

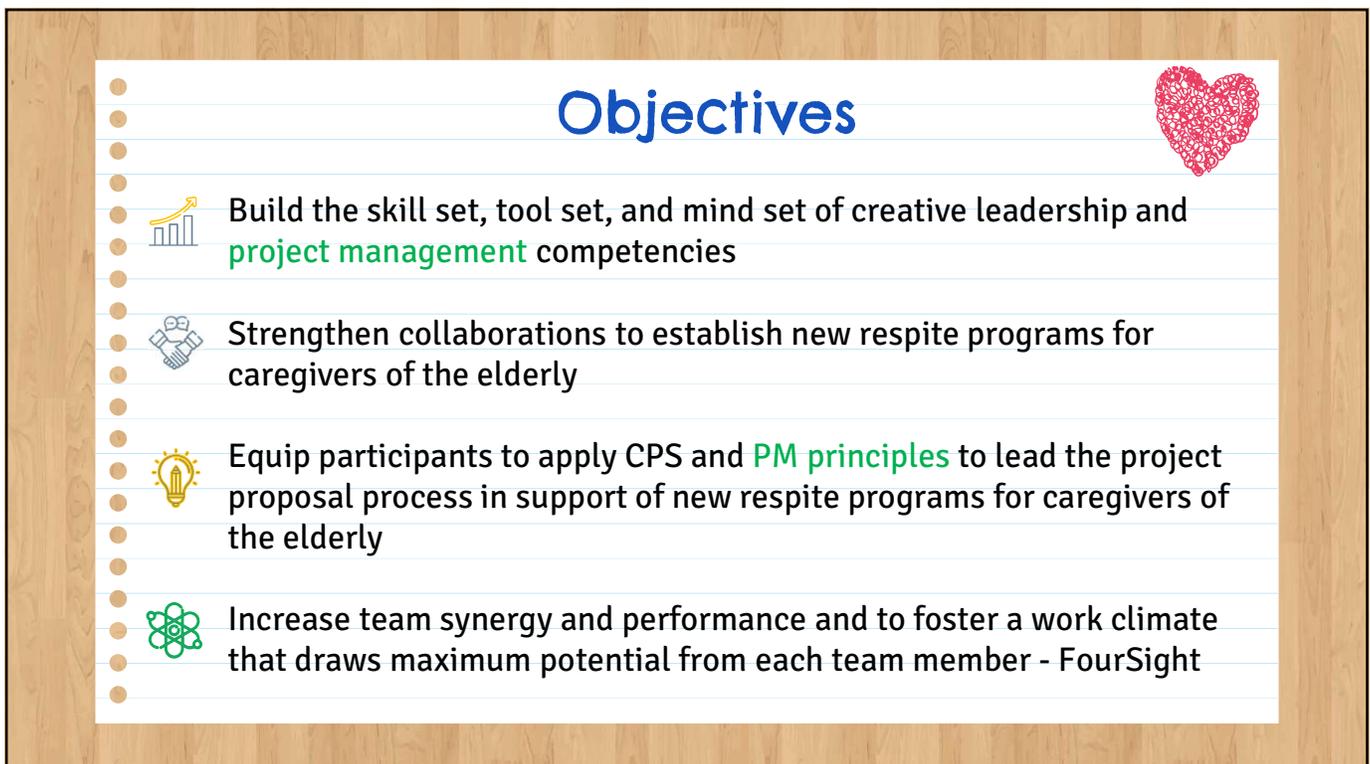
The slide features a wooden background with a white notepad-like paper pinned to it. A green pushpin is at the top left. In the top right corner, there is a yellow sticky note with the 'exhale' logo and the text 'THE FAMILY CAREGIVER INITIATIVE'. The main title 'Project Management Principles' is written in blue on the notepad. Below the title is a red wavy underline. The presenter's name, 'Teresa Lawrence, PhD, PMP, CSM', and the organization, 'Exhale', are centered below the title.

**exhale**  
THE FAMILY CAREGIVER INITIATIVE

# Project Management Principles

Teresa Lawrence, PhD, PMP, CSM  
Exhale

1



The slide features a wooden background with a white notepad-like paper pinned to it. The title 'Objectives' is written in blue at the top center. To the right of the title is a red heart icon made of small dots. Below the title are four bullet points, each with an icon and text. The icons are a bar chart with an upward arrow, two hands shaking, a lightbulb, and a molecular structure.

## Objectives

-  Build the skill set, tool set, and mind set of creative leadership and **project management** competencies
-  Strengthen collaborations to establish new respite programs for caregivers of the elderly
-  Equip participants to apply CPS and **PM principles** to lead the project proposal process in support of new respite programs for caregivers of the elderly
-  Increase team synergy and performance and to foster a work climate that draws maximum potential from each team member - FourSight

2

In your breakout room, share a little about how “projects” are managed in your organization.

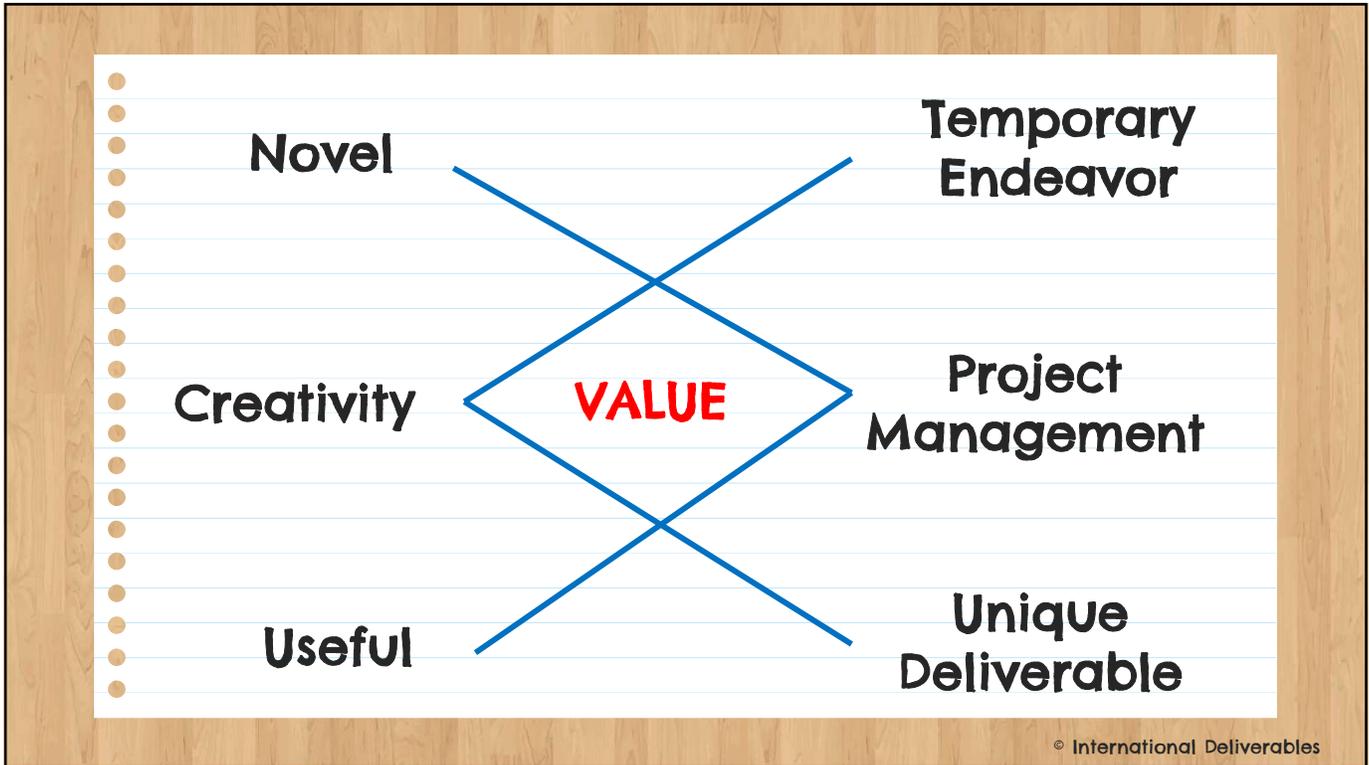
3

## Agenda

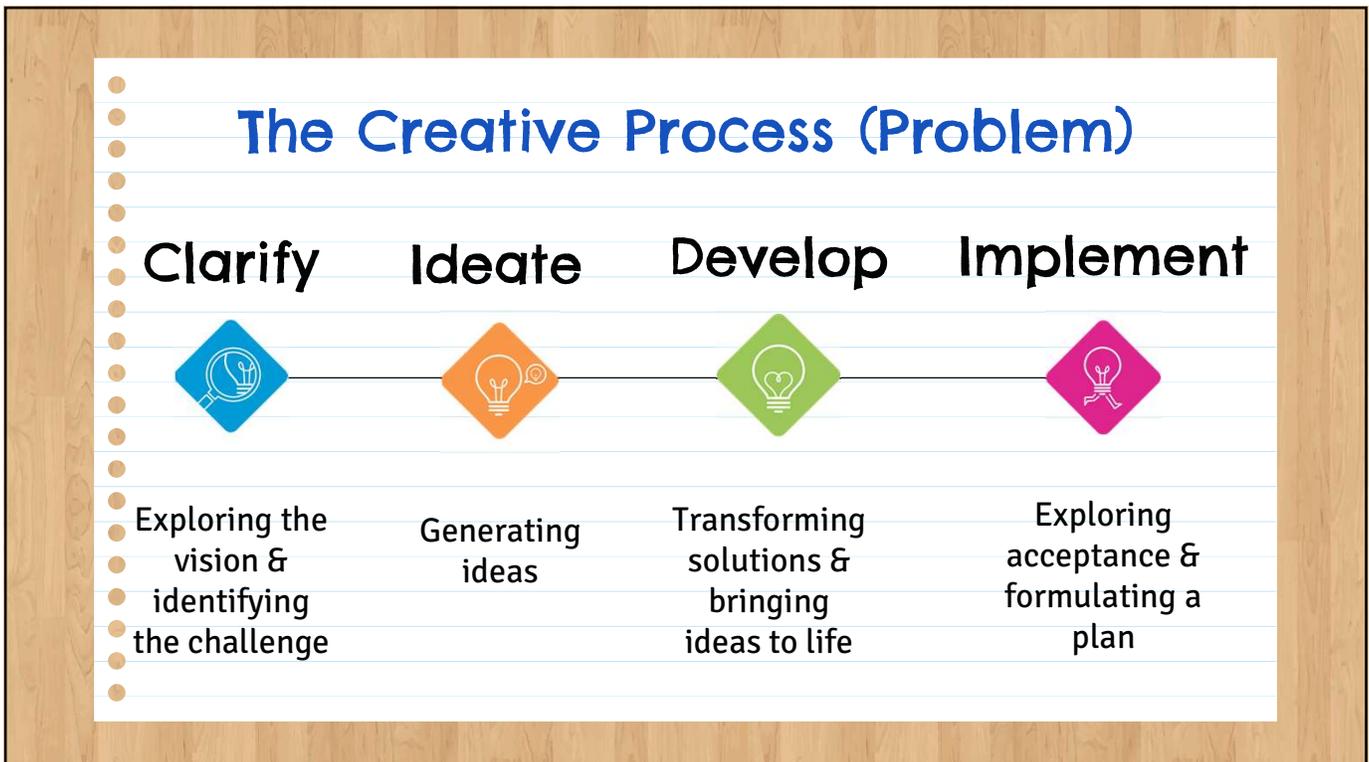


- A case for the intersection
- Project Management principles
- Applications to the proposal and new program idea
- Questions to consider

4



5



6

# TOOLS...and TECHNIQUES

<p style="text-align: center;"><b>CLARIFY</b></p> <p style="text-align: center;">Vision Boarding WIBNI Creative Questions</p> <p style="text-align: center;"><b>DEVELOP</b></p> <p style="text-align: center;">PPCO Paired Comparison Card Sort</p>		<p style="text-align: center;"><b>IDEATE</b></p> <p style="text-align: center;">Brainstorming Brainwriting Forced Connections Word Dance Excursion Scamper</p> <p style="text-align: center;"><b>IMPLEMENT</b></p> <p style="text-align: center;">Assisters/Resisters Sequencing</p>
---	--	--

Dynamic  
Balance

**Highlighting**

7

Project: A temporary endeavor undertaken to create a unique product, service or result.

---

Proposal

– PMI

New respite program

8

## Process Groups & Knowledge Areas

Initiating	Integration	Resources
Planning	Scope	Communications
Executing	Schedule	Risk
Monitor & Controlling	Cost	Procurement
Closing	Quality	Stakeholder

9



## Overarching Questions



- In what ways might this apply to your proposal?
- How might this shape your new respite program idea?
- How to use divergent and convergent thinking?
- How might you apply the CPS thinking tools?
- In what ways does this new information build on your current practices?
- What might be all the ways to apply this new information?

10

## The Intersection



The *World Economic Forum* identified **complex problem solving** as the #1 required workplace skill, **critical thinking** as #2 and **creativity** as #3, all by 2020.

11

## The Intersection



A survey by consulting giant *McKinsey & Co.* found that nearly 60% of senior executives said building a strong **project management** discipline is a top-three priority for their companies.

12

## The Intersection



In a 2018 article published by *PMI*<sup>®</sup>, veteran project managers were encouraged to sign up for courses on **creative** and **innovative** thinking in order to change their perspective on traditional **project management**.

13

## The Intersection



In the 20th *CEO Survey* from 2017, 67% of industry leaders saw **creativity** and **innovation** as very important to their organizations.

14

## The Intersection



In their 3<sup>rd</sup> global survey on the current state of project management, *PricewaterhouseCoopers* found that providing **project management** training contributed to an increase in business performance in project scope, quality, stakeholder satisfaction, business benefits and business growth.

15

## The Intersection



In 2010 the IBM Institute for Business Value conducted a study of 1500 CEO's world-wide in 60 countries and 22 industries. Those CEO's deemed **creativity** as the single most important leadership competency.

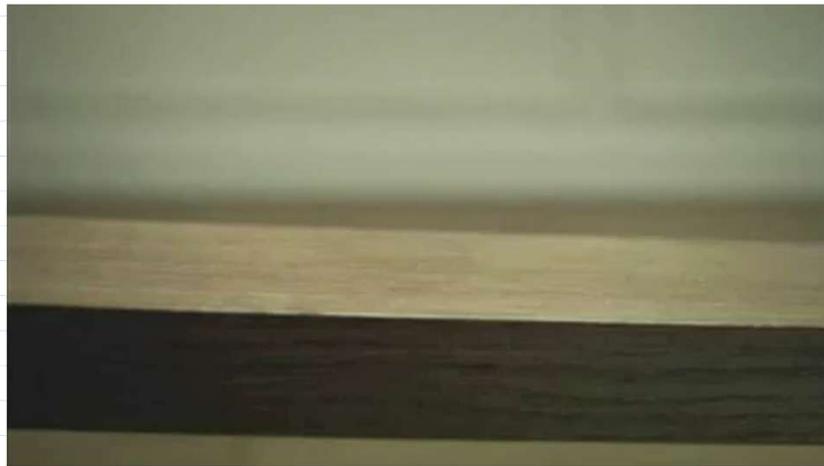
16

## One versus Two

- Watch the two videos.
- In your groups, compare how the two videos represent how projects might be completed.
- What generalizations and insights might you make?

17

## One versus Two



18

## One versus Two



19

## One versus Two

- Watch the two videos.
- In your groups, compare how the two videos represent how projects might be completed.
- What generalizations and insights might you make?

20

## Where are projects found?



21

## Process Groups & Knowledge Areas

Initiating	Integration	Resources
Planning	Scope	Communications
Executing	Schedule	Risk
Monitor & Controlling	Cost	Procurement
Closing	Quality	Stakeholder

22

## Estimates

Highly accurate...time consuming and labor intensive.

### Analogus (Top Down)

Using actual information from a similar activity on this or another project.

### Parametric

Using historical information on linear or scalable activities.

### T-Shirt Sizing

### Three-Point Estimates

Estimating averages of worst-case (P), best-case (O), and most realistic (R) estimates.

### Bottom Up

Using a separate estimate for each activity and aggregating up.

23

## Organizational Process Assets (OPAs)



The plans, templates, processes, policies, procedures, lessons learned and knowledge base specific to, developed and adopted by, and used by, the organization.

24

## Organizational Process Assets (OPAs)

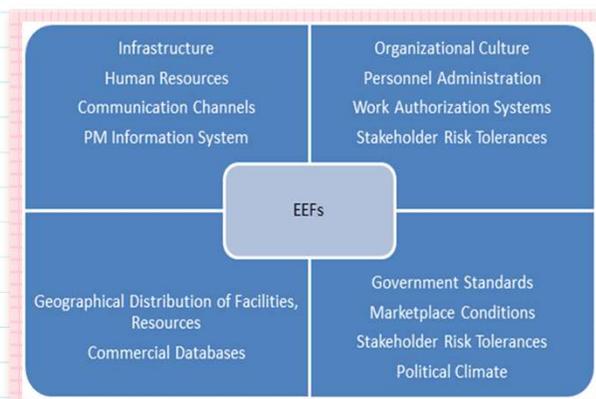


Reporting systems, project templates, resources used, correspondence, file-naming conventions, PM plans and project document, registers, lessons learned.

25

## Enterprise Environmental Factors (EEFs)

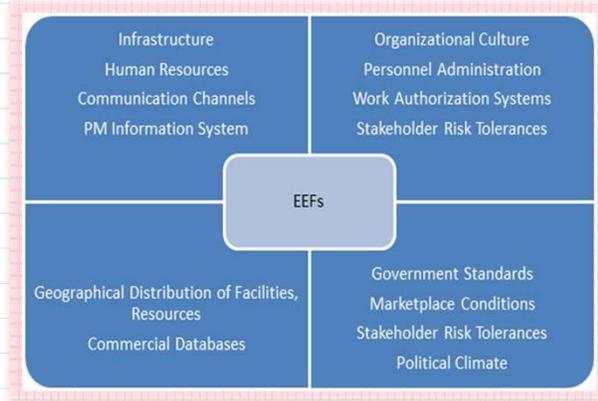
The internal, external, tangible, intangible factors influencing the project...conditions outside the control of the project team.



26

# Enterprise Environmental Factors (EEFs)

- Government rules and regulations, structure, culture, geographic location of the organization, available technology and resources.



27

# Tools & Techniques Output (ITTOs)



What will I have when I am done.. What am I trying to achieve...

Outputs



Inputs

Tools and Techniques

What do I need before I can...

What is the best/most appropriate tool or technique I should use...

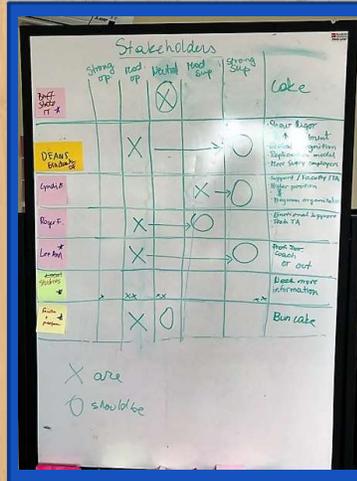
28

# In Practice

What is the best/most appropriate tool or technique I should use...



What do I need before I can....



Stakeholder Register						
Project Manager	Anthony Dawkins	Project Phase		Initiation		
Role	Contact	Category	Interest	Influence	Expectations	Comms requirements
Sponsor	Phone - +51 4834467651 Email: john.matthew@gmail.com	Internal	●●●●	●●●●	User friendly and responsive UI across handheld device, tablet or desktop	Video Conference and Email
Project Lead	Phone - +51 4785739580 Email: luke.wilson@gmail.com	Internal	●●●●	●●●●	Project to be delivered on time within budget	Email and Telephone
Product Manager	Phone - +51 9923535534 Email: gerald.pugh@gmail.com	Internal	●●●●	●●●●	Clear Requirements and timely completion of documentation	Email and Telephone
PMO	Phone - +55 9542533152 Email: tasha.barker@gmail.com Phone - +44 5071512134 Email: nicola.abbott@gmail.com	Internal	●●●●	●●●●	Project to be delivered on time within budget Timely approvals to be obtained	Email and Telephone
Dev Manager	Phone - +51 9852425034 Email: disha.sharma@gmail.com	Internal	●●●●	●●●●	Develop responsive UI	Email and Telephone
QA Manager	Phone - +51 485465621 Email: jim.athur@gmail.com	Internal	●●●●	●●●●	UI is responsive No quality issues Branding is maintained Changes should not affect the update of the system No memory spikes	Email and Telephone
Infrastructure Team Lead	Phone - +51 485465621 Email: jim.athur@gmail.com	Internal	●●●●	●●●●		Email and Telephone

What will I have when I am done..  
What am I trying to achieve....

## Process Groups & Knowledge Areas

Initiating

Integration

Resources

Planning

Scope

Communications

Executing

Schedule

Risk

Monitor & Controlling

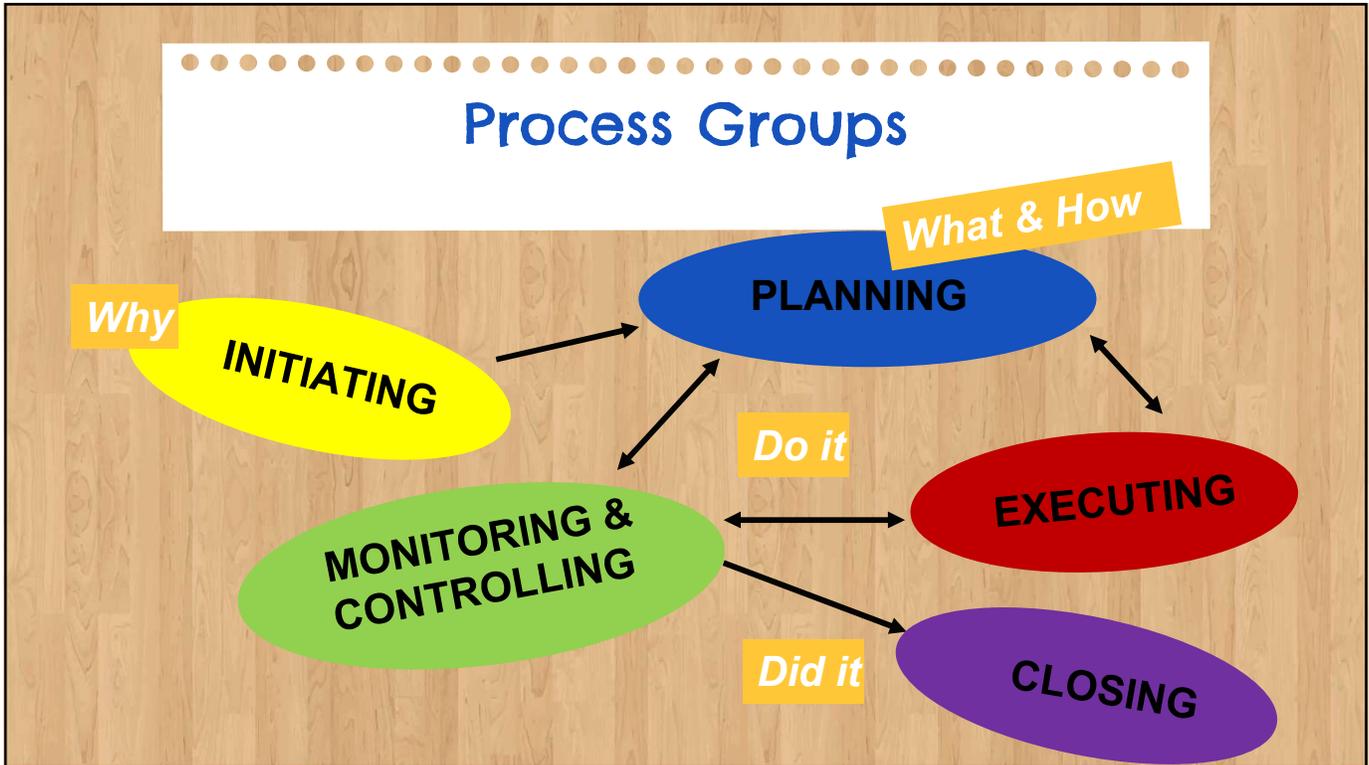
Cost

Procurement

Closing

Quality

Stakeholder



31

## Process Groups

- **Initiating:** Visioning and authorizing the project
- **Planning:** Defining and refining project objectives
- **Executing:** Coordinating people and resources to carry out the project
- **Controlling:** Ensuring objectives are met and adjusting when needed
- **Closing:** Formulating the acceptance and closure of the project

### TOOLS and TECHNIQUES

<b>CLARIFY</b> Vision Boarding WIWHI Creative Questions	<b>IDEATE</b> Brainstorming Brainwriting Forced Connections Word Dance Excursion Scamper
<b>DEVELOP</b> PPCO Paired Comparison Card Sort	<b>IMPLEMENT</b> Assisted Registers Sequencing

Highlighting

32

## Knowledge Areas



Cover the 10 core components of projects  
 Provide a framework  
 Not every project will employ all the knowledge areas  
 When considered and applied in practice across the process groups, project success increases

33

## Process Groups & Knowledge Areas

Initiating	Integration	Resources
Planning	Scope	Communications
Executing	Schedule	Risk
Monitor & Controlling	Cost	Procurement
Closing	Quality	Stakeholder

34

## Knowledge Areas

- **Integration Management** is the coordination of all elements of a project - tasks, resources, stakeholders, managing conflicts between different aspects of a project and making adjustments and trade-offs between competing requests and evaluating resources.
- **Scope Management** ensures a project's scope is accurately defined and mapped. Did we build the right thing?
- **Schedule Management** is the listing of activities, deliverables, and milestones within a project.



35

## Knowledge Areas

- **Cost Management** is the process of estimating, allocating, and controlling project costs.
- **Quality Management** is the degree to which the project fulfills requirements and satisfies the needs for which it was undertaken...Did we build the thing right?
- **Resource Management** identifies, acquires, and manages the resources needed for the successful completion of a project.
- **Communication Management** is a collection of processes that help make sure the right messages are sent, received, and understood by the right people.



36

## Knowledge Areas

- **Risk Management** works to increase the probability and/or impact of positive risks and to decrease the probability/impact of negative risks in a project.
- **Procurement Management** supports the purchase and acquisition of products, services or results needed from outside the project team.
- **Stakeholder Management** is the process by which systematically identify stakeholders; analyze their needs and expectations; and plan and implement various tasks to engage with them.



37

Tasks/activities/processes that hold the whole project together.

**Project  
Integration  
Management**

38

## Integration Management

- Outlining the project: Charter
- Coordinating the tasks that hold the whole project together
- Doing the work
- Managing the working
- Monitoring the work
- Adjusting
- Incorporating adjustments to the plan and work

39

**Project  
Charter**

**Formally  
outlines the  
existence of a  
project**

40

## Project Charter

- A high-level description of project deliverables and outlines project goals.
- It is an official document, which authorizes the project and gives project managers the authority to use all the available resources for the project. **No charter, no project.**
- In addition to describing the goals and deliverables, project charter also defines the key project stakeholders.
- The project charter provides a summary of the project and provides a shared understanding of the project.

41

## Charter: A Project Roadmap

- ✿ Business need - Context...why the need and what's the rationale?
- ✿ Project Sponsor - Who is the lead and has authority to embark on this pilot?
- ✿ Project name - What are we calling this new respite project?
- ✿ 10K Scope - What will you create?
- ✿ 10K Cost - What budget information can you provide?
- ✿ 10K Timeline - What are the proposed start and end dates and milestones?
- ✿ 10K Risk - Any anticipated issues or known concerns?
- ✿ Assumptions - With whom will you collaborate?
- ✿ Project Success - How will you assess success of the pilot?

42

# Sample Charters

### Innovation Project Charter

Project Name: Operation Feeding Frenzy  
 Type of Innovation: Product/Service

Project Leader: T. Nichols  
 Innovation Champion: A. Mahoney  
 Methodology: D4  
 Degree of Innovation: Substantial  
 Date of Completion: Jan. 1, 2013

- Business Case:** Pikes Peak Coffee (PPC) has consistently delivered double-digit growth since its inception, except for the last three quarters. While growth in the number-one priority, we believe the coffee market is saturated in our region. Research shows that about 33% of our competitors' sales come from food products, and 30% of these products are sold in the morning. This project will explore growth opportunities in the hot breakfast food business.
- Key Assumptions to be Tested:**
  - 15% increase in revenue growth.
  - Unit price of \$4.95 for breakfast offering.
  - Per store average volume of 80 sales per day.
  - 40% contribution margin.
  - Revenue from beverage sales will not be diminished by new offering.
  - Customers will purchase breakfast from a coffee shop.
  - Capital expenditure will be recouped in six months.
  - New offering will not significantly impact coffee order cycle times.
  - New offering will be distinct from competitors.
- Job Statement:** Eat a healthy breakfast on the go.
- Customers:** External: Coffee drinkers who want a hot, healthy breakfast on the way to work (primary), athletes, parents, students (secondary). Internal: None.
- Unmet Outcome Expectations:**
  - Minimize the time needed to acquire breakfast in the busy morning.
  - Increase the likelihood of eating a healthy breakfast.
  - Increase the convenience of eating breakfast outside home.
  - Minimize the mess generated from eating breakfast.
  - Minimize the cost of buying breakfast out.
- Competing Solutions:**
  - Fast food chains that offer breakfast options.
  - Microwavable/homemade breakfast foods.
  - Smoothies (breakfast through a straw).
  - Restaurants that offer full-service, sit down breakfasts.
  - Hotels that include breakfast in the price of a room for travelers.
- Expected Financial Impact:**
  - 1st Qtr: \$750,000 Rev/\$300,000 net profit.
  - 2nd Qtr: \$1.2MM Rev/\$480,000 net profit.
  - 3rd Qtr: \$1.3MM Rev/\$520,000 net profit.
  - 4th Qtr: \$1.4MM Rev/\$560,000 net profit.
- Milestones/Timeline:**

Define	Scheduled	Actual
Discover	06-08-12	
Develop	07-30-12	
Demonstrate	09-15-12	
	01-01-13	
- Project Investments:**

Define	\$5,000
Discover	\$7,000
Develop	\$10,000
Commercialization	\$30,000
Total	\$46,000
- Team:** M. Chalk, A. Jones, D. McDonald, S. Perkins, S. Gonzalez, D. Roberts, E. Roberts

No charter  
No project

### VALUE GENERATION PARTNERS

Project Name: \_\_\_\_\_  
 Project Sponsor: \_\_\_\_\_  
 Impacted Business Department: \_\_\_\_\_

Project Description: \_\_\_\_\_

Project Goal: SMART \_\_\_\_\_

Project Scope: In Scope \_\_\_\_\_

Success Criteria: Metrics for \_\_\_\_\_

Project Concerns: Issues, Risk \_\_\_\_\_

Charter Approvals: Approval Date: \_\_\_\_\_

Project Sponsor: The person who sponsors the project and provides resources.

Project Manager: The person who leads the project team, develops and executes the project plan, and employs rigorous processes and methodologies.

Project Team: Those who bring relevant expertise from the business unit or organization to a particular project and carry out the work of the project.

Sample Project Charter and Scope Statement from Schwab's Information Technology Project Management, Third Edition, 2004.

Table 3-4. Project Charter

Project Title: Project Management Intranet Site Project  
 Project Start Date: May 2, 2005  
 Projected Finish Date: November 4, 2005

Budget Information: The firm has allocated \$140,000 for this project. The majority of costs for this project will be internal labor. An initial estimate provides a total of 80 hours per week.

Project Manager: Erica Bell, (510)889-5896, erica\_bell@jpdconsulting.com

Project Objectives: Develop a new capability accessible on PWD Consulting's intranet site to help internal consultants and external customers manage projects more effectively. The intranet site will include several templates and tools that users can download, examples of completed templates and related project management documents used on real projects, important articles related to recent project management topics, article retrieval service, links to other sites with useful information, and an "Ask the Expert" feature, where users can post questions they have about their projects and receive advice from experts in the field. Some parts of the intranet site will be accessible free to the public; other parts will only be accessible to current customers and/or internal consultants, and other parts of the intranet site will be accessible for a fee.

Approach:
 

- Develop a survey to determine critical features of the new intranet site and solicit inputs from consultants and customers.
- Review internal and external templates and examples of project management documents.
- Research software to provide features such as security, managing user inputs, and the article retrieval and "Ask the Expert" capability.
- Develop the intranet using an iterative approach, soliciting a great deal of user feedback.
- Determine a way to measure the value of the intranet site in terms of reduced costs and new revenues and this information during the project and one year after project completion.

Name	Role	Position	Contact Information
Jac Fleming	Sponsor	PWD Consulting, CEO	jac_fleming@jpdconsulting.com
Erica Bell	Project Manager	PWD Consulting, manager	erica_bell@jpdconsulting.com
Michael Chen	Team Member	PWD Consulting, senior consultant	mic_chen@jpdconsulting.com
Kevin Fane	Team Member	PWD Consulting, senior consultant	kevin_fane@jpdconsulting.com
Kevin Dodge	Team Member	PWD Consulting, IT department	kevin_dodge@jpdconsulting.com
Cindy Dawson	Team Member	PWD Consulting, IT department	cindy_dawson@jpdconsulting.com
Kim Phang	Advisor	Client representative	kim_phang@client.com
Page Mills	Advisor	Client representative	page_mills@client.com

Comments: (Handwritten in typed comments from above stakeholders, if applicable) "I will support this project as time allows, but I believe my client projects take priority. I will have one of my assistants support the project as needed." -Michael Chen  
 "We need to be extremely careful testing this new system, especially the security in giving access to parts of the intranet site to the public and clients." -Kevin Dodge and Cindy Dawson

43

Charters

How might drafting a charter be of benefit to writing your proposal?

44

## Integration Management

- What might be all the ways to monitor progress along the way both in the proposal submission and pilot project implementation?
- How might you decide what changes to the pilot project are acceptable?
- There will be learning along the way that could be of assistance to you and/or other in future work and endeavors. What considerations will you give to capturing and sharing these insights?
- What existing practices might leverage and/or employ in your proposal and program implementation?

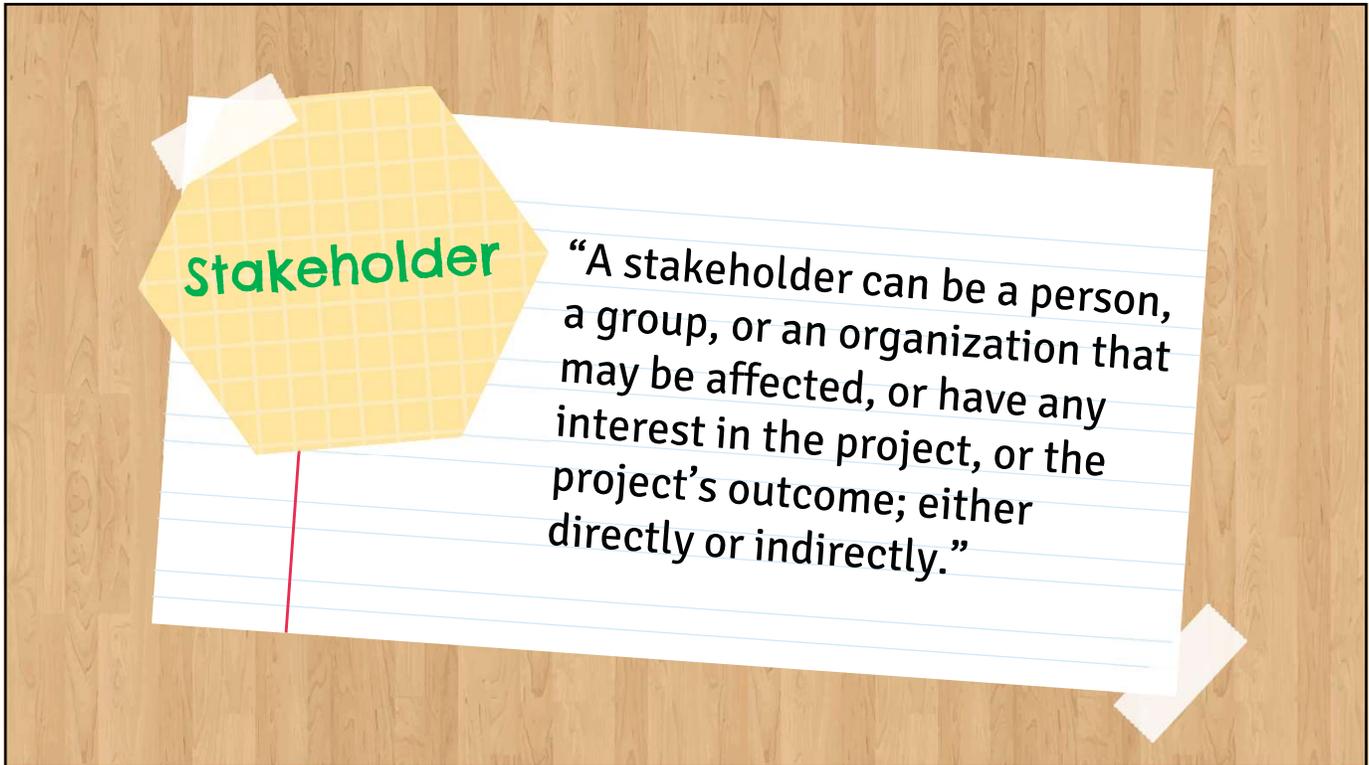
45

## Stakeholder Management

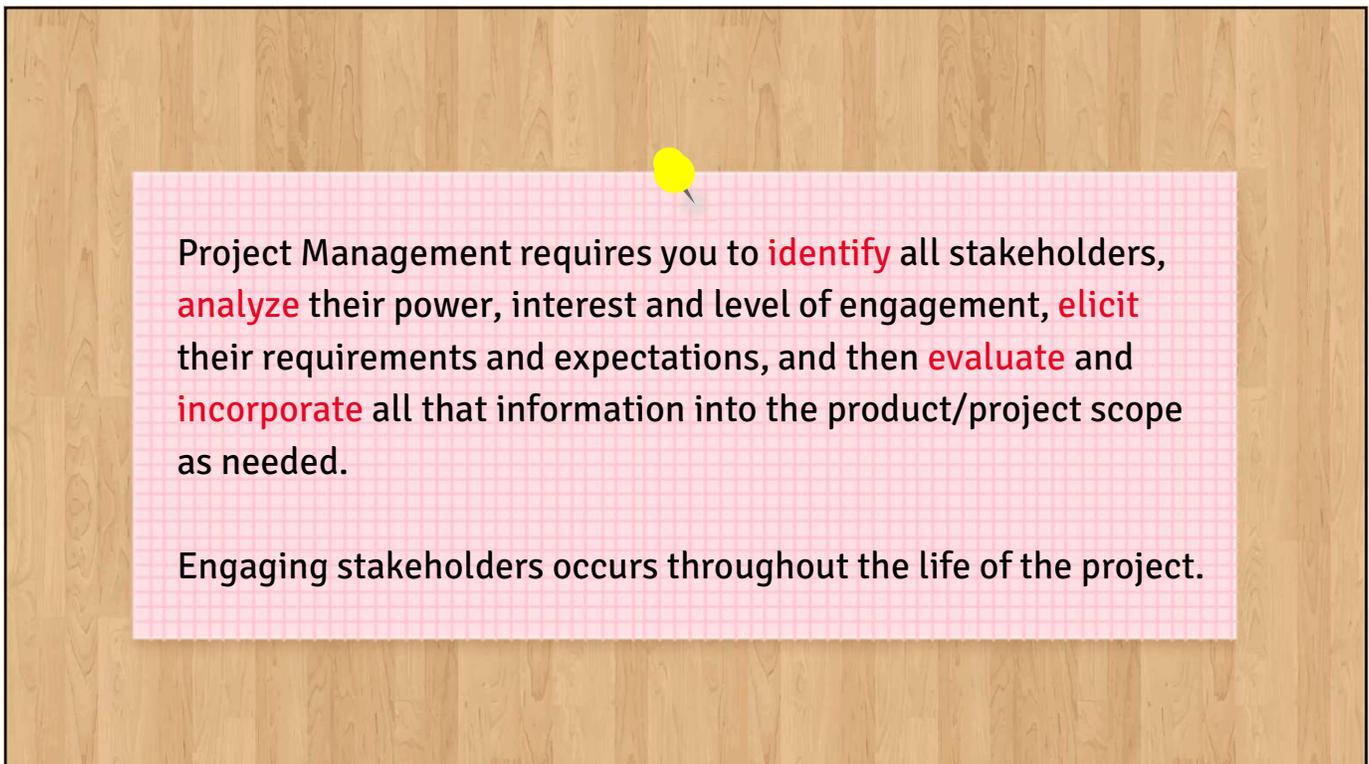


Knowing who the stakeholders are and actively managing their expectations.

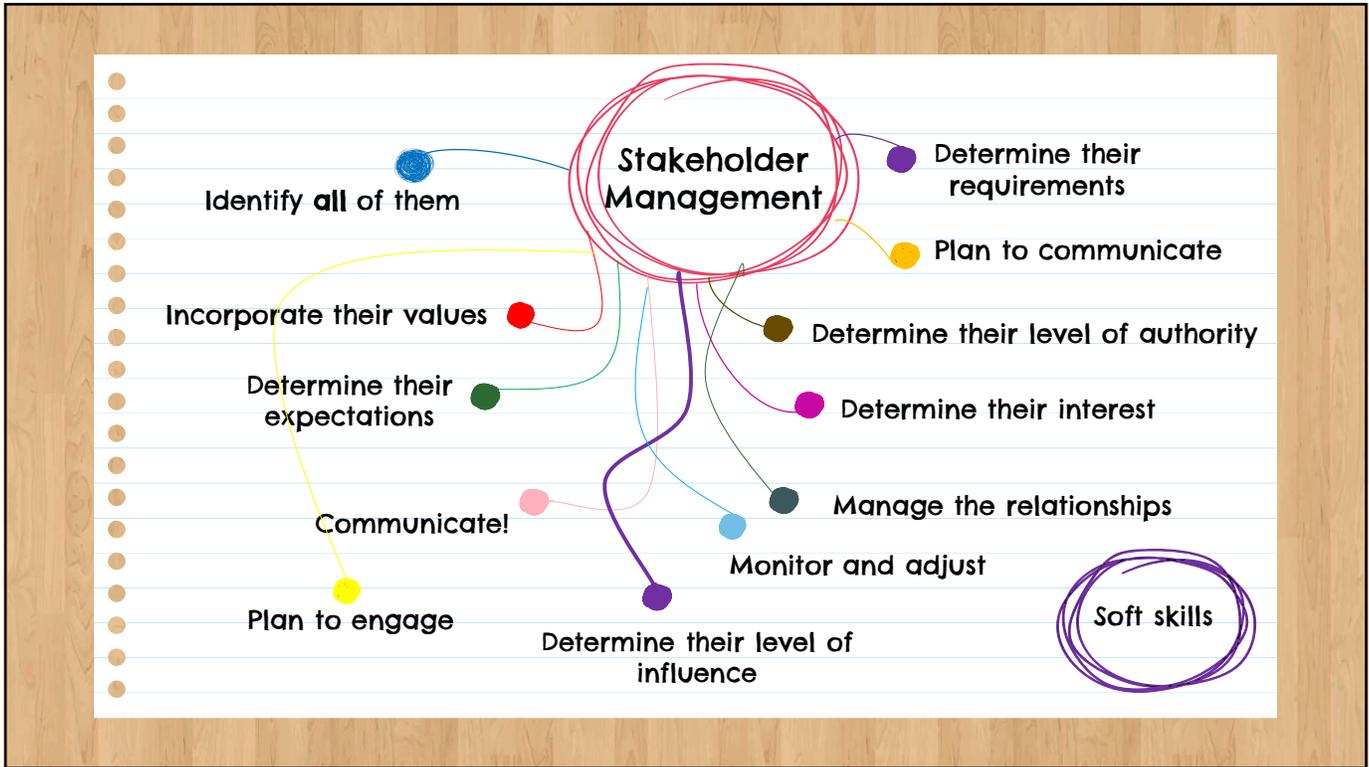
46



47



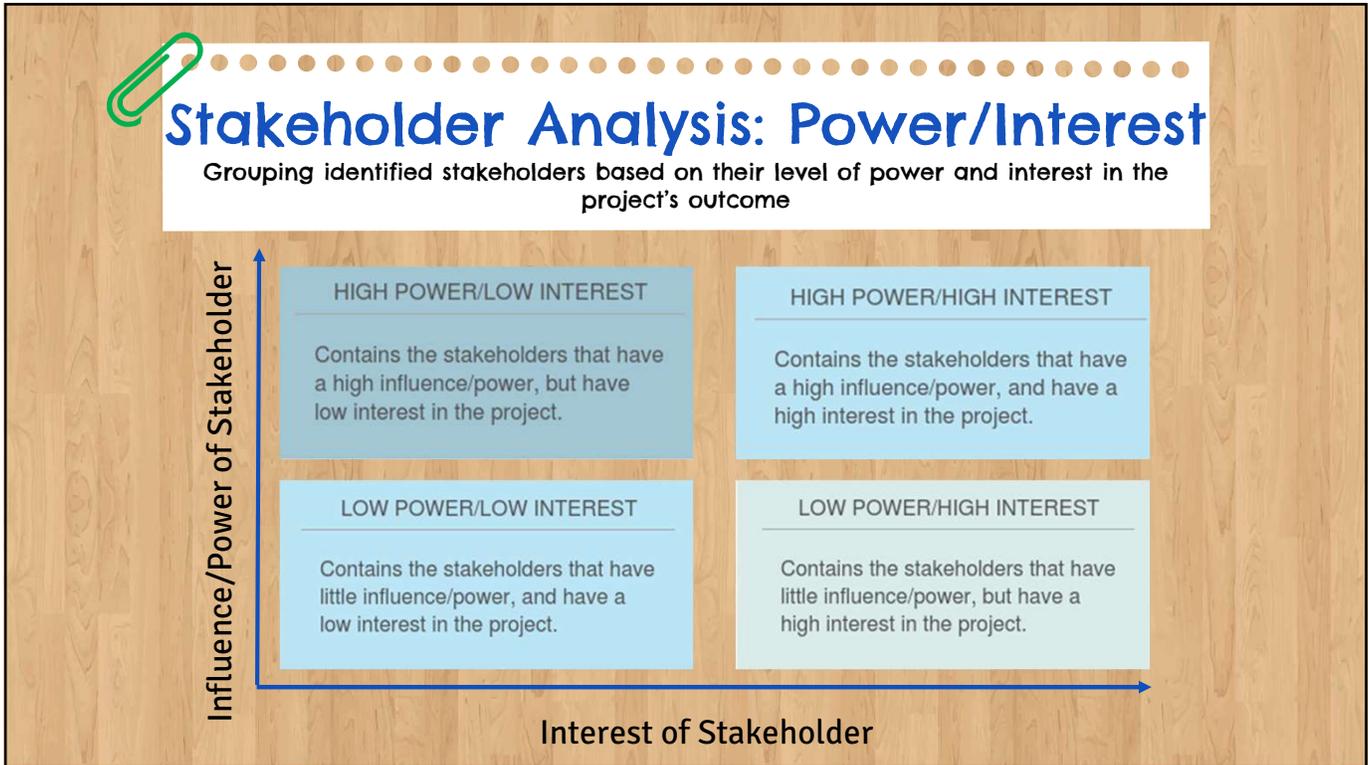
48



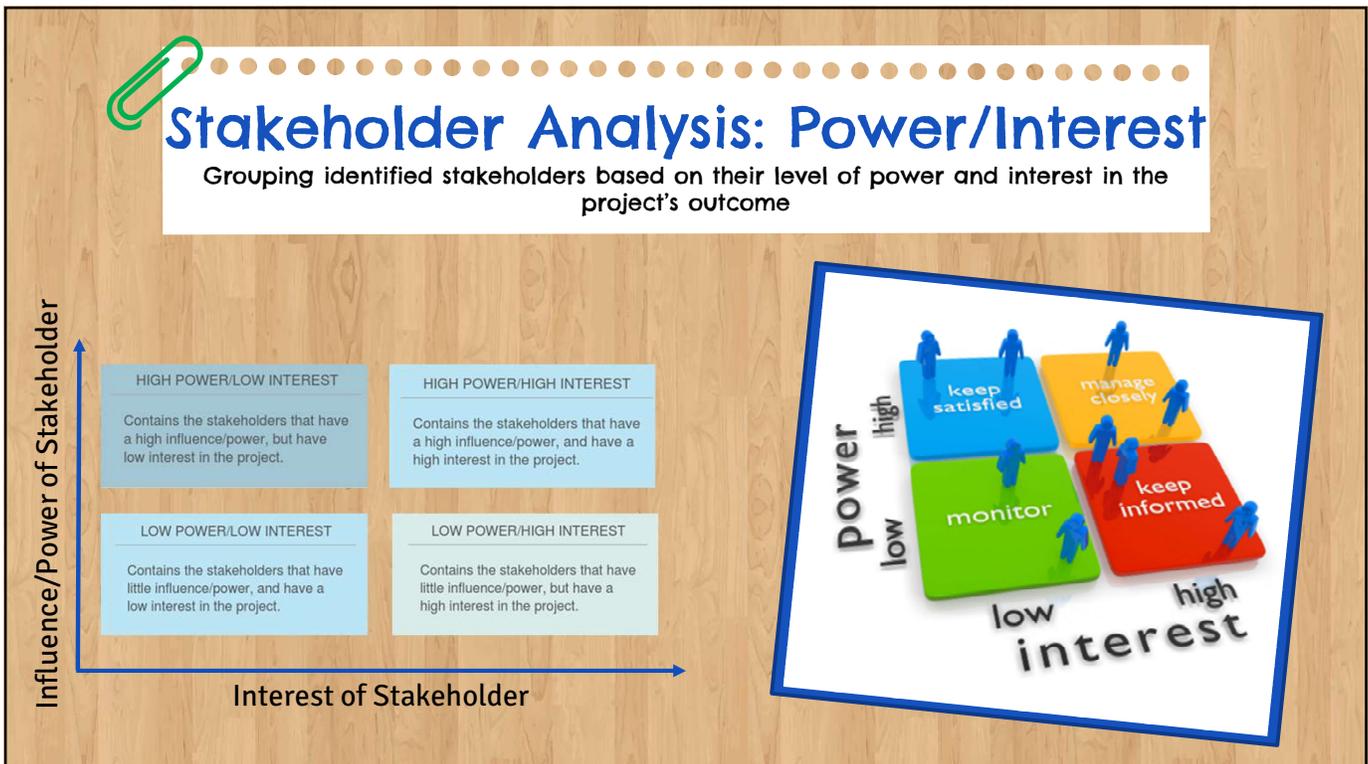
49



50



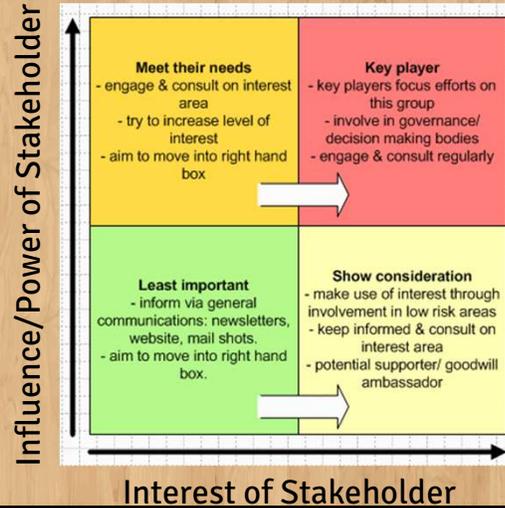
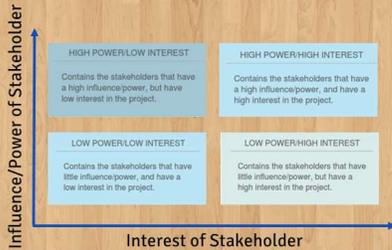
51



52

# Stakeholder Analysis: Power/Interest

Grouping identified stakeholders based on their level of power and interest in the project's outcome



53

# Stakeholder Analysis - Engagement Levels

**C** : Current engagement  
**D** : Desired engagement

Stakeholder	Unaware	Resistant	Neutral	Supportive	Leading
Stakeholder 1	C →			D	
Stakeholder 2			C	D	
Stakeholder 3				DC	

H2, HM, WMBAT, IWW might the team members positively influence stakeholders?

54

## Stakeholder Analysis – Salience Model

### Salience

The quality of being particularly noticeable or important; prominence.

### Power

Is the ability a project stakeholder has to influence the outcome of an organization, deliverables, or a project.

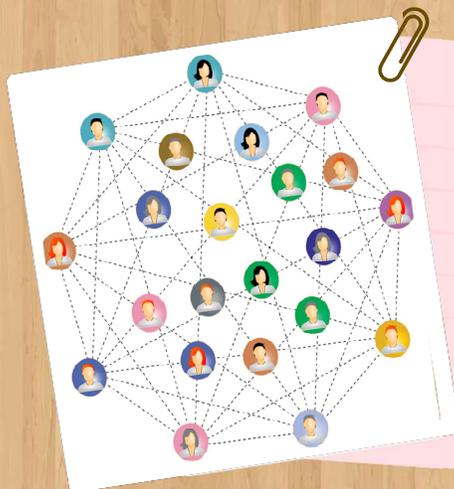
### Legitimacy

Is the authority level of involvement project stakeholders have on a project.

### Urgency

Is the time expected by project stakeholders for responses to their expectations.

55



WMBAT ways to classify *all* stakeholders?

56



# Stakeholder Register

Stakeholder Register						
Project Manager	Anthony Daukes	Project Phase		Initiation		
Role	Contact	Category	Interest	Influence	Expectations	Comms requirements
Sponsor	Phone: +81 4834467651 Email: john.matthew@gmail.com	Internal	●●●	●●●	User friendly and responsive UI across handheld device, tablet or desktop	Video Conference and Email
Project Lead	Phone: +81 4785739580 Email: luke.wilson@gmail.com	Internal	●●●	●●●	Project to be delivered on time within budget	Email and Telephone
Product Manager	Phone: +91 9923535534 Email: deepak.patel@gmail.com	Internal	●●●	●●●	Clear Requirements and timely completion of documentation	Email and Telephone
PMO	Phone: +65 9542533152 Email: suezie.barker@gmail.com	Internal	●●●	●●●	Project to be delivered on time within budget Timely approvals to be obtained	Email and Telephone
Dev Manager	Phone: +44 5871512134 Email: thomas.atkins@gmail.com	Internal	●●●	●●●	Develop responsive UI	Email and Telephone
QA Manager	Phone: +91 9852425834 Email: disha.sharma@gmail.com	Internal	●●●	●●●	UI is responsive No quality issues Branding is maintained	Email and Telephone
Infrastructure Team Lead	Phone: +61 4854665621 Email: jim.arthur@gmail.com	Internal	●●●	●●●	Changes should not affect the uptime of the system No memory spikes	Email and Telephone

Stakeholder register identifies all stakeholders, impact of decisions and includes strategy to manage communication and expectations.

59

# Stakeholder Register

Name	Title	Department/ Business Unit	Contact Details	Requirements	Expectations	Influence Level (Low to High)

60

# Stakeholder Register

## Stakeholder Management Register

Name	Title	Project Role	Importance	Influence	Score	Major Concerns	Relationship Owner
					0		
					0		
					0		

**Name** - The name of the stakeholder  
**Title** - The stakeholder's job title  
**Project Role** - The role that they have on the project. Examples include sponsor, customer, resource owner, etc  
**Importance** - How important is the stakeholder? This is an expression of power over the project - can they drive change, cancel it, approve budgets, etc. This generally relates to formal authority in the organization. This is set up to accept whole numbers from 1 (low) to 5 (high).  
**Influence** - How influential is the stakeholder and how influential is the project for the stakeholder? This is an expression of what the project means to the stakeholder. Do they have a strong interest in the outcome of the project and / or have they got the ability to influence the outcome? This generally relates more to informal authority. This is set up to accept whole numbers from 1 (low) to 5 (high).  
**Score** - This field is calculated based on multiplying the previous two fields together. Higher values are shaded red with the colour moving through orange and yellow to green for low values. This provides an approximate prioritization, though this should be validated.  
**Major Concerns** - The major areas / items of concern to the stakeholder - why do they care?  
**Relationship Owner** - The member of the project team designated to manage the relationship with the stakeholder. For higher priority stakeholder relationships this should be the project manager.

61

## Plan, Manage and Monitor Stakeholders

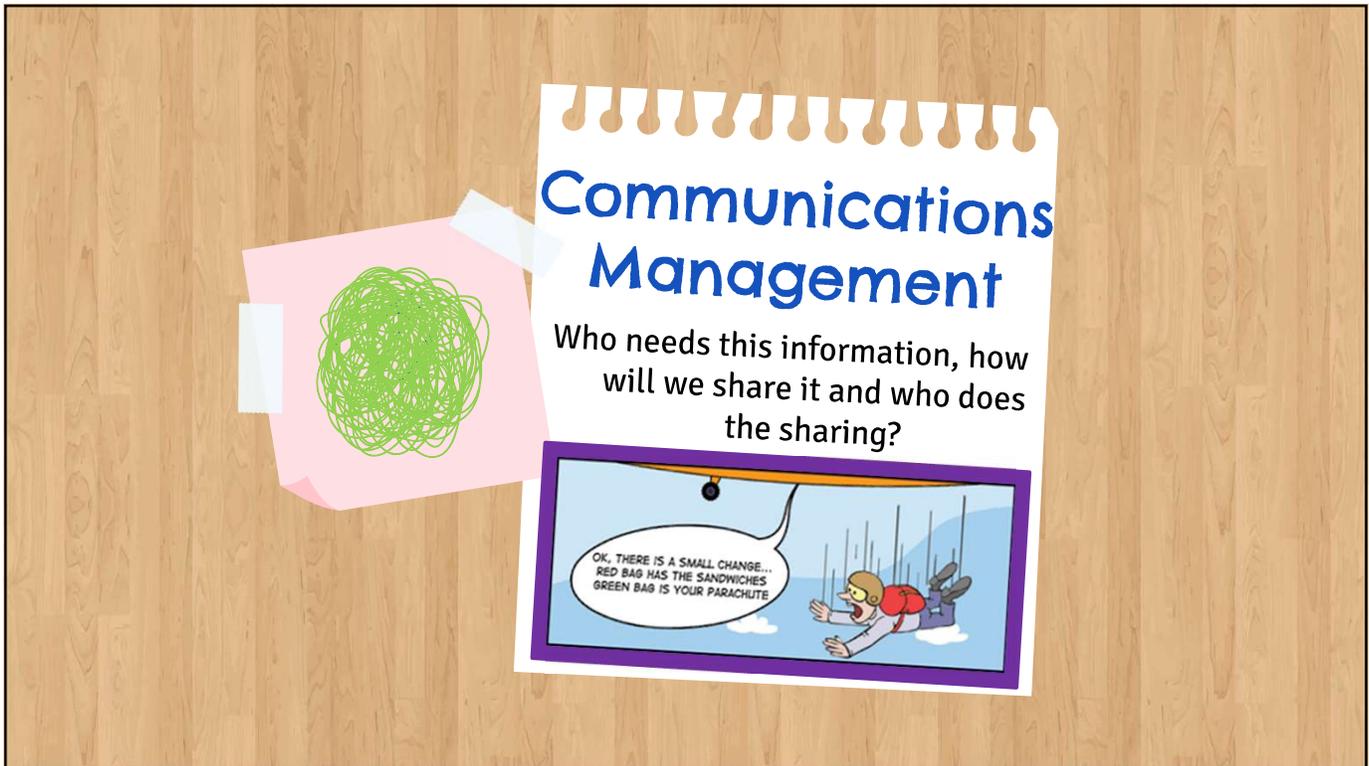


- Strategizing the approach for the balance of the project
- How the project impacts stakeholders
- How will the project team interact with stakeholders
- How will the project team involve stakeholders in making decisions about the project
- How will the team manage stakeholder expectations
- How will the team ensure stakeholders are satisfied
- Identifying any change requests
- Highly connected to Communications Management

62



63



64

 All the measurable data gathered, all the clearly defined activities and all the estimates will mean absolutely nothing if they do not communicate accurate information to the correct people at the correct time.

– Some PM Guru

65

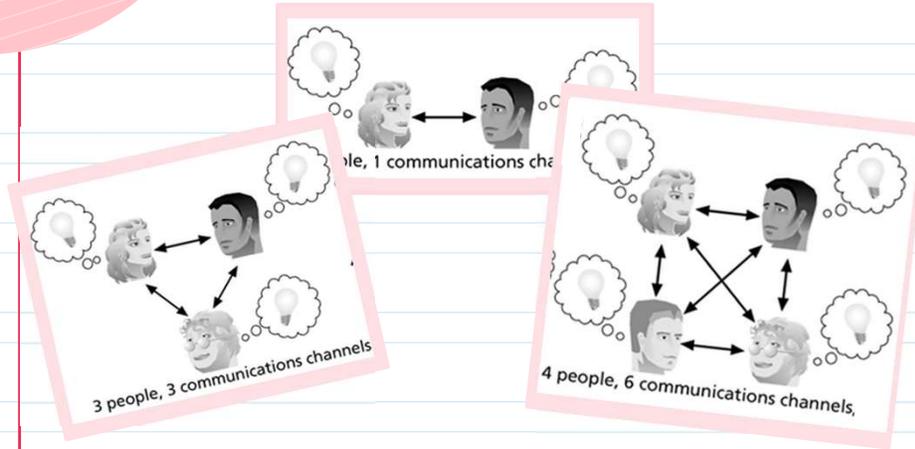
## Communication Management

- Determining who needs what information, who will share it with them and how
- Setting up a communications plan and maintaining the necessary lines of communication within the team and across stakeholders
- Strategizing communications for project and stakeholder needs
- Identifying the number of communication channels
- Determining communication methods

66

**Communication Channels**

A way to analyze and calculate all the possible paths (channels) of communication on a project.

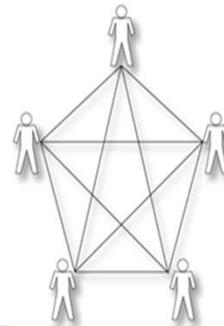


67

**Communication Channels**

A way to analyze and calculate all the possible paths (channels) of communication on a project.

How many channels of communication exist between 5 people?



68

## Communication Channels

Communication channels grow exponentially not linearly as stakeholders are added!

$$n \times (n-1) \div 2$$

$$5 \times (5-1) \div 2$$

$$5 \times 4 \div 2 = 10$$

How many channels of communication exist between 5 people?



$$\# \text{ of Communication Channels} = N(N-1)/2$$

Where N = # of Stakeholders

69

## Communication Channels

Communication channels grow exponentially not linearly as stakeholders are added!

**WHAT IF WE ADDED TWO MORE PEOPLE?**

$$\# \text{ of Communication Channels} = N(N-1)/2$$

Where N = # of Stakeholders

70

## Communication Channels

Communication channels grow exponentially not linearly as stakeholders are added!

$$n \times (n-1) \div 2$$

$$7 \times (7-1) \div 2$$

$$7 \times 6 \div 2 = 21$$

# of Communication Channels =  $N(N-1)/2$

Where N = # of Stakeholders

71

What might be the highest number of stakeholders you will have on your proposal team?  
What about involved in your program?

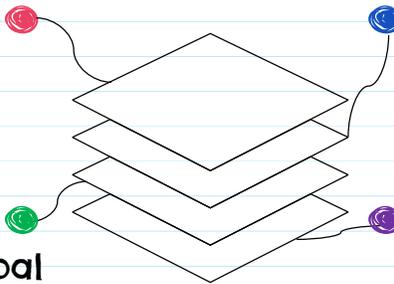
Communication Channels

72

## Communication Methods

**Formal Written**  
Examples include  
project charter,  
project plans, legal  
documents, contracts

**Formal Verbal**  
Examples include  
presentations,  
prepared speeches



**Informal Written**  
Examples include  
emails, memo, sticky  
notes

**Informal Verbal**  
Examples include  
meetings, phone calls,  
conversations,  
planning sessions

73

## Communication Methods

### PUSH

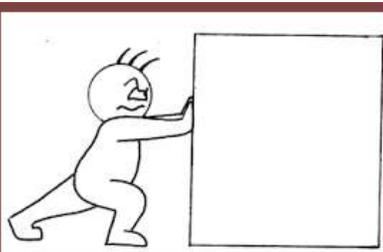
“TO”, no formal confirmation of receipt – email blast, mailings, voice mail, press releases

### PULL

“GET”, no formal confirmation of receipt – post on a website, intranet sites, e-learning

### INTERACTIIVE

“EXCHANGE”, formal confirmation of receipt – meeting, phone call, video conference



74



## Overarching Questions

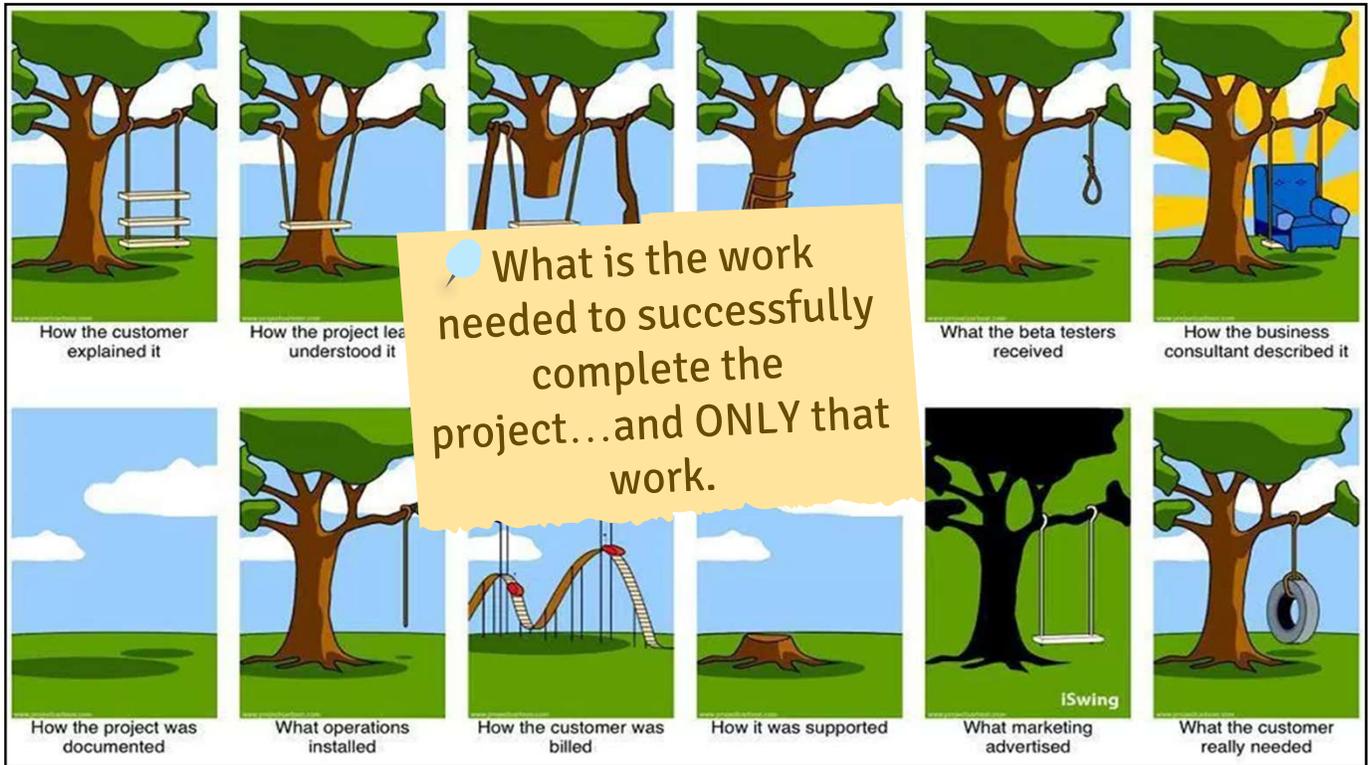


- In what ways might this apply to your proposal?
- How might this shape your new respite program idea?
- How to use divergent and convergent thinking?
- How might you apply the CPS thinking tools?
- In what ways does this new information build on your current practices?
- What might be all the ways to apply this new information?

75

# Scope Management

76



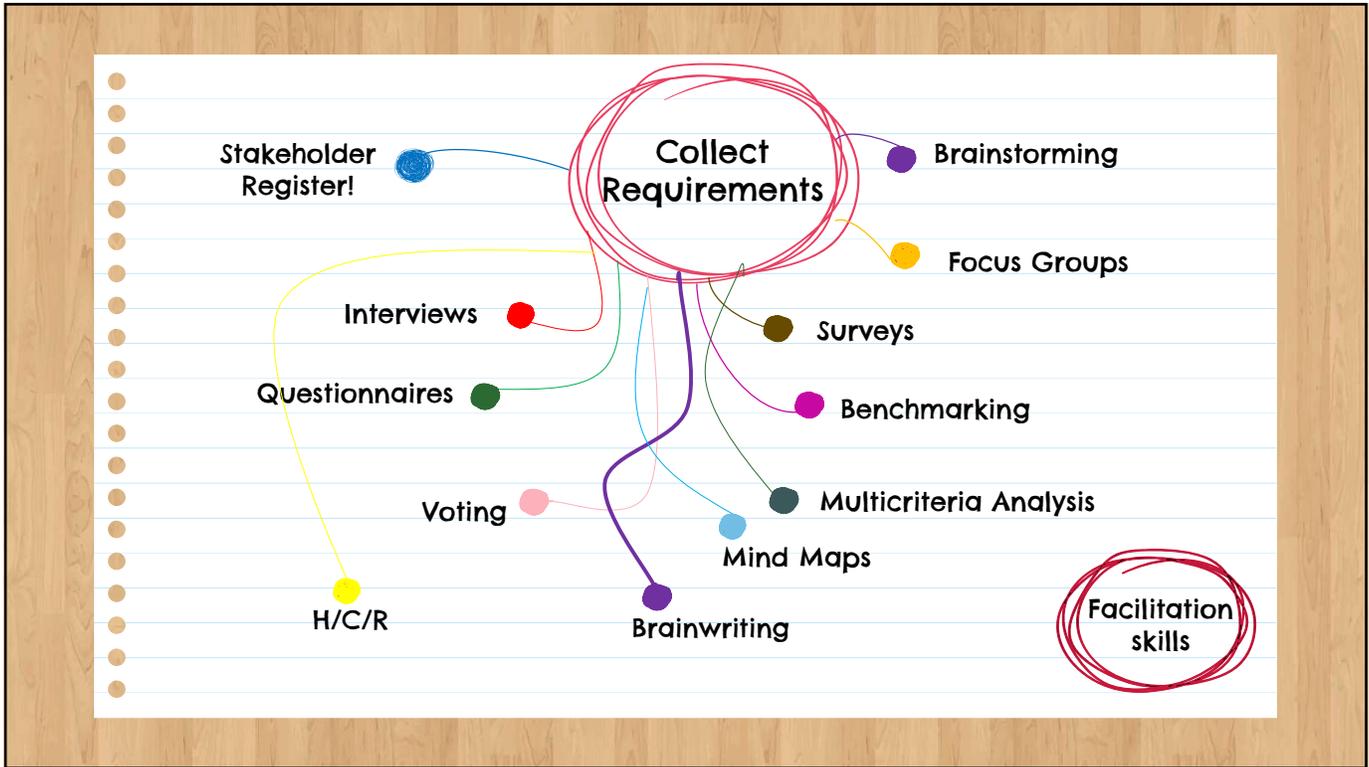
77

## Scope Management

- Outlining the work and deliverables that will be required to complete the project
- Collecting stakeholders' requirements and expectations\*
- Defining success criteria
- Breaking the scope down into manageable components
- What are the specifications of the new program idea?
- What do we need to do to "pull off" establishing this new idea?

\*HOW MIGHT WE DO THAT?

78



79



80

## Favorite Collect Requirements Example



81

## Work Breakdown Structure (WBS)

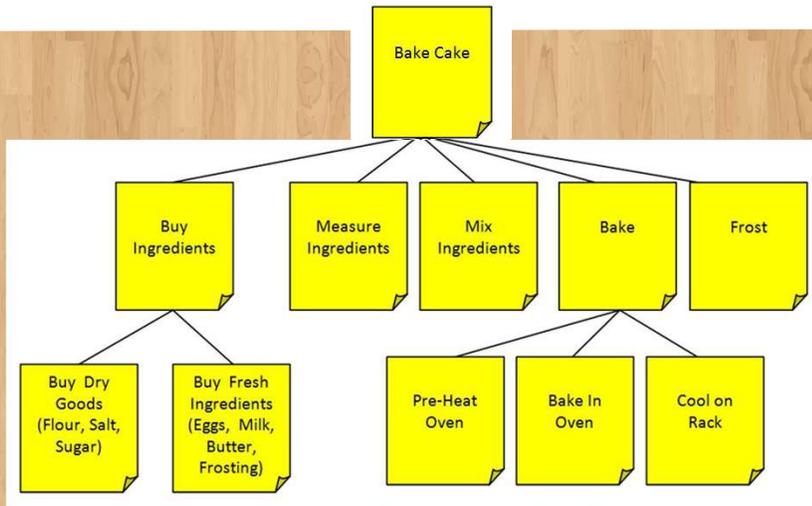
A Work Breakdown Structure (WBS) is a deliverable-oriented hierarchical decomposition of the work to be executed by the project team to accomplish the project objectives and create the required deliverables.

The WBS contains 100% of all the work in the project

82

# Work Breakdown Structure (WBS)

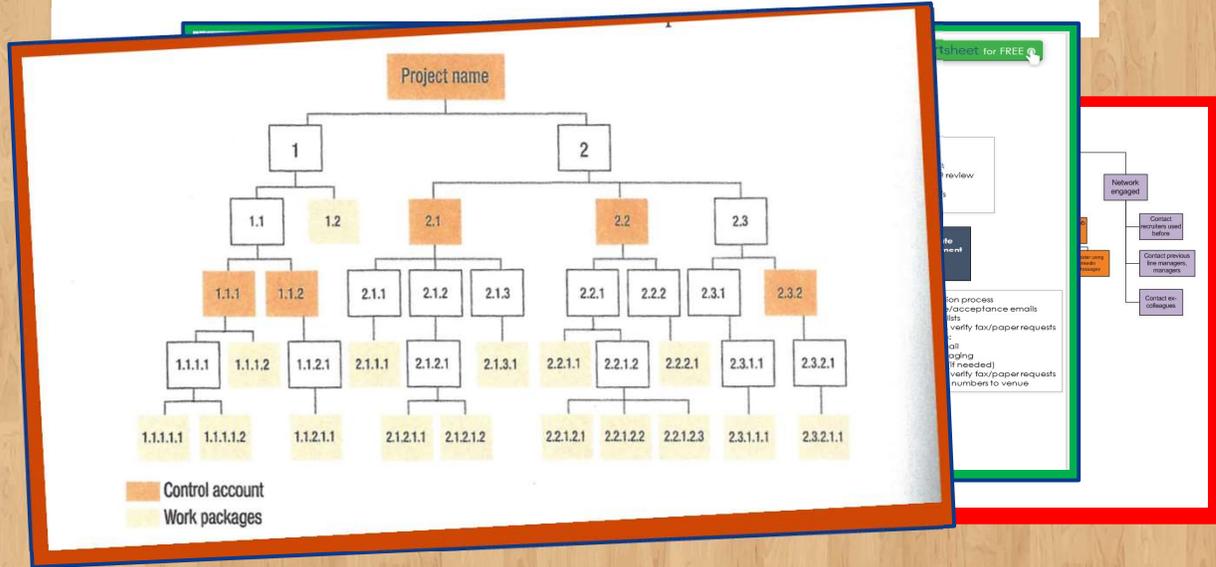
A graphical, hierarchical chart representing the work to be performed on the project



83

# Work Breakdown Structure (WBS)

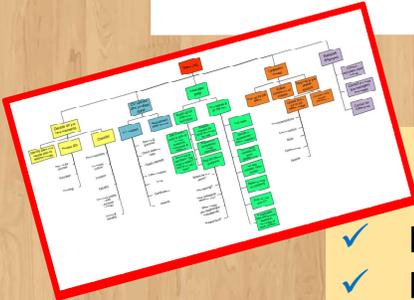
A graphical, hierarchical chart representing the work to be performed on the project



84

## Work Breakdown Structure (WBS)

A graphical, hierarchical chart representing the work to be performed on the project



- ✓ Diverge for all activities/tasks
- ✓ Diverge/converge the headers
- ✓ Converge to select tasks for placement under headers

85

## Scope Change vs Scope Creep

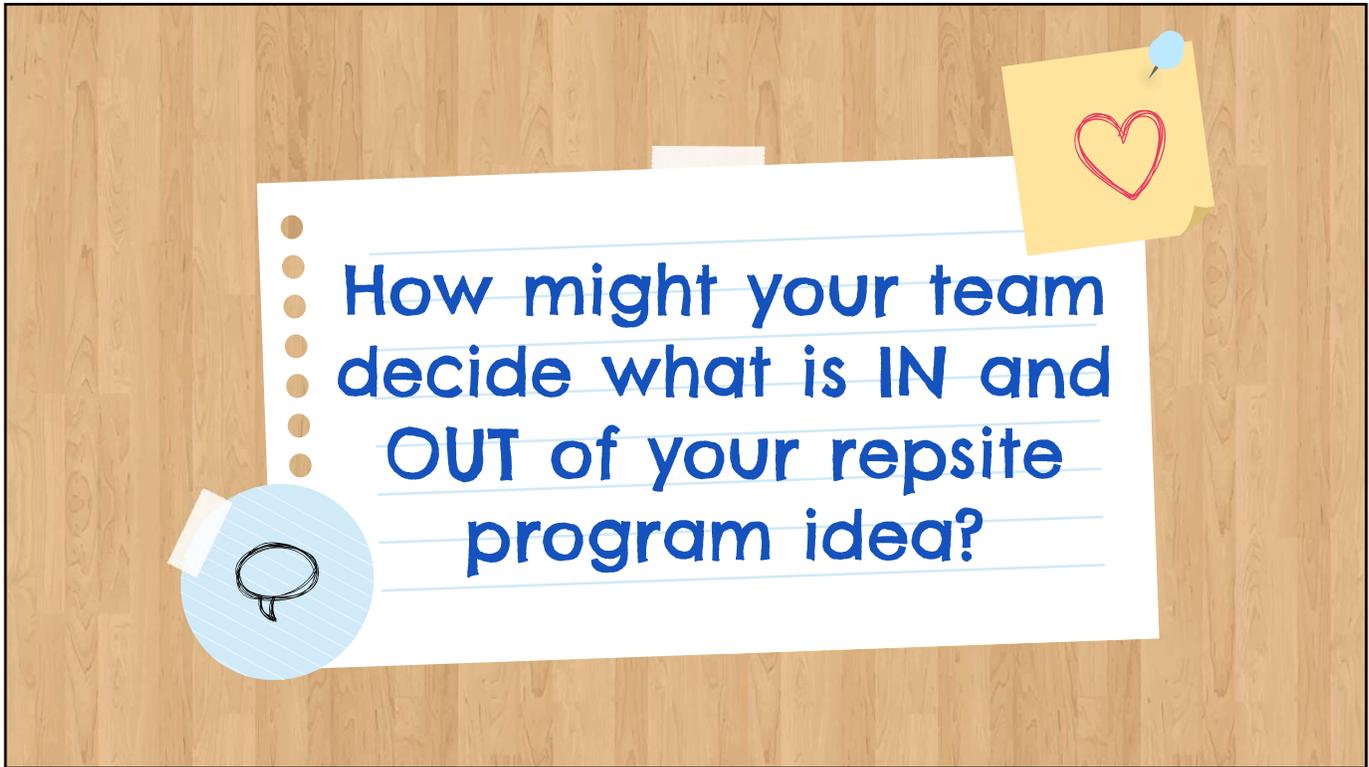
Scope change and scope creep are not the same. They each refer to *modifying the original requirements, specifications, or objectives*.

However, the difference is this:

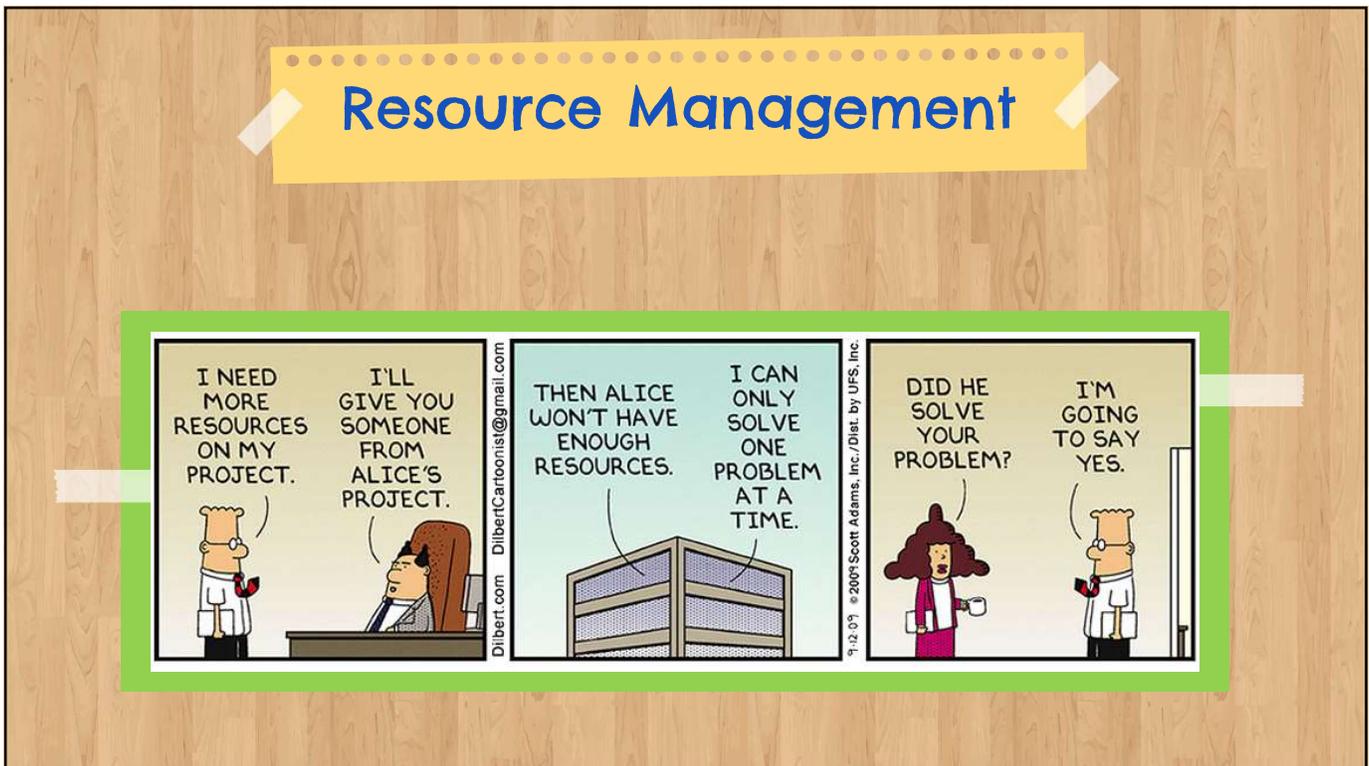
- ✓ **Scope change** is achieved through a defined process – **is controlled**
- ✓ **Scope creep** happens without a plan – **is controlling**
  - Develop a clear project vision
  - Determine project priorities
  - Formally define the project's requirements
  - Create a detailed schedule with major milestones
  - Develop a process to manage scope changes – approved and not approved

If a change or modification to the scope is approved by all parties, it is not seen as scope creep.

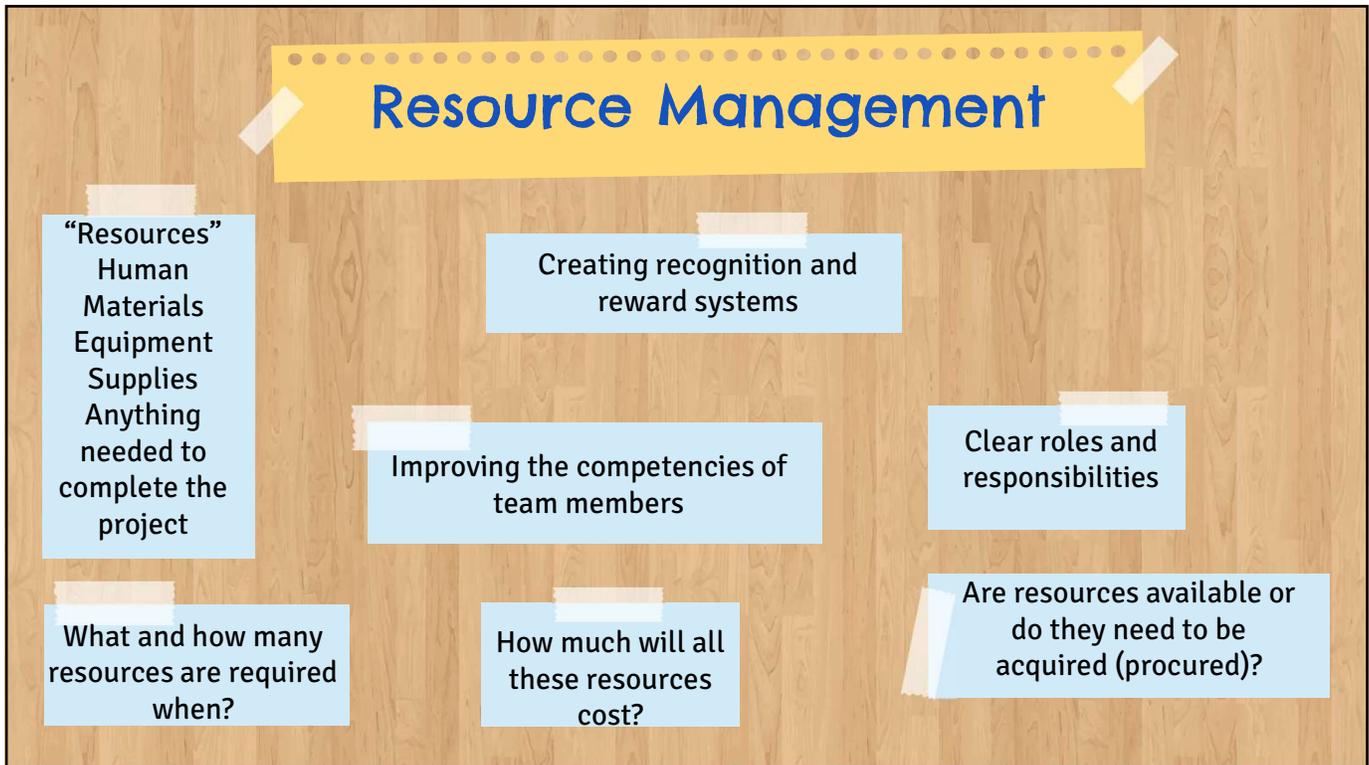
86



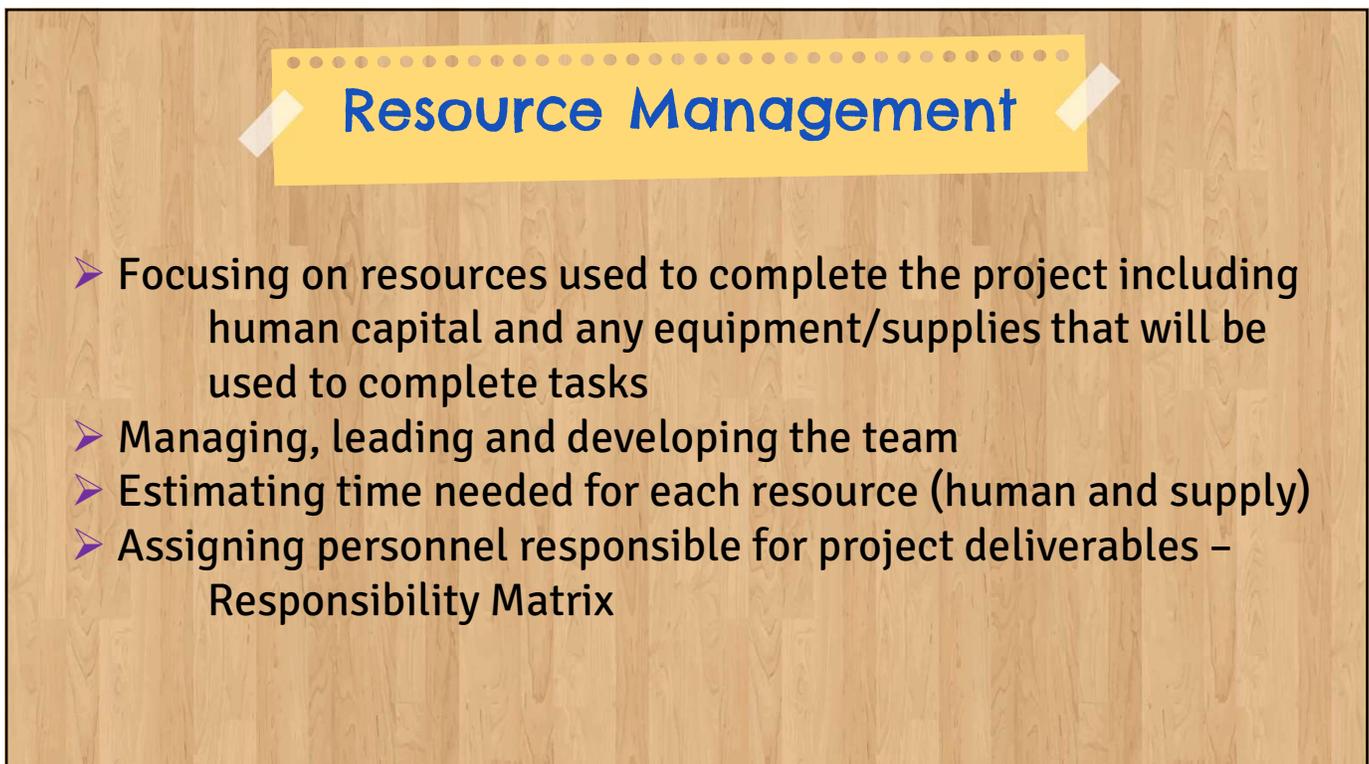
87



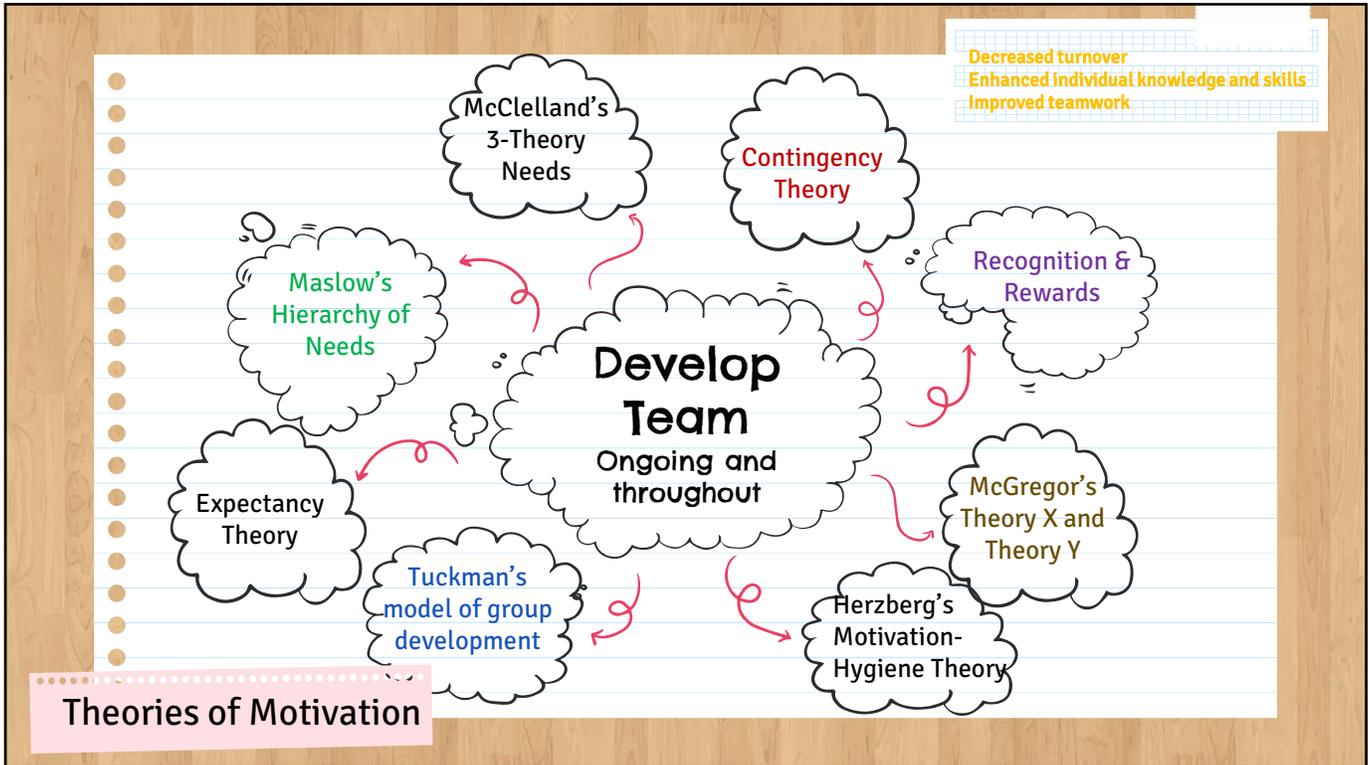
88



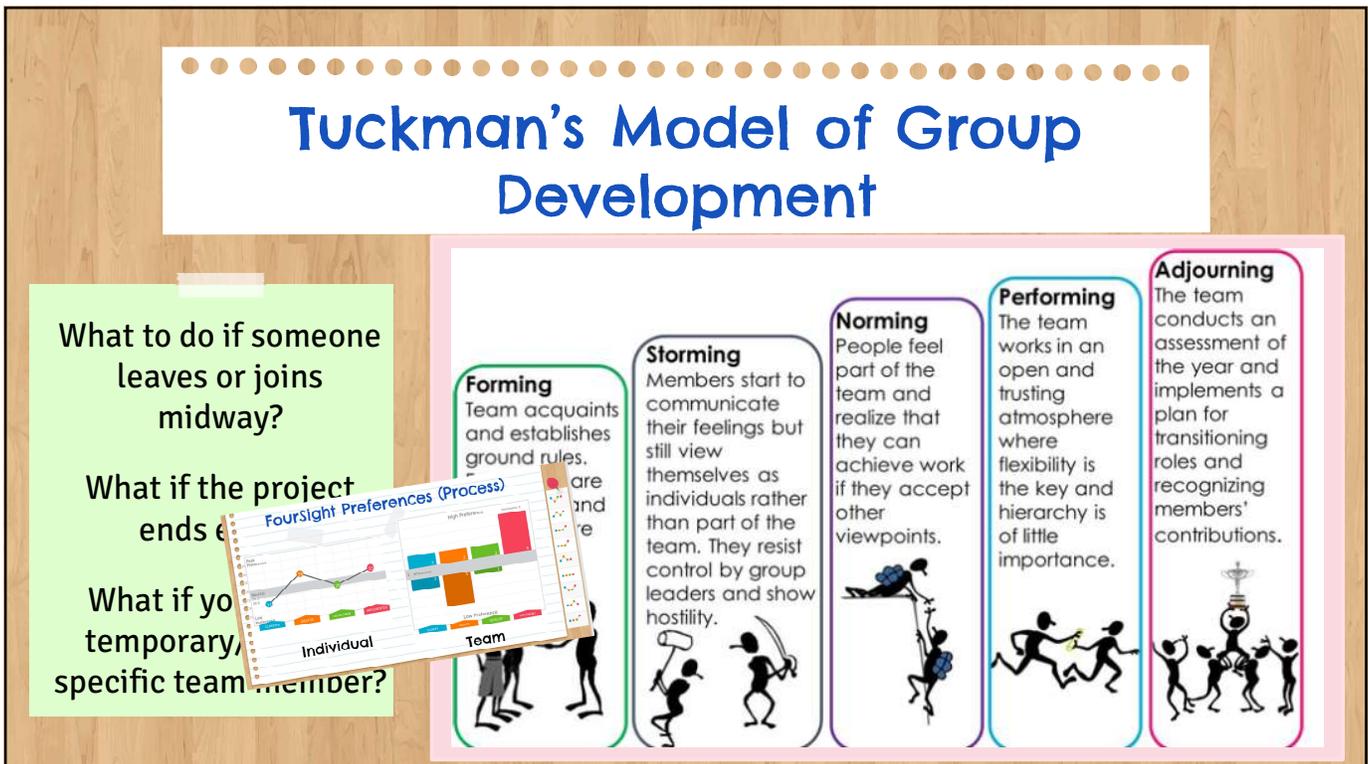
89



90

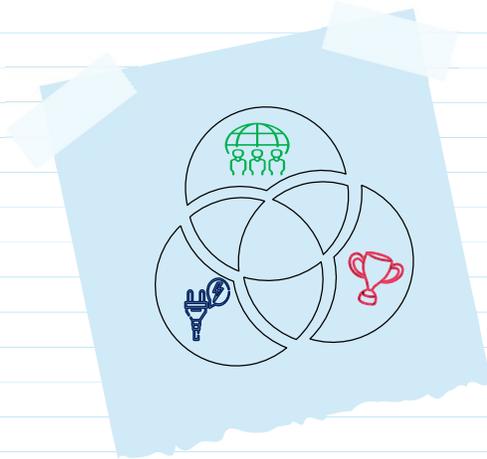


91



92

## McClelland's 3-Theory Needs:



### Need for Affiliation



Refers to the need for warm and close relationships with others. Work best when cooperating with others.

### Need for Power



Refers to an individual's concern for making an impact on others, influencing others, making an impact. Let them lead

### Need for Achievement



Refers to an individual's concern for excellence, competition, challenging goals, persistence and overcoming difficulties. They like recognition.

93

Thinking about the work ahead to complete a proposal and realize your new program, what might be all the work you need to do to invest, develop and motivate your team for the work?



94

## Responsibility Matrix Charts - RACI

### Responsible: Doing The Task

This person actions the task or deliverable. They are responsible for getting the work done. It can be more than one person, try to minimize the amount of people involved.

### Accountable: Owning The Task

This person or role is responsible for the overall completion of the task or deliverable. They won't get the work done but are responsible for making sure it's finalized.

### Consulted: Assisting

This person, role or group will provide information useful to completing the task or deliverable.

### Informed: Keeping Aware

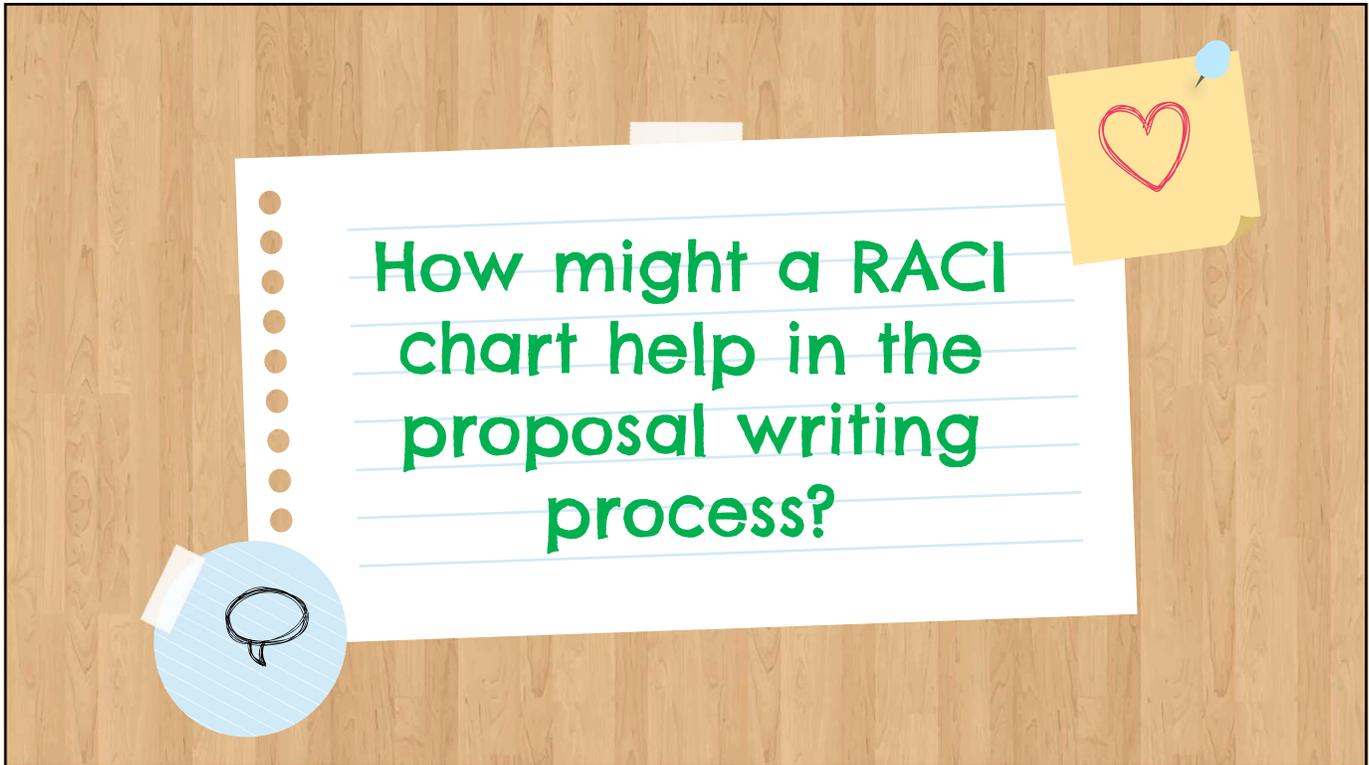
These people or groups will be kept up to date on the task or deliverable as they might be affected by the outcome of the task or deliverable.

95

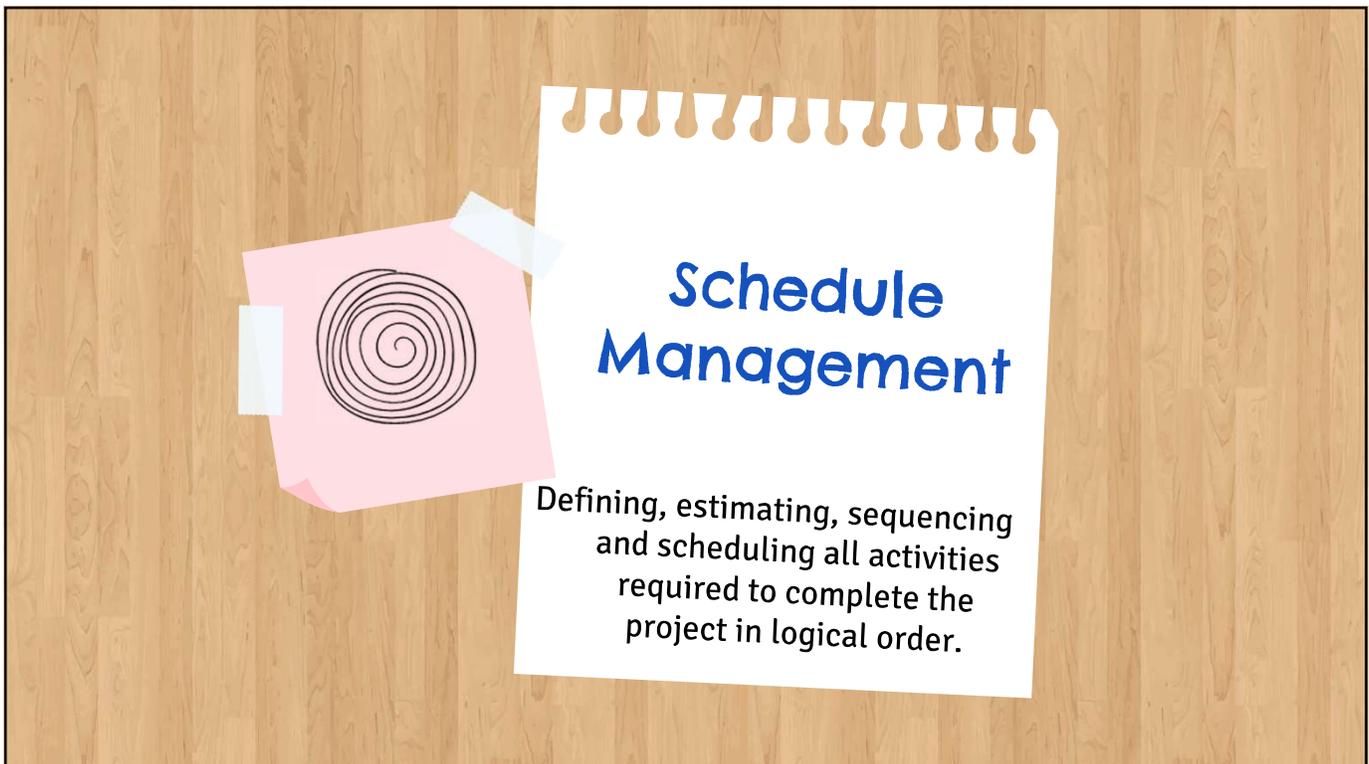
## Responsibility Matrix Charts - RACI

	Mom	Dad	Sarah	Jeffrey
Pack suitcases	A	R	R	R
Fuel car	R	A	I	I
Load beach toys	C	A	R	R
Cabin reservation	A	R	C	I
Book flight	A	R	I	I

96



97



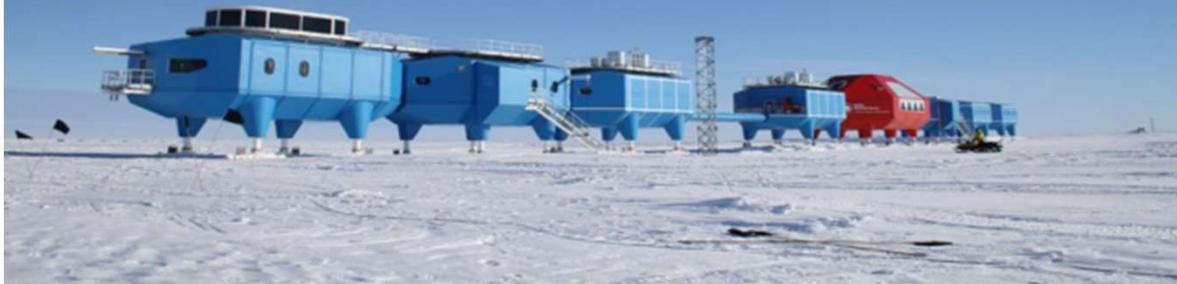
98

## Schedule Management

- Dividing the project into tasks, which are scheduled with start dates and deadlines
- Sequencing Activities - Determining the order and dependencies between the activities
- Estimating Activity Durations - Estimating the required time to perform each activity
- Developing the Schedule - Once the duration of each activity, (and the resources are known to complete it) the schedule can be developed

99

Imagine you are going to be spending the next six months in the Antarctic scientific research station. What are all the things you will need to do to get ready for your trip?



100

## Sequence Activities

Sequencing the project activities in the order in which they will be completed.

Identifying relationships (dependencies) among project activities AND the logical sequence of work to obtain the greatest efficiency given all project constraints.

101

## Dependencies

Project dependencies are schedule dependencies... the schedule of one task or activity is dependent on another one.

**Mandatory  
(hard logic)**  
  
Unavoidable,  
inherent to the work

**Discretionary  
(preferred,  
preferential or soft  
logic)**  
  
Best practice

**External**  
  
Non project  
activities outside  
project team's  
control

**Internal**  
  
Project activities  
inside project  
team's control

102

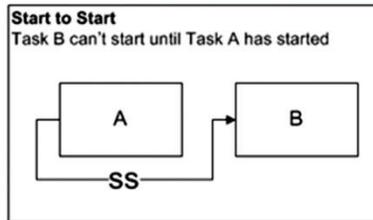
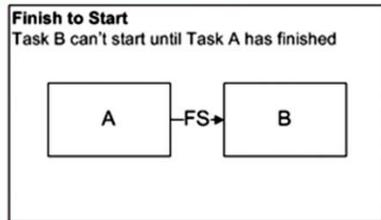
# Dependencies



103

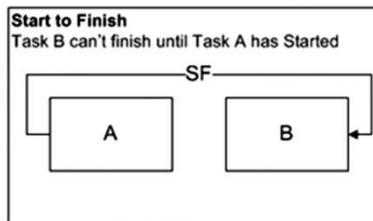
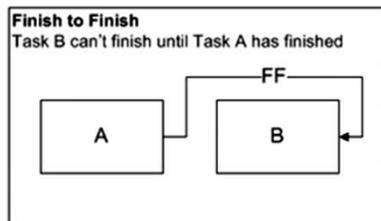
# Logical Dependencies

Washing, drying and waxing a car (95%)



Election and election results

Ending at the same time - Thanksgiving dinner

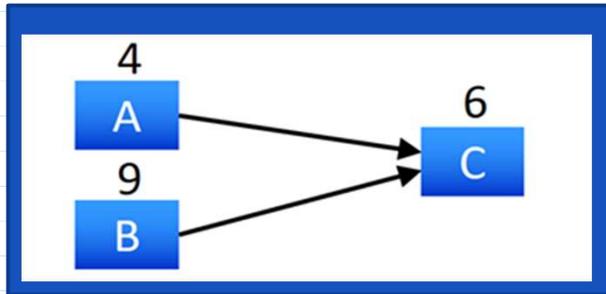


Cramming for an exam (Rarely...if ever)

104

## Project Network Diagrams

Activity on Node/Precedence Diagramming Method (PDM) orders schedule activities (represented as rectangular nodes) and depicts activity, duration, path and relationships.



Arrows represent dependency

Activity: A, B, C  
Network Paths: A-C & B-C  
Activity Duration: A=4, B=9, C=6

105

Help justify time estimates for the project

Aid in efficiently planning, organizing, and controlling the project

Identify opportunities to compress the schedule in planning and throughout the life of the project

Show interdependencies of all activities, and there by identify riskier activities

Show workflow to the team will know what activities need to happen in a specific sequence

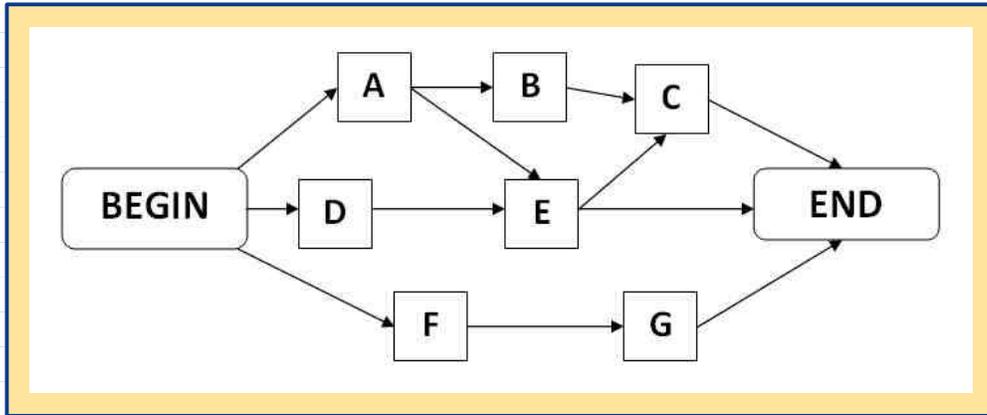
Show project progress

**Network Diagrams**

106

# Sequence Activities

Network Diagram: A graphical representation of your project schedule.



107

Get it done!

What's being done?	Who will do it?	By when?	Support/Report?
--------------------	-----------------	----------	-----------------

Short Term Actions	• •	• •	• •
Intermediate Actions	• •	• •	• •
Long Term Actions	• •	• •	• •

108

## Sequencing - Schedule and Timelines



Timeline			
Action To Be Done	Who Will Do It	By When	Report/Support
Increase participation at SA and Parent Centers	DVB, ACD, BPS, PD, CBOs, vendors	9/1 and beyond	DVB, BPS, CBO, ACD, PD, Vendors
Create 1-2 page data summary to use to educate public, school admins, etc.	Comm team	9/1	CS Planning Team
Develop strategies to increase student, teacher, community engagement	Principals, CBO, Site, Facilitator	9/1 and beyond	Arbit, principals, CS, SI
Model for best site	CBOs, BPS	9/1 and beyond	CBOs, BPS, ZL
Multi health clinic and legal services	Gather principals	9/1 and beyond	Breanna, Esther, principals Erica
SAT Prep	CSN (16), principals, CBO, vendors	Dec	Principals
Review Budget	BPS, CBO, CSN, principals	9/1 and beyond	Principals, CBOs, BPS
Increase parent engagement/invite/ask parents	PD, BPS, CSN, SF	9/1 and beyond	PD, Erica
Attend 1st day school meetings	CSN, ZL, PD, site facilitators	9/8 and beyond	Principals
Visit community school in another community	CSN, ZL, PD, site facilitators	11/1	Tanya
Attend CSMT Meeting	CSN, SF	9/1	ZL, principals
Best practice guide implementation	Tanya, Arbit	9/15	CS planning team
Get community members involved	All	9/1 and beyond	CS planning team
Open SA	CSN, CBO	9/8 and beyond	CSN, CBO, ZL, principals, Erica, Arbit, Tanya
Open SMT	CSO, CSN, principals	Oct 18	Tanya
Align what is happening in school with after school programs and Saturday Academics	All	New and ongoing	CS planning team
Perform staff/parent evaluations	DVB & all orgs	Quarterly, annually	Dva Leads
Class zone communications	ZL	Bi-monthly	Tanya, Arbit
Order supplies	CBOs, CSN, site facilitator	Monthly, start 9/1	CBO, BPS, ZL
Grant sheet	CBOs, site facilitator	Monthly, start 9/1	CBO, BPS, ZL
Develop new funding sources for school	All	Ongoing	All
CS Conference	Principals team	New, Oct	Principals team
Invite partners to visit CS for their meetings	Principals, Arbit, Tanya, BPS, ZL	9/1 and beyond	Planning team
Incorporate PTO/PTA into planning SA	PD	9/1 and beyond	BPS
Complete fall festival request	CSN, CBO	9/30	BPS, CBO
Send annual PD for vendors	CBO, CSN, BPS	8/annual	BPS, CBO
Develop community report survey	Principals team	11/1	Principals team
Family Appreciation Dinner	CBO, Gathering, OPPE	Quarterly, annually	OPPE, Erica
Class Zone Champion Events	Est, CSN, CBOs	9/1 and beyond	ZL, Principal
SAO Groups	CSN	9/1	Principals
Detail van visit	CSN	9/1	Erica, Breanna
Spring March Club	Gathering, OPPE, CSN	Quarterly	OPPE, Erica
Community list based on zones	ZL, CSN	9/1 and quarterly	Erica
September - March			
Action To Be Done	Who Will Do It	By When	Report/Support
Prepare for parent summit	Gabriela, Ramona	1/1	OPPE
Complete request for proposal	CSN, Site facilitator	1/1	CBO, BPS
Prepare for RFP	BY, BPO	1/1	BPS
Take care of garden	CSN, principals, engineers	1/1	Principals, CBO
Advocacy	CS Team	1/28 (Adams)	Legislators, CS coalition
Spent down budget	CSN, principals, engineers	1/1	BPS
Commissioning events, E2 Champion	Est, CSN, ZL	3/30	Principals
Annual Report, Development	Communication team	1/1	Tanya, Arbit
Perform internal school student survey	CSN	3/30	Erica, ZL
Start planning 2020/2021 school year	CS, Breanna team	3/30	Principals team, Principals
Increase participation	Principals, Nat (7) Partners, ALL	1/1 - 9/30	Erica, Breanna
April - June			
Action To Be Done	Who Will Do It	By When	Report/Support
Perform evaluations	Administrators	6/30	HR Dept.
Inventory Completion	CSN, Site facilitator	6/15	Principals, BPS, CBO
Reflection of 2019/2020 Program	All	6/30	All
Have team visit points visitable	CSN, SF	6/15	Erica
End of year celebration	School day afterschool SA, CSN, ZL	May - June	Principal, ZL, CBO
Quarterly and end of year partner update	Arbit, Tanya, Yeom	Quarterly	Community Partners
Submit semester Engagements Report	PD, CSN	Monthly	Erica, OPPE
Community Advisory Committee	CBO, CBO, Principals	6/30	Principals, Erica
Reminders: wall survey @ all CS Saturday Academics	SF	Monthly	ZL

109

## Cost Management



110

## Cost Management

- ✓ What cost (and resources) are incurred
- ✓ When are they incurred
- ✓ Close connection to Schedule Management
- ✓ More accurate estimate is from the bottom up



111

## Cost Management



- 
- 
- 
- 
- 
- Forecasting the cost of each step of a project and even including budgeting for mishaps or compensating for any foreseeable obstacles
- Considering the cost of the human and physical resources
- Estimating costs of each activity to complete the project
- The ideal sequence is to plan SCOPE, SCHEDULE, RESOURCE then COST
- For increased precision, estimate costs from each activity in the WBS and roll up to the project level
- The project budget is comprised of all the activities in the WBS
- 

112

## Foundational Terms

### Variable vs. Fixed Costs

**VC:** A cost that varies depending on project consumption.  
**FC:** A cost that remains constant throughout the project.

### Direct vs. Indirect Costs

**DC:** Expense directly billed to the project.  
**IDC:** Expense that is shared by or allocated to multiple projects or operations.

### Life-Cycle Costing

Total cost of ownership over entire life of project:  
 Purchase Costs  
 +  
 Operation Costs  
 +  
 Shutdown Costs

### Sunk Costs

Expense already spent by the project that is not recoverable.

### Value Engineering

Designing every aspect of a project to obtain maximum value.

113

## Estimate Costs

Each schedule activity is analyzed to evaluate activity time and resource estimates associated with them ...and a cost estimate is produced.

114

# Estimates

Highly accurate...time consuming and labor intensive.

### Analogous (Top Down)

Using actual information from a similar activity on this or another project.

### Parametric

Using historical information on linear or scalable activities.

### T-Shirt Sizing

### Three-Point Estimates

Estimating averages of worst-case (P), best-case (O), and most realistic (R) estimates.

### Bottom Up

Using a separate estimate for each activity and aggregating up.

115

Advantages of Top-Down (Analogous) Estimating	Disadvantages of Top-Down (Analogous) Estimating
Quick	Less accurate
Activities do not need to be identified	Estimates reflect a limited amount of information about the project or key deliverables
Less costly to create	Requires considerable experience
Overall project costs will be capped for project analogous estimating	Difficult for projects with uncertainty or without similar projects to reference

How much leeway are you giving yourself with the estimates?

116

How much leeway are you giving yourself with the estimates?

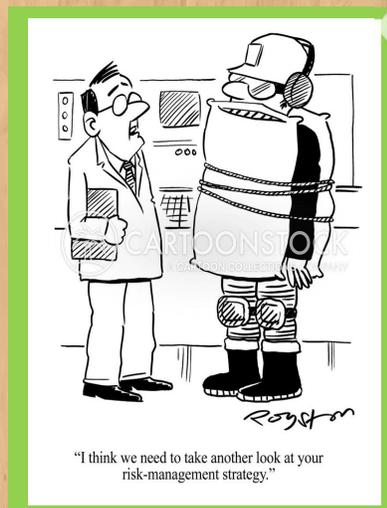
### Advantages of Bottom-Up Estimating

### Disadvantages of Bottom-Up Estimating

More accurate	Takes time and money (resources)
Gains buy-in from the team because the team creates estimates	Tendency for padding estimates
Based on a detailed project and deliverables analysis	Requires that the project is well defined and well understood
Provides a basis for control and management	Requires time to break project deliverables into work packages and activities

117

## Risk Management



118

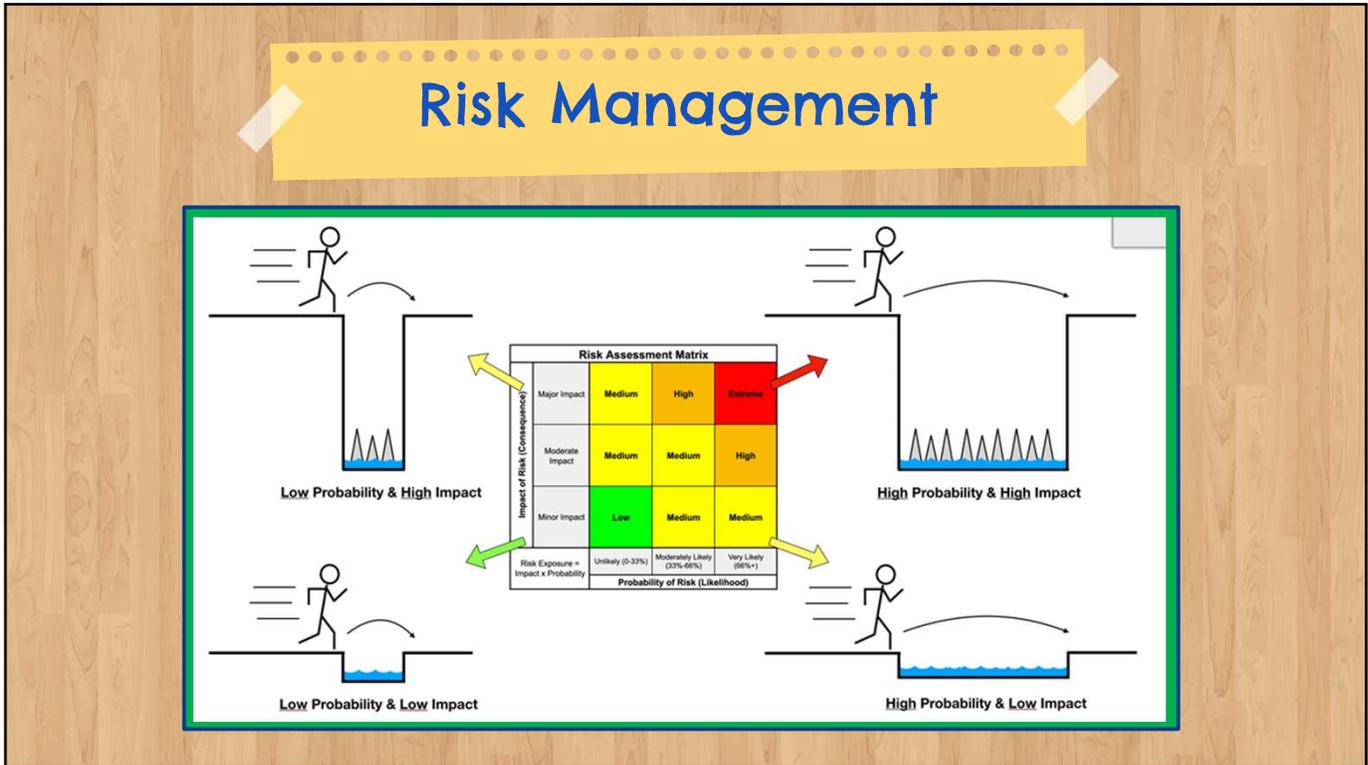
A **risk** is "an identified uncertain event or condition that, if it occurs, has a positive or negative effect on a project's objectives."

119

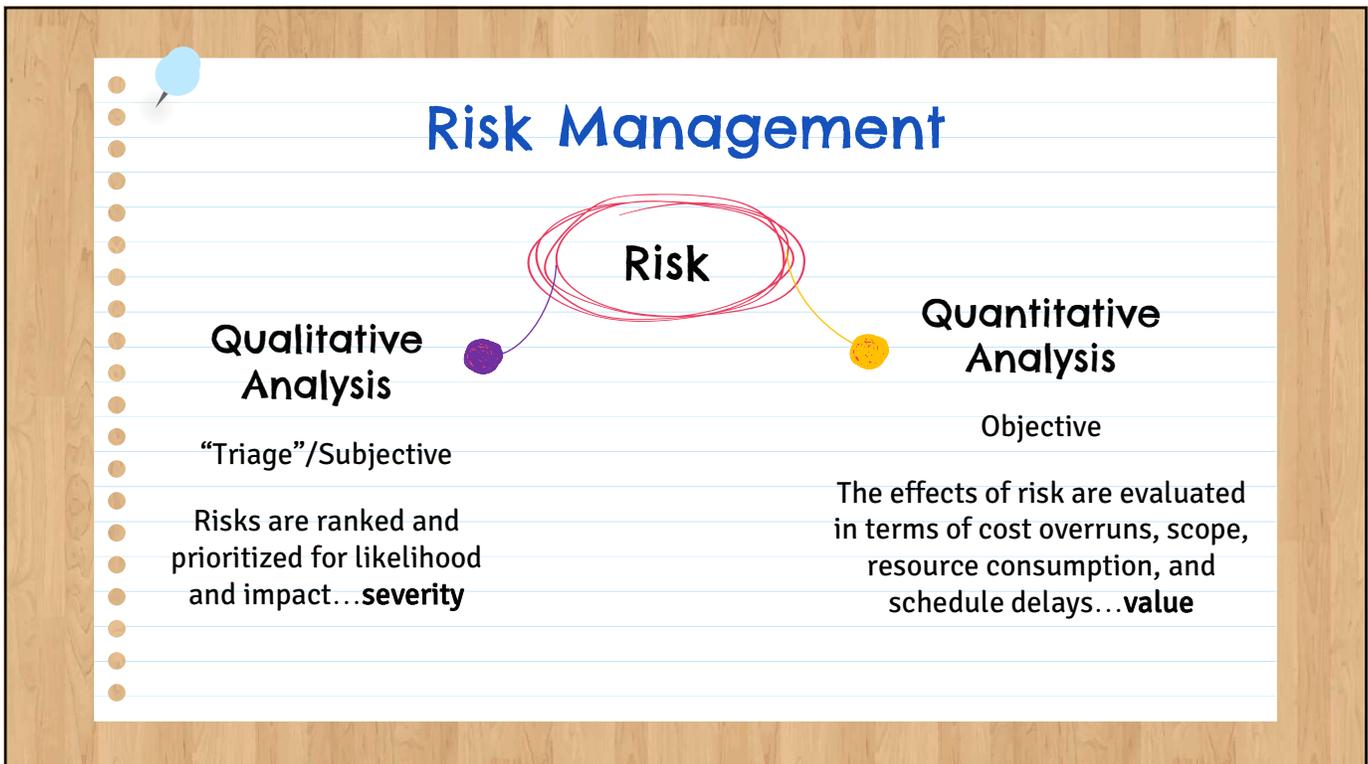
## Risk Management

- Identifying and understanding what risks or **uncertainties** exist in the project
- Determining which uncertainties may be good (opportunities) or bad (threats) to the project
- Analyzing and determine which uncertainties require a planned response
- Planning response approaches and defining what triggers a response
- Monitoring for risk occurrences
- Uncertain events must be identified and analyzed prior to planning responses
- Proactive

120



121



122



## Qualitative Risk Analysis

- Identifying threats (or opportunities), how likely they are to happen, and the potential impacts if they do
- Helps to reduce levels of uncertainty and to focus on high priority risks
- Helps ensure time and resources are spent on the right risk areas

123

## Qualify Risk - Likelihood/Priority

		Impact →				
		Negligible	Minor	Moderate	Significant	Severe
Likelihood ↑	Very Likely	Low Med	Medium	Med Hi	High	High
	Likely	Low	Low Med	Medium	Med Hi	High
	Possible	Low	Low Med	Medium	Med Hi	Med Hi
	Unlikely	Low	Low Med	Low Med	Medium	Med Hi
	Very Unlikely	Low	Low	Low Med	Medium	Medium

124

## Quantitative Risk Analysis

- Which risk events warrant a response
- A projected value is assigned to quantify each risk that has been ranked (cost and/or time)
- Any value that exceeds the risk tolerance levels needs a risk response

125

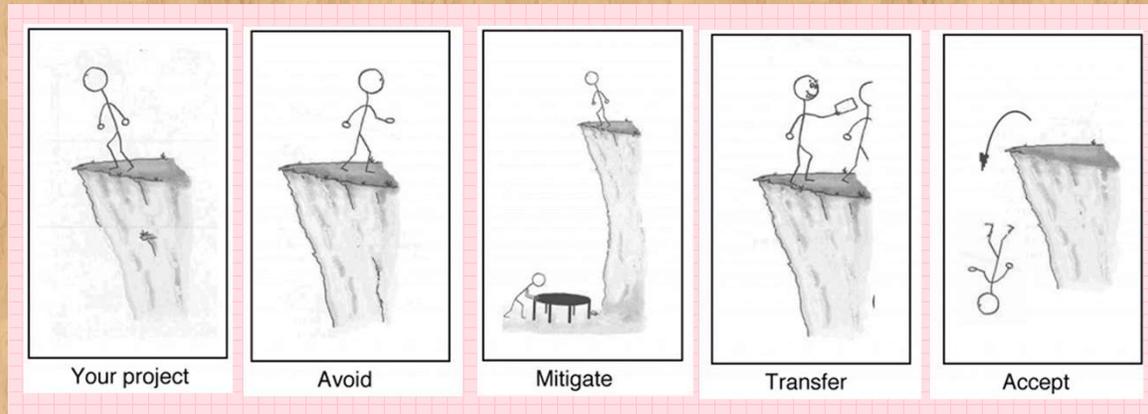
## Quantify Risk

Ask yourself:

If this risk occurred, what will it cost us?  
What is the impact on schedule, cost and scope...and quality?

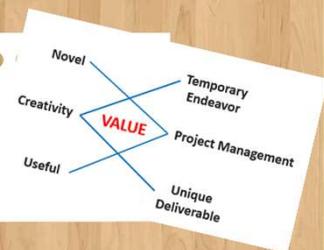
126

## Plan Risk Responses



127

## Overarching Questions



- In what ways might this apply to your proposal?
- How might this shape your new respite program idea?
- How to use divergent and convergent thinking?
- How might you apply the CPS thinking tools?
- In what ways does this new information build on your current practices?
- What might be all the ways to apply this new information?

128

Procurement Management includes the establishment and maintenance of relationships with vendors/others to obtain goods, services, or scope from outside the organization.

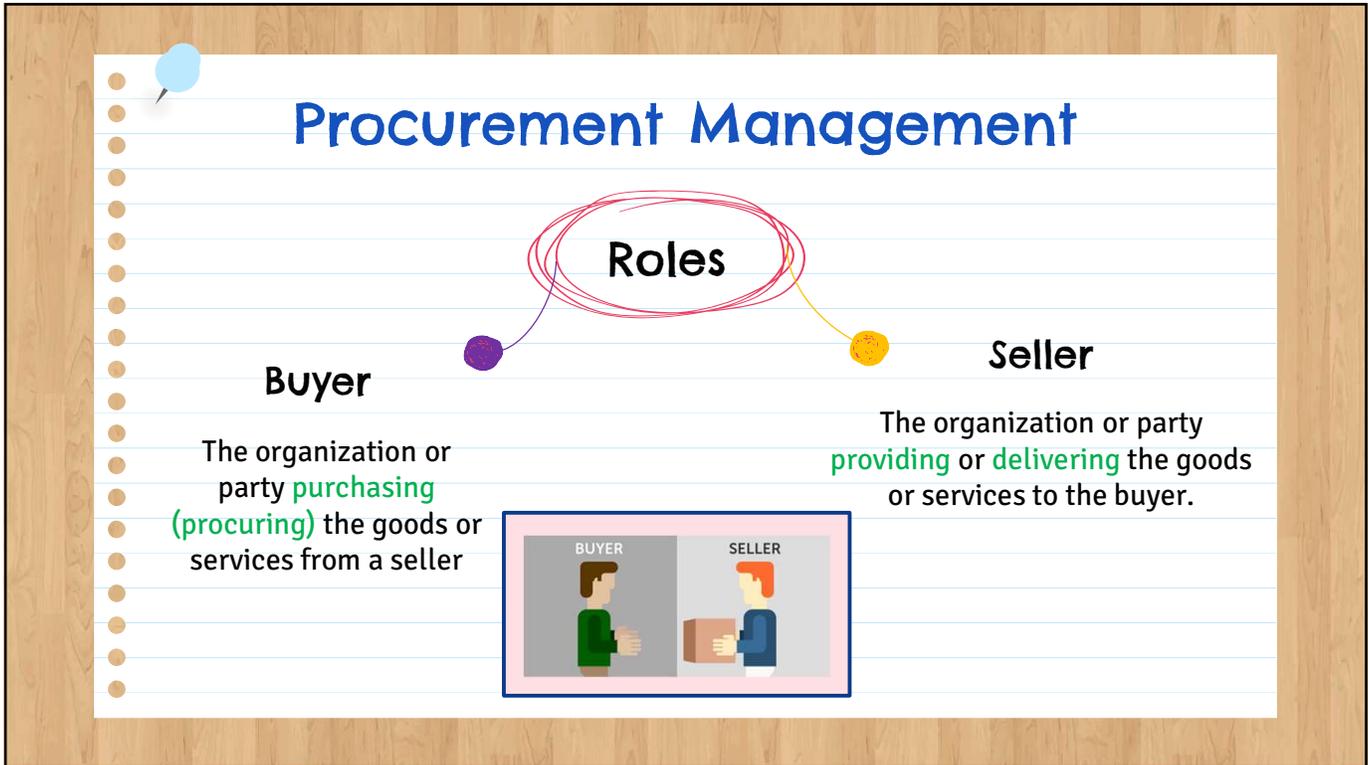
– PMI

129

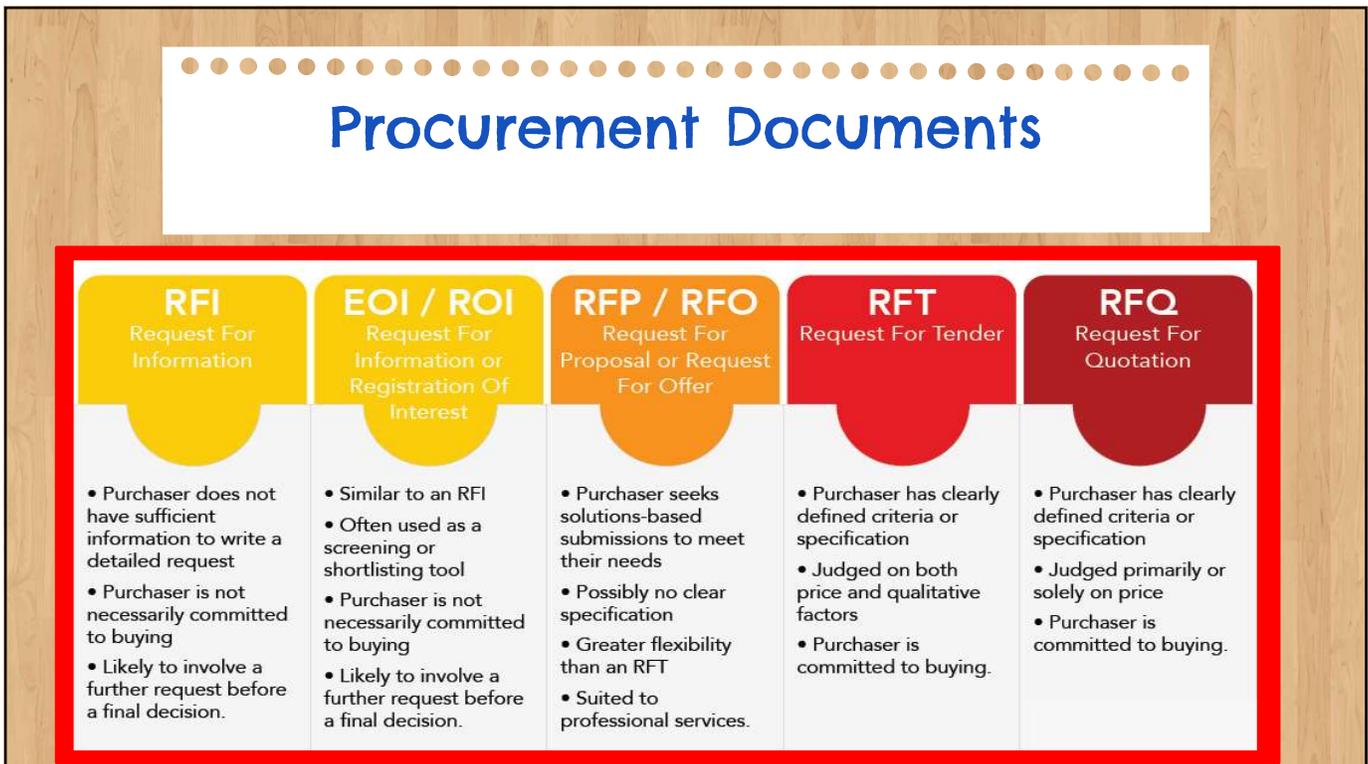
## Procurement Management

- ✓ Buyer – seller relationship
- ✓ Focuses on applying the best contract strategy for the project situation
- ✓ Necessary steps to prepare purchase documents and select from among proposals
- ✓ Monitoring contracts
- ✓ Formal communication and highly rigid

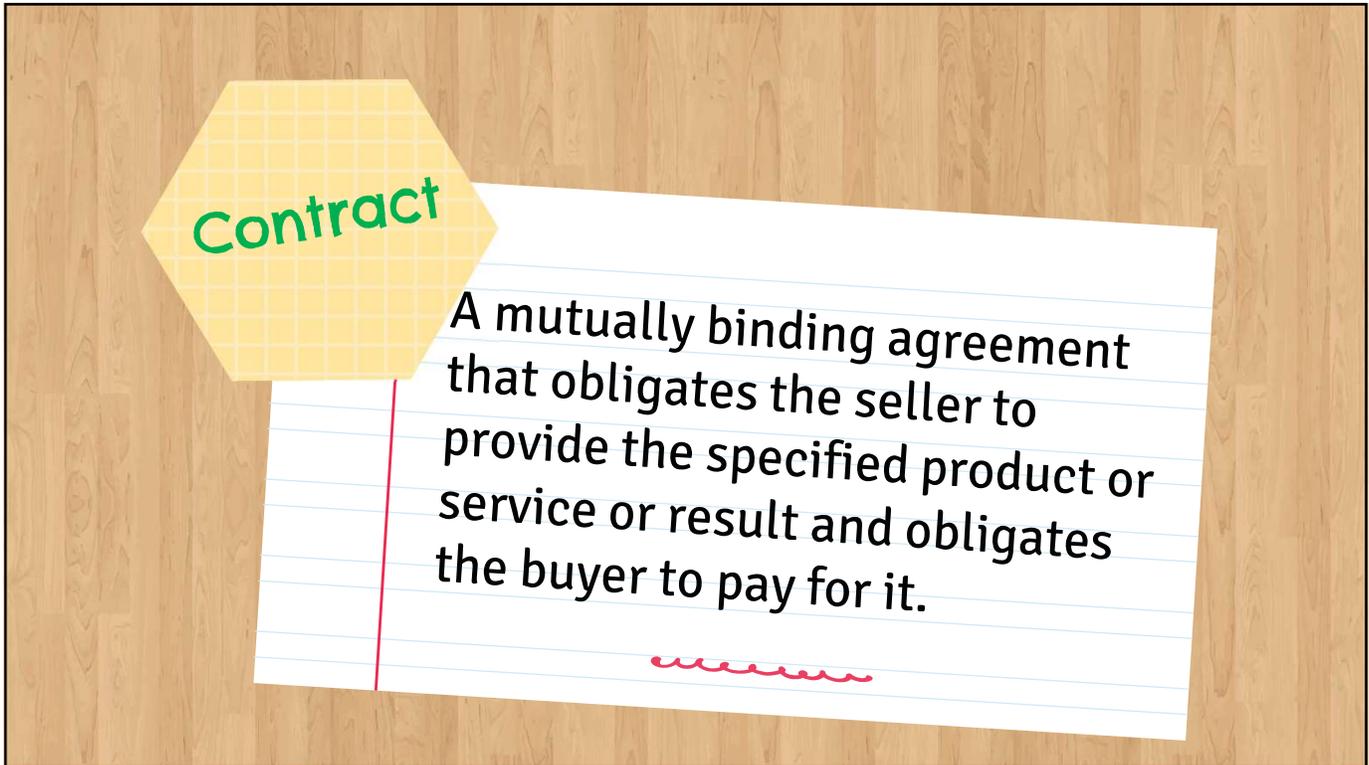
130



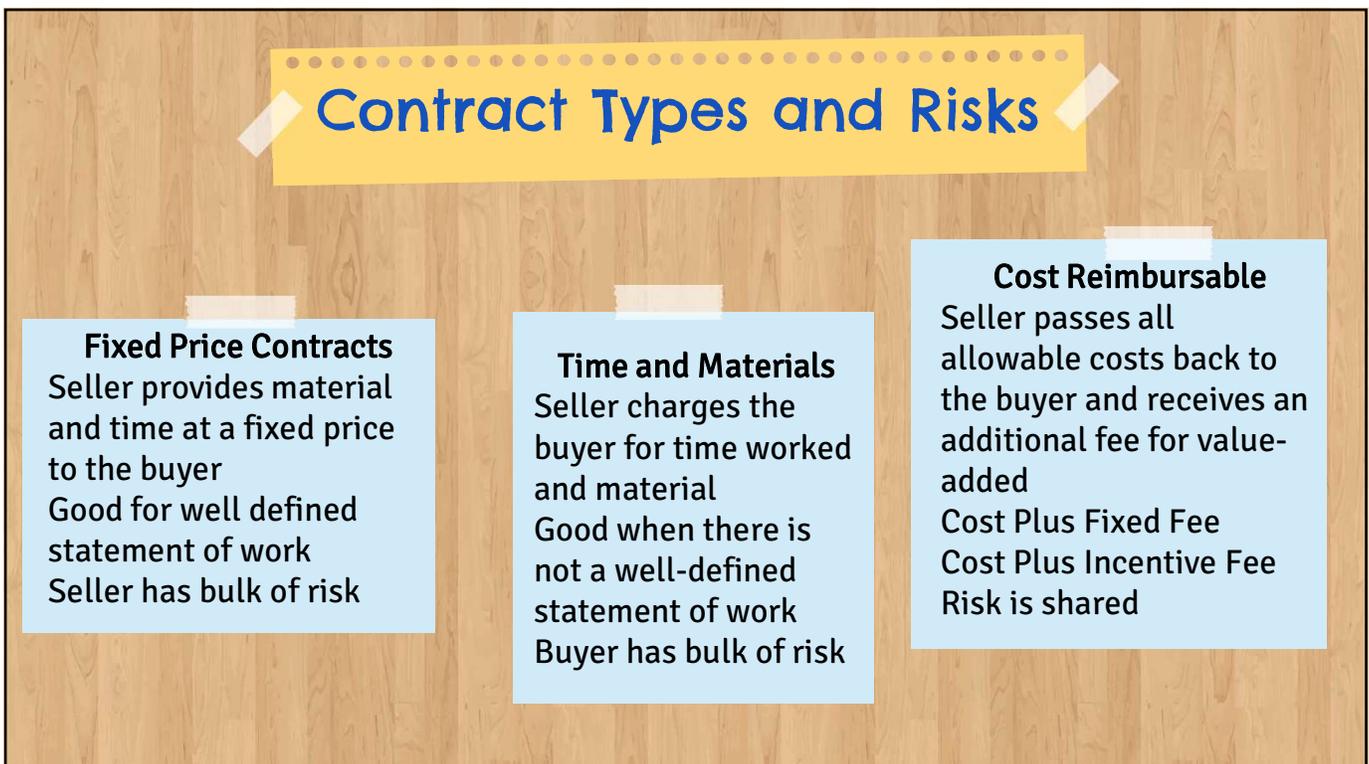
131



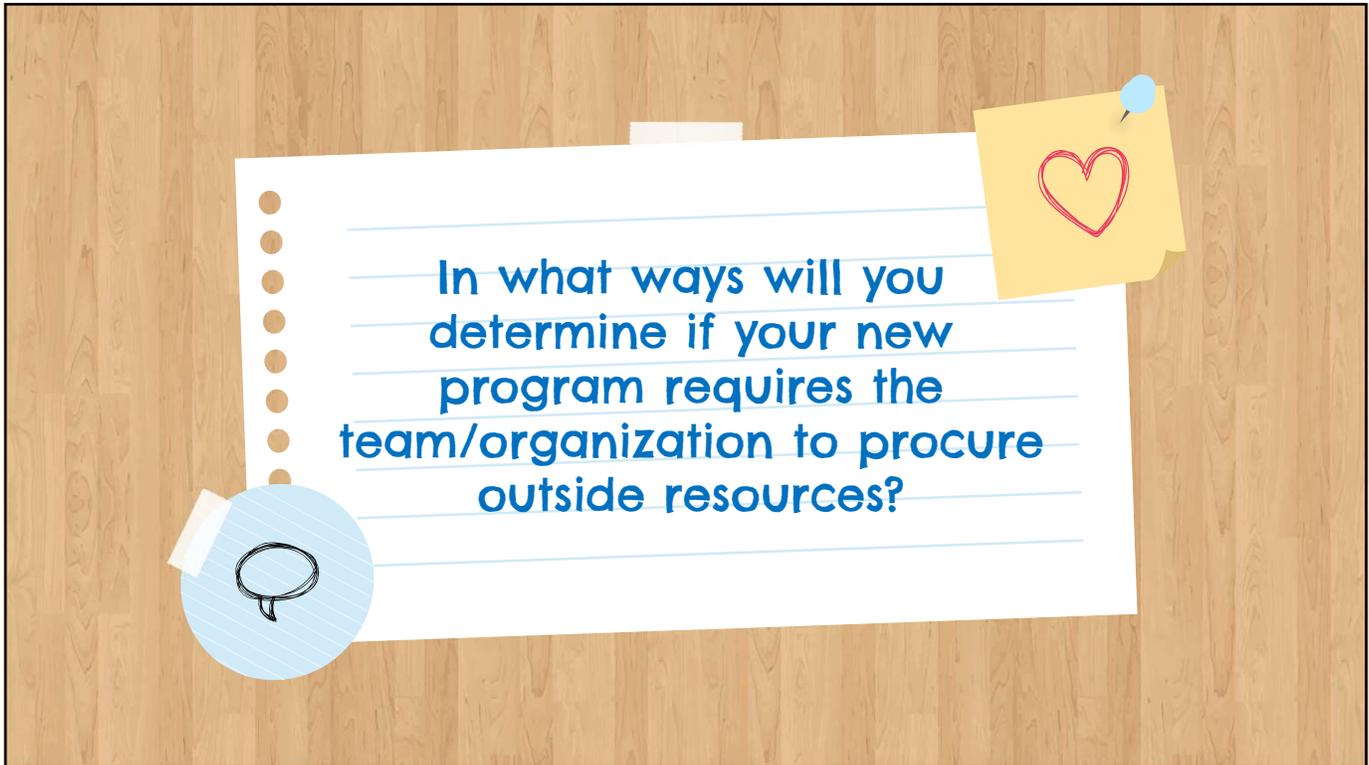
132



133

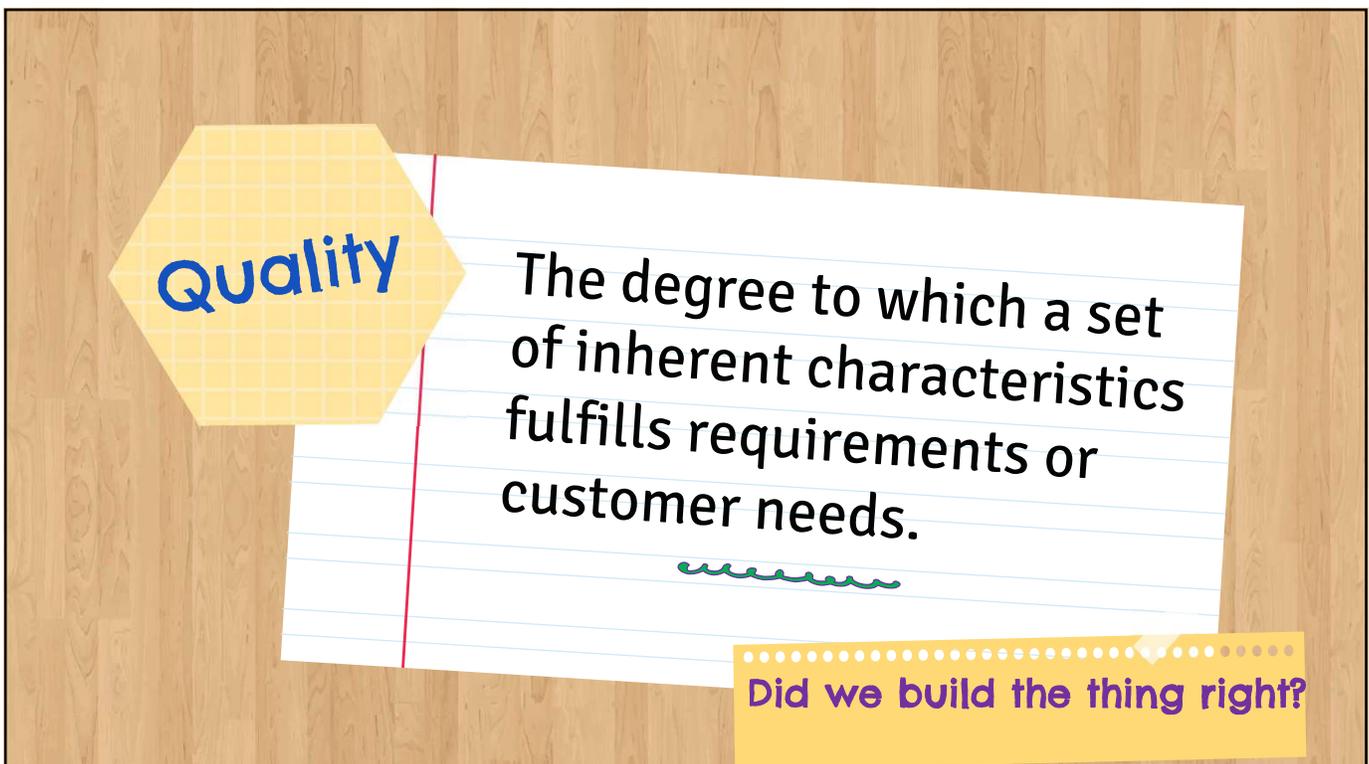


134



In what ways will you determine if your new program requires the team/organization to procure outside resources?

135



**Quality**

The degree to which a set of inherent characteristics fulfills requirements or customer needs.

Did we build the thing right?

136

## Quality Management

- Determining the degree to which the project (program) fulfills requirements and satisfies the needs for which it was undertaken... *Did we build the thing right?*
- Committing to continuously improving processes - However small, no matter who

137

## Quality Management

Planned in  
Planned for

Quality

**Product**

End result -  
deliverable

**Process**

How things are  
getting carried out

Are the walls the right color?  
Are there paint splatters on the floor?

138

## Quality

What might be all the criteria you could use to determine if you “built your program right”?  
How might you prioritize identified criteria?



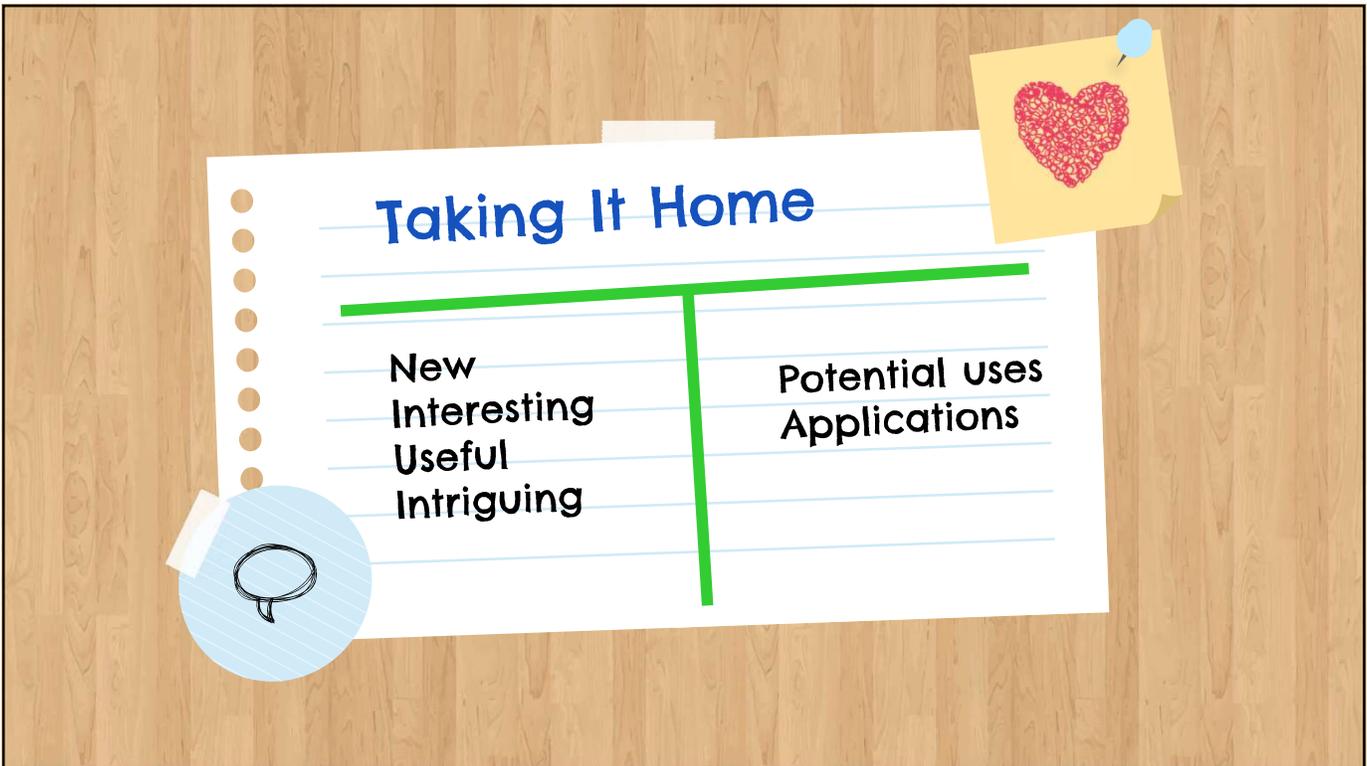
139

How might the information presented today strengthen the quality of your proposal and increase the success of new program proposals?

140



141



142



143