

IT Project Management Topic 7 Resource Management





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READING

Schwalbe Chapter 9



LEARNING OBJECTIVES

At the end of this topic you should be able to:

- Explain the importance of Resource management on projects
- Summarise key concepts for managing people and other resources (by understanding appropriate theories)
- Define and understand key resource management processes
- ✓ Discuss some key aspects of Human Resource planning
- Explain and apply some of the tools and techniques used to help manage a project team and other resources

TODAY'S SESSION IS IN 3 PARTS





THEONERERS WELLOHE

AN INTRODUCTION TO RESOURCE MANAGEMENT

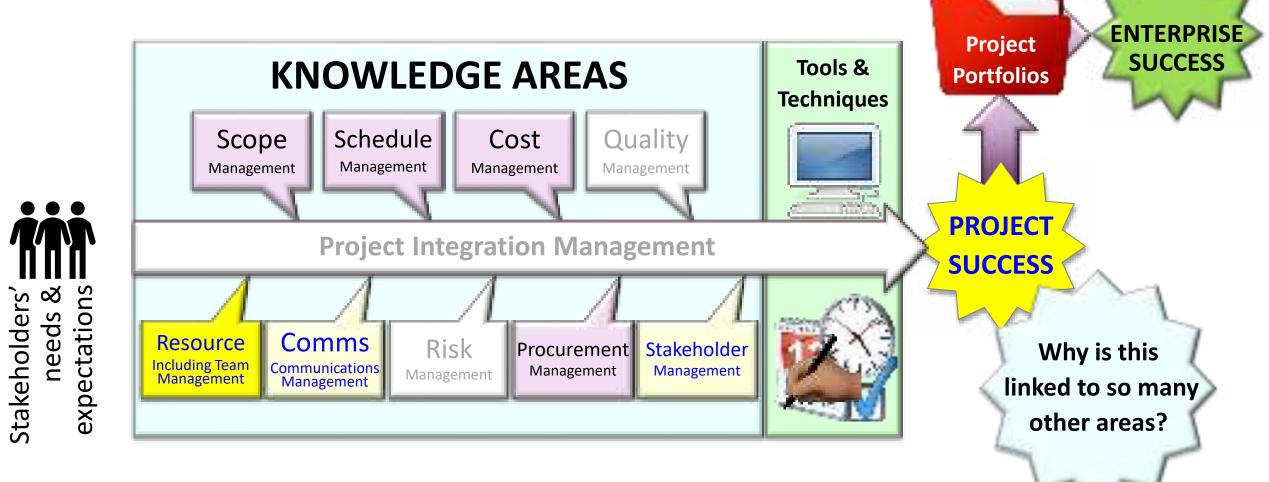


WHAT IS A RESOURCE?

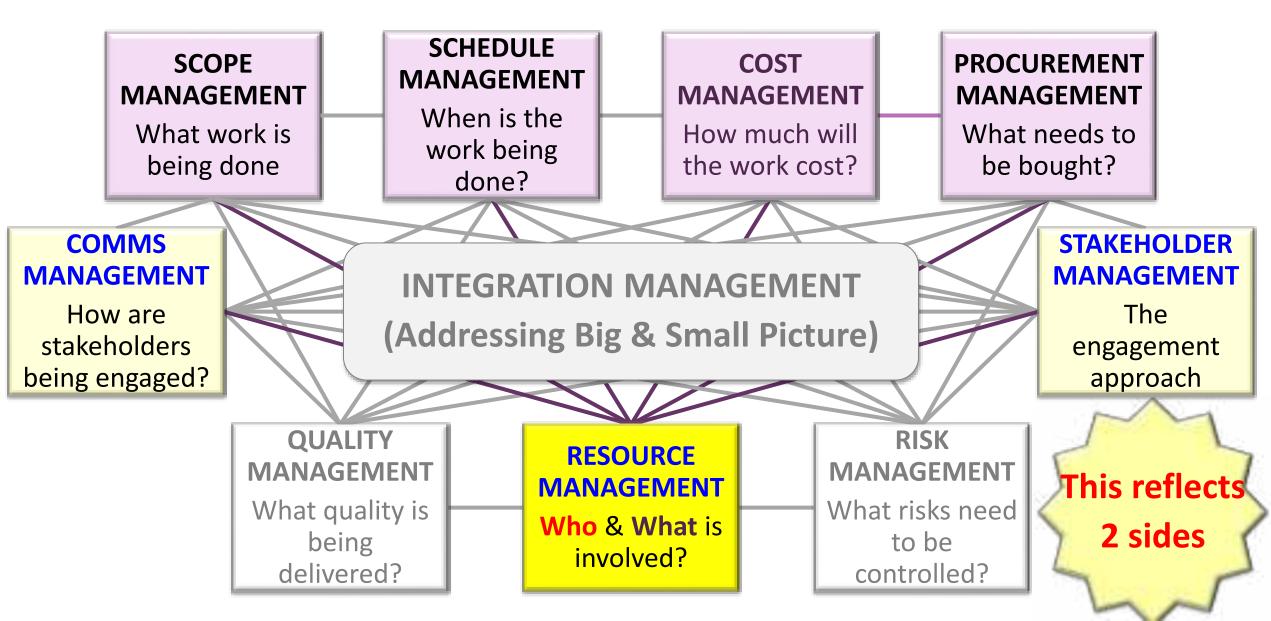
A resource refers to anything that is required to carry out and complete project tasks. It includes:

- the right people doing the right tasks (a key resource)
- facilities (buildings, Datacentres, etc.)
- hardware and equipment (e.g. servers, firewalls, etc.)
- Software/applications (anything needed to get the job done)
- Services/support (e.g. network/communications, etc.)
- Money (funding to get the job done Cost Management issue)

IT FITS INTO THE PMBOK APPROACH AS FOLLOWS...



THE KNOWLEDGE AREAS



THE 2 INTERLINKED SIDES



✓ People

- > With the right knowledge & skills
- > With the availability to do the job
- Who can do the work within the budget (what do they cost?)
- Who can work well with the rest of the team (this is critical)
- Who can apply the other resources as they become available

They must be managed together

Materials/Other Resource

- > Hardware
- Facilities
- Software
- Services/Support
- > Money

Source: Developed from information in Huemann, et al. (2018); Brown, et al. (2016); Adziz, et al. (2016) and Turner (2016)

WHAT IS RESOURCE MANAGEMENT?

Why is Resource Management important? An integral process for:

- Organising & managing all resources
- Ensuring that they are available when needed (linked to Schedule management)
- Working to get the best value from the resources (linked to cost & procurement)
- Motivating, integrating and involving the team members, so they produce high quality outcomes (deliver good work)

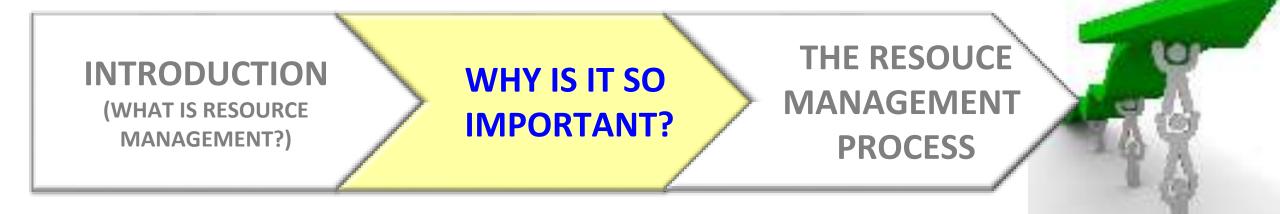
Source: PMBoK 6th Edn; Carstens, et al. (2016); Lock (2017)



THEONERERS WELLOHE

WHY IS RESOURCE MANAGEMENT IMPORTANT ?

a office Destination



WHY IS RESOURCE MANAGEMENT IMPORTANT?

Without the right resources at the right time, you...

- won't have the right skills to do the work (existing & developed)
- won't have the right materials available (the team can't do its work)
- won't have the motivation needed to deliver quality (this is up to the team to implement)
- won't achieve the project goals

Source: Information developed from Carstens, et al. (2016); Noe et al. (2017); Harrison & Lock (2017); Binder (2007)

SOME EXAMPLES OF POOR RESOURCE MANAGEMENT

- Queensland Department of Health Payroll System: IBM:
 Original cost \$98M: Actual Cost: \$1.2 Billion Poor resource
 management Damaged company's reputation & litigation
- WA Government HR & Shared Services: Oracle: Original cost \$66.6M but by 2011 cost was \$401M – Resourcing issues – Reputation damage
- Victorian Government: DOJ System: Tenix Solutions: Original cost \$24.9M – 6 years overdue & cancelled – Final Cost \$60M – Resourcing issues – Reputation damage



THE OVERLING WELLCOME

THE RESOURCE MANAGEMENT PROCESS



RESOURCE MANAGEMENT PROCESS

- Plan Resource Management. Planning how to estimate, acquire, manage and use project resources (create Resource Management Plan and other documents)
- 2. Estimate Activity Resources. Estimating human, material & other resources needed to complete the project (create a Resource Breakdown Structure & other documents)
- 3. Acquire Resources. Obtaining team members facilities, equipment, materials, supplies & other resources (create team assignments, resource calendars, change requests, trigger procurement, etc.)



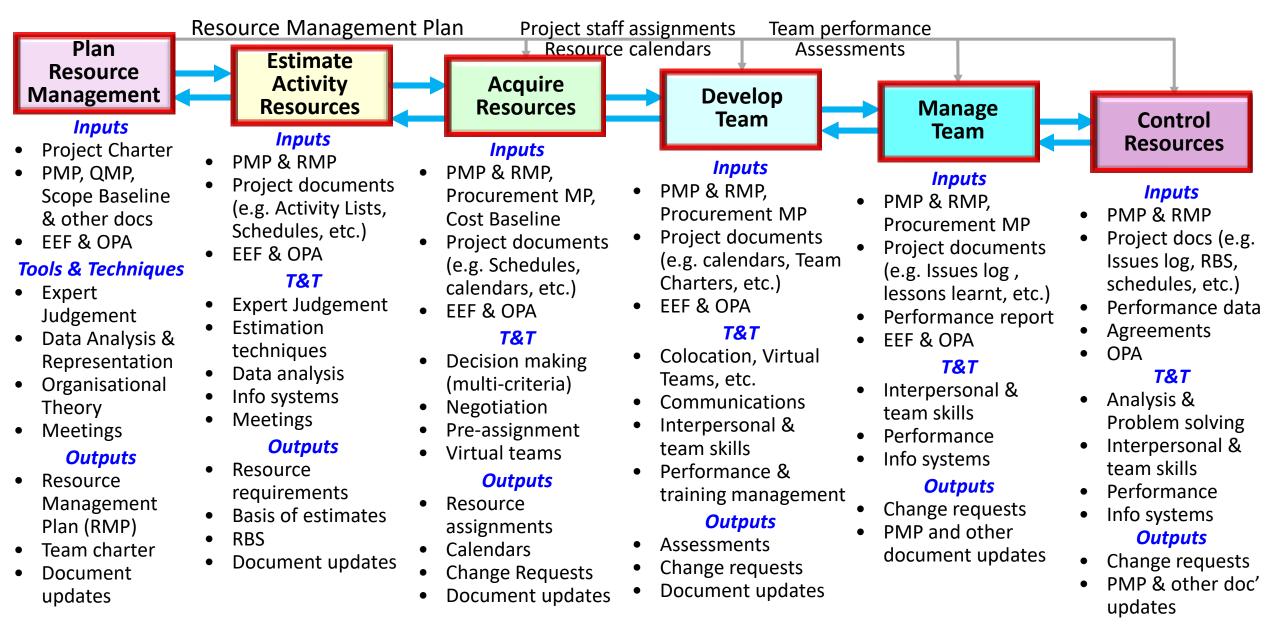
RESOURCE MANAGEMENT PROCESS

- 4. Develop Team. Build individual and group skills to enhance project performance (This requires significant soft skills supported by performance assessments, change requests & document updates)
- **5. Manage Team.** Monitoring, motivating and leading the team. This requires a range of critical soft skills (negotiation, conflict resolution, understanding people and team interactions)
- 6. Control Resources. Ensuring that personnel, material & other resources are available as planned and that the best use is made of these (requires detailed monitoring and performance management)



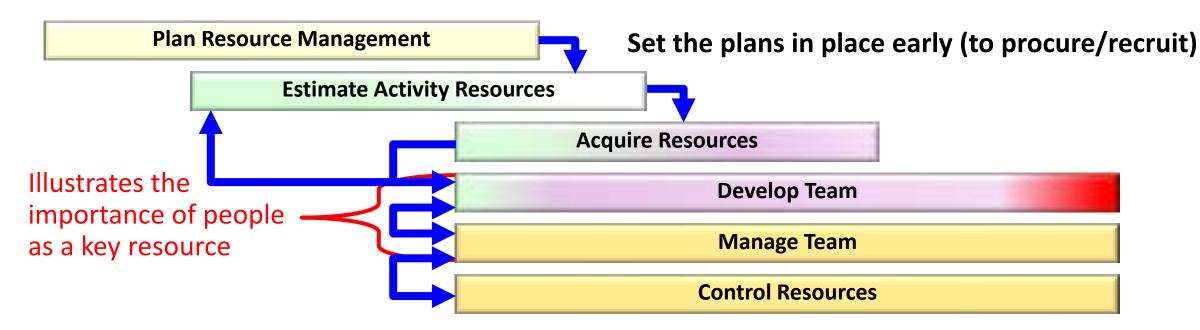


RELATIONSHIPS BETWEEN THESE



WHEN DO THE PROCESSES GET DONE?

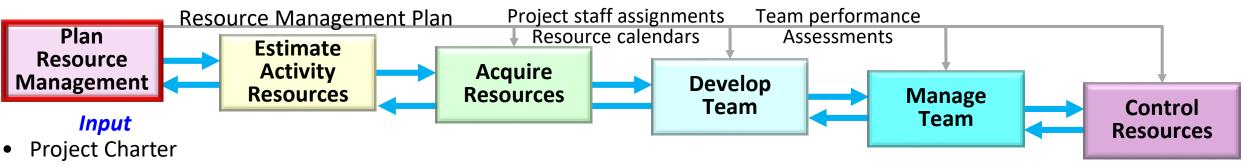




Let's look at the steps in more detail



PLAN RESOURCE MANAGEMENT



- PMP, QMP, Scope Baseline & other docs
- EEF & OPA

Tools & Techniques

- Expert Judgement
- Data Analysis & Representation
- Organisational Theory
- Meetings

Outputs

- Resource Management Plan (RMP)
- Team charter
- Document updates

The key deliverable is the RMP



PLAN RESOURCE MANAGEMENT

Involves identifying and documenting project resource management approaches for addressing:

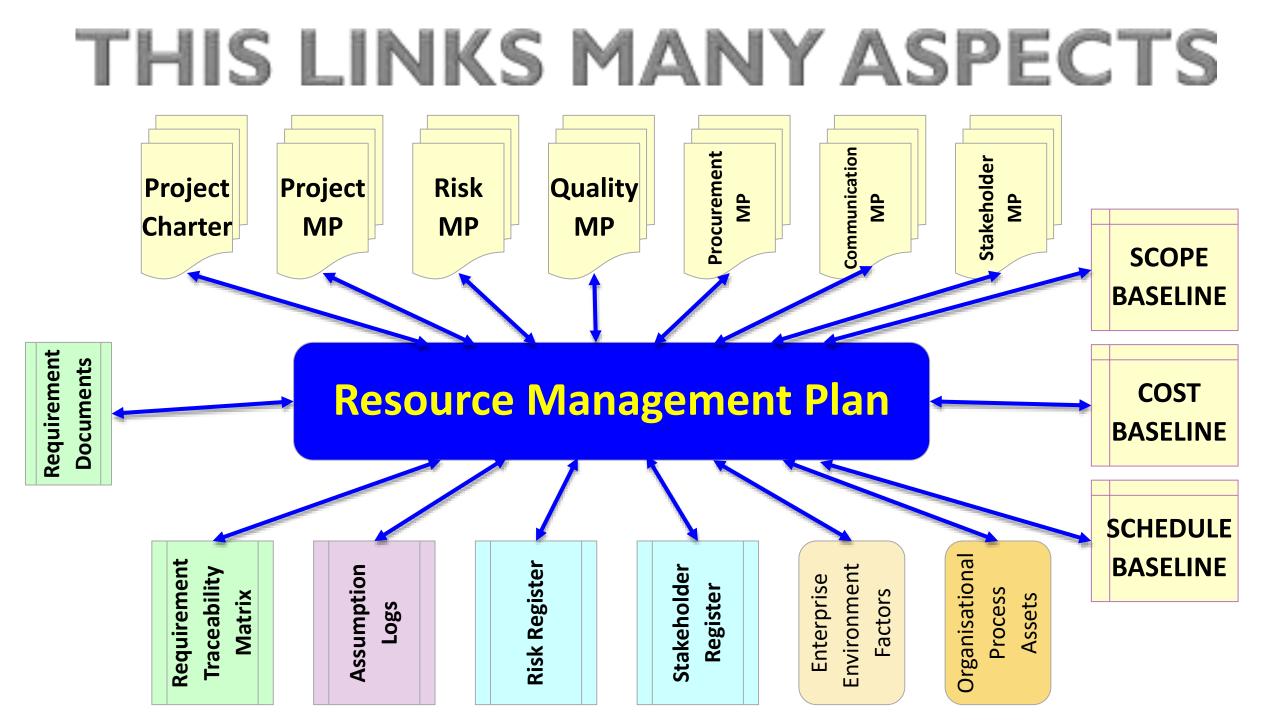
- Human Resource needs
 - Project organisational charts
 - Responsibility assignment matrixes
 - Staffing management plans
 - Resource histograms and graphs

Materials & Others

- Hardware
- Facilities
- Software
- Services/Support

Money

Let's look at each of these in more detail



LET'S BEGIN WITH HR MANAGEMENT

- A range of HR focussed solutions are typically included to help define the planning
- ✓ For instance, this involves:
 - Project organisational charts
 - Responsibility assignment matrixes
 - Staffing management plans
 - Resource histograms and graphs

Here are some examples



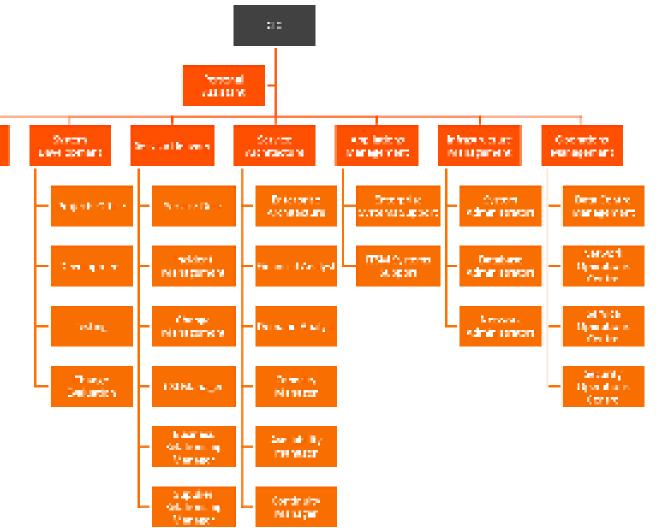
ORGANISATION CHARTS

Should provide a clear representation of the structure of the project team

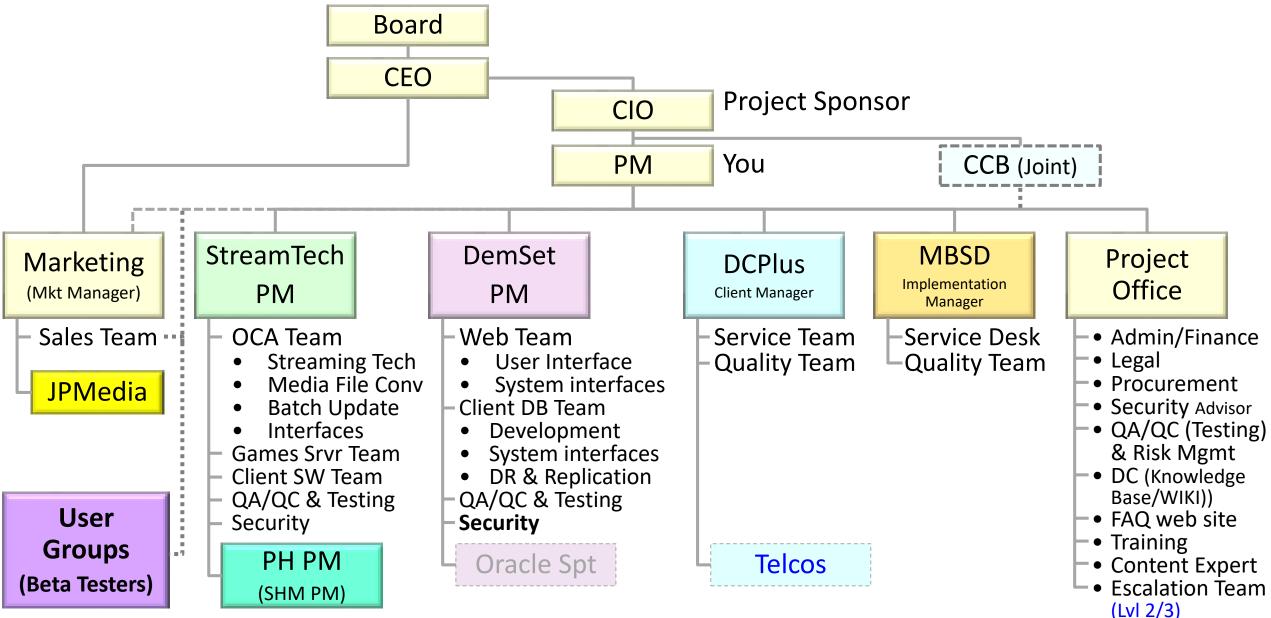
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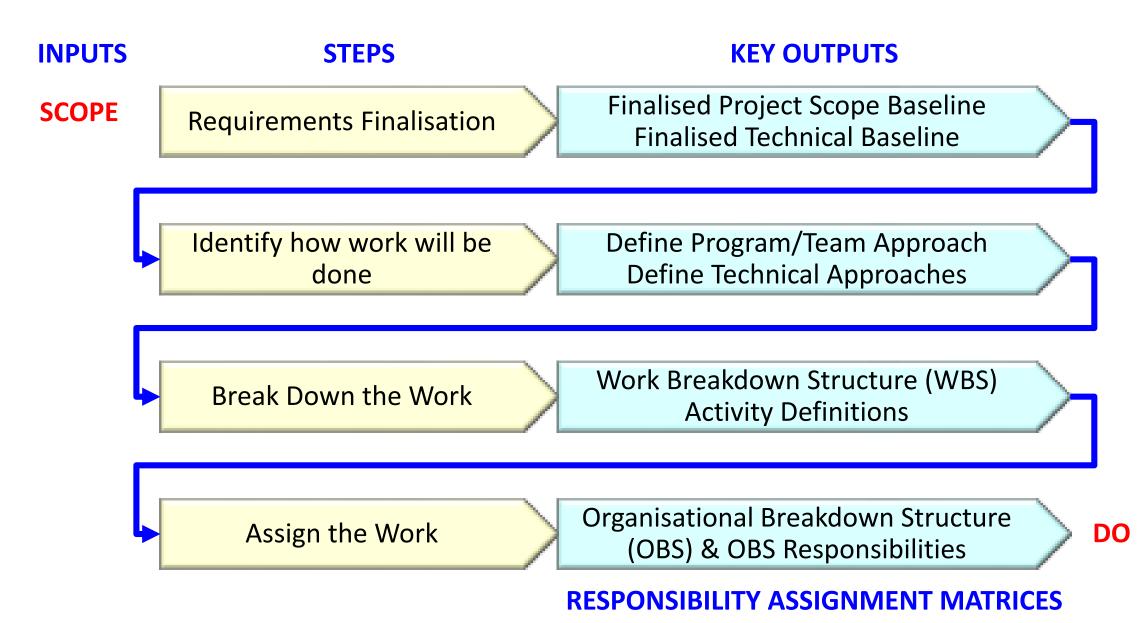
It must make lines of authority, responsibility and organisational relationships clear



EDUSTREAM TEAM ORGANISATION



BUILDING RESPONSIBILITY ASSIGNMENTS



RESPONSIBILITY ASSIGNMENT MATRIXES

- A Responsibility Assignment Matrix (RAM) is:
 - a matrix that maps the work of the project, as described in the WBS...
 - to the people responsible for performing the work, as described in the Organisational Breakdown Structure (OBS)

A range of different approaches can be used (we'll show some examples)



1. RESPONSIBILITY ASSIGNMENT MATRIX (RAM)

OBS UNITS	WBS ACTIVITIES							
	1.1.1	1.1.2	1.1.3	1.1.4	1.1.5	1.1.6	1.1.7	1.1.8
Systems Engineering	R	R P					R	
Software Development			R P					
Hardware Development				R P				
Test Engineering	Р							
Quality Assurance					R P			
Configuration Management						R P		
Integrated Logistics Support							Р	
Training								R P

- **R** = Responsible Organisational Unit
- P = Performing Organisational Unit

Must cover off for all Work Packages (WPs) as Responsible &/or Performing

2. RESPONSIBILITY ASSIGNMENT MATRIX (RAM)

ITEMS	STAKEHOLDERS				
	А	В	С	D	E
Unit Test	S	Α	I	I	R
Integration Test	S	Р	Α	I	R
System Test	S	Р	Α	I	R
Acceptance Test	S	Р	I	Α	R

- **A** = Accountable
- P = Participant
- R = Review Required
- I = Input Required
- S = Sign-off Required

There must be clear accountability & everyone must understand their responsibilities

3. RESPONSIBILITY ASSIGNMENT MATRIX (RAM)

RACI CHART

ITEMS	STAKEHOLDERS				
	Ann	Ben	Carl	Denny	
Develop Schedule	А	R		I	
Collect Requirements	I	Α	R	С	
Develop Test Plan	I	А	R	С	
Develop Training Plan	А	С		R	

There must be clear accountability & everyone must understand their responsibilities

- **R** = Responsible (to do the work)
- A = Accountable
 - Ultimate responsibility
 - Delegates the work
 - Approves the work
- **C** = Consulted (opinions sought as they are experts)
- I = Informed (those kept informed of progress)

STAFFING MANAGEMENT PLAN

- A staffing management plan describes when and how people will be added to and taken off the project team
- Formatting for this varies from company to company
- Often includes resource histograms or graphs (often system generated from the WBS)

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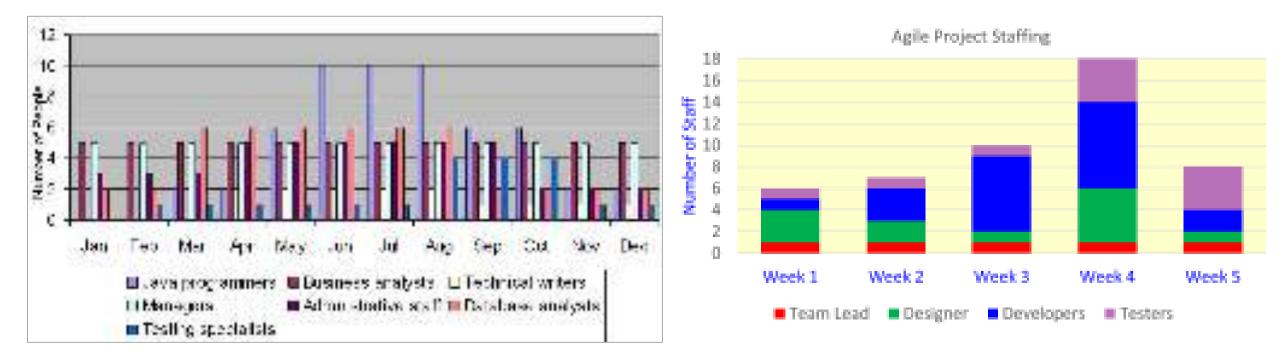
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RESOURCE HISTOGRAMS OR GRAPHS

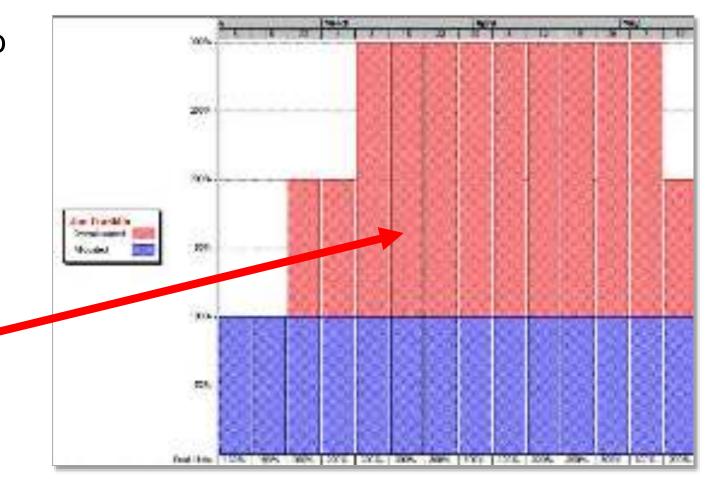
 These are charts or graphs showing team numbers during the project (these are typically generated from spreadsheets or Project software)



This type of data is also used for resource loading and levelling/smoothing

RESOURCE LOADING

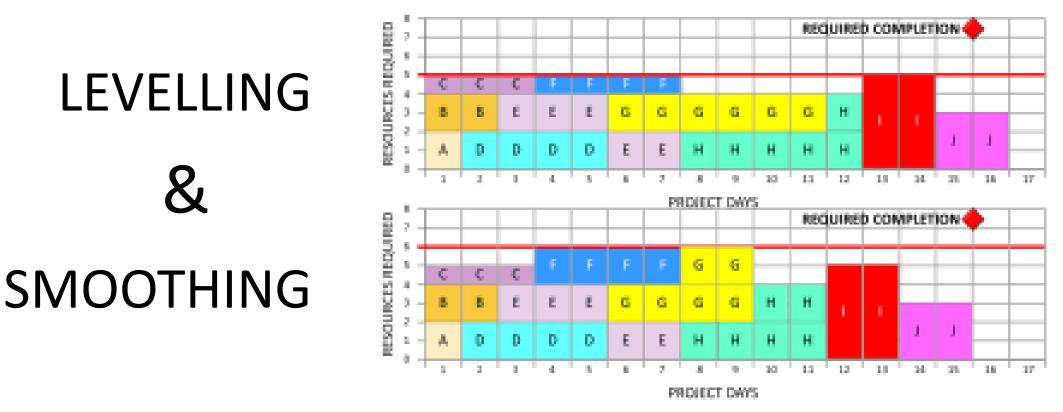
- Resource loading refers to the amount of individual resources an existing schedule requires during specific time periods
- Overallocation means more resources than are available are assigned to perform work at a given time



Where there is overload, you would aim to utilise levelling/smoothing

APPLYING RESOURCE LEVELLING/SMOOTHING

- Resource levelling is a technique for resolving resource conflicts by shifting tasks (start/end dates may be adjusted to balance demand)
- Resource Smoothing is used when time is more important than resources (therefore tasks are moved around/reallocated & resources acquired)



Source: https://www.izenbridge.com/blog/underlining-the-differences-between-resource-leveling-and-resource-smoothing/

BENEFITS OF RESOURCE LEVELLING/SMOOTHING

- Human Resources are used on a more consistent basis, so they deliver better value
- It results in fewer problems for project personnel and the project coordination
- It often improves morale of the team



PLANNING FOR EQUIPMENT MANAGEMENT

- Applies cost modeling and phasing (e.g. Often in Excel)
- Often built into the WBS (allows integrated management)

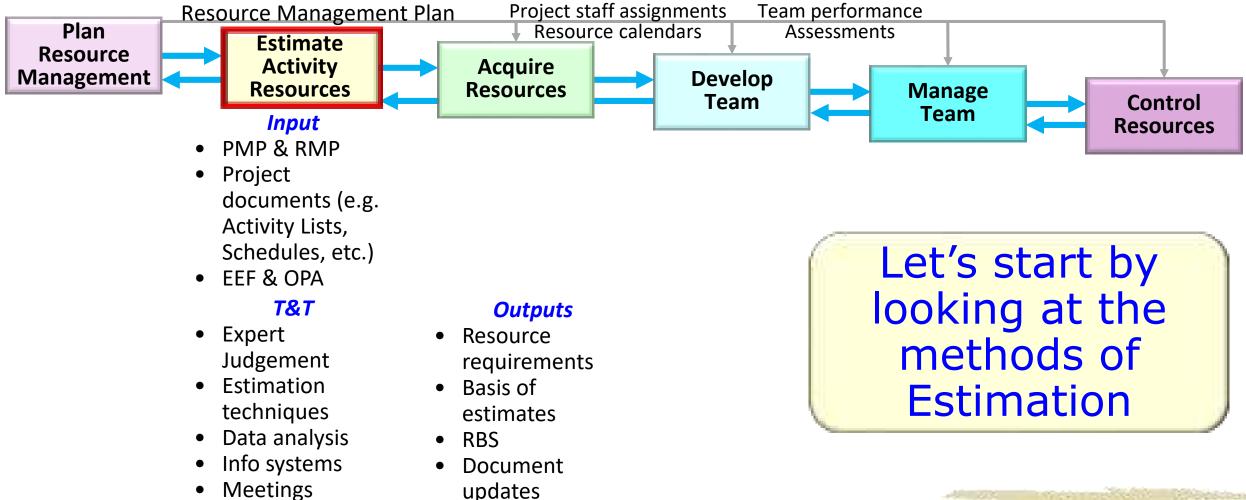
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This is coordinated through the Resource Estimation Process



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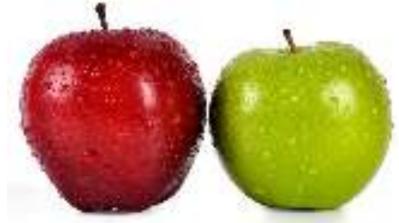
IMATE ACTIVITY RESOURCES



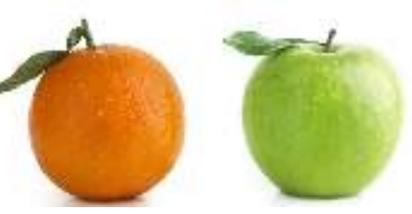
Meetings

TECHNIQUES FOR ESTIMATION

- Analogous (Top Down Estimates)
 - Use information from previous projects



- Can provide useful insights (but only if good records are kept)
- Be careful small differences can have major schedule implications



TECHNIQUES FOR ESTIMATION

Bottom up estimates

- Identify likely resource
 requirements for individual Work
 Packages (WP)
- Aggregate these into a common estimate
- Be careful can include duplication of effort, but it is commonly used



TECHNIQUES FOR ESTIMATION

Parametric modelling (HR)

- There are a range of different parametric models
- Examples include Function Points (FP), Source Lines of Code (SLOC) and the Constructive Cost Model (COCOMO)



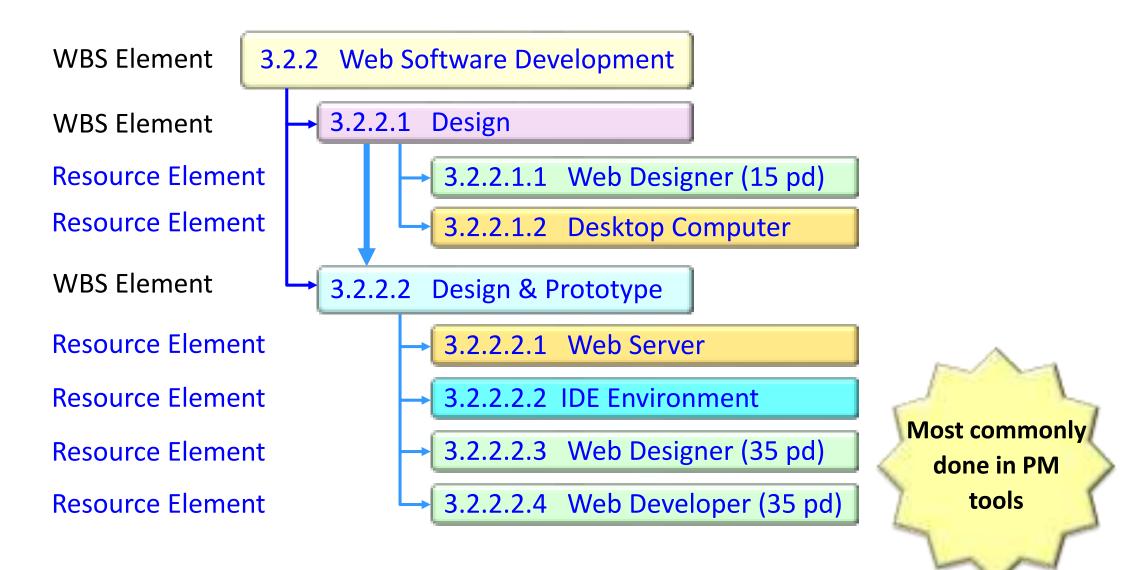
These were discussed in Topic 5

USETHE ESTIMATES IN AN RBS

- A Resource
 Breakdown Structure
 is just a way to show
 what resources are
 expected to be used
- These can be done in a range of forms
 (tabular/graphical/ mixed)

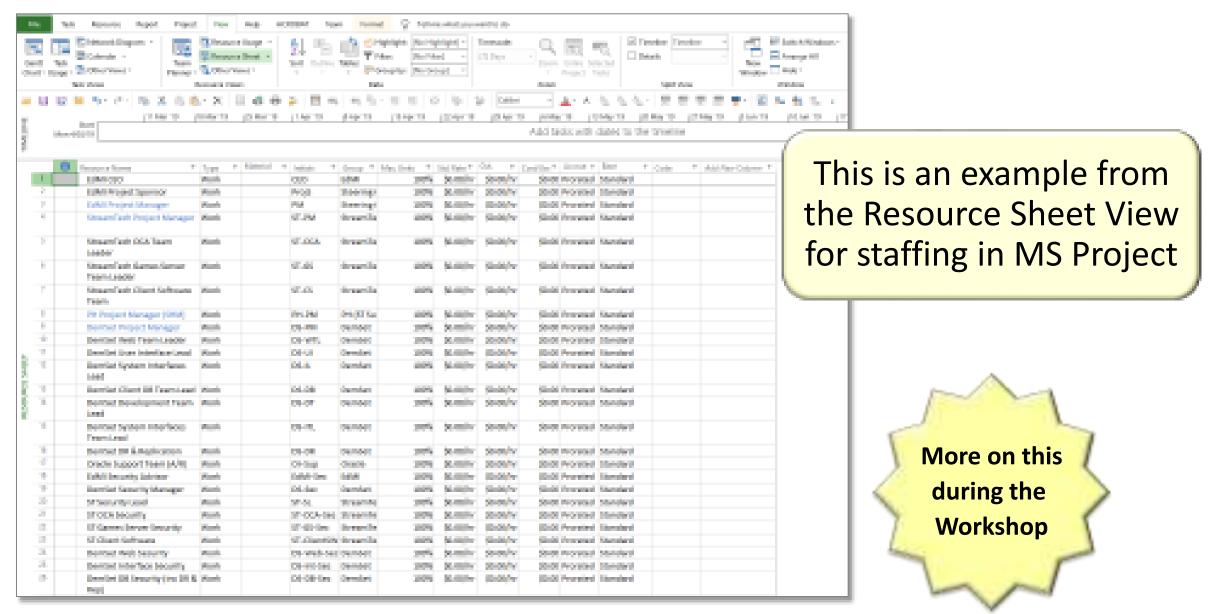


EXAMPLE RBS (Resource Breakdown Structure)



Source: Developed to reflect guidance in Hubert (2018); Gareis (2007) and Hans (2013)

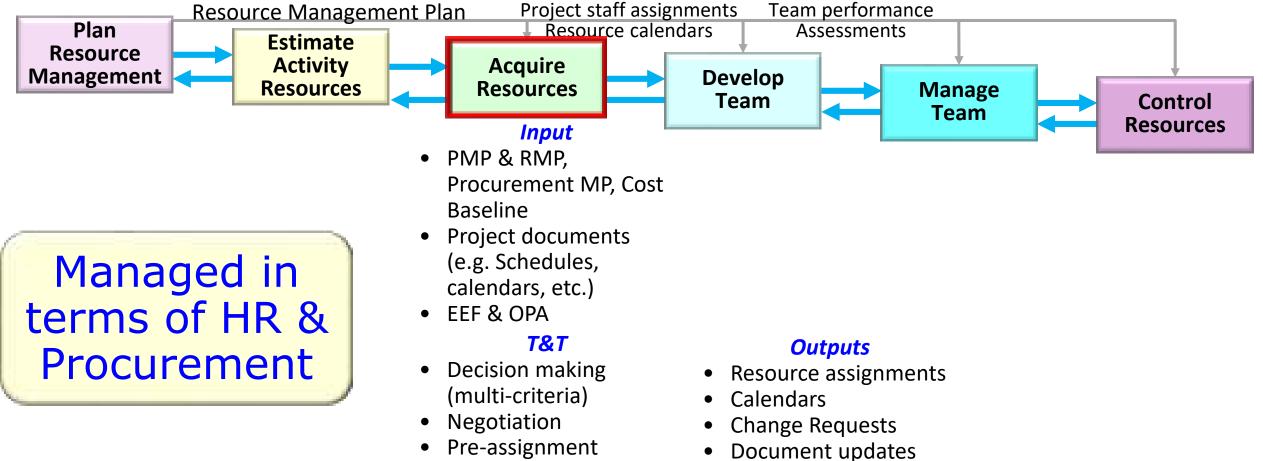
EXAMPLE RBS (Resource Breakdown Structure)





AND THREAVERTERS WITLCOME

ACQUIRE RESOURCES



Virtual teams

ACQUIRE PROJECT TEAM



- Once you have identified the people you
 need (based on balancing skills, numbers, time and tasks):
 - Seek resources internally
 - Undertake recruitment (long lead time & high \$ often required)
 - Engage external organisations/people (e.g. contractors)
 - Ensure that people are trained, inducted and properly integrated within the team

This is a truly important process in your future work (but we won't be going into detail, as there are too many issues to discuss during the lecture & it is not important for you right now)

ACQUIRE MATERIALS/OTHER

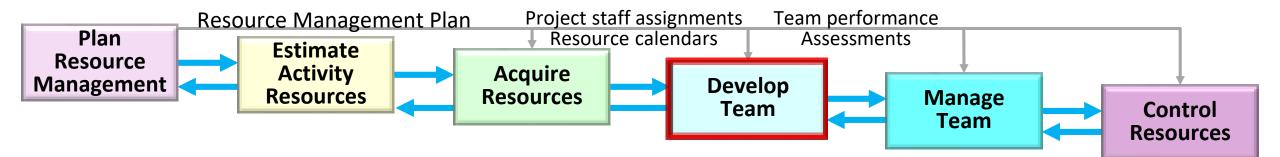


- Once you have identified the materials and other resources you need (based on Estimation):
 - Identify best options (suitability and value for money)
 - Minimise costs in procurement (FX, Total Cost of Ownership, etc.)
 - Ensure that the materials and other resources are available by the time they are needed (this is critical)
 - Implement effective Quality Management (e.g. testing)
 - Make sure you have the money to pay the bills!

Procurement will be discussed in Topic 10



DEVELOP TEAM





Input

- PMP & RMP, Procurement MP
- Project documents
 (e.g. calendars,
- Team Charters, etc.)
- EEF & OPA

T&T

- Colocation, Virtual Teams, etc.
- Communications
- Interpersonal & team skills
 - Performance & training management

Outputs

- Assessments
- Change requests
- Document updates



WHAT ARE WE GOING TO COVER





Key Terms

Motivation Frameworks Psychological Type Frameworks

Let's look at each of these in more detail



KEY TERMS

and have been





UNDERSTANDING SOME KEY TERMS

- *Emotional Intelligence.* The ability to understand & manage your own emotions. It involves the following key soft skills:
 - Self awareness: knowing and accepting yourself
 - Self regulation: setting and keeping to your own standards
 - Empathy: feeling for and understanding others
 - Social Skills: interacting well with others in various situations
 - Motivation: we'll talk about this in a moment

Emotional Intelligence is critical for all members of project teams



UNDERSTANDING SOME KEY TERMS

 Motivation. The reasons for acting or behaving in a particular way (can be positive or negative)



- Intrinsic motivation causes people to participate in/avoid an activity due their personal motivation (comes from within)
- Extrinsic motivation causes people to do something due to an external reward /penalty (comes from external sources)

We should leverage these for Project Management

UNDERSTANDING SOME KEY TERMS

 Psychological Trait. Habitual patterns of behaviour, thought and emotion (may or may not be identifiable)



 Psychological (Personality) Type. Identifiable differences in people (supports grouping) influences interaction with others (our focus today)

We should leverage these for Project Management



MOTIVATION FRAMEWORKS





WHAT WE WILL COVER

- Maslow's Hierarchy of Needs
- Herzberg's Motivational & Hygiene factors
- McClelland's Acquired-Needs Theory
- McGregor's Theory X & Theory Y
- Thamhain & Wilemon's Influence & Power

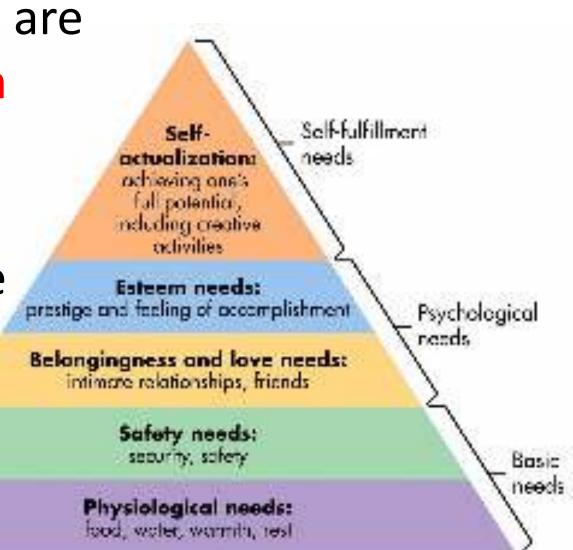
A practical model for real world application

Let's look at these

MASLOW'S HIERARCHY OF NEEDS

- Key premise 1: Behaviours are guided by choices based on needs
- Key premise 2: Once a tier
 is achieved there is a desire
 for next tier needs

Can be useful, but not always applicable

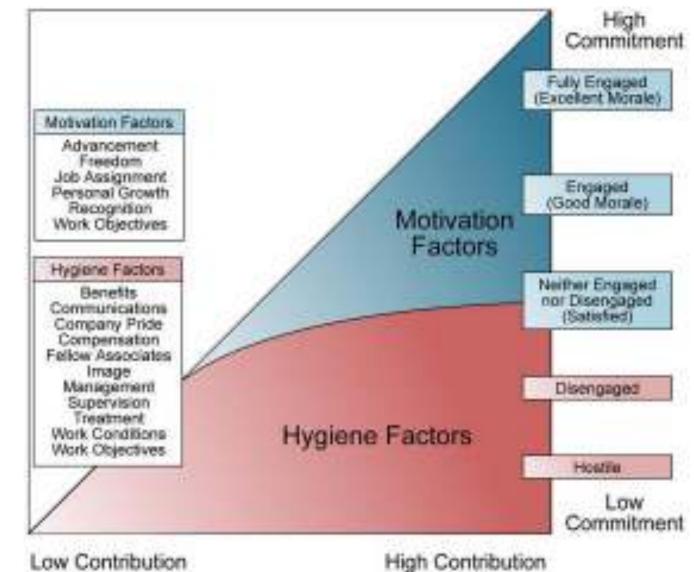


HERZBERG'S MOTIVATIONAL & HYGIENE FACTORS

- Key premise 1: Hygiene factors don't motivate when there (if not done may demotivate but don't motivate)
- Key premise 2:

Motivating factors relate to belonging, esteem & self-actualisation (these are the motivating factors)

Source: Scarlett Surveys International White Paper Series (2008)

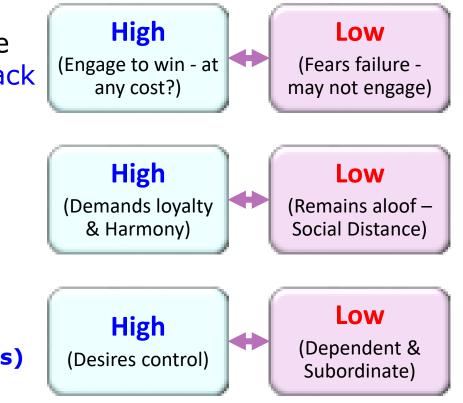


McClelland's Acquired-Needs Theory

Specific needs are acquired or learned over time and are shaped by life experiences. Include:

 Achievement (nAch): Need for achievement - like challenging projects with attainable goals and feedback

- Affiliation (nAff): Need for affiliation / harmony, and acceptance by others
- Power (nPow): Need for power or control of situations and tasks (personal or institutional dimensions)



MCGREGOR'S THEORIES

- Theory X: Assumes workers dislike and avoid work, so managers must use coercion, threats, and various control schemes to get workers to meet objectives
- Theory Y: Assumes individuals consider work as natural and people work for the satisfaction of esteem and self-actualisation needs
- Theory Z: Similar to Y, but emphasises trust, quality, collective decision making, and cultural values (Ouchi (1981) – Based on Japanese frameworks)

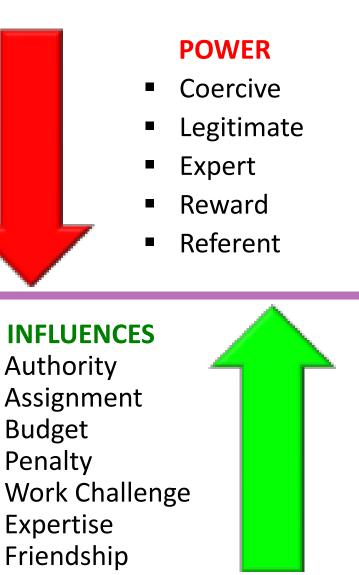




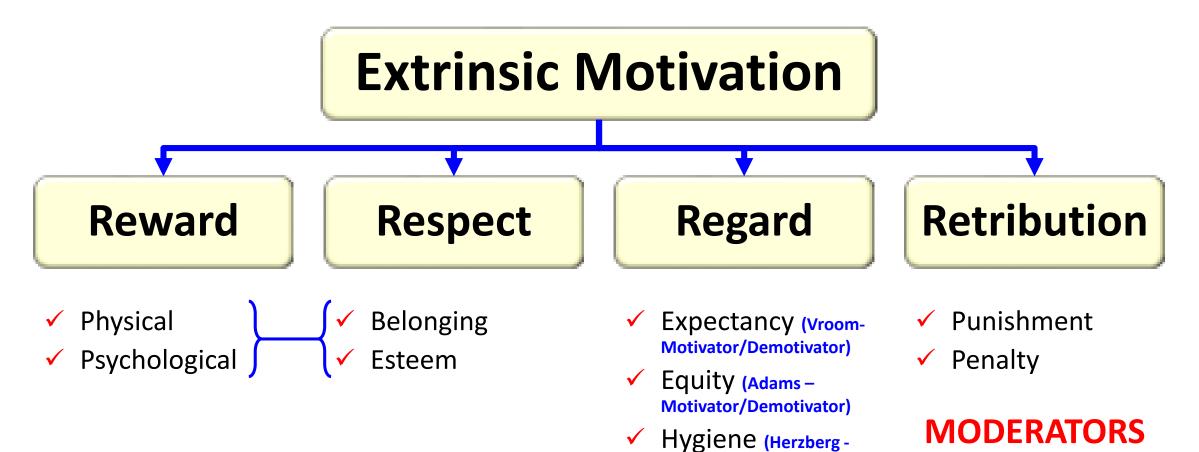


THAMHAIN & WILEMON'S – PROJECT INFLUENCE

- This reflects the balance between
 Power & Influence
- The two aspects are directly linked due to delegations
- Projects are more likely to fail if power & influences (delegation) are mismanaged



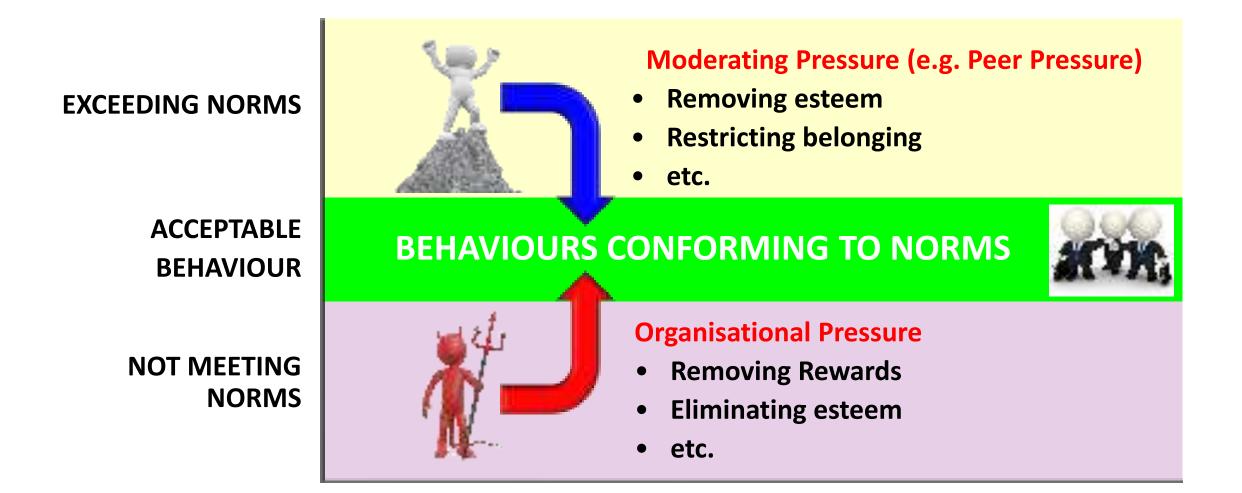
THE 4 R'S MOTIVATION MODEL

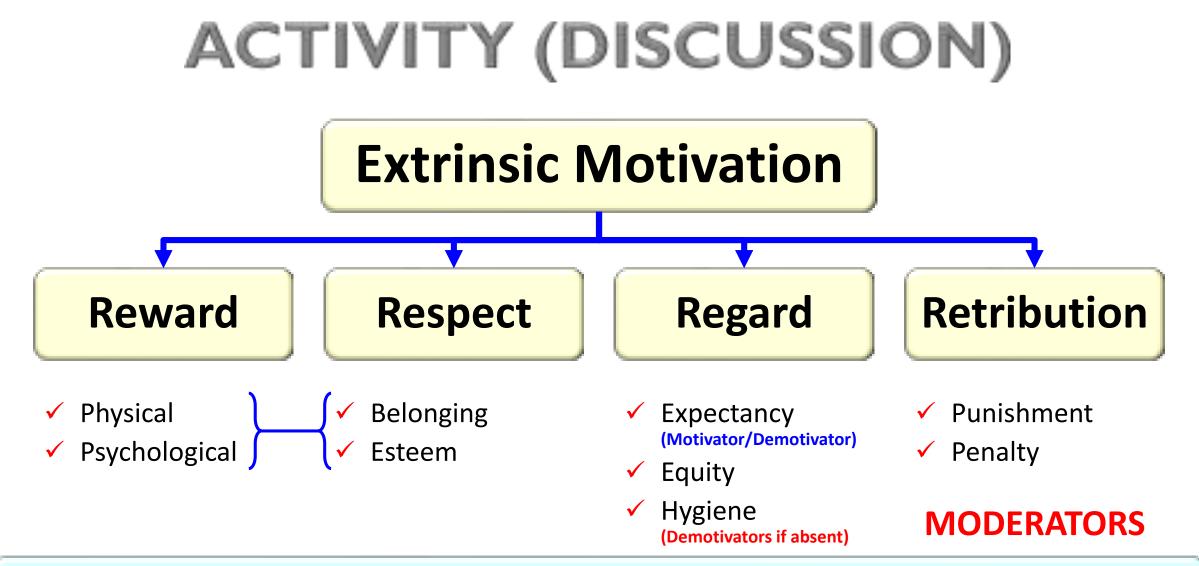


Demotivator if absent)

(Ching; Giacomantonio & Pierro)

THE 4 R'S MOTIVATION MODEL





Think about - Identify two things for each 'R' that you would do to optimise Project Management

Source: Hilliard (2012)

FOR MORE INFORMATION

See this Web Page: <u>http://www.seahorses-</u> <u>consulting.com/DownloadableFiles/Motivation.pdf</u>

Source: Hilliard (2012)



PSYCHOLOGICAL TYPE



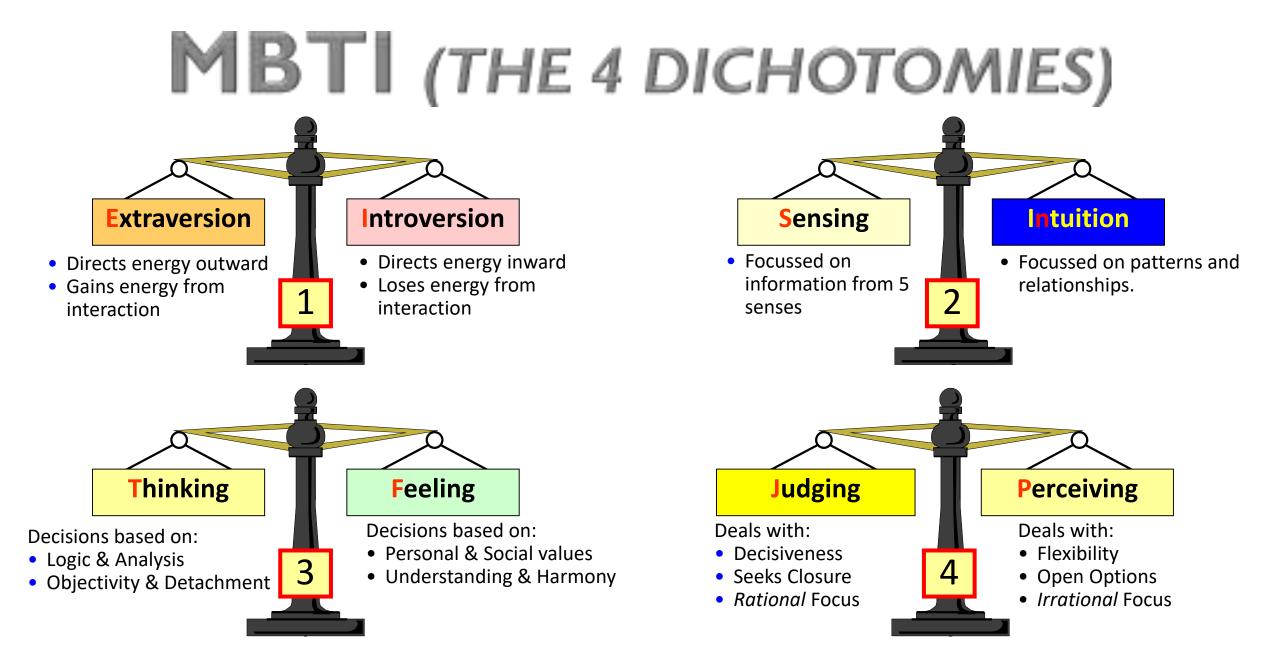


WHAT WE WILL COVER

- Myers-Briggs Type Indicators (MBTI)
- ✓ Social Styles Profile (SSP)
- Dominant, Influential, Steady,
 Compliant (DISC)

A practical model for real world application

Let's look at these



Source: Briggs Myers, McCaulley, Quenk, & Hammer (1998); Keirsey & Bates (1984)

THE I6 TYPES Creating **16** Types

	SENSING TYPES		INTUITION TYPES		
	ISTJ	ISFJ	INFJ	INTJ	JUDGING
INTROVERSION	ISTP	ISFP	INFP	INTP	
EXTRAVERSION	ESTP	ESFP	ENFP	ENTP	PERCEIVING
	ESTJ	ESFJ	ENFJ	ENTJ	JUDGING
	THINKING	FEELING		THINKING	

Source: Briggs Myers, McCaulley, Quenk, & Hammer (1998)

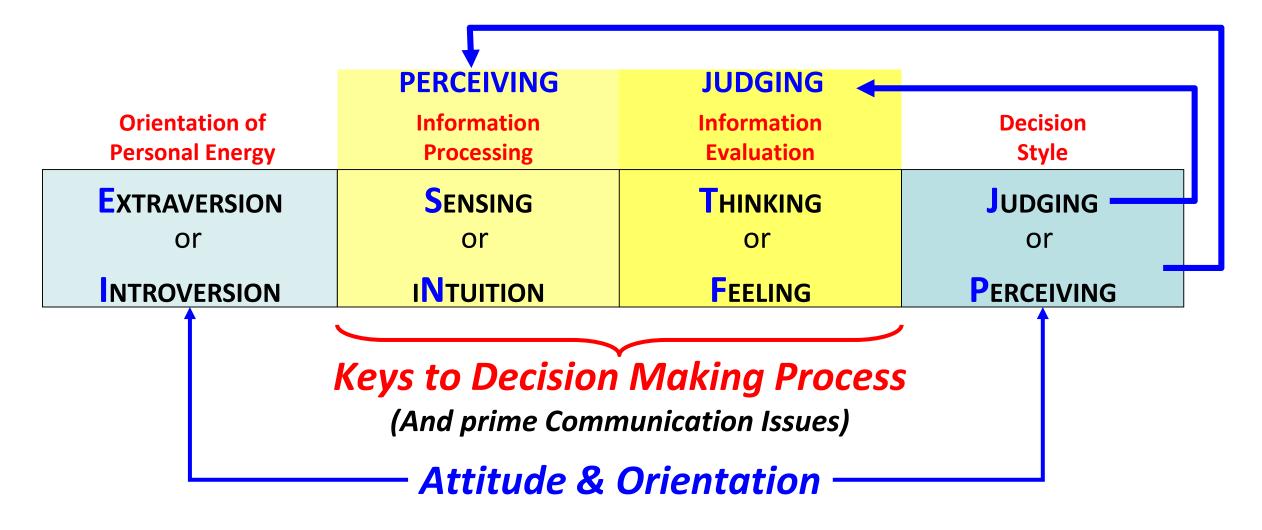
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KEY ELEMENTS OF TYPE

✓ Simplified to 4 Types (keys to communication)

The Four Types	ST	SF	NF	ΝΤ	
	SENSING TYPES		INTUITION TYPES		
INTROVERSION	ISTJ	ISFJ	INFJ	INTJ	JUDGING
	ISTP	ISFP	INFP	INTP	
EXTRAVERSION	ESTP	ESFP	ENFP	ENTP	PERCEIVING
	ESTJ	ESFJ	ENFJ	ENTJ	JUDGING
	THINKING	FEELING		THINKING	

WHY ARE THESE IMPORTANT?



Source: Briggs Myers, McCaulley, Quenk, & Hammer (1998); Thompson (1997, 2001)

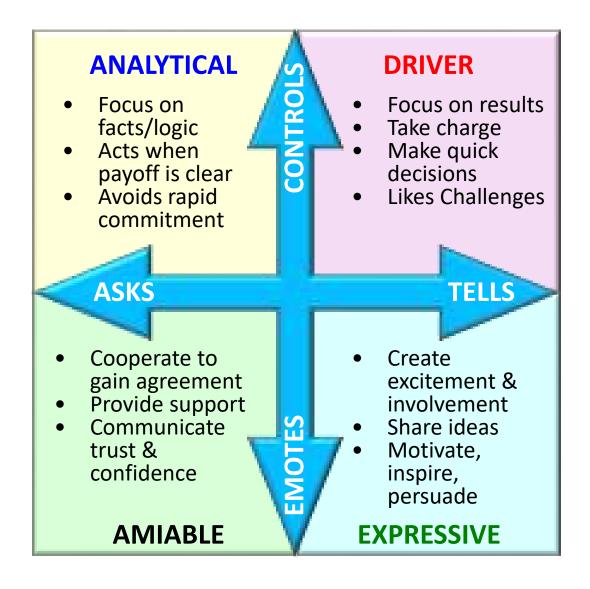
FOR MORE INFORMATION

See the following file under Topic 7 in the LMS: Topic 7: Using Psychological Type to Optimise Communication

SOCIAL STYLES PROFILE

- Preferences for behaving in line with some key types
 - Analytical orderly/deliberate
 - Driver efficient (pushy?)
 - Expressive enthusiastic (egotistical?)
 - Amiable supportive and often dependent

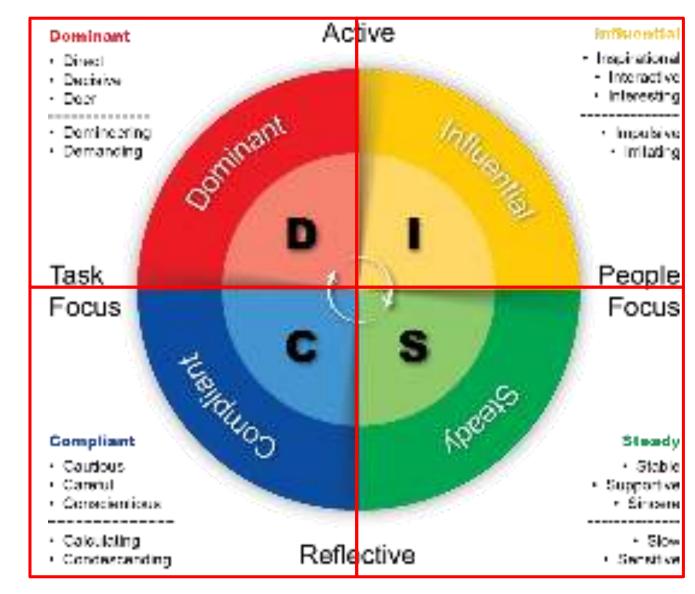
There may be friction between people in opposite quadrants



DISC PROFILES

- Defines type in terms of four dimensions:
 - *Dominant.* Direct, decisive, doer
 - Influential. Inspirational, interactive, impulsive
 - Steadiness. Stable, supportive, sincere
 - Compliant. Cautious, careful, calculating

There may be friction between people in opposite quadrants



Source: http://thesalesevangelist.com/how-disc-profiling-can-help-you-sell/

PRACTICAL APPLICATION

Or know very little about them?

THE PROFILING PYRAMID

	i ci solidity		 ✓ Inherited and Learned ✓ Shapes Individual Comfort Zones 		You can use different			
		Agendas (Internal/Externa	✓ Dri	 Drives Fears and Aspirations 		Personality Type Models		
	Knowledge (Subject/Situation)					Knowledge of the Subject Knowledge of the Situation		
					✓			
Human Nature <i>(Universal)</i>							d/Natural Behaviours I by Gender, Age, Health, etc.	

Source: Developed from information provided in: McShane & Von Glinow (2000); Briggs Myers, McCaulley, Quenk, & Hammer (1998); Keirsey & Bates (1984); Linows (1997); Burns (2000); Sartain, North, Strange & Chapman (1973); Morris & Sternberg (1988); Bernstein & Audley (1988); Hofestede (1991); Tyler & Peck (2001); Newell (2012); Sung Eun Chung & Meneely (2012); Hou & Elliott (2010); Barson (2011); King (2012); Saat & Singh (2011)

FOR MORE INFORMATION

See this the following file under Topic 7 in the LMS: Topic 7: Understanding the Profiling Pyramid

USE THESE FRAMEWORKS TO DEVELOP PROJECT TEAMS

- Team development is important to:
 - help your team work together (teamwork is essential)
 - assist the team members to build their skills/capabilities (hard & soft skills)
 - guide them to apply their type/traits to best effect, evolve their comfort zones & develop Emotional Intelligence
 - ensure that they are properly (positively) motivated

Many approaches can be used, here is one...

Reality Sets In! Frustration Dissatisfaction Anxiety Source: http://www.neocrisis.com/articles/178-jazzking2001s-/7002-tuckmans-group-development-model-v15-7002

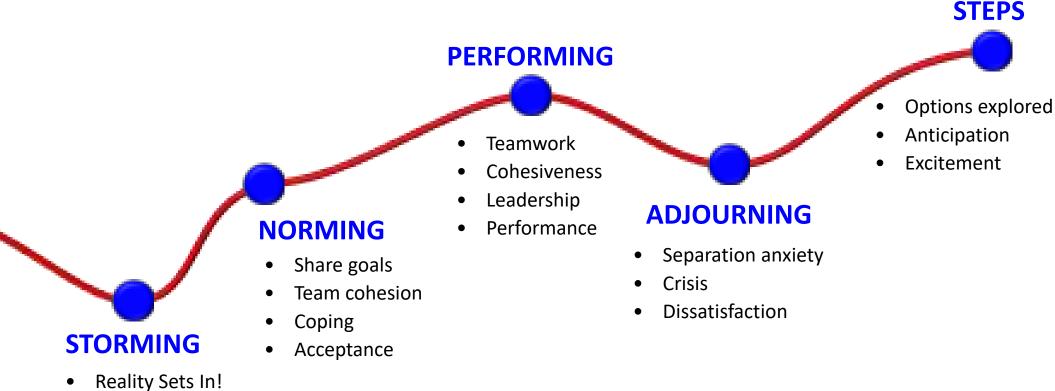
SUPPORTING THROUGH STAGES

A useful model for understanding this is Tuckman (1965)

Excitement

- Anticipation
- Anxiety
- Optimism

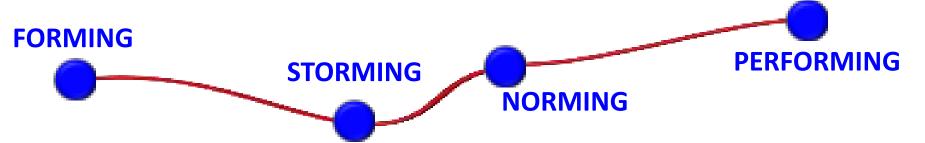
FORMING



NEXT

SUPPORTING THROUGH STAGES

The following actions should be taken during key stages



	Forming	Storming	Norming	Performing
Overview	Set objectives	Resolve conflicts	Facilitate processes	Coach
Direction	High engagement	High engagement	Low engagement	Low engagement
Support	Low level	High level	High level	Low level
Leader focus	Individual tasks	People interactions	Task interactions	Team self-development
Persuasion style	Tell/push	Sell/consult	Listen/advise	Observe/support
Team interaction	Leader provide links	Facilitate relationships	Facilitate team process	Dynamic grouping
Summary	Individuals	Relationships	Processes	Self-development

Source: http://www.teamtechnology.co.uk/tuckman.html

TRAINING IS A KEY ELEMENT

- Training should be focused on:
- Improving hard skills (OJT & course support)



 Improving soft skills (OJT interactions), and getting them to understand their traits & types and those of others (to improve collaboration and understanding)

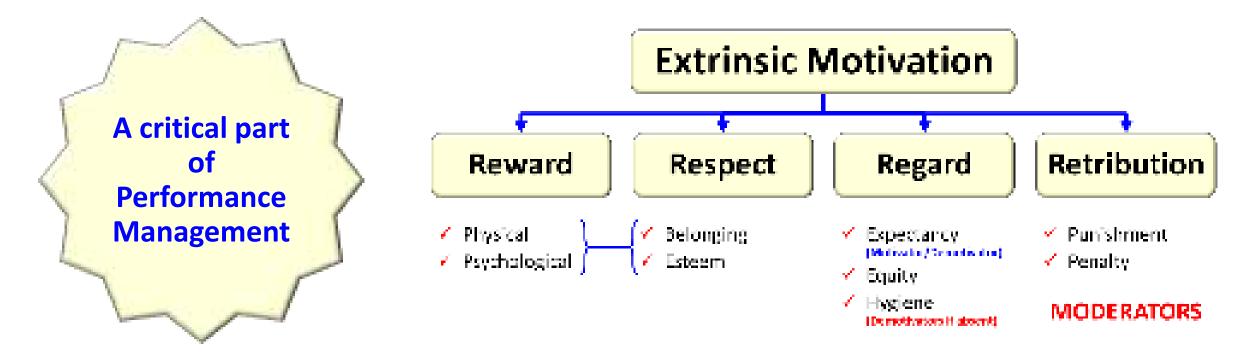
Coaching is important (particularly in norming and performing stages)

This should be part of **belonging and esteem strategies**

REWARD/RECOGNITION IS ALSO KEY

- Supported by the four R's framework
 - Can promote teamwork
 - Can provide motivation
 - But be careful about equity issues

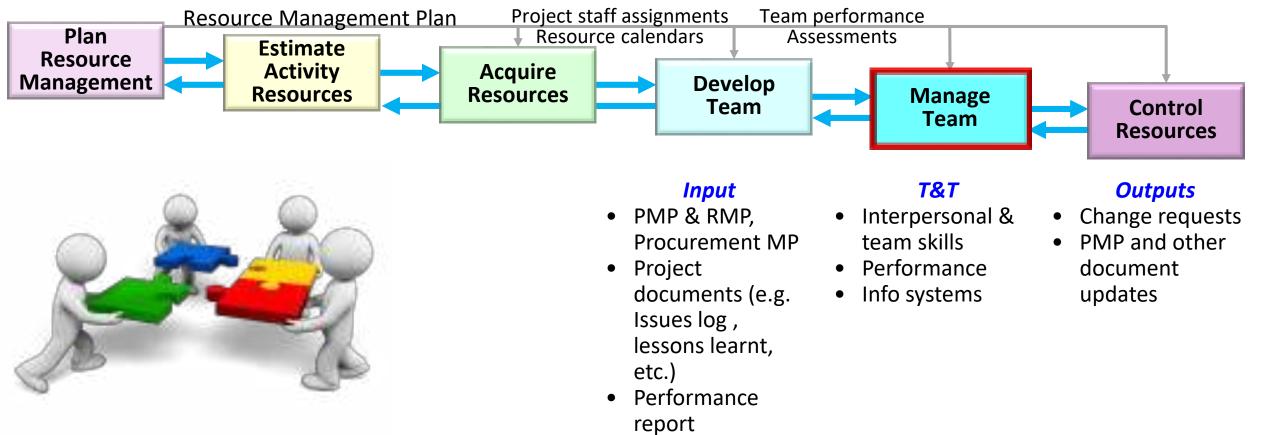






TREOVERERS WELCOME

MANAGE TEAM



• EEF & OPA

MANAGE PROJECT TEAM

- The Project Manager (PM) must lead their team (using different techniques as discussed earlier)
- The PM must carefully monitor & proactively manage:
 - project progress in relation to milestones/ objectives (know who is doing what)
 - team progress, morale & interactions (MBWA)
 - Financial and resource control issues (risk management)
 - disagreements and conflicts





MANAGING CONFLICT

KEY CAUSES OF CONFLICT

Scheduling Priorities Scarce resources Personal work styles Methodology/details Cost/Budget

Source: Developed from information in – Boonstra (2017), O d'Hermbemont & Cesar (2016)

Personalities (

MANAGING CONFLICT

DO

- © Collaborate
- © Problem solve
- Compromise/Reconcile
- Section Section Force/Direct (only as a last option)

DON'T

- Smooth/Accommodate
- Withdraw/Avoid

AND REMEMBER NOT ALL CONFLICT IS BAD

- Task related conflict may:
 - Generate new ideas/better alternatives
 - Provide motivation for participants
 - Help avoid Groupthink (where everyone just says 'Yes') – Groupthink can be a major problem
- However, when conflict becomes personal it is a big problem

Avoid letting it get personal





ADVICE ON MANAGING TEAMS

- Ensure there is a clear team identity
- Be patient and kind with your team



- Fix problems instead of blaming people
- Establish regular, effective meetings
- Allow time for teams to go through the basic teambuilding stages
- Nurture team members and encourage them to help each other (you have to lead by example)

ADVICE ON MANAGING TEAMS

 Plan social activities to help project team members and other stakeholders get to know each other better



Limit the size of work teams (typically 3-7 members)

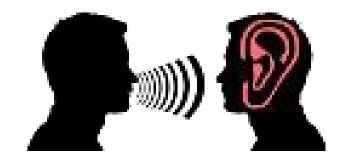
Really listen to your team!

(In particular use empathic listening)



EMPATHIC LISTENING & RAPPORT

- This means really listening (not just thinking about an answer, but understanding their issue)
- Do not think about your answer until you truly understand what they are trying to Say (explicit and implicit meaning)
- Be open and build rapport, so they are willing to talk freely and truthfully
- Try to avoid interruptions that break the communications
- Until you understand, use open questions to help them explain their thoughts



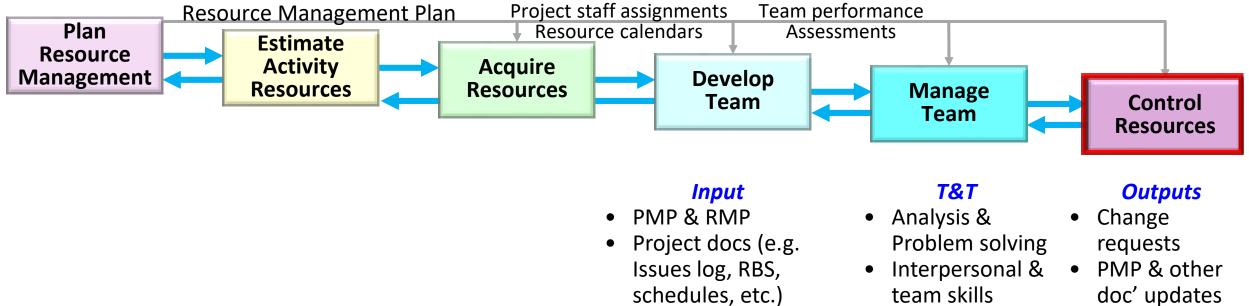






CONTROL RESOURCES

No. Dustriet



schedules, etc.)

Performance

Info systems

AND THE OVERTERS WITLCOME

•

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- Performance data
- Agreements
- **OPA**

CONTROL RESOURCES

- This is an ongoing important task
- Monitor your team and give appropriate guidance/support/direction/feedback (using the preceding two processes)
- Carefully monitor and control the coordination of materials and other resources

This will take a fair bit of your time

(But it is essential and it helps to ensure success – in lots of different ways)





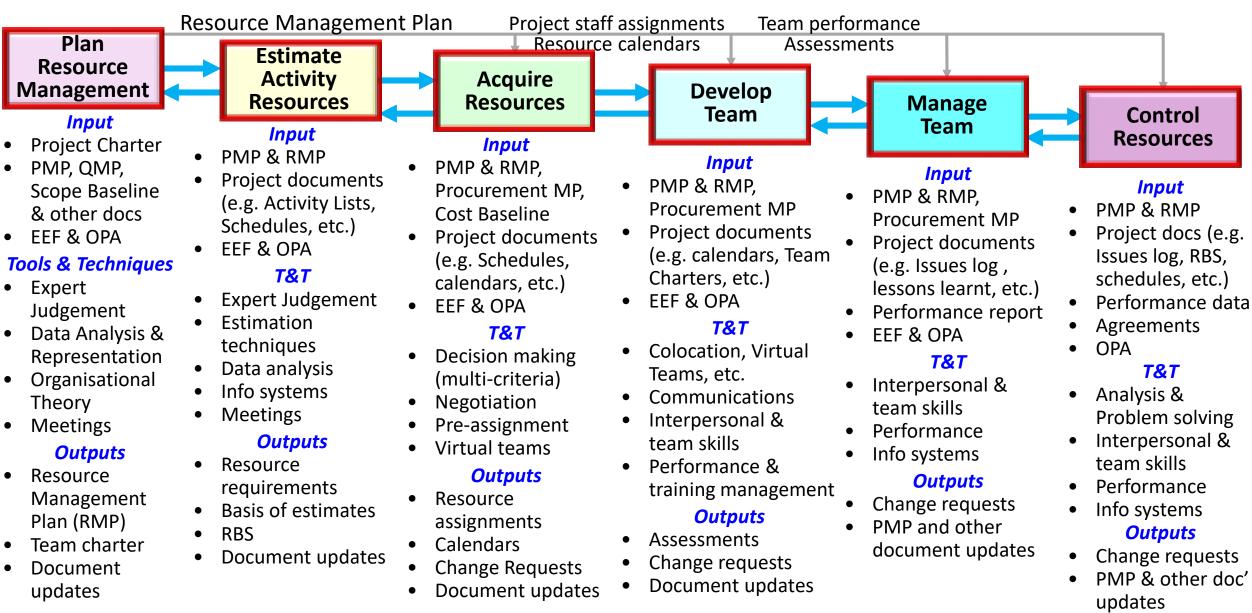
TOPIC SUMMARY



TOPIC SUMMARY

- Project Resource Management is important
- It is based on critical processes that help to ensure that:
 - the right skills are available when they are needed
 - > the *needed resources are available* when they are needed
 - > the *team is motivated and managed* to achieve success
 - We don't burn them out (proactive load management)
- These techniques influence scope & schedule management (this is a key to getting the work done on time & on budget)

IT IS MANAGED THROUGH...



ANY OUESTIONS