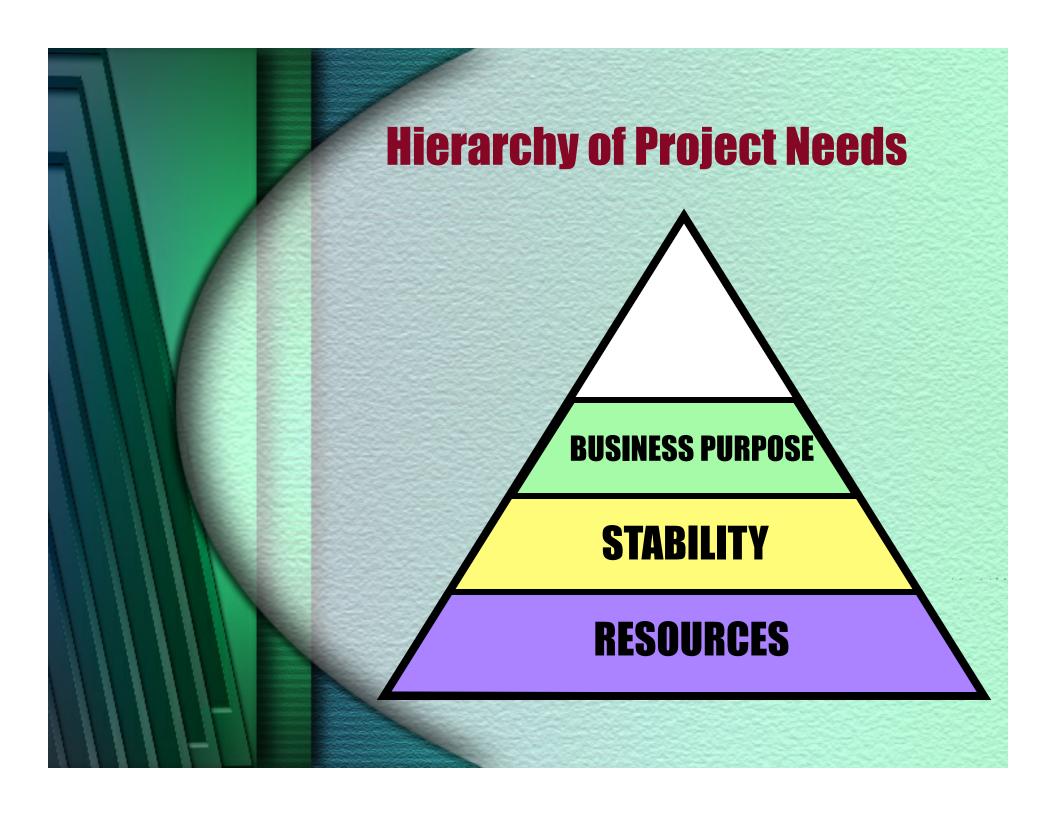
### You can know when you are off track



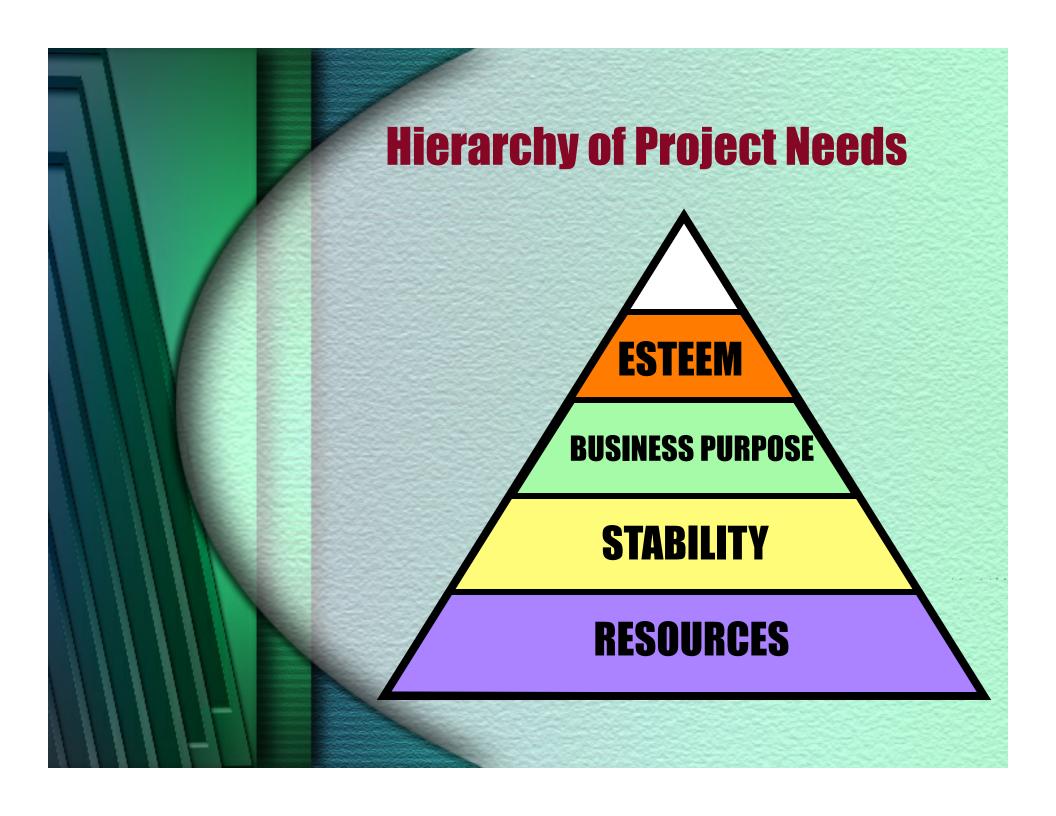




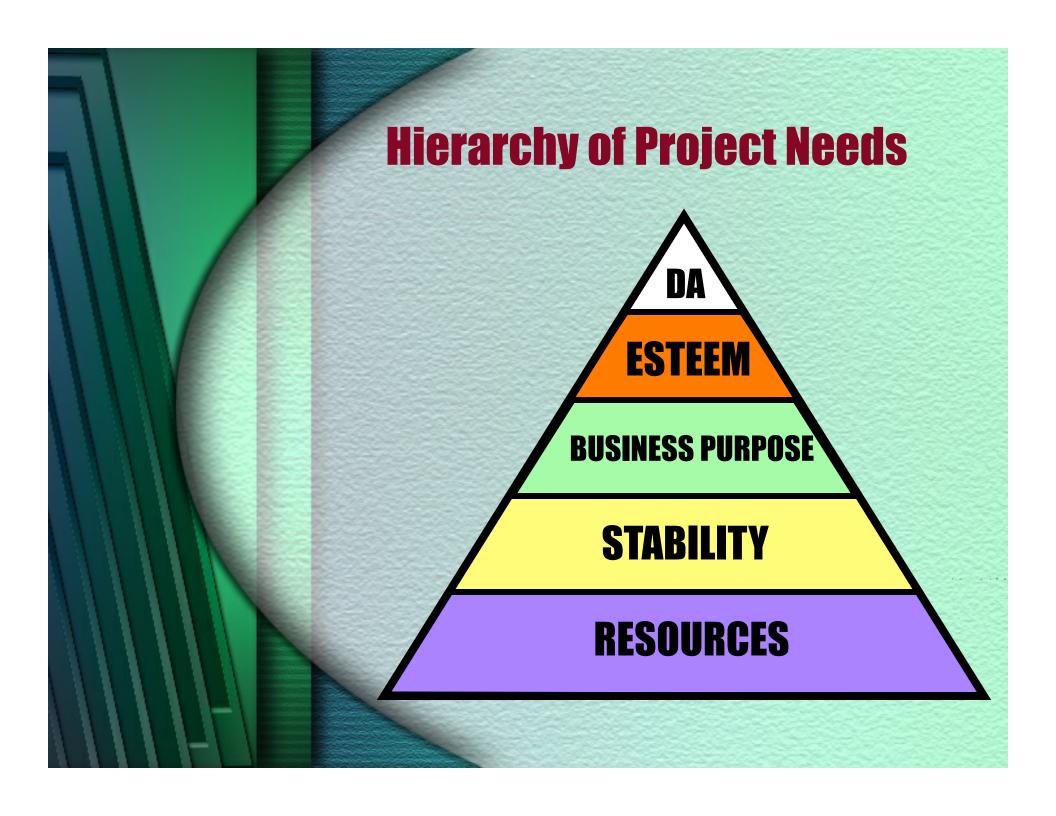




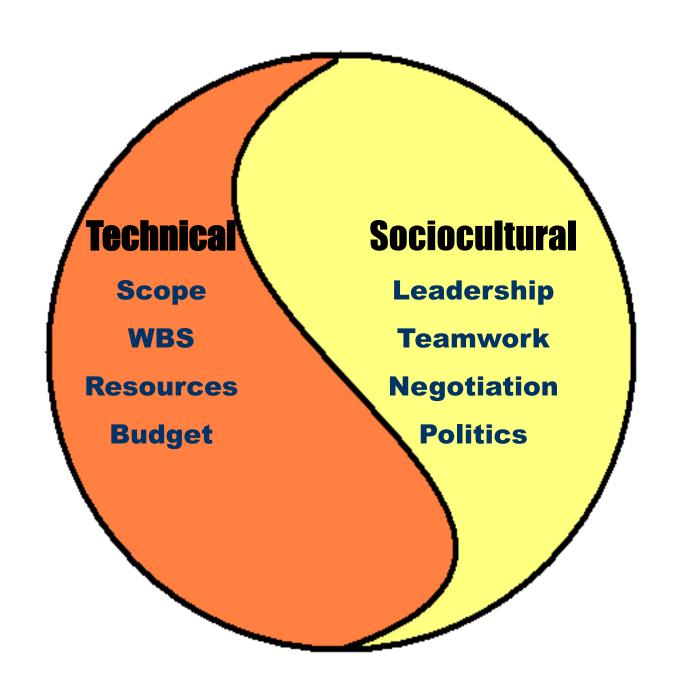














# Projects & People Projects & People



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### Project Team Issues

### (handout)



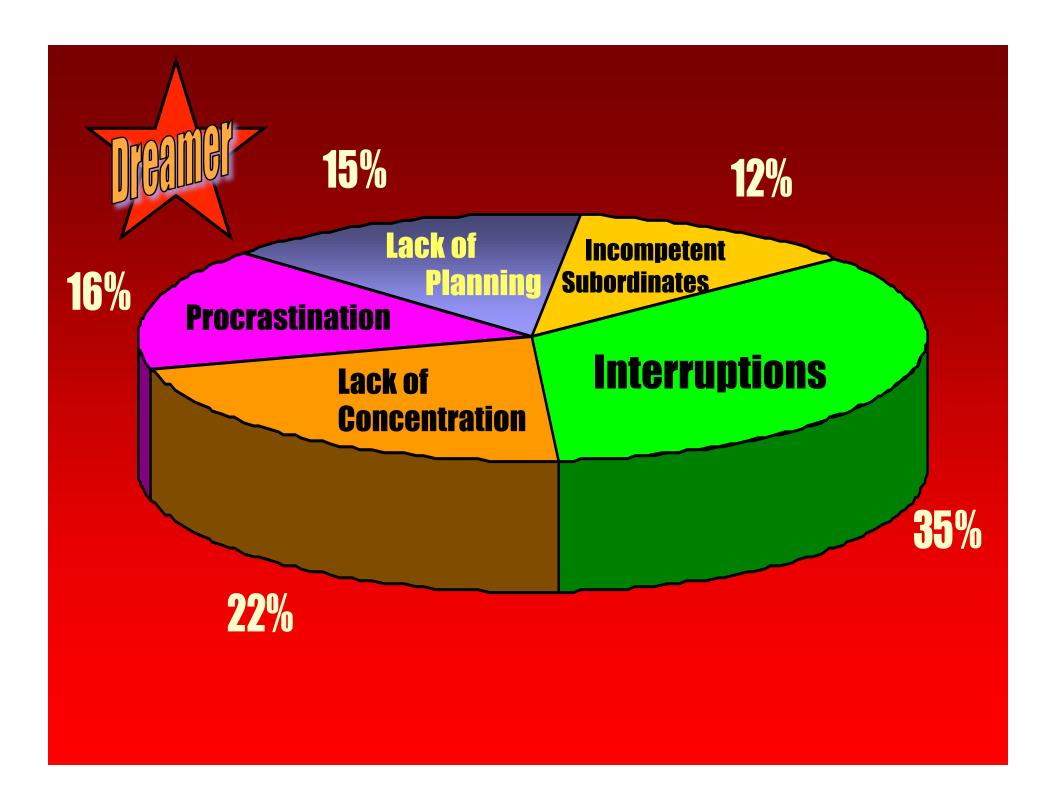
# The Team Charter



### Douglas' Dirty Dozen

- 1. Lack of planning
- 2. Lack of Staff
- 3. Incompetent subordinates
- 4. Unable to say no
- 5. Interruptions Drop-ins
- 6. Interruptions Telephone
- 7. Indecision
- 8. My procrastination
- 9. Forgetfulness
- **10. Meetings**
- 11. My perfectionism
- 12. Failure to delegate







activities

May procrastinate solitary yet important

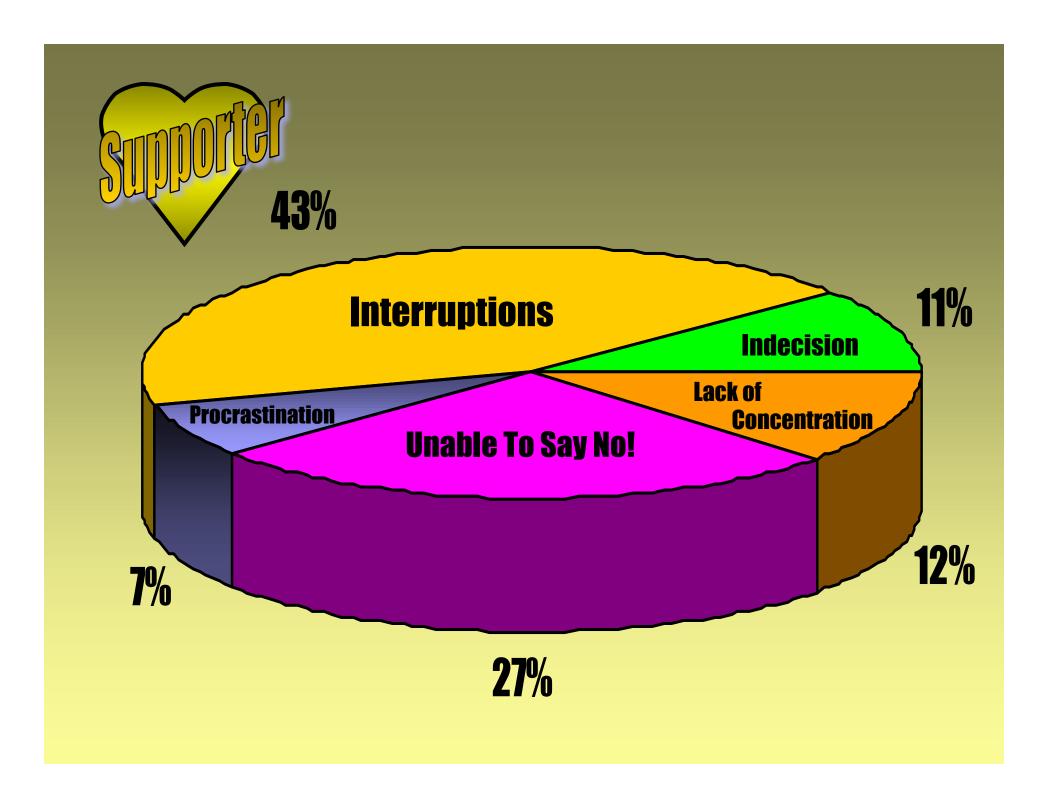
### Interacting With Dreamers



- Try to match their fast pace
- Accept with patience their spontaneity
- Plan to consider various options and approaches
- Budget time for personal information, anecdotes, jokes and stories

#### **You Will Create Friction By:**

- Focusing too much on plans and schedules
- Becoming too involved in minutiae
- Failing to consider all options
- Closing down discussion







- Their fear of offending others can limit their effectiveness
- Their inability to say NO results in them being overwhelmed
- May leave too little time to accomplish their own priorities
- They tend to procrastinate confrontational situations

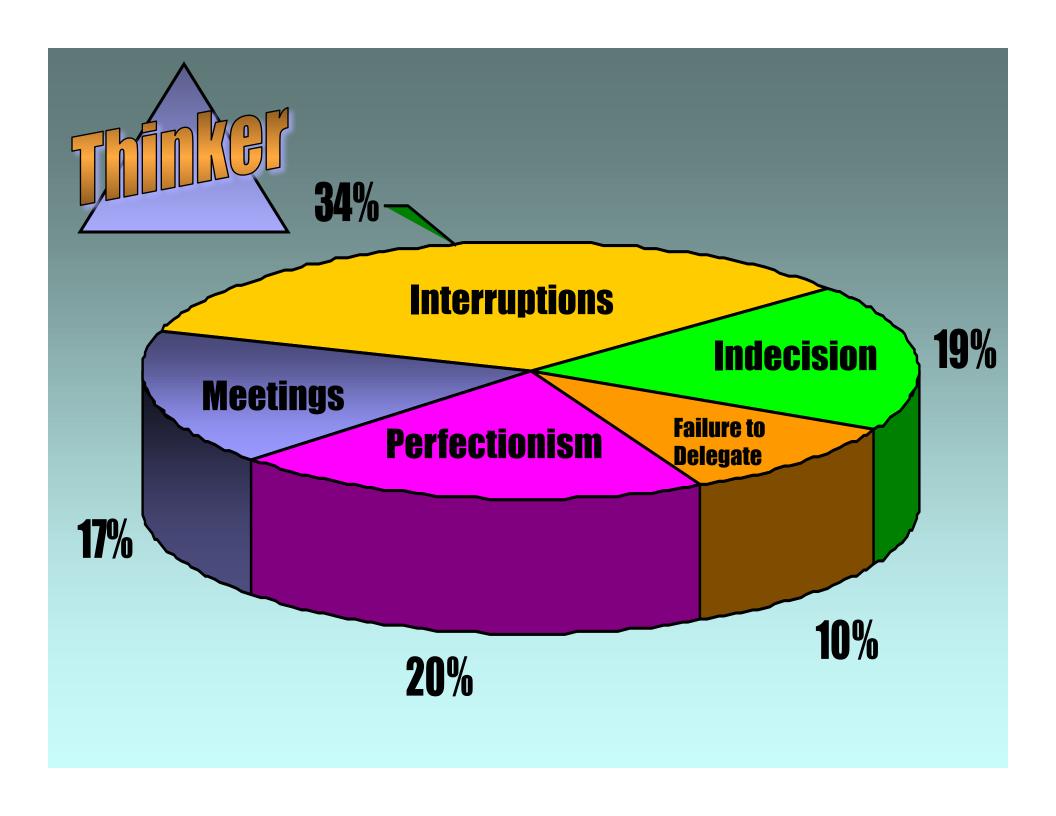
### Interacting With Supporters



- Take time to build trust and rapport
- Try to match their relaxed pace
- Take time to allow everyone to participate
- Stay with familiar ways of doing things
- Show a personal interest in them

#### **You Will Create Friction By:**

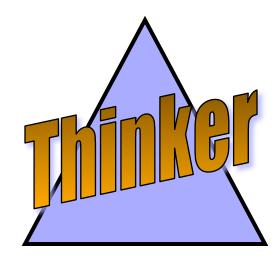
- Getting right down to business
- Making unilateral decisions
- Not allowing everyone to be heard
- Forcing them to participate in a threatening way





- Their perfectionism can be costly
- May become bogged down in detail
- They can lose sight of the goal
- May discount the value of meetings
- May procrastinate decision-making

### Interacting With Thinkers



- Provide time for questions
- Focus on facts rather than opinions
- Set and move the agenda in a linear or sequential manner
- Minimize personal stories and anecdotes

#### **You Will Create Friction By:**

- Not staying on topic
- Making decisions too quickly or based on emotion
- Not providing time for analysis
- Putting them on the spot in a group context

## Perfectionism







99.9%

12 newborns will be given to the wrong parents daily.



18,322 pieces of mail will be mishandled/hour.



2,000,000 documents will be lost by the IRS this year.



## 2.5 million books will be shipped with the wrong covers.



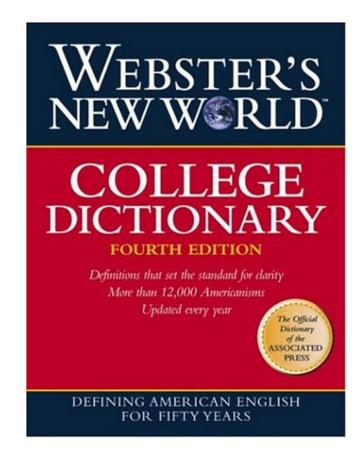
20,000 incorrect drug prescriptions will be written this year.



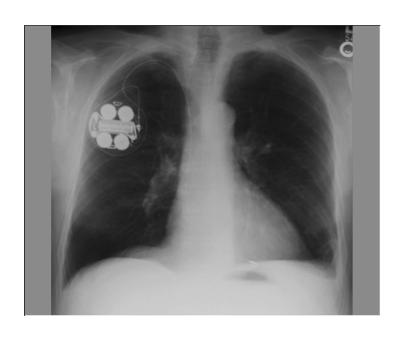
Two planes landing at Chicago's O' Hare airport will be unsafe every day.



315 entries in Webster's Dictionary will be misspelled.



291 pacemaker operations will be performed incorrectly.



880,000 credit cards in circulation will turn out to have incorrect cardholder information on their magnetic strips.



### If 99.9% were good enough, then:

3056 copies of tomorrow's Wall Street

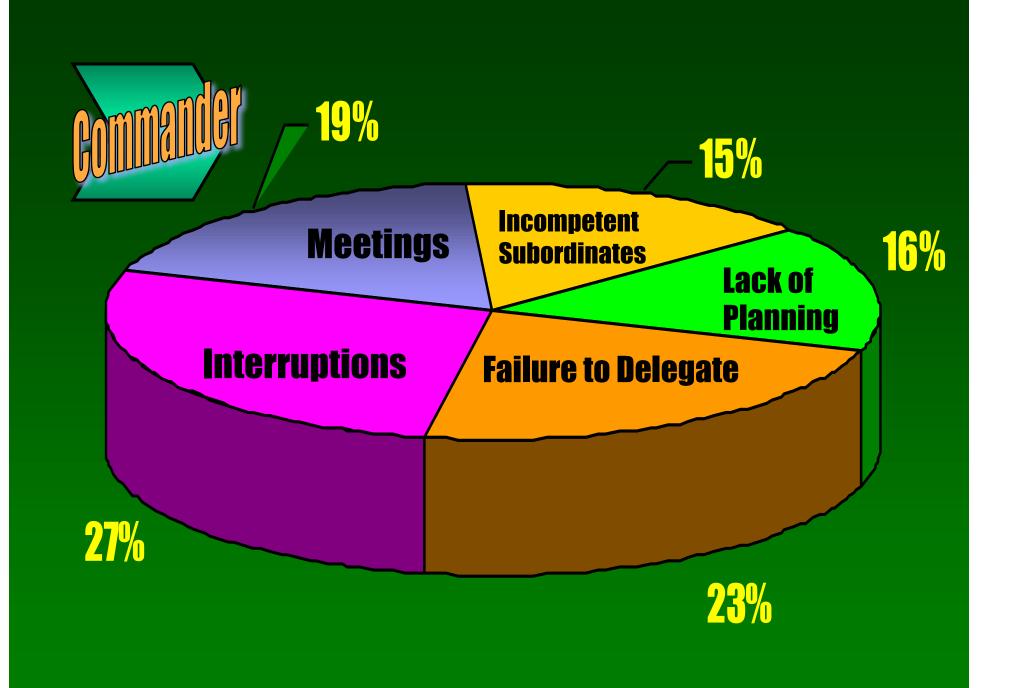
Journal will be missing one of the three sections.



### If 99.9% were good enough, then:

2,342 condoms will be shipped each month with holes in them





### Time/Project Management Weaknesses



- May discount interpersonal factors
- Their tendency to close down valuable input from others can result in poor decisions
- Their allergy to detail may result in their neglect of important details
- Their failure to delegate may result in them being overwhelmed or fixated on less critical matters

# Interacting With Commanders

- Cut to the chase
- Match their pace
- Focus on goals and objectives
- Avoid emotional appeals



### **You Will Create Friction By:**

- Focusing too much on process
- Lengthy discussion of alternatives
- Detailed data analysis
- Storytelling getting off target
- Brainstorming



## Philosophical Background: Theories X, Y, and Z

**Theory X Manager** 

A manager who believes that people are basically lazy and that coercion and threats of punishment often are necessary to get them to work.



## Philosophical Background: Theories X, Y, and Z

**Theory X Manager** 

**Theory Y Manager** 

■ "Laissez-faire"

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## Philosophical Background: Theories X, Y, and Z

**Theory X Manager** 

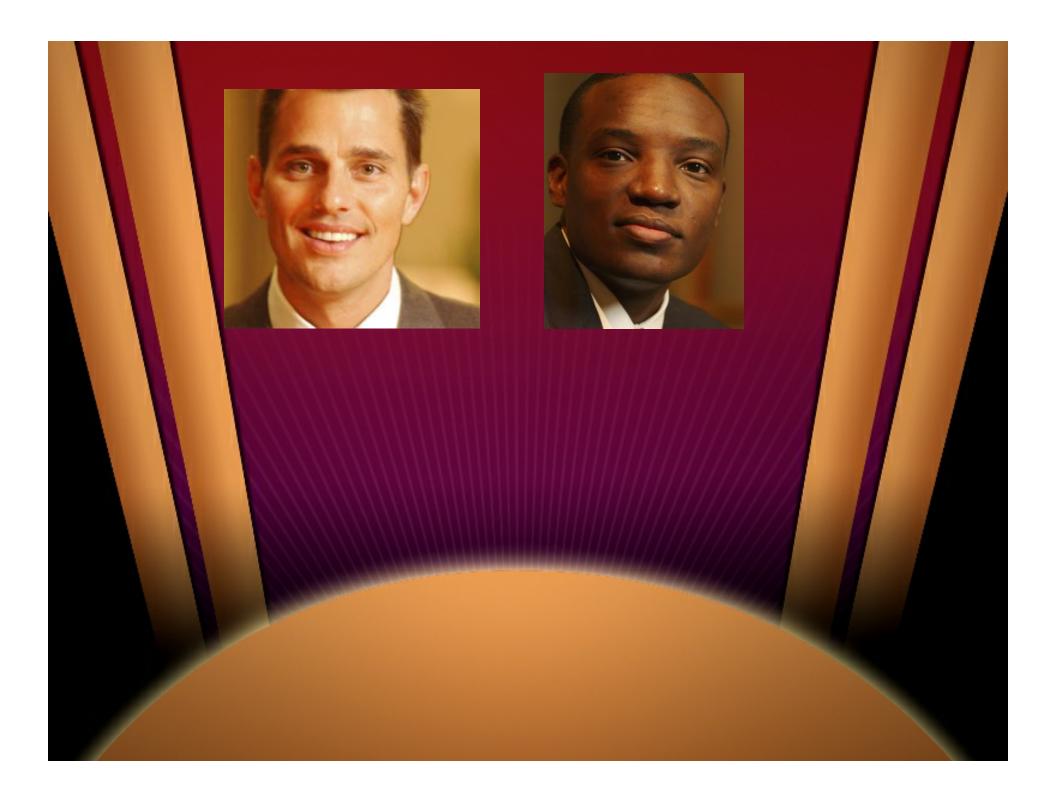
**Theory Y Manager** 

**Theory Z Manager** 

A manager who believes that workers seek opportunities to participate in management and are motivated by teamwork and responsibility sharing.

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# Talk About Performance

On three occasions this week you have been late for work. In the past however, the team has always been able to count on you for on time performance."







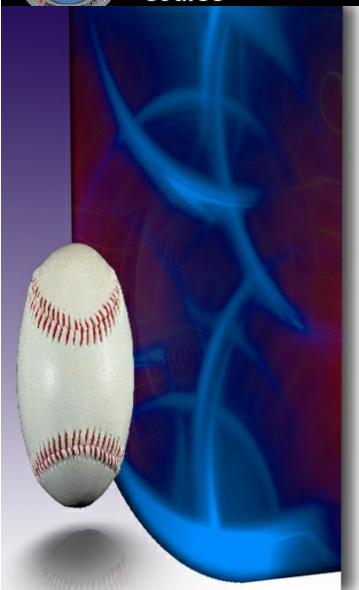
## Identify How The Behavior Presents a problem

"When you are late it causes a delay in our production schedule. This delay has affected our ability to meet our on-time goal and improve our service to our customers."



## The World-Class Administrative Professional Course

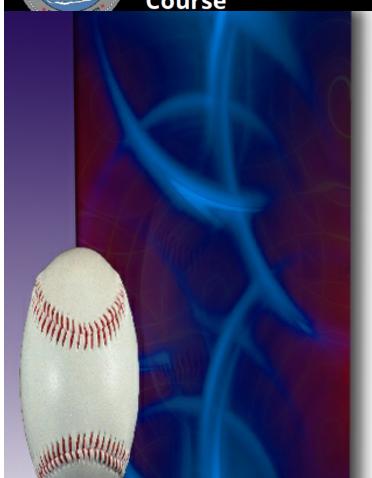




### **Solicit Inputs**

"Can you tell me why you had trouble getting here on time this week"





### **Discuss Changes**

"In the future, what are your plan, your goals?"

*7.* =





### Clarify How You Can Help

"Michael, is there any way I can help you in meeting this objective."







# Agree On An Action Plan

"Can we agree that you will make a special effort to be here by 9:00 am each morning."

"I will expect you to report to my assistant each morning."







### **Schedule Follow-Up**

"How about we meetup for coffee each Monday at 8:00 am for the next three weeks, where we can review and see how things are going?"



### The World-Class Administrative Professional





### **Reaffirm and validate**

"Michael, you have done a great deal for this company and your contribution is appreciated. Michael, when this matter is put away you can continue to have a great career here."

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# 

# DELEGATION AND EMPOWERMENT

Teamwork is all about passing power over to the working teams, so they can get on with what they have to do, without having to constantly refer to higher levels within the organization



# Teams vs. Workgroups

#### Workgroup

- 1. Individuals do what they are told
- 2. Focus on individual accountability
- 3. Compete for individual performance approval
- 4. Speak as individuals
- 5. Span of control relatively small

#### **Team**

- 1. Individuals consulted on what to do
- 2. Focus on mutual accountability
- 3. Team members deliberate on how to better contribute to organization
- 4. Speak as team members open ended conversations
- 5. Span of control relatively large

























# General Mills – Increased Productivity 40%



### General Mills – Increased Productivity 40%

FedEx – Reduced Service Costs 13%





### General Mills - Increased Productivity 40%

FedEx – Reduced Service Costs 13%





Volvo – Reduced Defects By 90%



### General Mills - Increased Productivity 40%

FedEx – Reduced Service Costs 13%





Volvo - Reduced Defects By 90%

Carrier – Reduced turned around time from 2 Weeks to 2 days





### General Mills - Increased Productivity 40%

FedEx – Reduced Service Costs 13%





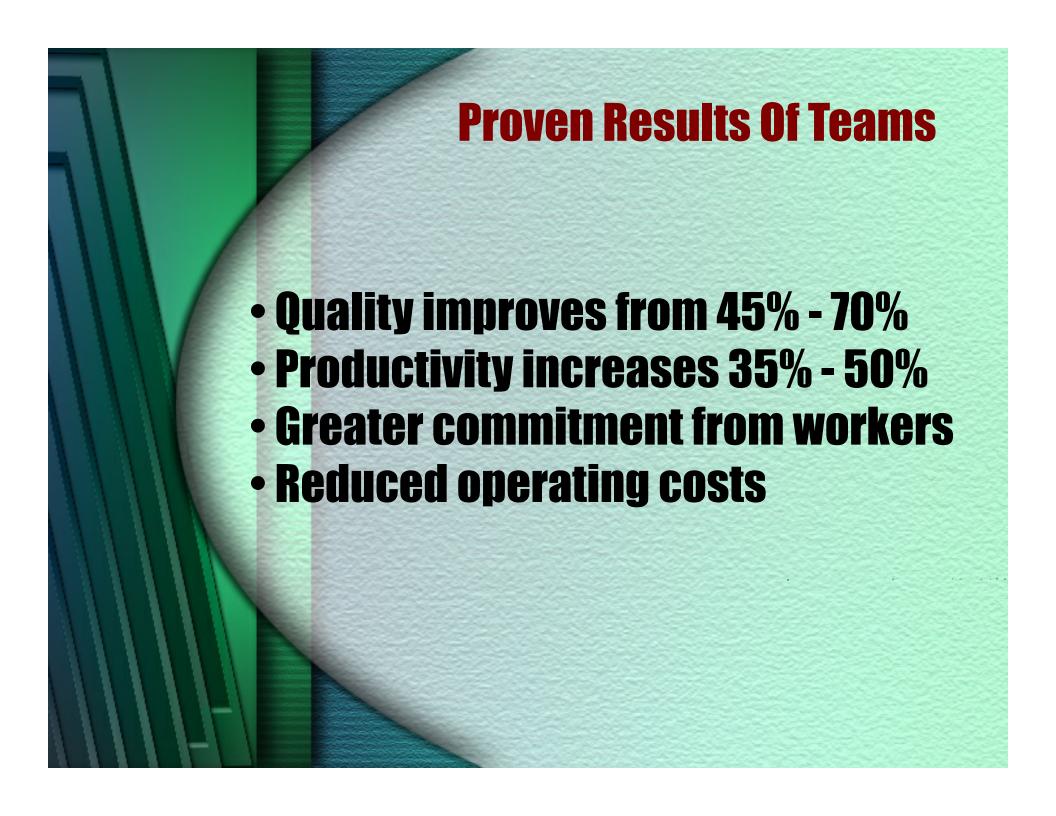
Volvo - Reduced Defects By 90%

Carrier – Reduced turned around time from 2 Weeks to 2 days





General Electric - Increased Productivity 250%





### **Business Week**

"Companies are willing to undergo a radical change in the way they do business so they can enjoy their workers commitment and expertise and so they can enjoy productivity increases, that in some cases exceed 30%"



**INVOLVEMENT** 

# **Commitment As A Function Of Involvement**

1.0

**Hall & Williams** 

**INVOLVEMENT** 



**INVOLVEMENT** 



- 1. Democratic leadership is employed
- 2. Flexible patterns of communication are used
- 3. A cooperative (vs. competitive) problemsolving approach to discussion is used
- 4. Members deal honestly and openly with each other
- 5. Decision techniques favor a sharing of responsibility

J. Hall & M.S. Williams, "A Comparison Of Decision-Making Performances in Established and Ad Hoc Groups *Journal of Personality and Social Psychology* Vol. 3, No. 2, pp 214-222

### **Proven Results Of Teams**

### **Organization**

- Quality improves from 45% 70%
- Productivity increases 35% 50%
- Greater commitment from workers
- Reduced operating costs

### **Employee**

- Feels in on things
- Feels challenged and empowered
- Job satisfaction increases
- Involved in decisions



### **Highly Effective Teams**

**A Definition** 

A team is a highly communicative group of people with different backgrounds, skills and abilities with a common purpose, who are working together to achieve clearly identified goals





- 1. HI SATISFACTION
  HI COMMUNICATION
- 2. HI SATISFACTION LO COMMUNICATION
- 3. LO SATISFACTION HI COMMUNICATION
- 4. LO SATISFACTION LO COMMUNICATION

PERFORMANCE

HI SATISFACTION HI COMMUNICATION

- 1. HI SATISFACTION
  HI COMMUNICATION
- 2. HI SATISFACTION LO COMMUNICATION
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- 4. LO SATISFACTION LO COMMUNICATION

HI SATISFACTION HI COMMUNICATION

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PERFORMANCE

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**LO COMMUNICATION** HI SATISFACTION

LO SATISFACTION LO COMMUNICATION





