

Common ITTO's

Don't Memorize Them

PROCESS GROUPS & KNOWLEDGE AREAS

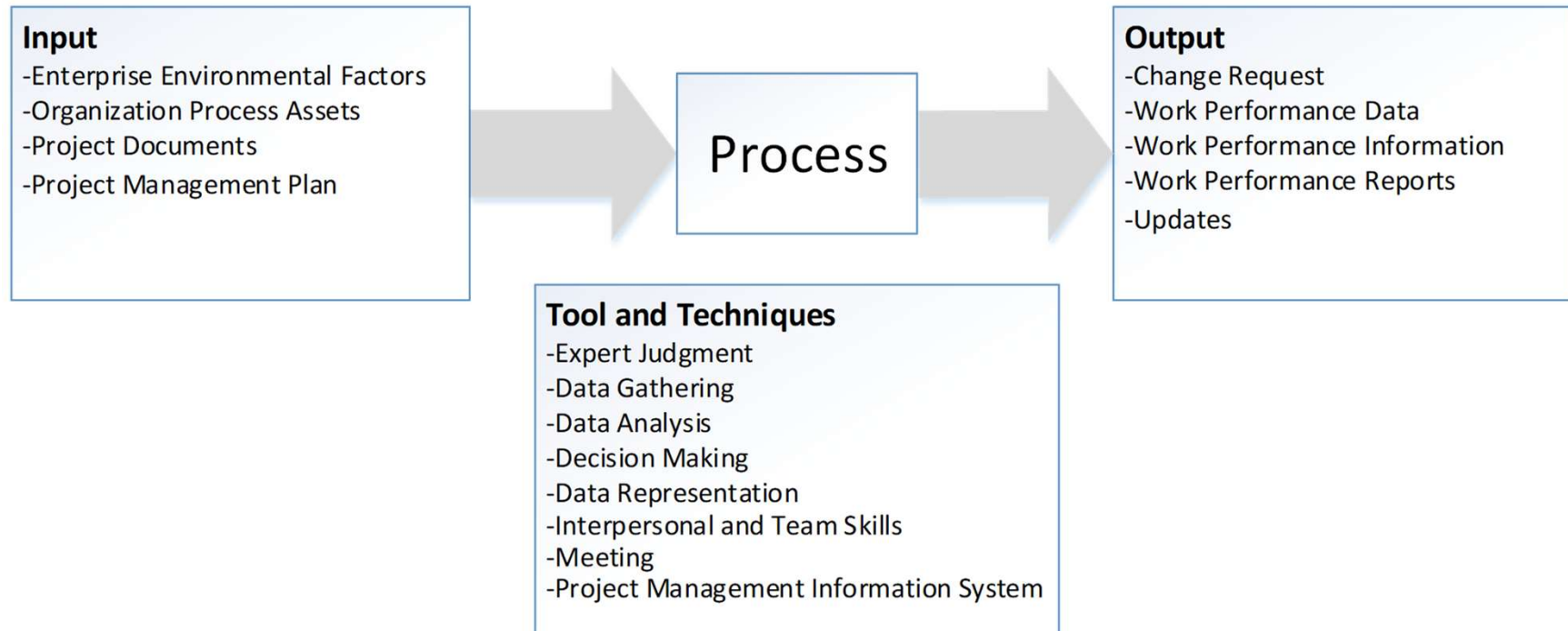
Knowledge Areas	Project Management Process Groups				
	Initiating	Planning	Executing	Monitoring & Controlling	Closing
Project Integration Management	Develop Project Charter	Develop Project Management Plan	Direct and Manage Project Work Manage Project Knowledge	Monitor and Control Project Work Perform Integrated Change Control	Close Project or Phase
Project Scope Management		Plan Scope Management Collect Requirements Define Scope Create WBS		Validate Scope Control Scope	
Project Schedule Management		Plan Schedule Management Define Activities Sequence Activities Estimate Activity Durations Develop Schedule		Control Schedule	
Project Cost Management		Plan Cost Management Estimate Costs Determine Budget		Control Costs	
Project Quality Management		Plan Quality Management	Manage Quality	Control Quality	
Project Resource Management		Plan Resource Management Estimate Activity Resources	Acquire Resources Develop Team Manage Team	Control Resources	
Project Communications Management		Plan Communications Management	Manage Communications	Monitor Communications	
Project Risk Management		Plan Risk Management Identify Risks Perform Qualitative Risk Analysis Perform Quantitative Risk Analysis Plan Risk Responses	Implement Risk Responses	Monitor Risks	
Project Procurement Management		Plan Procurement Management	Conduct Procurements	Control Procurements	
Project Stakeholder Management	13.1 Identify Stakeholders	Plan Stakeholder Engagement	Manage Stakeholder Engagement	Monitor Stakeholder Engagement	

Inputs, Tools, Techniques, and Outputs (ITTO)

- 660+ Inputs, Tools, Techniques, and Outputs across the 49 process
- Many process has the same ITTO's
- Don't memorize ITTO's
- Understand them and why there are their



Common Inputs, Tools and Techniques, and Outputs



Common Inputs

■ Common Inputs

- **Project Management Plan**
- **Enterprise Environmental Factors, (EEF)**
- **Organization Process Assets, (OPA)**
- **Project Documents**



Enterprise Environmental Factors (EEF)

- Things that impact the project but are not part of the project itself
- Influence the organization, the project, and its outcome
- It is essential to consider these internal and external factors while planning the project to determine their influence
- Can enhance or constrain project management options and may have negative or positive influences on the outcomes



Enterprise Environmental Factors (EEF)



Organization Process Assets (OPA)

- Organizations have assets such as information, policies, procedures, documents, or knowledge bases which are called Organizational Process Assets (OPA) to help them in achieving their objectives
- Kept in some central repository so that they can be used whenever required
- These elements affect several aspects of the project
- Project team members update and add to the Organizational Process Assets throughout the project
- Examples:
 - Project templates
 - Software tool
 - Historical information
 - Project closure guidelines
 - Risk control procedures
 - Change control procedures
 - Issue and defect management procedures



Project Documents

- Any documents that are related to the project
- Project documents are additional documents that are created and used throughout the 49 processes **that are not part of the project management plan**
- “include but are not limited to.”



Project Documents

Project Document	Knowledge Area Where Created
1. Activity attributes	Schedule Management
2. Activity list	Schedule Management
3. Assumption log	Integration Management
4. Basis of estimates	Cost Management
5. Change log	Integration Management
6. Cost estimates	Cost Management
7. Cost forecasts	Cost Management
8. Duration estimates	Schedule Management
9. Issue log	Integration Management
10. Lessons learned register	Integration Management
11. Milestone list	Schedule Management
12. Physical resource assignments	Resource Management
13. Project calendars	Schedule Management
14. Project communications	Communications Management
15. Project schedule	Schedule Management
16. Project schedule network diagram	Schedule Management
17. Project scope statement	Scope Management
18. Project team assignments	Resource Management
19. Quality control measurements	Quality Management
20. Quality metrics	Quality Management
21. Quality report	Quality Management
22. Requirements documentation	Scope Management
23. Requirements traceability matrix	Scope Management
24. Resource breakdown structure	Resource Management
25. Resource calendars	Resource Management
26. Resource requirements	Resource Management
27. Risk register	Risk Management
28. Risk report	Risk Management
29. Schedule data	Schedule Management
30. Schedule forecasts	Schedule Management
31. Stakeholder register	Stakeholder Management
32. Team charter	Resource Management
33. Test and evaluation documents	Quality Management



Project Management Plan

- Defines how the project is executed, monitored and controlled, and closed
- 18 components, 14 plans and 4 baselines
- “include but are not limited to.”



Project Management Plan

Project Plan	Process Where Made
Scope Management Plan	Plan Scope Management
Requirement Management Plan	Plan Scope Management
Schedule Management Plan	Plan Schedule Management
Cost Management Plan	Plan Cost Management
Quality Management Plan	Plan Quality Management
Resource Management Plan	Plan Resource Management
Communication Management Plan	Plan Communications Management
Risk Management Plan	Plan Risk Management
Procurement Management Plan	Plan Procurement Management
Stakeholder Management Plan	Plan Stakeholder Management
Change Management Plan	Develop Project Management Plan
Configuration Management Plan	Develop Project Management Plan
Scope Baseline	Create WBS
Schedule Baseline	Develop Schedule
Cost Baseline	Determine Budget
Performance Measurement Baseline	Develop Project Management Plan
Project Life Cycle Description	Develop Project Management Plan
Development Approach	Develop Project Management Plan

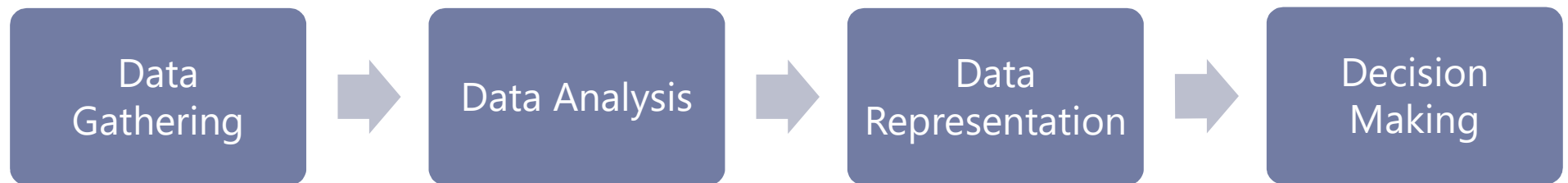


Expert Judgement

- One of the most common tools in the planning process
- Includes hiring an expert or subject matter expert (SME) to help you to plan a process or conduct a process
- People with specialized knowledge or training in a particular process, industry, or technology



Data Gathering, Data Analysis, Data Representation, Decision Making



Data Gathering

- Gather data about a particular process that you're working on
- On certain processes, you will need to gather additional data before coming up with an output for that process
- Methods:
 - **Brainstorming:** Brainstorming is when you bring together a group of stakeholders to get ideas and analyze them. Brainstorming sessions are generally facilitated by the project manager.
 - **Interviews:** Any time you want to gather data from a particular stakeholders, one of the best methods is to just interview them. Ask them a series of questions and talk with them about their thoughts and views.
 - **Focus groups:** A focus group is when you bring together subject matter experts to understand their perspectives and how they would go about solving problems.
 - **Checklist:** A checklist is generally created by the organization and then given to potential stakeholders on a project for them to identify items they may want on a project, things they may not want on the project, and some success criteria they may have for the project.
 - **Questionnaires and surveys:** Questionnaires and surveys can be given to stakeholders to better understand what they may be looking for on a project and to better understand their needs.



Data Analysis

- To analyze the data that has been gathered
- Methods:
 - **Alternative analysis:** Alternative analysis involves looking at different options or ways to accomplish something.
 - **Root cause analysis (RCA):** A root cause analysis is used to identify the main underlining reason for particular event.
 - **Variance analysis:** Variance analysis is used quite often to find the exact differences between different things.
 - **Trend analysis:** Trend analysis involves looking at data over a period of time to see if a particular trend is forming.



Data Representation

- Illustrate different ways that a data could be shown to stakeholders
- Methods generally include the use of charts, matrixes, and different types of diagrams
- Examples:
 - Flowcharts
 - Fishbone diagrams
 - Histograms



Decision Making

- Have to make a decision on what to do with that data
- Methods:
 - **Voting:** Voting is used by a group to determine whether to proceed, change, or reject something. Voting can be: majority wins, unanimity, where everyone agrees; or plurality, where a majority is not obtained but that decision is chosen.
 - **Multicriteria decision analysis:** This is when you make a table (matrix) that lists different types of criteria, and then evaluate an idea based on those criteria.
 - **Autocratic decision making:** This is when one person makes a decision for the entire team.



Interpersonal and Team Skills

- All project managers need to have good interpersonal and team skills in order to manage the different stakeholders that will be on the project
- most important tool in real-life project management
- Methods:
 - **Active listening:** Active listening is understanding, acknowledging, and clarifying what others are saying to you.
 - **Conflict management:** Anytime you bring a team together, bound to have conflicts on that team.
 - **Facilitation:** Facilitation is the art of managing a group. This can include bringing the group together, generating ideas, solving problems, and dissipating the team.
 - **Meeting management:** Meeting management generally includes having an agenda, inviting the right stakeholders, setting a time limit, and following up with meeting minutes and action items.



Meetings

- Meetings can be done face-to-face or virtually.
- Have an agenda and distribute it to all attendees before the meeting.
- Meetings must be timed, including having set start and finish times for topics and the entire meeting.
- Make sure that the meeting always stays on topic and does not go off topic.
- Ensure that all attendees have input to the topics.
- Distribute detailed meeting minutes once the meeting is complete.



Project Management Information System (PMIS)

- Automated system that is used to help the project manager optimize the schedule or keep track of all the documents and the deliverables
- Usually the computer system that a given organization uses to manage its projects
- It should include all the software and hardware tools that we need to manage the project from start to finish
- Includes the work authorization system and the configuration management system

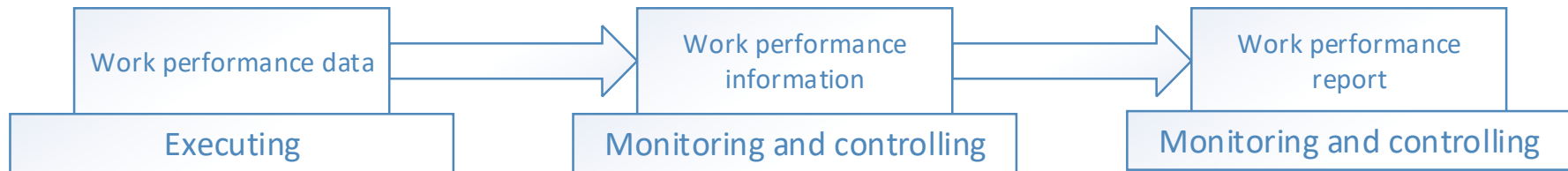


Change Request

- Proposal to change a document, deliverable, or baseline
- Can include a request to add or remove work from the scope, finish the project faster, or complete the project more cheaply
- Implements
 - Corrective action: is something that's taken to ensure that the project gets back on track.
 - Preventive action: is something you put in place to ensure the project stays on track.
 - Defect repair is done to fix a broken component on a project, such as if network switch memory fails on a network upgrade project.



Work Performance Data, Information, Report



Work Performance Data

- Work performance data is simply raw data
- It is the status of the work that was done but does not have any analysis applied to it.
- It is not useful by itself.
- Usually outputs of executing processes



Work Performance Information

- Information of the work that was performed compared to the plan
- It gives you actual status about the deliverables
- Work performance information is usually the output of most monitoring and controlling processes



Work Performance Report

- overall status report of the actual project
- It takes all the work performance information and puts it together into one comprehensive document
- *You take the work performance data and compare it against the plan to come up with the work performance information. Then you take all the work performance information and create the work performance reports. In short, data feeds info and all the info creates reports.*



Updates (Project Management Plan, Project documents, EEF, OPA)

- Updates is a catchall term
- Updates can include project documents, the project management plan, OPA and EEF updates
- Expect to see this output many times throughout the book

