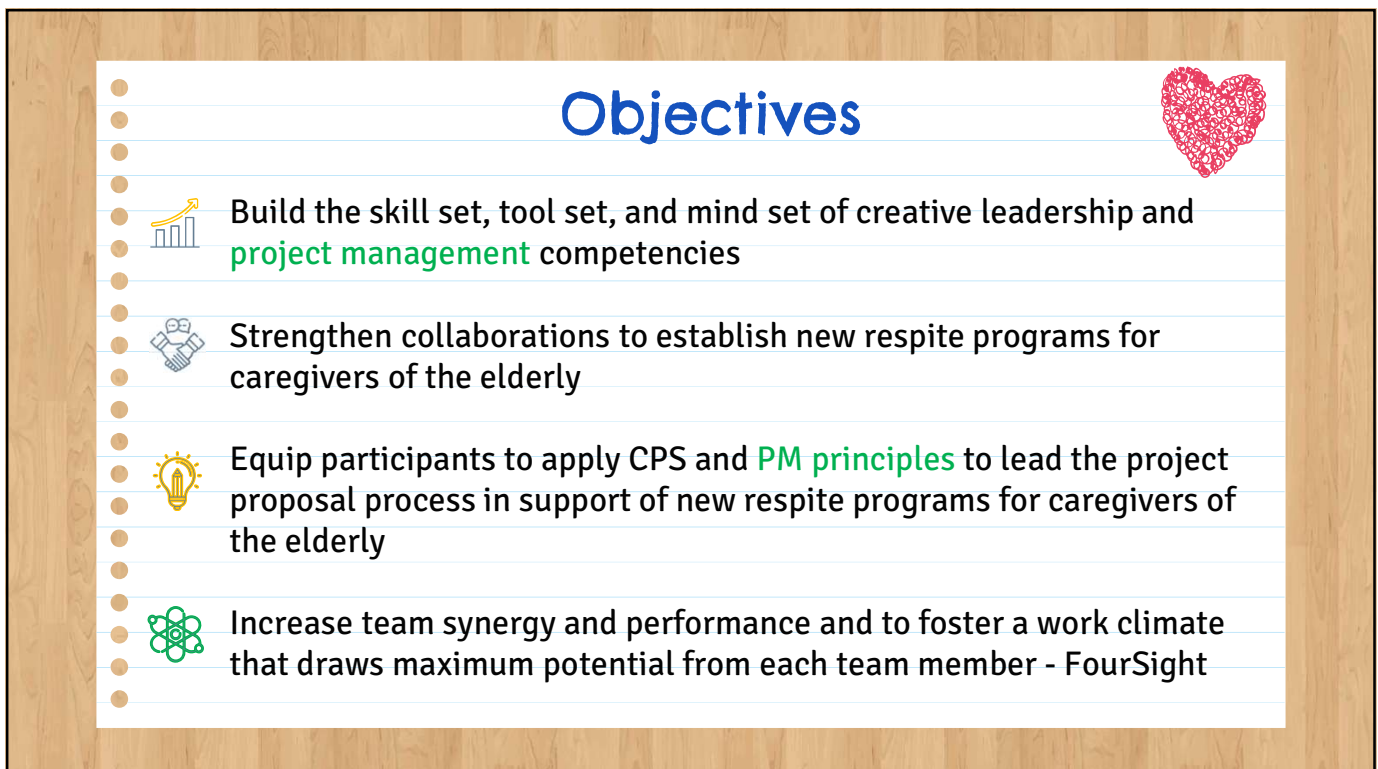
A slide titled "Project Management Principles" on a lined paper background. The paper is pinned to a wooden surface with a green pushpin. In the top right corner, there is a yellow sticky note with the "exhale" logo and the text "THE FAMILY CAREGIVER INITIATIVE". The title "Project Management Principles" is written in blue. Below it, the name "Teresa Lawrence, PhD, PMP, CSM" and the word "Exhale" are written in black.





# Project Management Principles

Teresa Lawrence, PhD, PMP, CSM  
Exhale

1

A slide titled "Objectives" on a lined paper background. The paper is pinned to a wooden surface with a green pushpin. In the top right corner, there is a red heart icon. The title "Objectives" is written in blue. Below it, there are four bullet points, each with an icon and text. The icons are a bar chart, a handshake, a lightbulb, and a flower.

# 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.

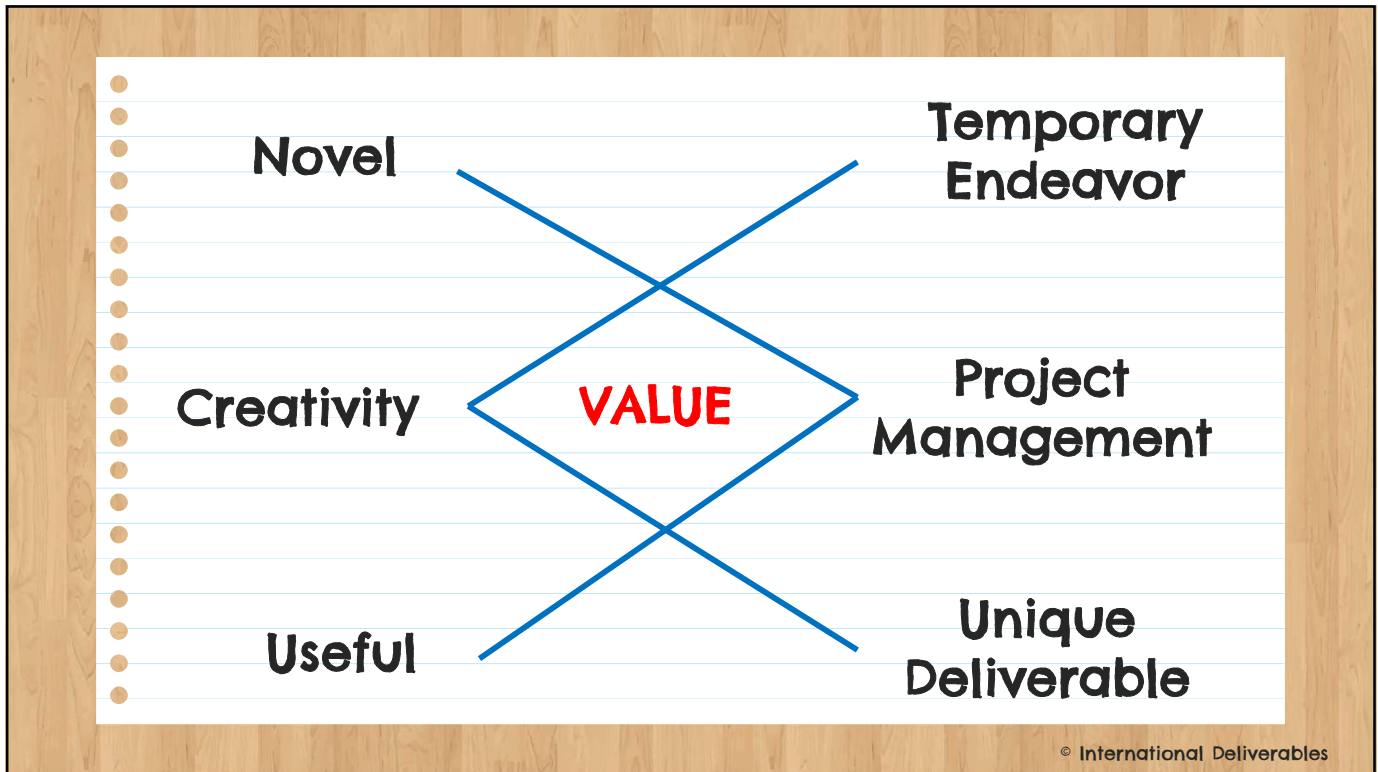
3

## Agenda

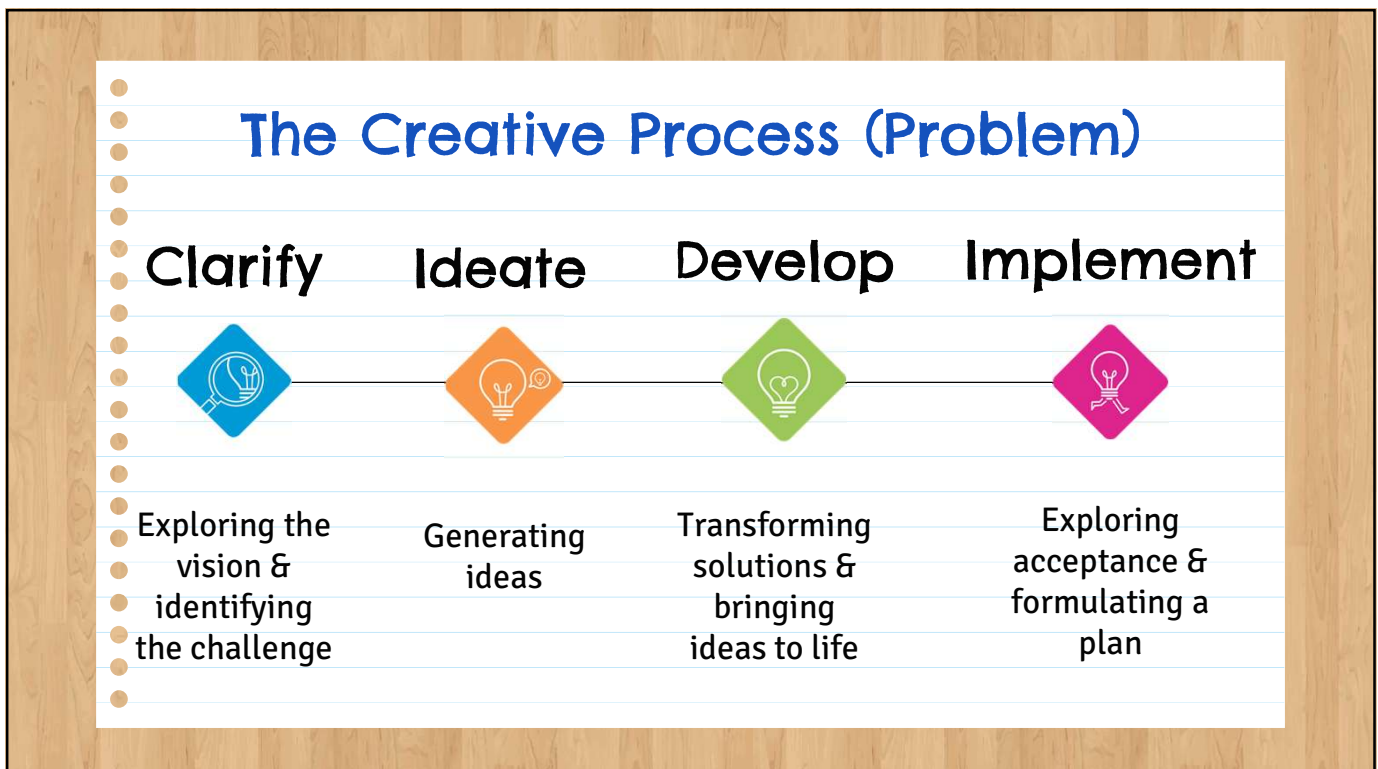


- A case for the intersection
- Project Management principles
- Applications to the proposal and new program idea
- Questions to consider

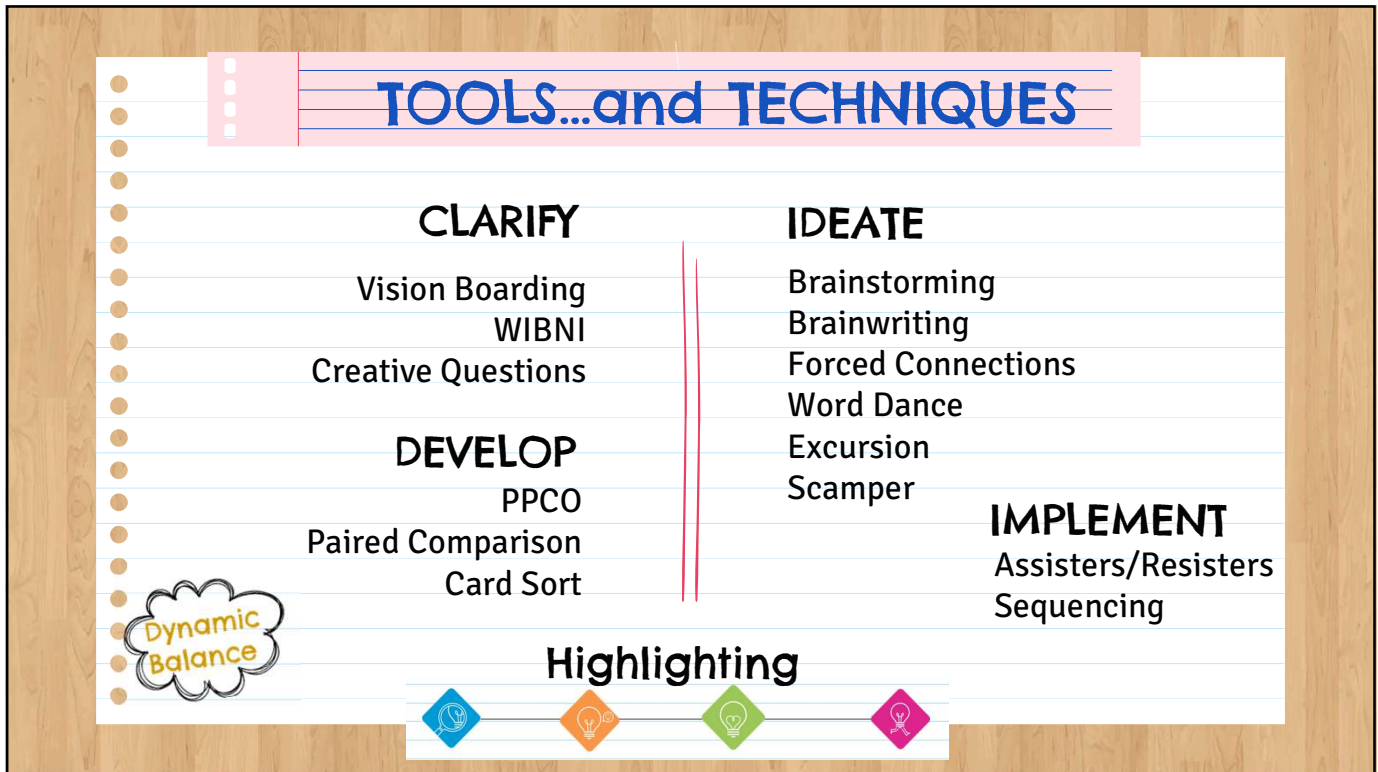
4



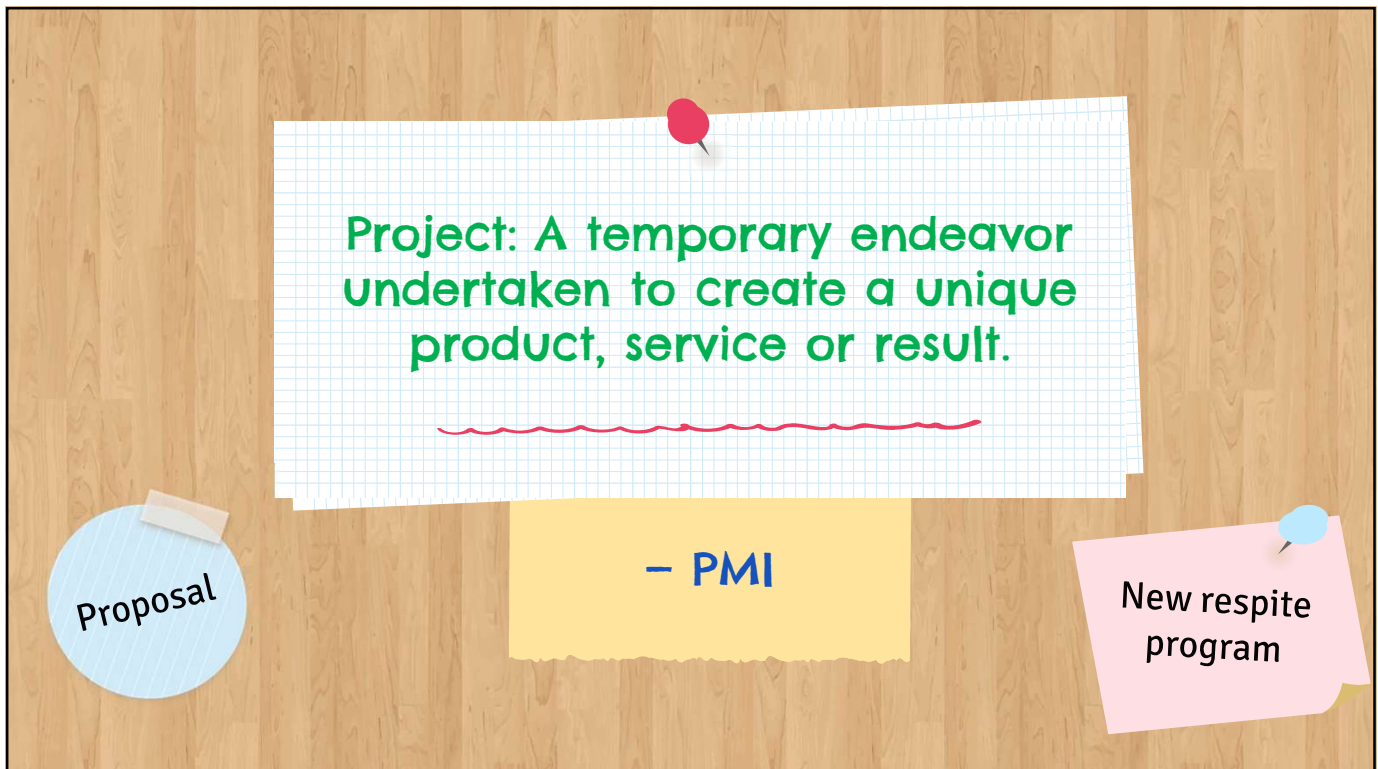
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8



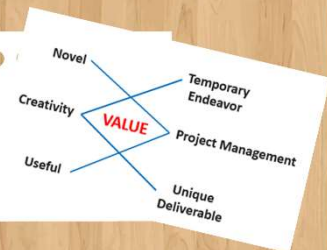
## Process Groups & Knowledge Areas

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*®, 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?

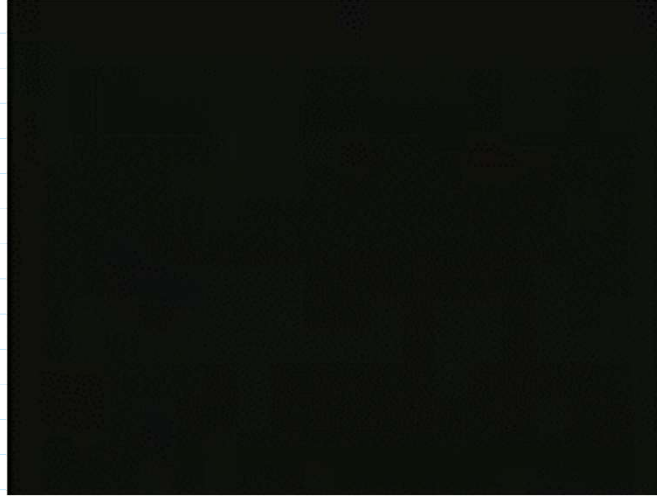
17

## 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)

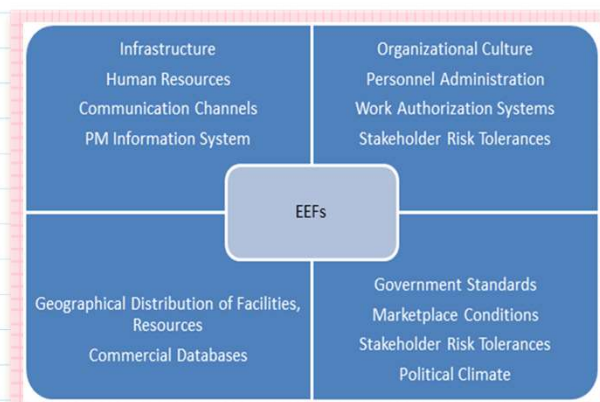


Reporting systems, project templates, resources used, correspondence, file-naming conventions, PM plans and project document, registers, lessons learned.

25

## Enterprise Environmental Factors (EEFs)

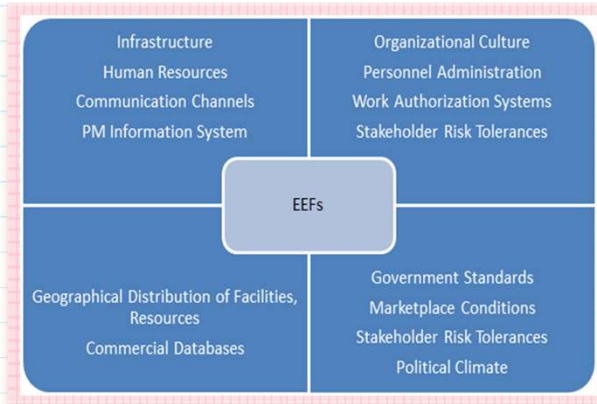
The internal, external, tangible, intangible factors influencing the project...conditions outside the control of the project team.



26

## Enterprise Environmental Factors (EEFs)

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



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## Tools & Techniques Output (ITTOs)



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

Outputs



What do I need before I can....

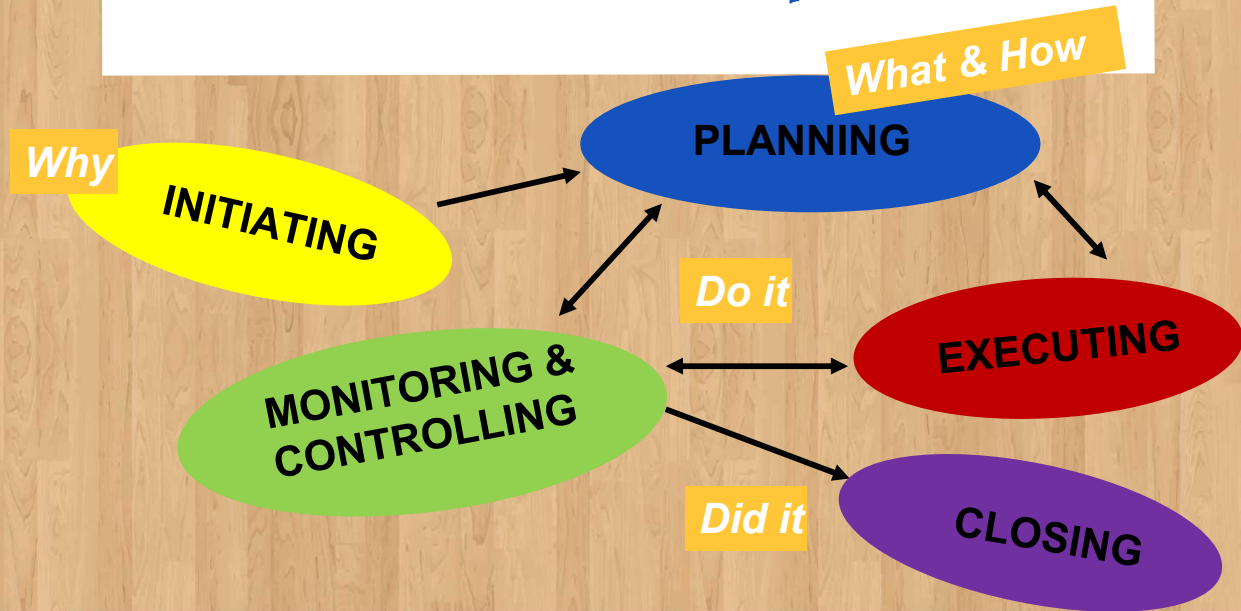
What is the best/most appropriate tool or technique I should use...

28





## Process Groups



31

## Process Groups

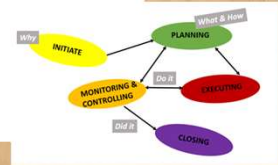
- **Initiating**: Visioning and authorizing the project
- **Planning**: Defining and refining project objectives
- **Executing**: Coordinating people and resources to carry out the project
- **Controlling**: Ensuring objectives are met and adjusting when needed
- **Closing**: Formulating the acceptance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



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## 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

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## Process Groups & Knowledge Areas

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

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## 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.



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## 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.



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## 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.



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

**Project  
Integration  
Management**

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## 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

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**Project  
Charter**

**Formally  
outlines the  
existence of a  
project**

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## 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.

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## 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?

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# Sample Charters

The collage features several sample project charters. On the left is a 'Pikes Peak Coffee (PPC) Innovation Project Charter' with 11 numbered sections: 1. Project Name, 2. Business Case, 3. Job Statement, 4. Customers, 5. Unmet Outcome Expectations, 6. Competing Solutions, 7. Key Assumptions to be Tested, 8. Expected Financial Impact, 9. Milestones/Timeline, 10. Project Investments, and 11. Team. In the center is a pink box with the text 'No charter No project'. To the right is a 'VALUE GENERATION PARTNERS' charter template with sections for Project Name, Project Sponsor, Impacted Business Department, Project Description, Project Goal, Success Criteria, Project Concerns, Charter Approvals, and Project Team. Below this is a 'Sample Project Charter and Scope Statement from Schwab's Information Technology Project Management, Third Edition, 2004'.

**Innovation Project Charter**

Project Name: Operation Feeding Frenzy 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 is the number-one priority, we believe the coffee market is saturated in the region. Research shows that about 35% 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.

**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.  
• Microwaveable/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.

**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 repaid in six months.  
• New offering will not significantly impact coffee order cycle times.  
• New offerings will be distinct from competitors'.

**Expected Financial Impact:**  
• 1st Qtr: \$750,000 Rev/\$300,000 net profit.  
• 2nd Qtr: \$1,200M Rev/\$480,000 net profit.  
• 3rd Qtr: \$1,300M Rev/\$520,000 net profit.  
• 4th Qtr: \$1,400M Rev/\$560,000 net profit.

**Milestones/Timeline:**

Define	Scheduled	Actual
Discover	06-09-12	
Develop	07-30-12	
Demonstrate	09-15-12	
	01-01-13	

**Project Investments**

Define	Discover	Develop	Demonstrate	Commercialization
\$5,000	\$7,000	\$10,000	\$30,000	\$246,500

**Team:**  
Randy Hadden, Aniket Bhonsle, Sunil Rajan, Ketan Shah

**VALUE GENERATION PARTNERS**

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

**PROJECT DETAIL**

**PROJECT DESCRIPTION** | **Problem**

**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 the resources.

**PROJECT MANAGER** The person who leads the project team, develops and executes the project plan, and manages risks, processes, and methodology.

**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 1-4 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, (110)889-5896, erica\_bell@jacksonconsulting.com

**Project Objectives:** Develop a new capability accessible on JPD 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.

**Roles and Responsibilities:**

Name	Role	Position	Contact Information
Jac Fleming	Sponsor	JPD Consulting	jac_fleming@jpdconsulting.com
Erica Bell	Project Manager	JPD Consulting	erica_bell@jpdconsulting.com
Michael Chen	Team Member	JPD Consulting	michael_chen@jpdconsulting.com
Kevin Dodge	Team Member	JPD Consulting	kevin_dodge@jpdconsulting.com
Cindy Dawson	Team Member	JPD Consulting	cindy_dawson@jpdconsulting.com
Kim Phang	Advisor	Client representative	kim_phang@client.com
Page Miller	Advisor	Client representative	page_miller@client.com

**Comments:** (Handwritten or 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

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## Charters

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

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## 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?

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## Stakeholder Management



Knowing who the stakeholders are and actively managing their expectations.


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## stakeholder

“A stakeholder can be a person, a group, or an organization that may be affected, or have any interest in the project, or the project’s outcome; either directly or indirectly.”

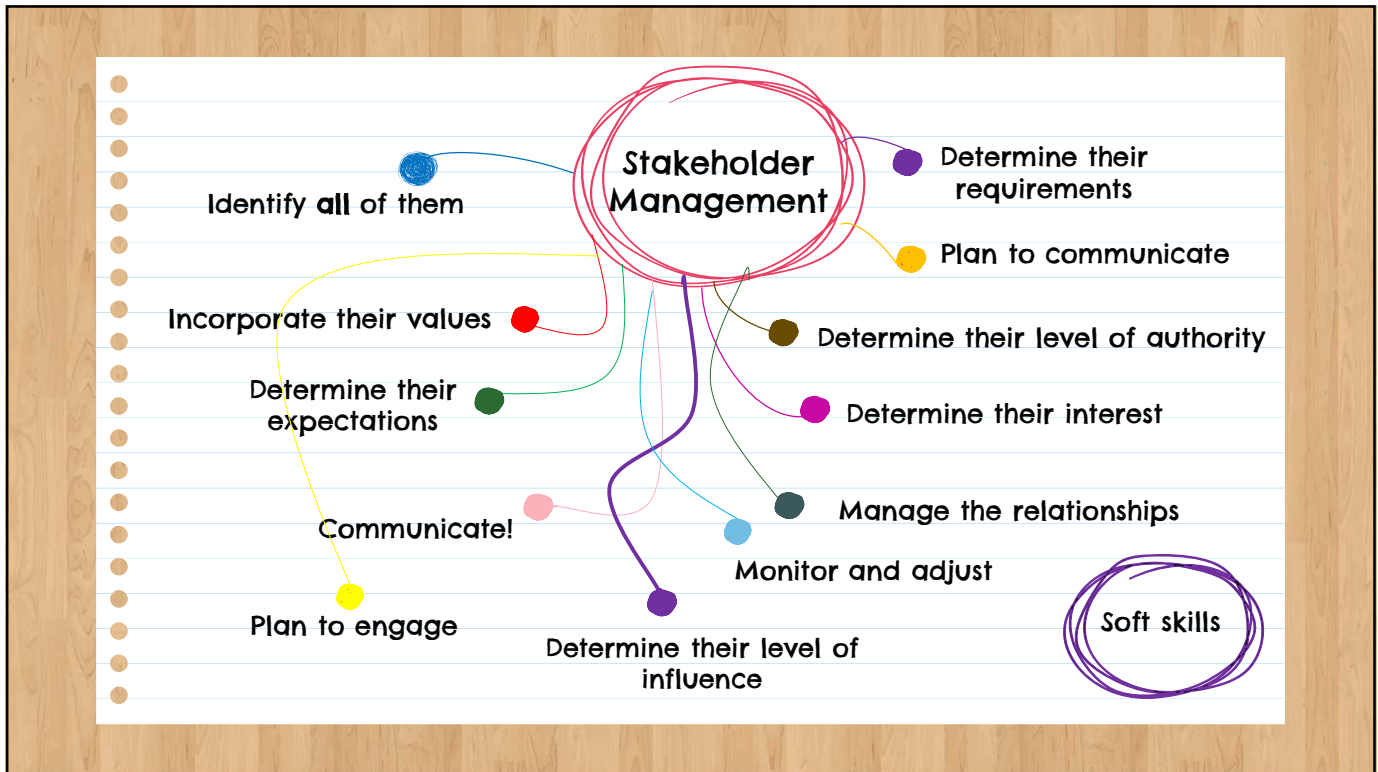
47



Project Management requires you to **identify** all stakeholders, **analyze** their power, interest and level of engagement, **elicit** their requirements and expectations, and then **evaluate** and **incorporate** all that information into the product/project scope as needed.

Engaging stakeholders occurs throughout the life of the project.

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49

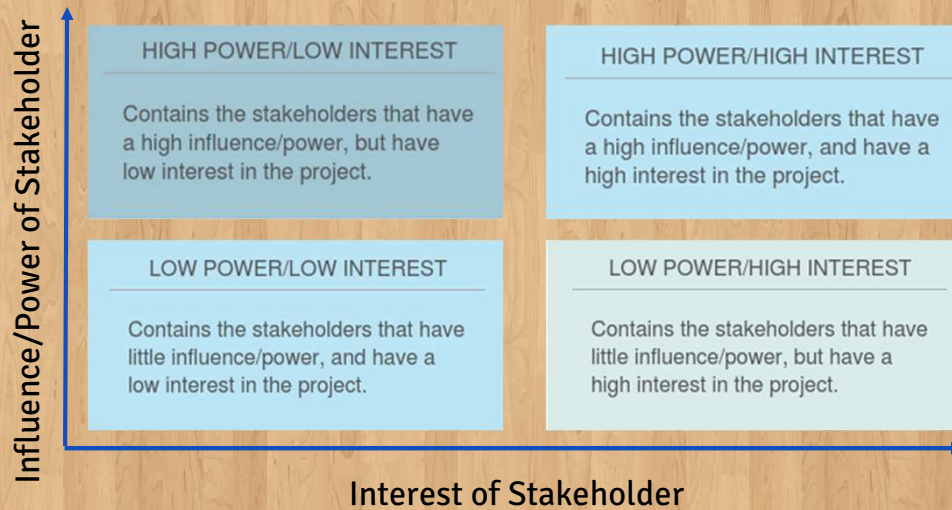


50



## Stakeholder Analysis: Power/Interest

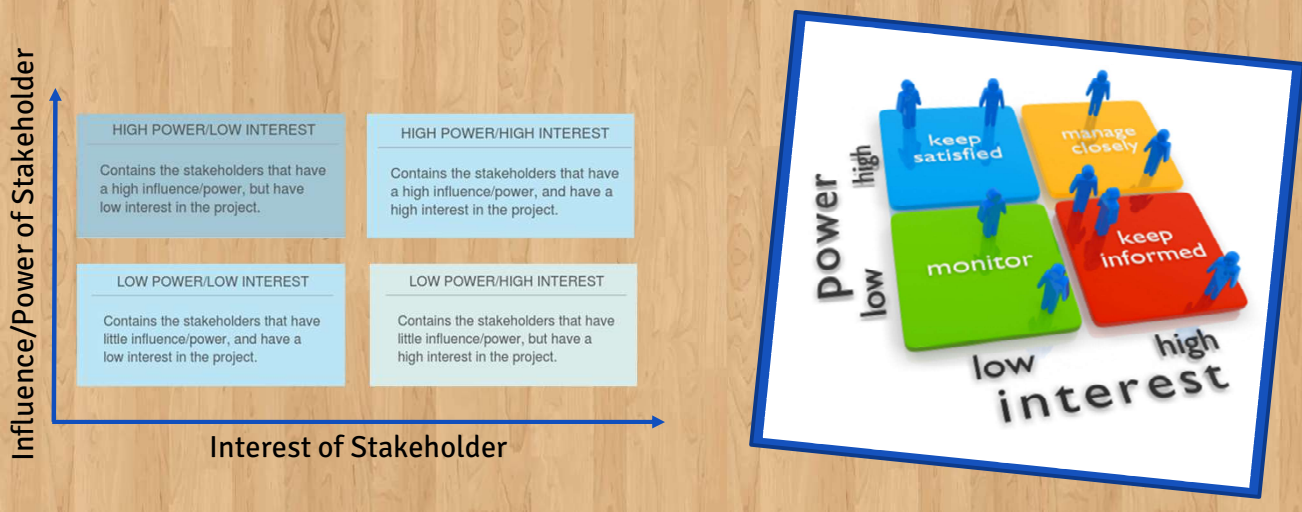
Grouping identified stakeholders based on their level of power and interest in the project's outcome



51

## Stakeholder Analysis: Power/Interest

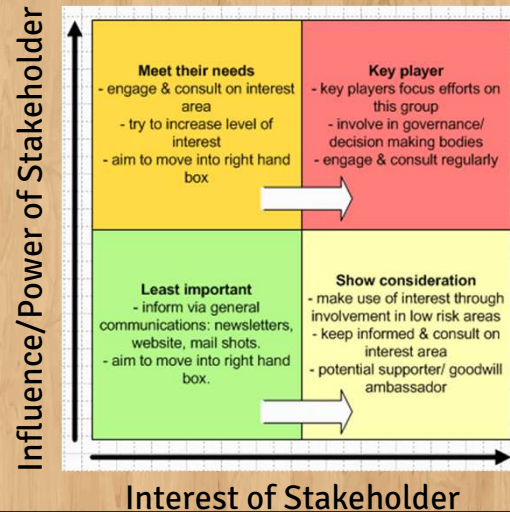
Grouping identified stakeholders based on their level of power and interest in the project's outcome



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				D C	

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

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## Stakeholder Analysis – Salience Model

### Salience

The quality of being particularly noticeable or important; prominence.

### Legitimacy

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

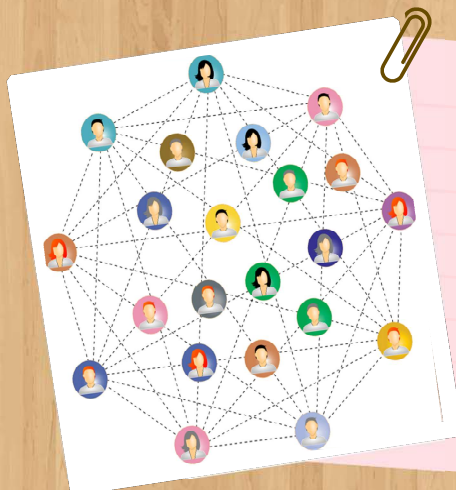
### Power

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

### Urgency

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

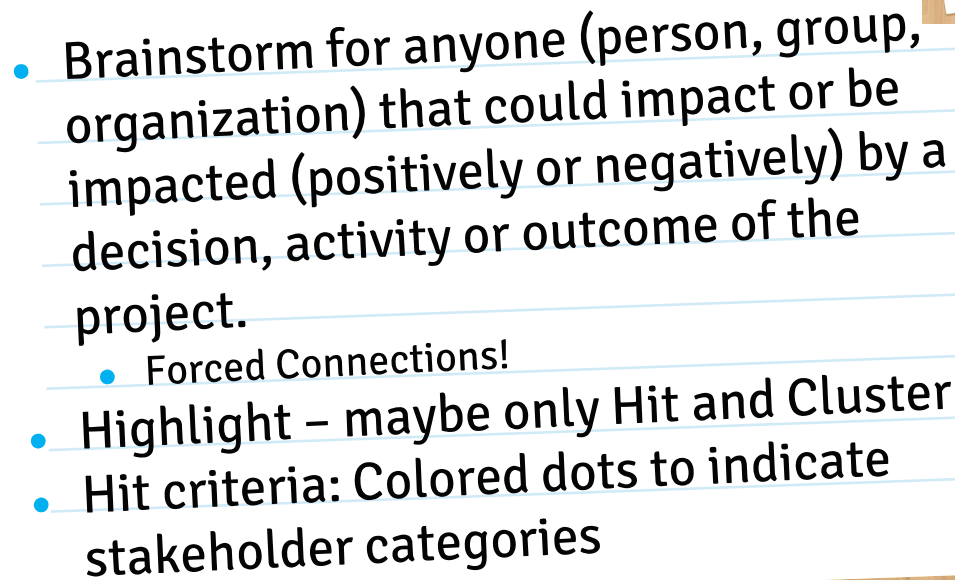
55



**WMBAT ways to  
classify *all*  
stakeholders?**

56



- 
- Brainstorm for anyone (person, group, organization) that could impact or be impacted (positively or negatively) by a decision, activity or outcome of the project.
    - Forced Connections!
  - Highlight – maybe only Hit and Cluster
  - Hit criteria: Colored dots to indicate stakeholder categories

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## Stakeholder Register

The **Stakeholder register** is a document that identifies, assesses and classifies the stakeholders of the project. It is also a document that provides information used to plan different ways on how to engage the stakeholders.

The stakeholder register is often subjected to many updates. The changes of updates may include the identification of new stakeholders or if registered stakeholders are no longer impacted in or involved in the project.

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## Stakeholder Register

Stakeholder Register						
Project Manager	Anthony Dawkes		Project Phase	Initiation		
Role	Contact	Category	Interest	Influence	Expectations	Comms requirements
Sponsor	Phone: +61 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: +61 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 8542533152 Email: suebie.barker@gmail.com	Internal	●●●	●●●	Project to be delivered on time within budget Timely approvals to be obtained	Email and Telephone
Dev Manager	Phone: +44 5671512134 Email: thomas.atkins@gmail.com	Internal	●●●	●●●	Develop responsive UI	Email and Telephone
QA Manager	Phone: +91 9852425634 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.

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## 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.

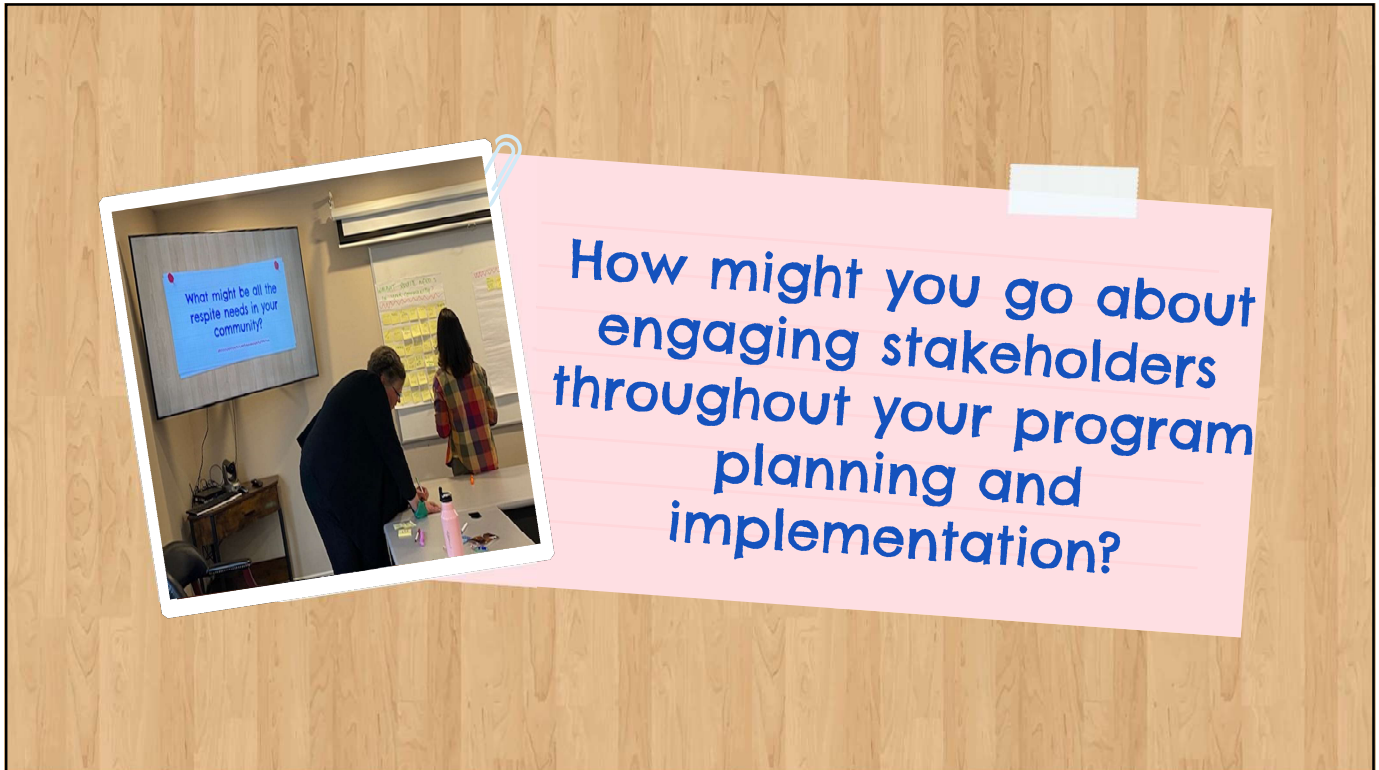
61

## Plan, Manage and Monitor Stakeholders

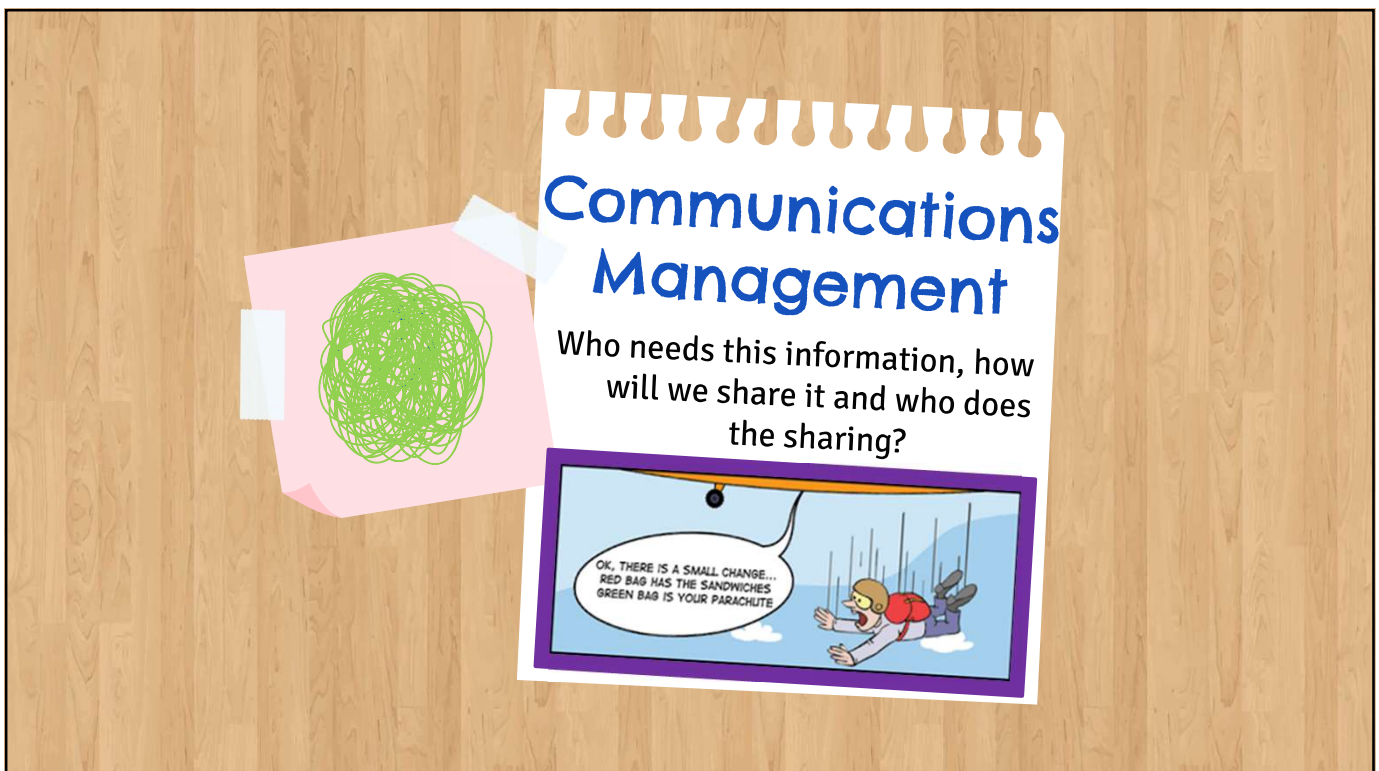


- Strategizing the approach for the balance of the project
- How the project impacts stakeholders
- How will the project team interact with stakeholders
- How will the project team involve stakeholders in making decisions about the project
- How will the team manage stakeholder expectations
- How will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

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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

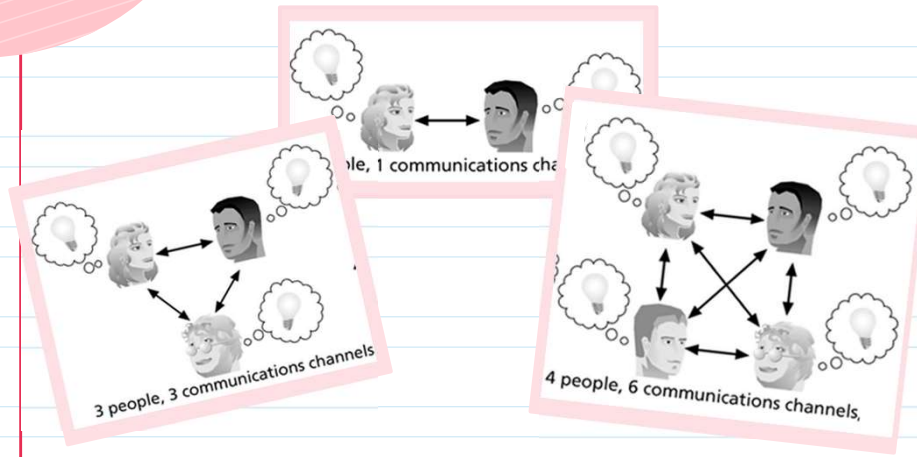


- Determining who needs what information, who will share it with them and how
- Setting up a communications plan and maintaining the necessary lines of communication within the team and across stakeholders
- Strategizing communications for project and stakeholder needs
- Identifying the number of communication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

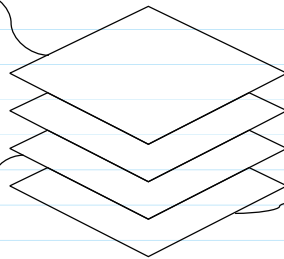
### Formal Written

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

### INTERACTIVE

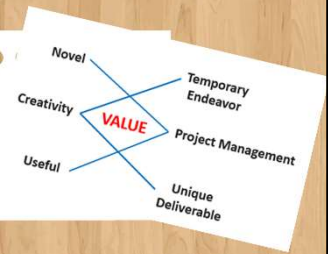
"EXCHANGE", formal  
confirmation of receipt –  
meeting, phone call,  
video conference



74



## Overarching Questions



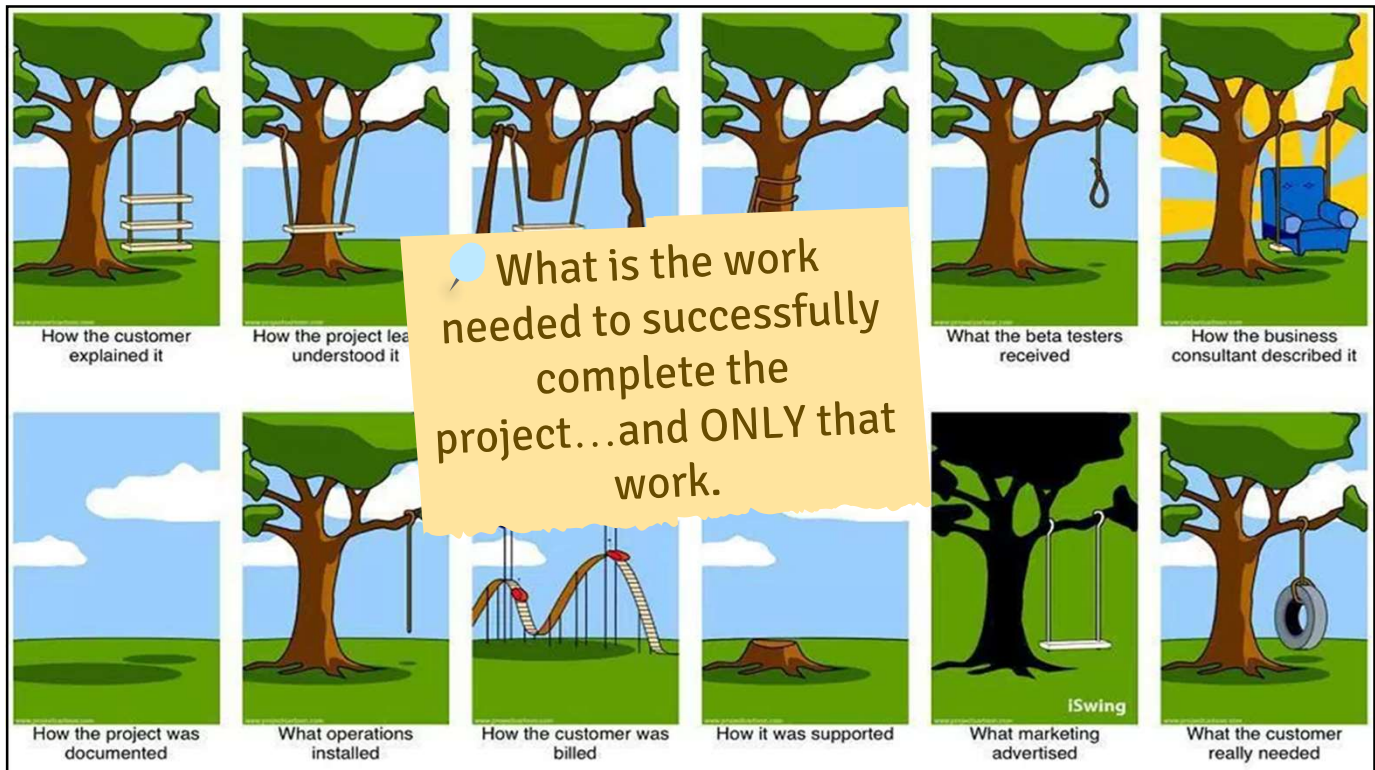
- In what ways might this apply to your proposal?
- How might this shape your new respite program idea?
- How to use divergent and convergent thinking?
- How might you apply the CPS thinking tools?
- In what ways does this new information build on your current practices?
- What might be all the ways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

75

## Scope Management

76





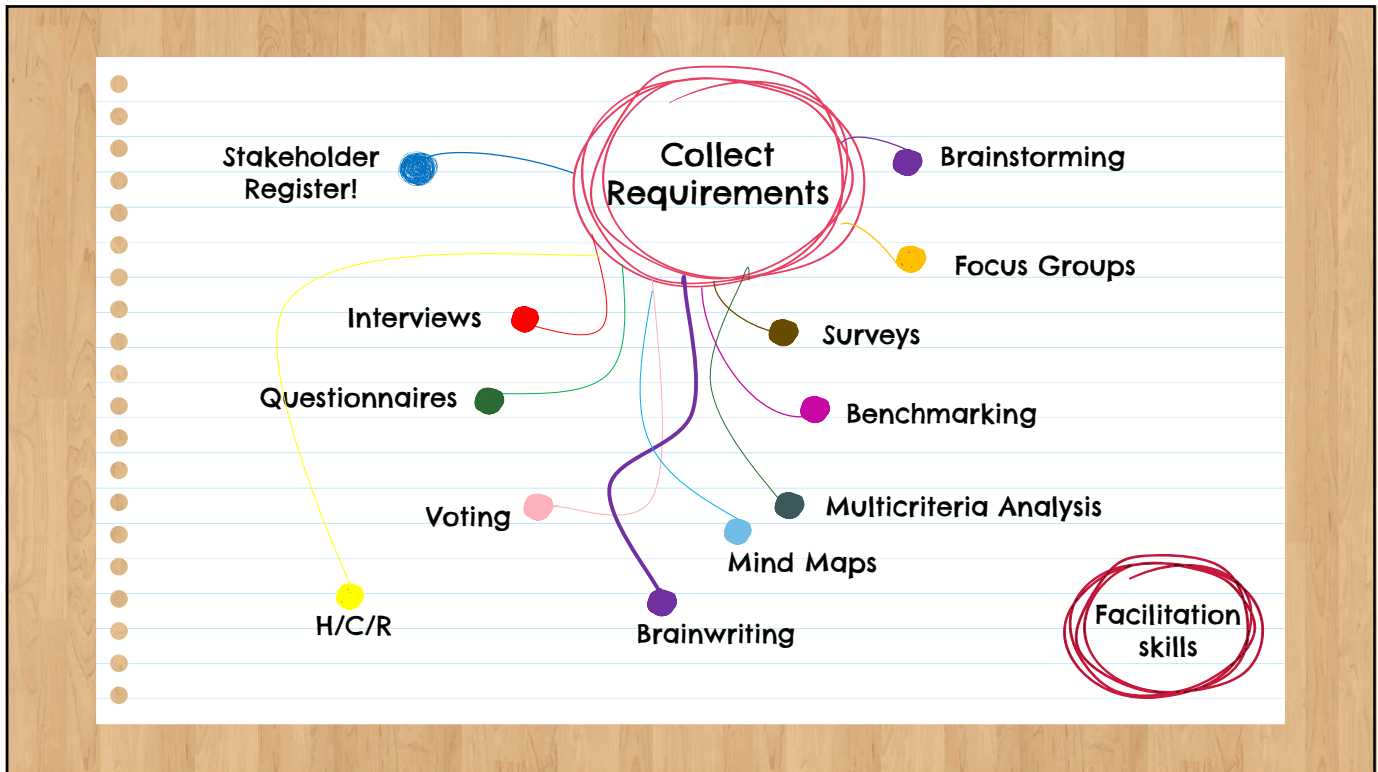
77

## 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.

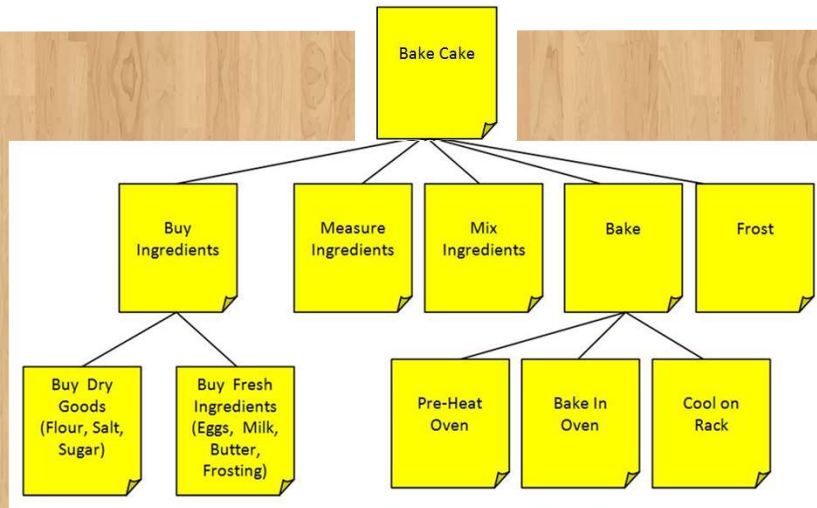
The WBS contains 100% of all the work in the project

82



## Work Breakdown Structure (WBS)

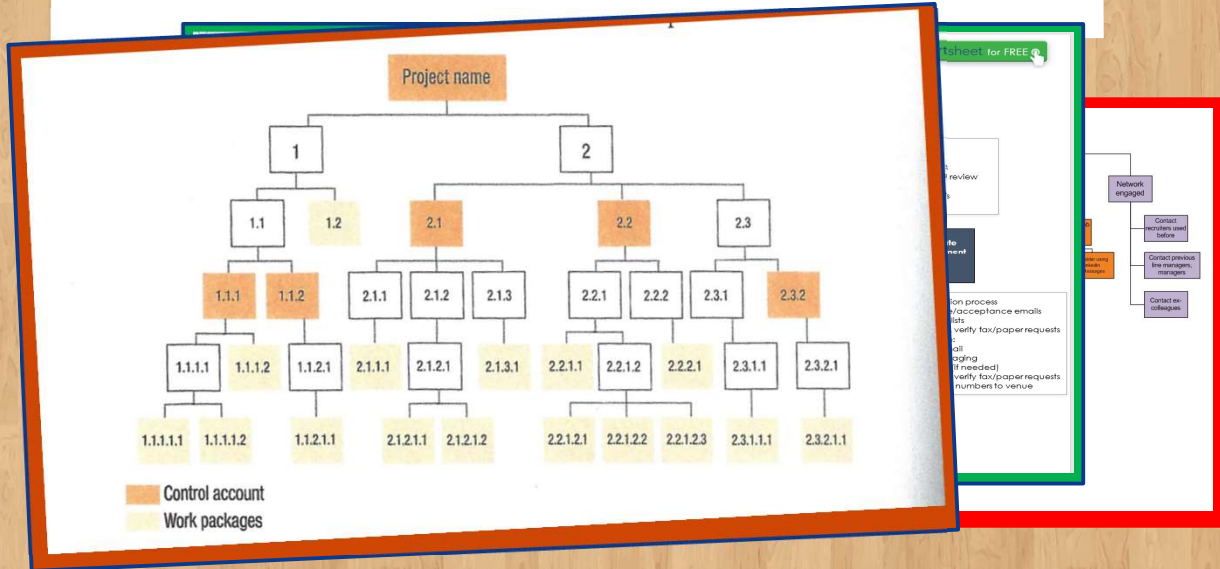
A graphical, hierarchical chart representing the work to be performed on the project



83

## Work Breakdown Structure (WBS)

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

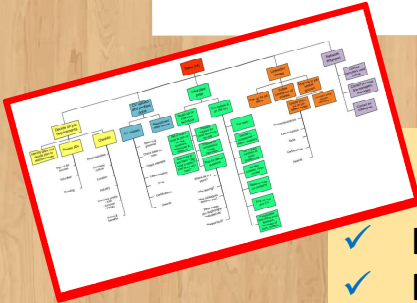


84



## 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

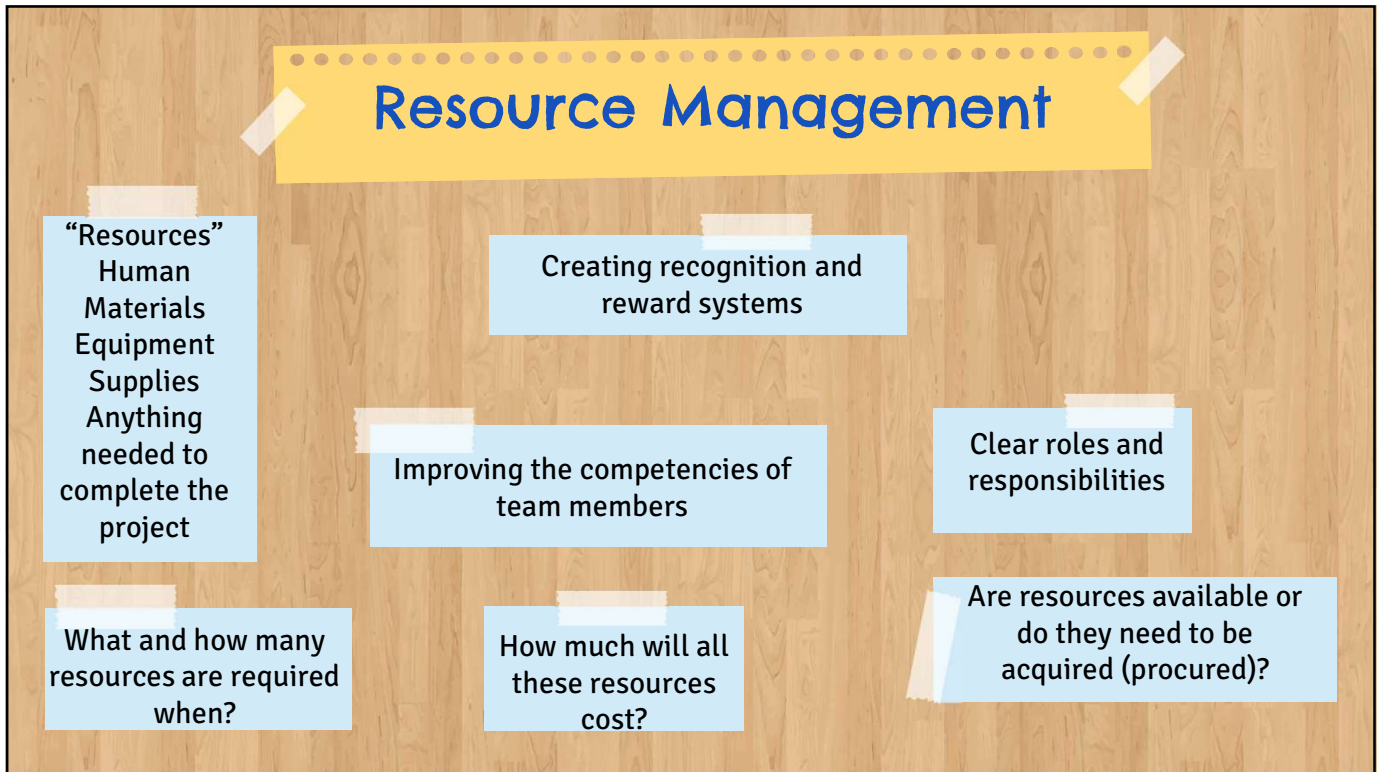
How might your team decide what is IN and OUT of your repsite program idea?

87

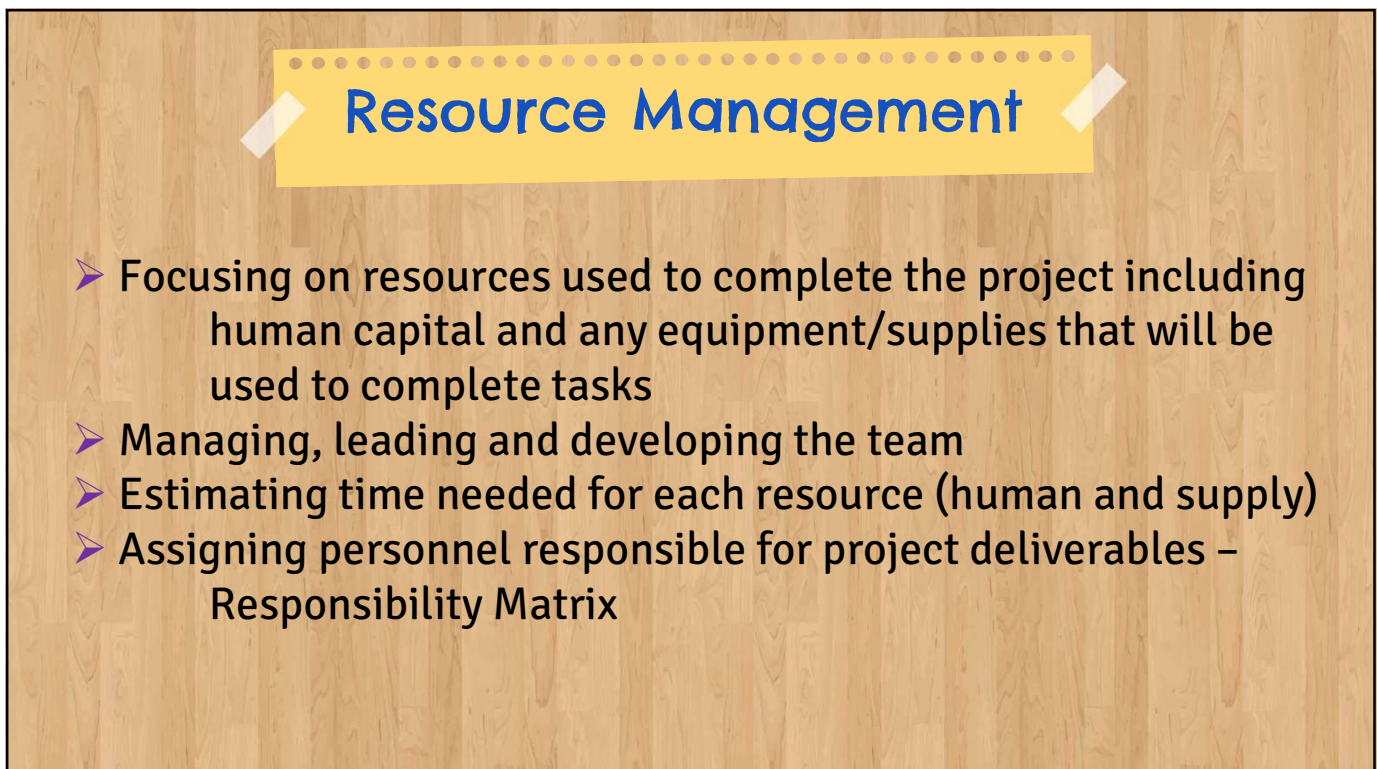
## Resource Management



88

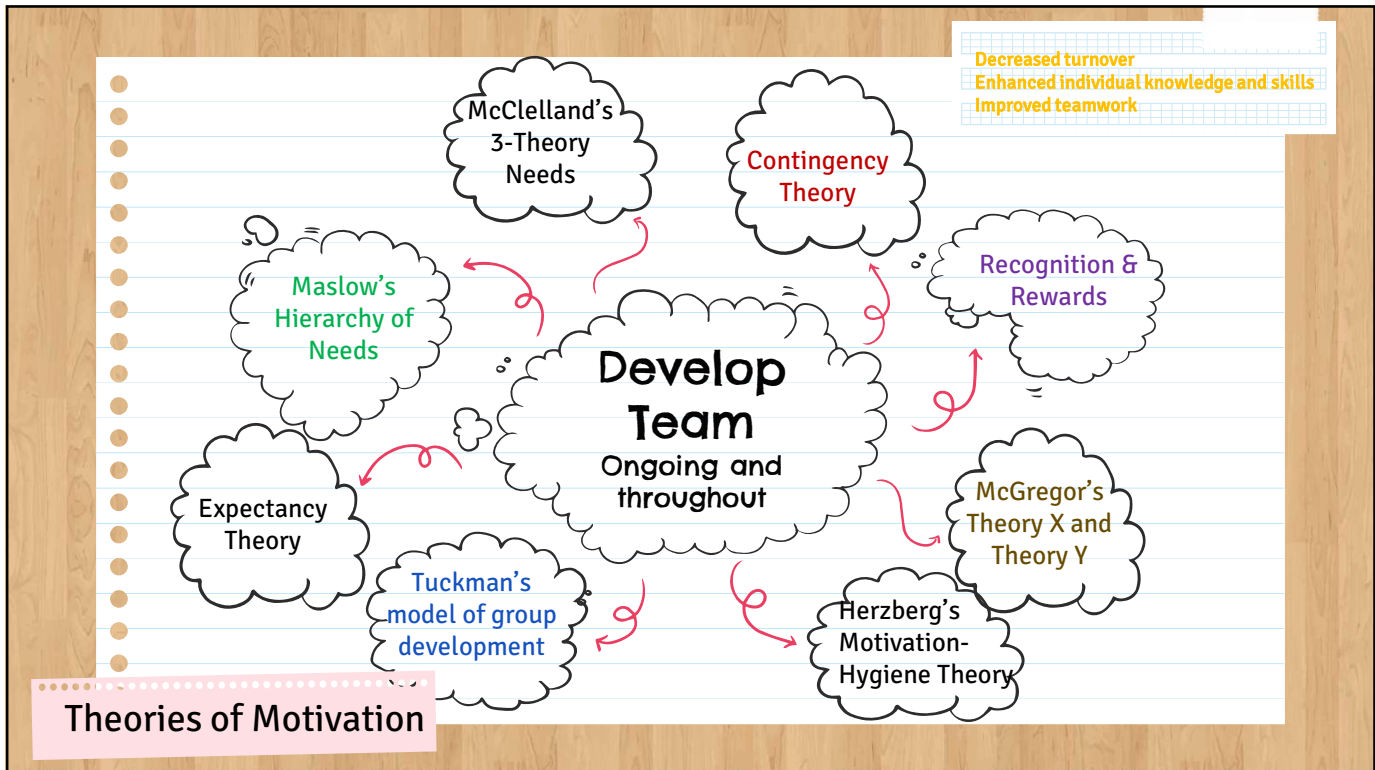


89

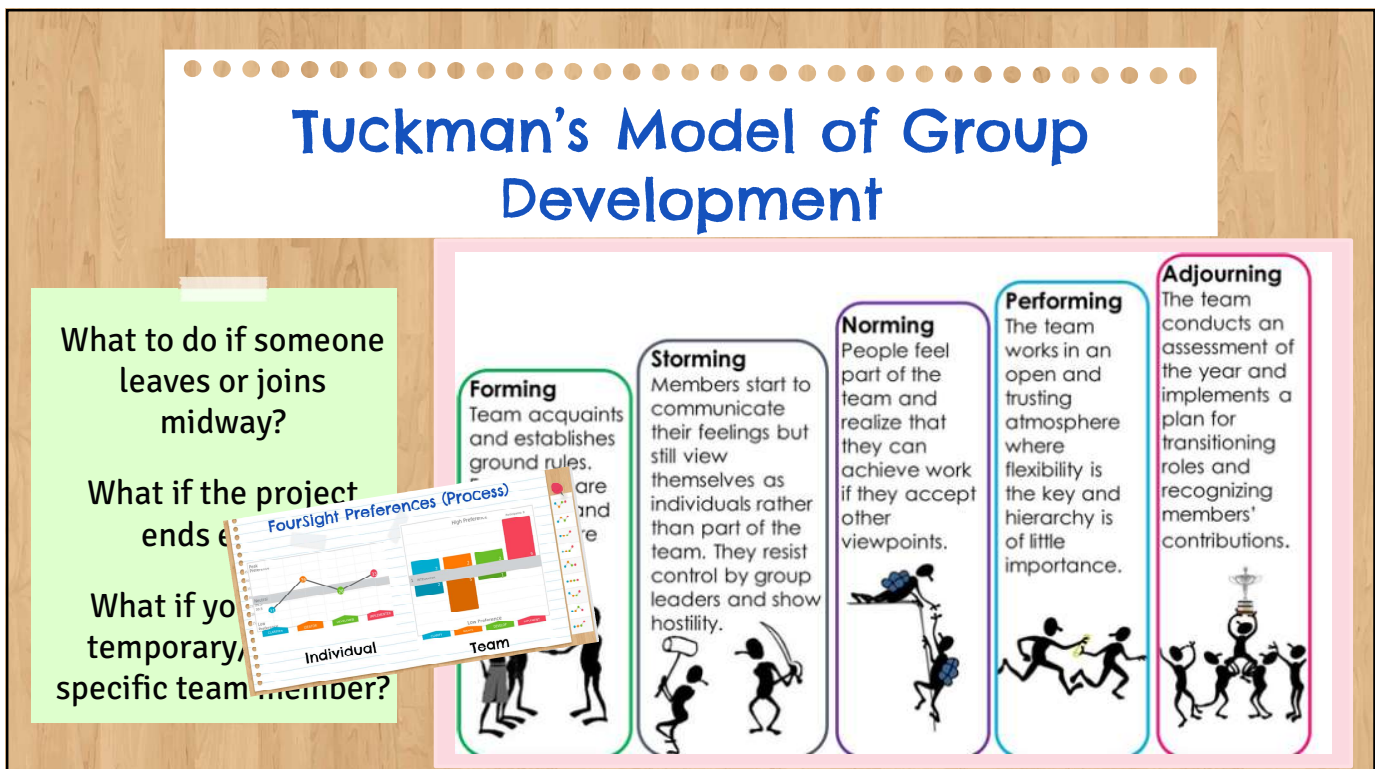


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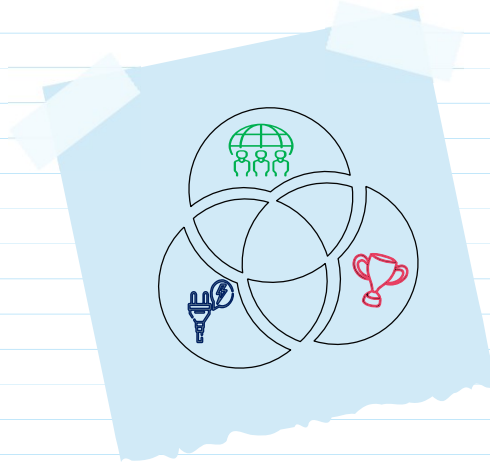
91



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?



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## 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

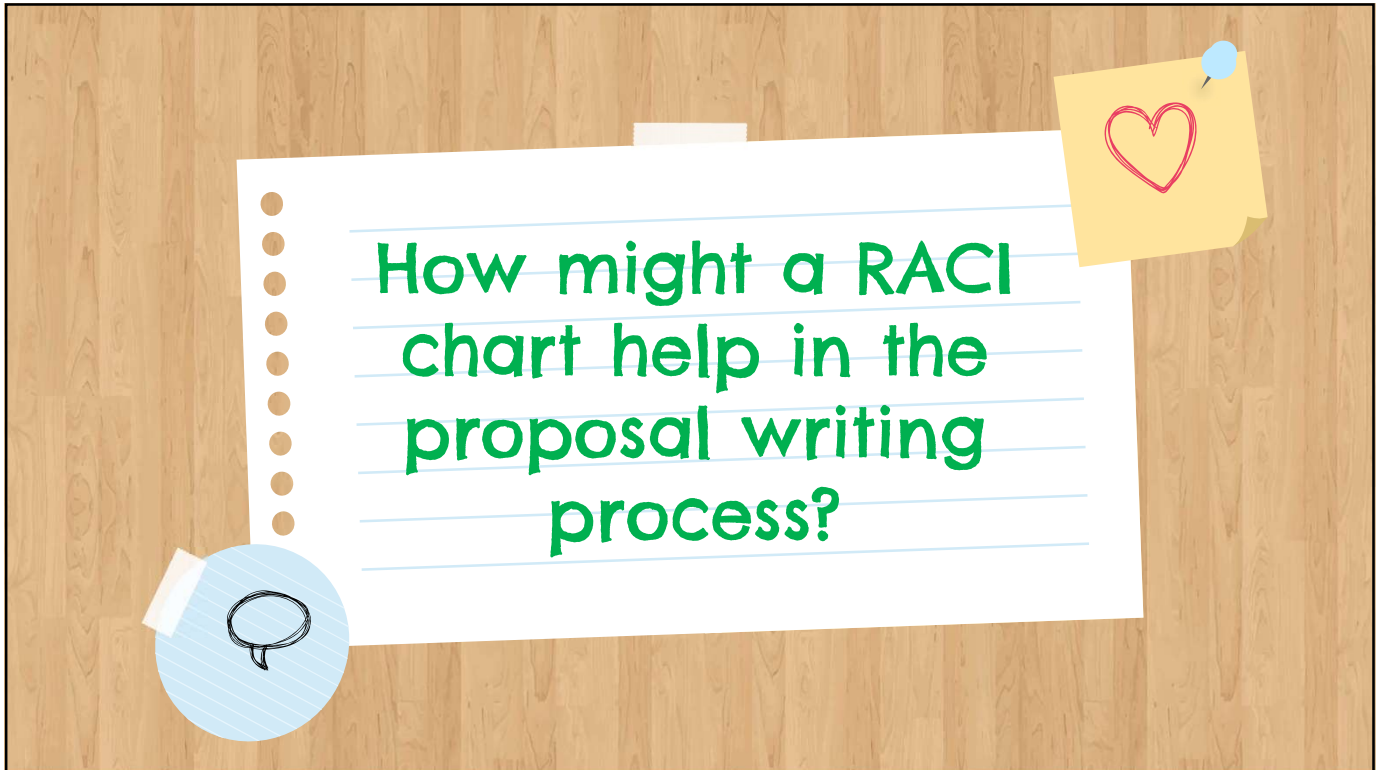
These people or groups will be kept up to date on the task or deliverable as they might be affected by the outcome of the task or deliverable.

95

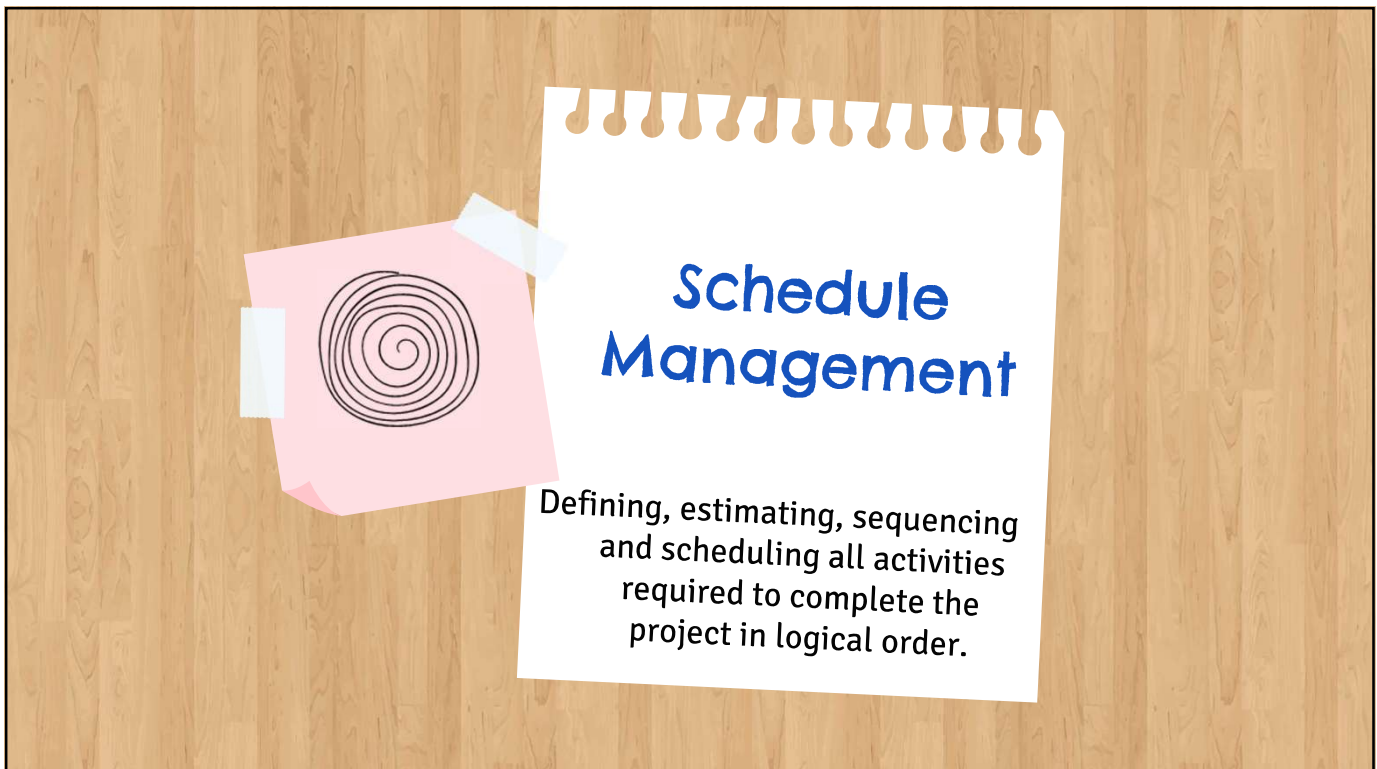
## Responsibility Matrix Charts - RACI

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

96



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## Schedule Managment

- 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.

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## 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

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## Dependencies



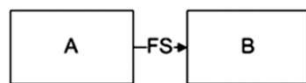
103

## Logical Dependencies

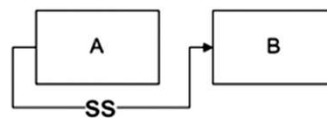
Washing,  
drying and  
waxing a car  
(95%)

Ending at the  
same time -  
Thanksgiving  
dinner

**Finish to Start**  
Task B can't start until Task A has finished

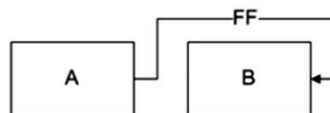


**Start to Start**  
Task B can't start until Task A has started

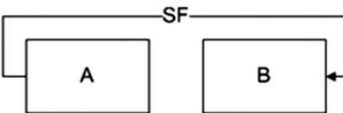


Election and  
election  
results

**Finish to Finish**  
Task B can't finish until Task A has finished



**Start to Finish**  
Task B can't finish until Task A has Started

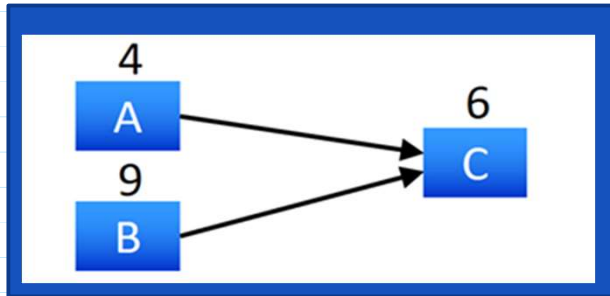


Cramming for  
an exam  
(Rarely...if  
ever)

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## 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

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## Network Diagrams

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

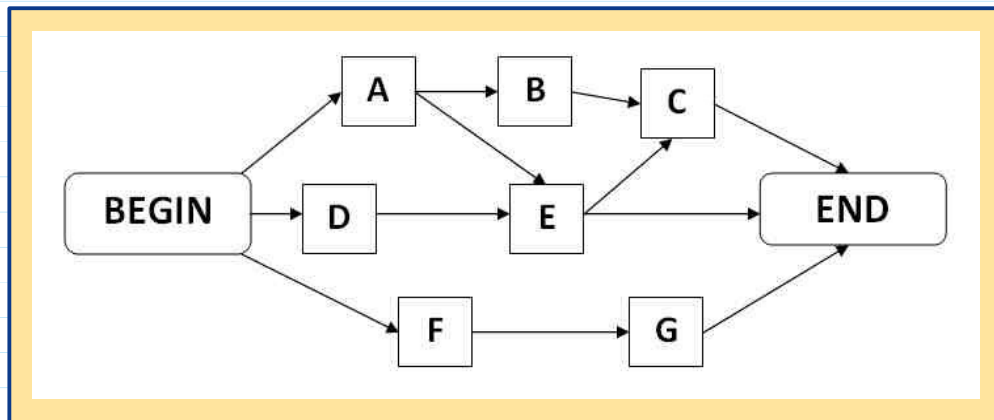
Show workflow to the team will know what activities need to happen in a specific sequence

Show project progress

106

## Sequence Activities

Network Diagram: A graphical representation of your project schedule.



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Get it  
done!

What's being  
done?

Who will do  
it?

By when?

Support/  
Report?

Short Term  
Actions

•  
•

•  
•

•  
•

Intermediate  
Actions

•  
•

•  
•

•  
•

Long Term  
Actions

•  
•

•  
•

•  
•

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## Sequencing - Schedule and Timelines



### Timeline

September - December			
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 admin, etc.	CSN 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 Sept. - Dec.	CBOs, BPS	9/1 and beyond	CBOs, BPS, Zia
Multi health clinic and legal services	Gather principals	9/1 and beyond	Breanna, Esther, principals Erica
SAT Prep	CSN (H), principals, CBO, organizations	Dec	Principals
Review Budget	BPS, CBO, CSN, principals	9/1 and beyond	Principals, CBOs, BPS
Increase parent engagement/involved parents	PD, BPS, CSN, SF	9/1 and beyond	PD, Erica
Attend 1st day school meetings	CSN, ZL, PD, site facilitators	9/1 and beyond	Principals
Visit community school in another community	CSN, ZL, PD, site facilitators	11/1	Tanya
Attend CSN MTG	CSN, SF	9/1	ZL, principals
Best practice guide implementation	Tanya, Arbit	9/15	CS planning team
Get community members involved	CSN, CBO	9/1 and beyond	CS planning team
Open SA	CSN, CBO	9/1 and beyond	CSN, CBO, ZL, principals, Erica, Arbit, Tanya
Open SF	CBO, CSN, principals	Oct 15	Tanya
Align what is happening in school with after school programs and Saturday Academics	All	Now and ongoing	CS planning team
Perform staff/parent evaluations	DVB & all orgs	Quarterly, annually	DVB Leads
Class zone communications	CSN, CBO, site facilitator	Monthly, start 9/1	CBO, BPS, ZL
Order supplies	CBOs, CSN, site facilitator	Monthly, start 9/1	CBO, BPS, ZL
Start street	CBOs, CSN, site facilitator	Monthly, start 9/1	CBO, BPS, ZL
Create new funding sources for school	All	Ongoing	All
CS Conference	Principals team	Nov. - Oct	Principals team
Invite partners to visit CS for their meetings	Principals, Arbit, Tanya, BPS, ZL	9/1 and beyond	Principals team
Integrate PTO/PTA into all events SA	PD	9/1 and beyond	BPS
Coordinate for festival request	CSN, CBO	9/30	CSN, CBO
Get annual PD for vendors	CBO, CSN, BPS	8/annual	BPS, CBO
Coordinate community report survey	Principals team	11/1	Principals team
Family Appreciation Dinner	CSN, Gathering OFFE	Quarterly, annually	OFFE, Erica
Get Zone Champion Events	PD, CSN, CBOs	9/1 and beyond	ZL, Principal
SAG Groups	CSN	9/1	Principals
Detail up well	CSN	10/1	Erica, Breanna
Spoke March Club	Gathering, OFFE, CSN	Quarterly	OFFE, Erica
Community list based on zones	PD, CSN	9/1 and quarterly	Erica
January - March			
Action To Be Done	Who Will Do It	By When	Report/Support
Prepare for parent summit	Gathering, Breanna	1/1	OFFE
Coordinate for 1st day request	CSN, Site facilitator	1/1	CBO, BPS
Prepare for BFP	DVB, BPO	1/1	BPS
Take care of garden	CSN principals, engineers	3/1	Principals, CBOs
Advocacy	CS Team	1/24 (Advocacy)	Leadership, CS coalition
Spent down budget	CSN principals, engineers	3/1	BPS
Conducting events, 1-2 Champion	PD, CSN, ZL	3/30	Principals
Annual Report Development	Communication team	3/1	Erica, Arbit
Perform internal school student survey	CSN	3/30	Arbit, ZL
Best planning 2020-2021 school year	PD, Planning team	3/30	Principals team, Principals
Increase participation	Principals, Nat (7) Partners, All	1/1 - 6/30	Erica, Breanna
April - June			
Action To Be Done	Who Will Do It	By When	Report/Support
Perform evaluations	Administrators	6/30	PD Leads
Inventory Completion	CSN, Site facilitator	6/15	Principals, BPS, CBO
Reflection of 2019-2020 Program	All	6/30	All
Have final data points available	CSN, SF	6/15	Erica
End of year celebration	School day after school SA, CSN, SF	May - June	Principal, ZL, CBO
Quarterly and end of year partner update	Arbit, Tanya, Team	Quarterly	Community Partners
Submit semester Engagement Report	PD, CSN	Monthly	Erica, OFFE
Subsequent Activity Completion	CBO, CBO, Principals	6/30	Principals, Erica
Review/look well survey @ all CS Saturday Academy	PD	Monthly	ZL

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## Cost Management



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## 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



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## 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

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## 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.

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## Estimate Costs

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

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## 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.

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### Advantages 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

### Disadvantages of Top-Down (Analogous) Estimating

How much leeway are you giving yourself with the estimates?

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How much leeway are you giving yourself with the estimates?

### Advantages of Bottom-Up Estimating

### Disadvantages of Bottom-Up Estimating

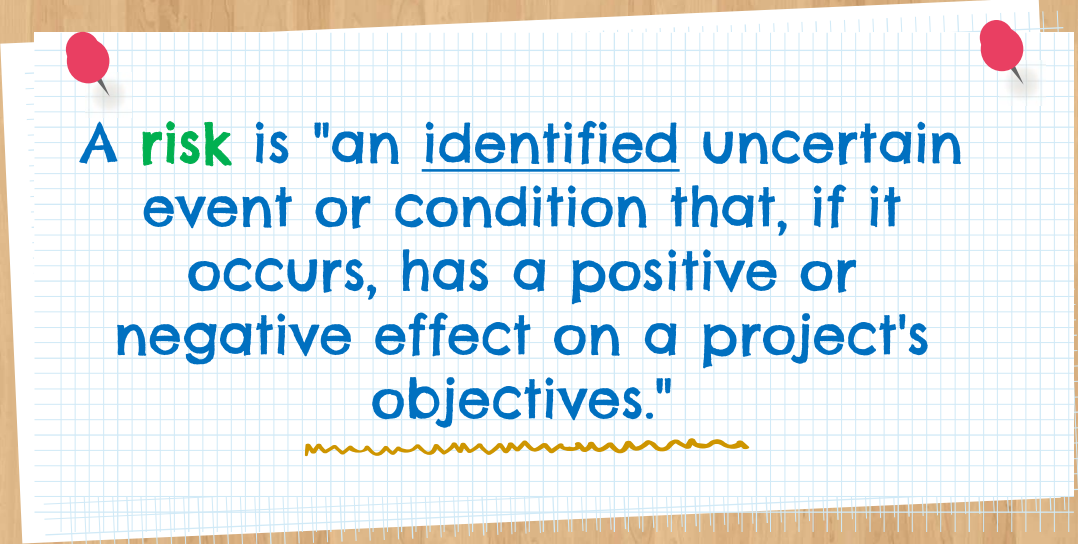
More accurate	Takes time and money (resources)
Gains buy-in from the team because the team creates estimates	Tendency for padding estimates
Based on a detailed project and deliverables analysis	Requires that the project is well defined and well understood
Provides a basis for control and management	Requires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

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## Risk Management



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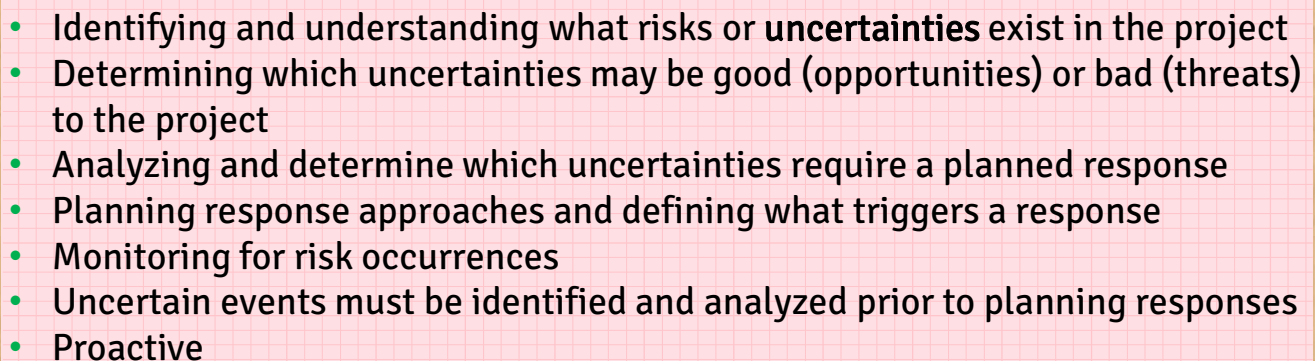


A **risk** is "an identified uncertain event or condition that, if it occurs, has a positive or negative effect on a project's objectives."

119

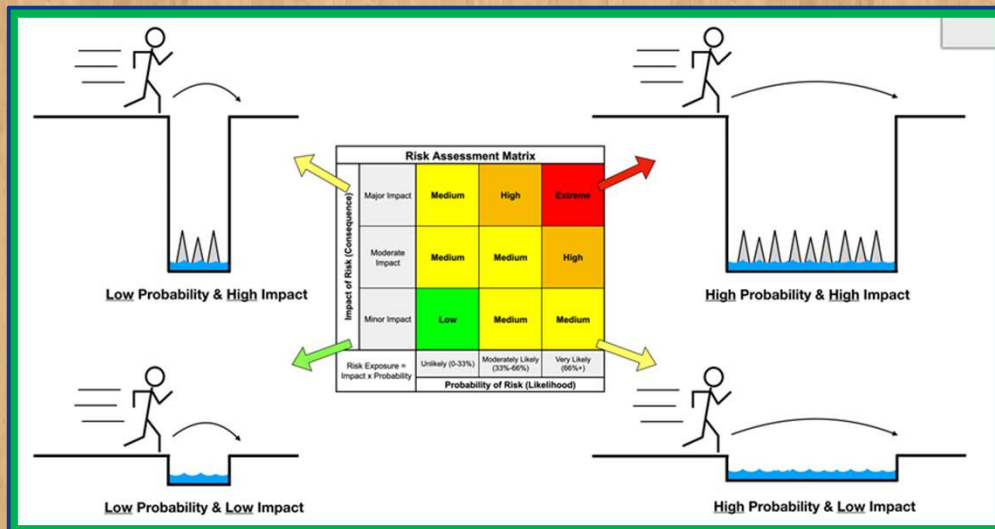


## Risk Management

- 
- 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

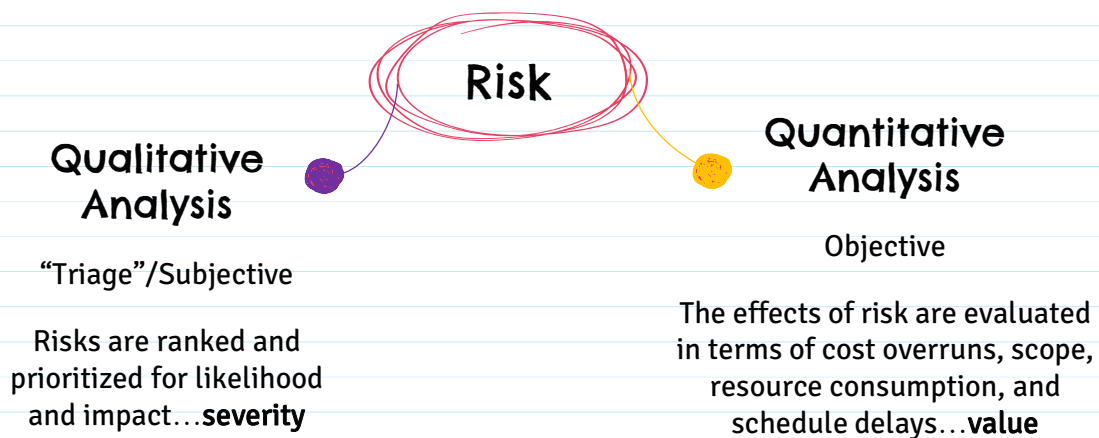
120

# Risk Management



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# Risk Management



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## 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

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## 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

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## 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

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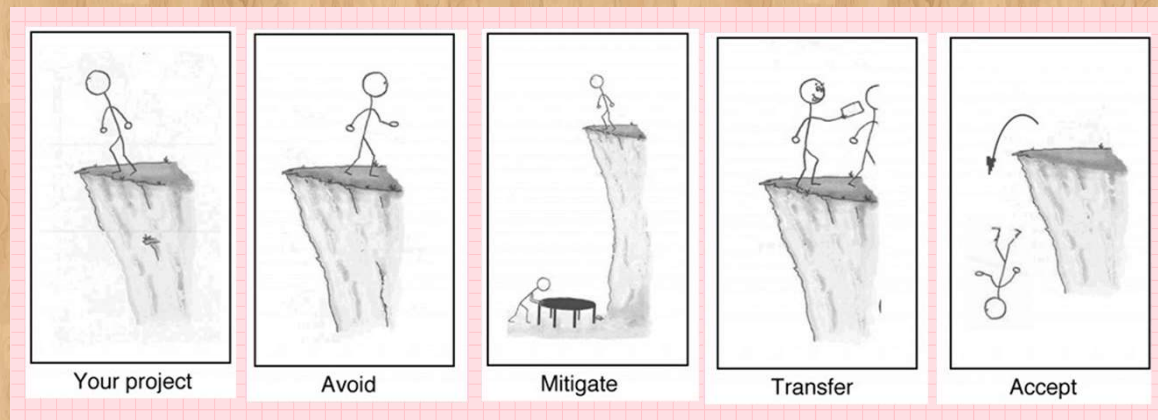
## Quantify Risk

Ask yourself:

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

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## Plan Risk Responses



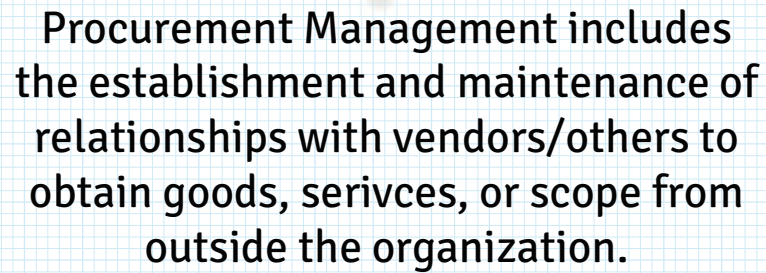
127

## 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?

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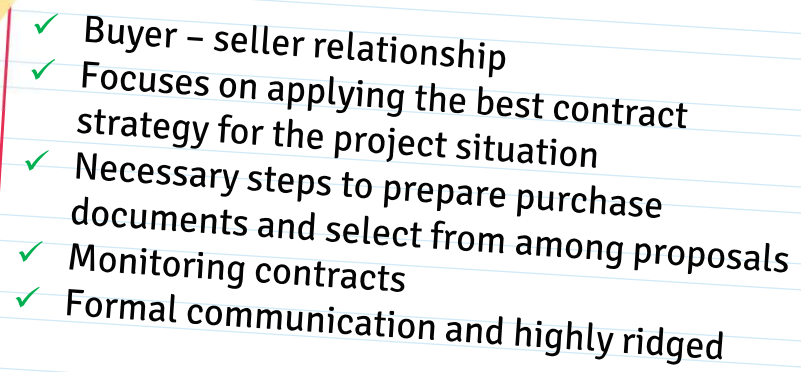
Procurement Management includes the establishment and maintenance of relationships with vendors/others to obtain goods, services, or scope from outside the organization.

– PMI

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## 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

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# Procurement Management

## Roles

### Buyer

The organization or party **purchasing (procuring)** the goods or services from a seller

### Seller

The organization or party **providing or delivering** the goods or services to the buyer.



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# Procurement Documents

## RFI

Request For Information

- Purchaser does not have sufficient information to write a detailed request
- Purchaser is not necessarily committed to buying
- Likely to involve a further request before a final decision.

## EOI / ROI

Request For Information or Registration Of Interest

- Similar to an RFI
- Often used as a screening or shortlisting tool
- Purchaser is not necessarily committed to buying
- Likely to involve a further request before a final decision.

## RFP / RFO

Request For Proposal or Request For Offer

- Purchaser seeks solutions-based submissions to meet their needs
- Possibly no clear specification
- Greater flexibility than an RFT
- Suited to professional services.

## RFT

Request For Tender

- Purchaser has clearly defined criteria or specification
- Judged on both price and qualitative factors
- Purchaser is committed to buying.

## RFQ

Request For Quotation

- Purchaser has clearly defined criteria or specification
- Judged primarily or solely on price
- Purchaser is committed to buying.

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## Contract

A mutually binding agreement that obligates the seller to provide the specified product or service or result and obligates the buyer to pay for it.

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## Contract Types and Risks

### Fixed Price Contracts

Seller provides material and time at a fixed price to the buyer  
Good for well defined statement of work  
Seller has bulk of risk

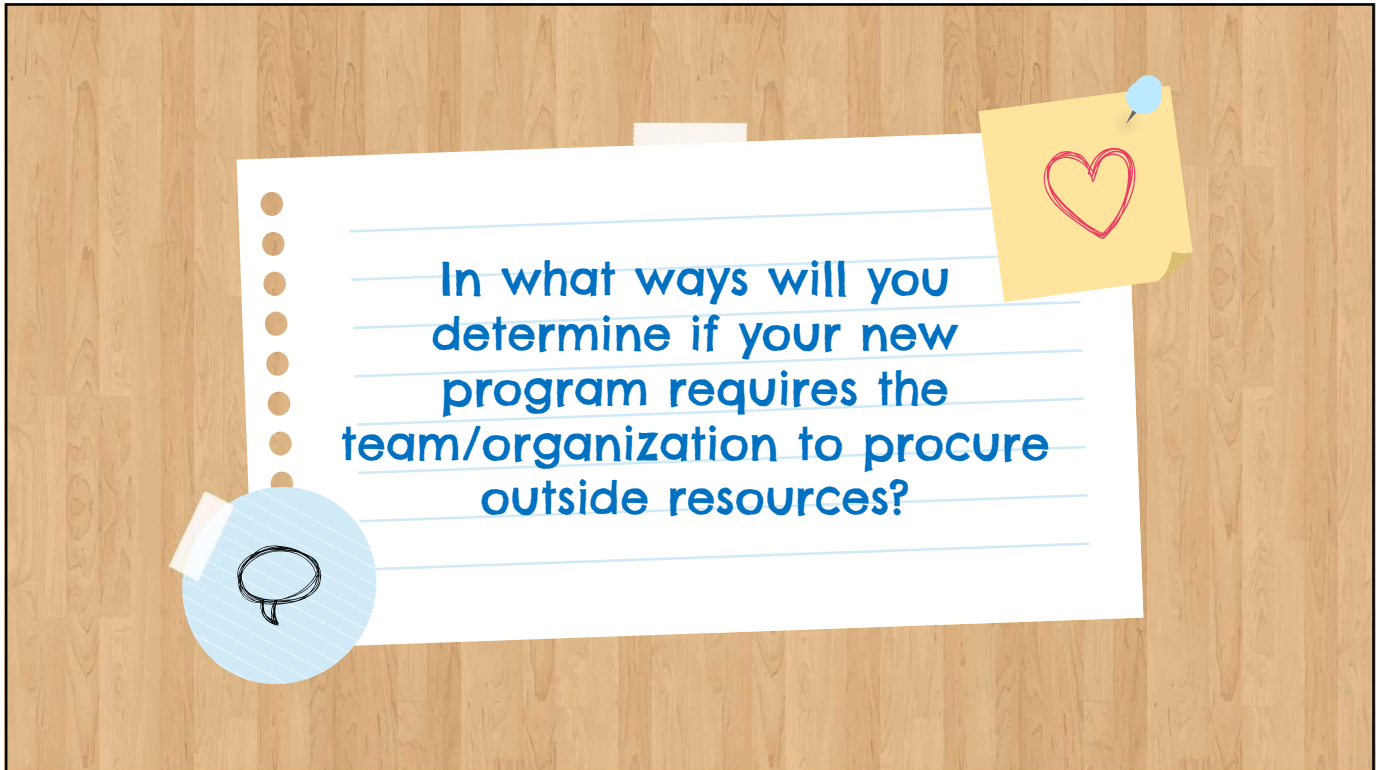
### Time and Materials

Seller charges the buyer for time worked and material  
Good when there is not a well-defined statement of work  
Buyer has bulk of risk

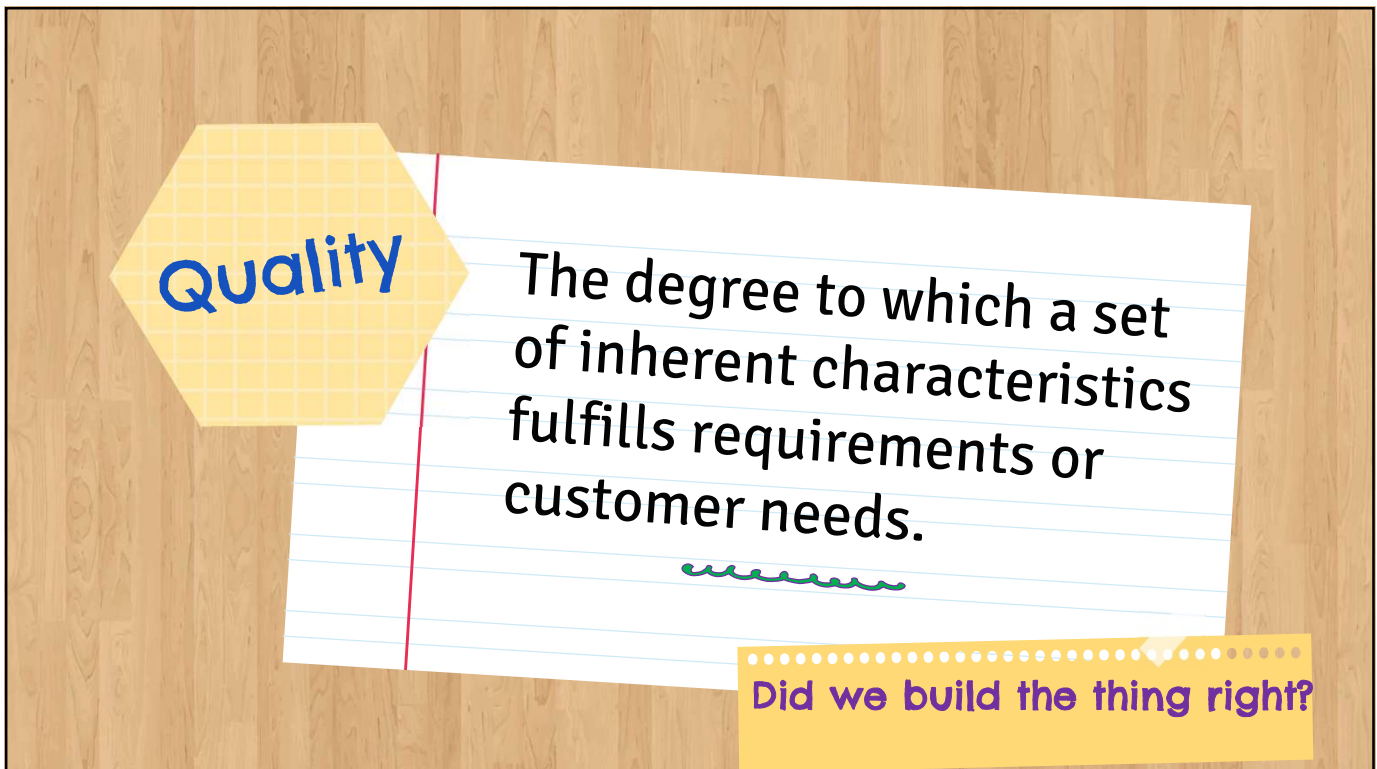
### Cost Reimbursable

Seller passes all allowable costs back to the buyer and receives an additional fee for value-added  
Cost Plus Fixed Fee  
Cost Plus Incentive Fee  
Risk is shared

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## 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

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## 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?

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## Quality

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

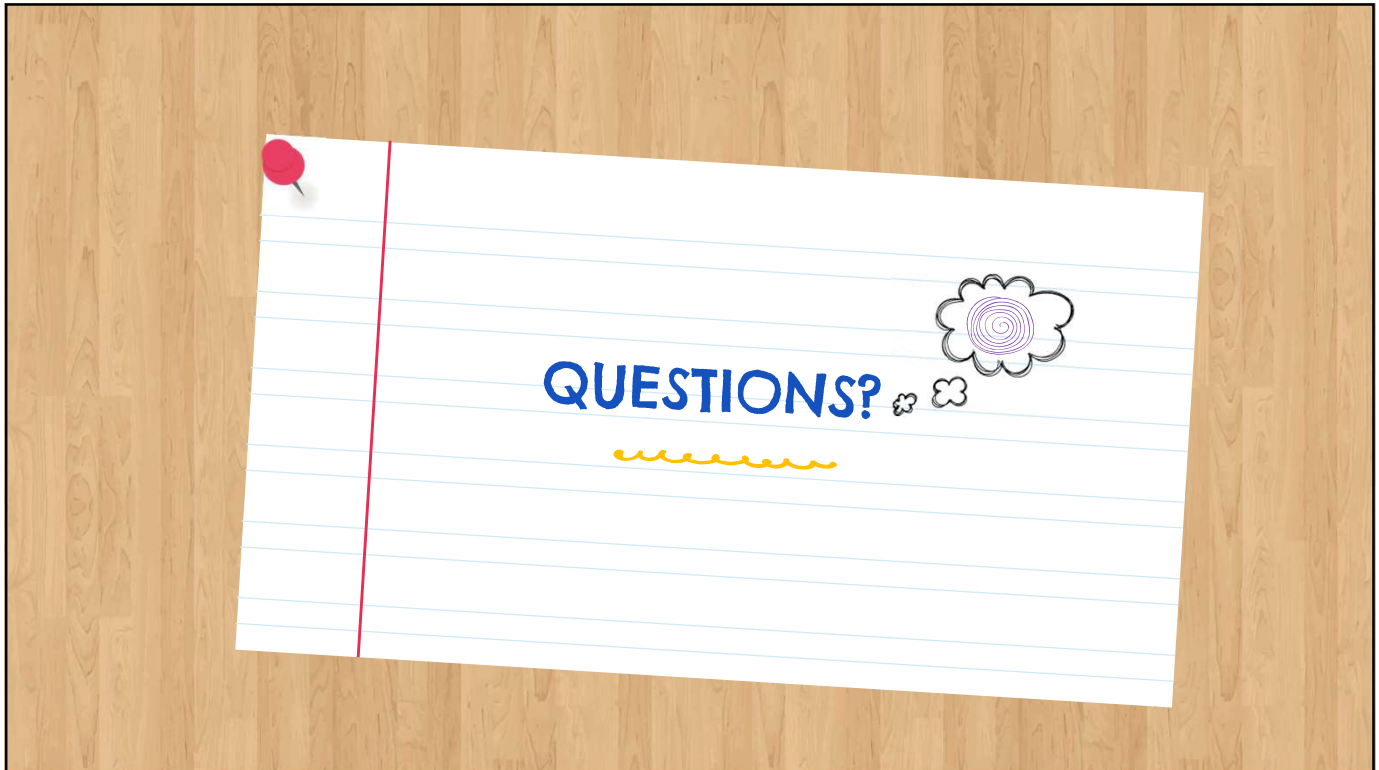


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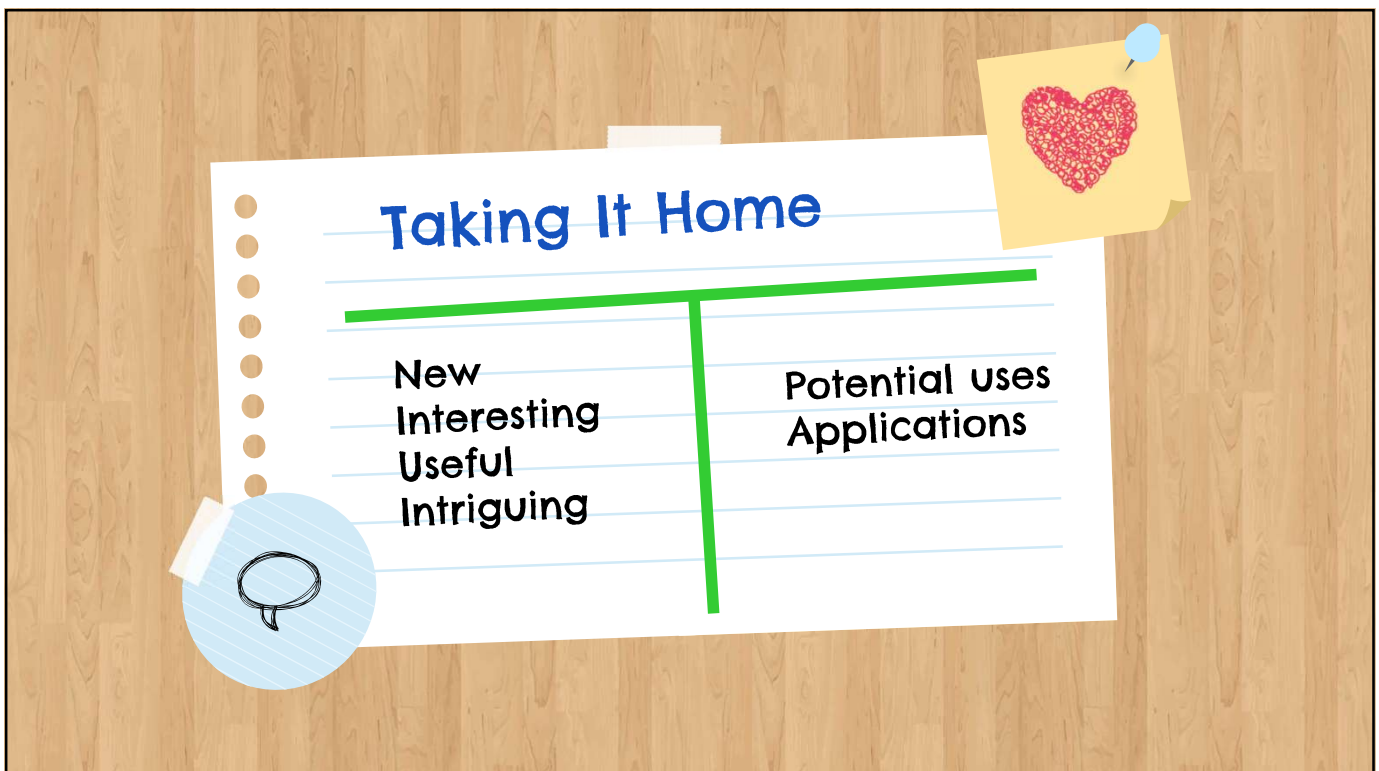
How might the information presented today strengthen the quality of your proposal and increase the success of new program proposals?

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