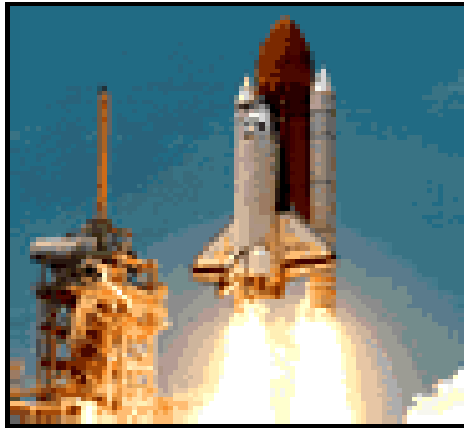


Project Management Body of Knowledge (PMBOK)

(An Overview of the Knowledge Areas)



Nutek, Inc.

3829 Quarton Road, Suite 102
Bloomfield Hills, Michigan 48302, USA.
Phone: 248-540-4827, Email: Support@Nutek-us.com
Web site: <http://Nutek-us.com>

Free PMBOK Guide, PDF file:

<http://egweb.mines.edu/eggn491/Information%20and%20Resources/pmbok.pdf>

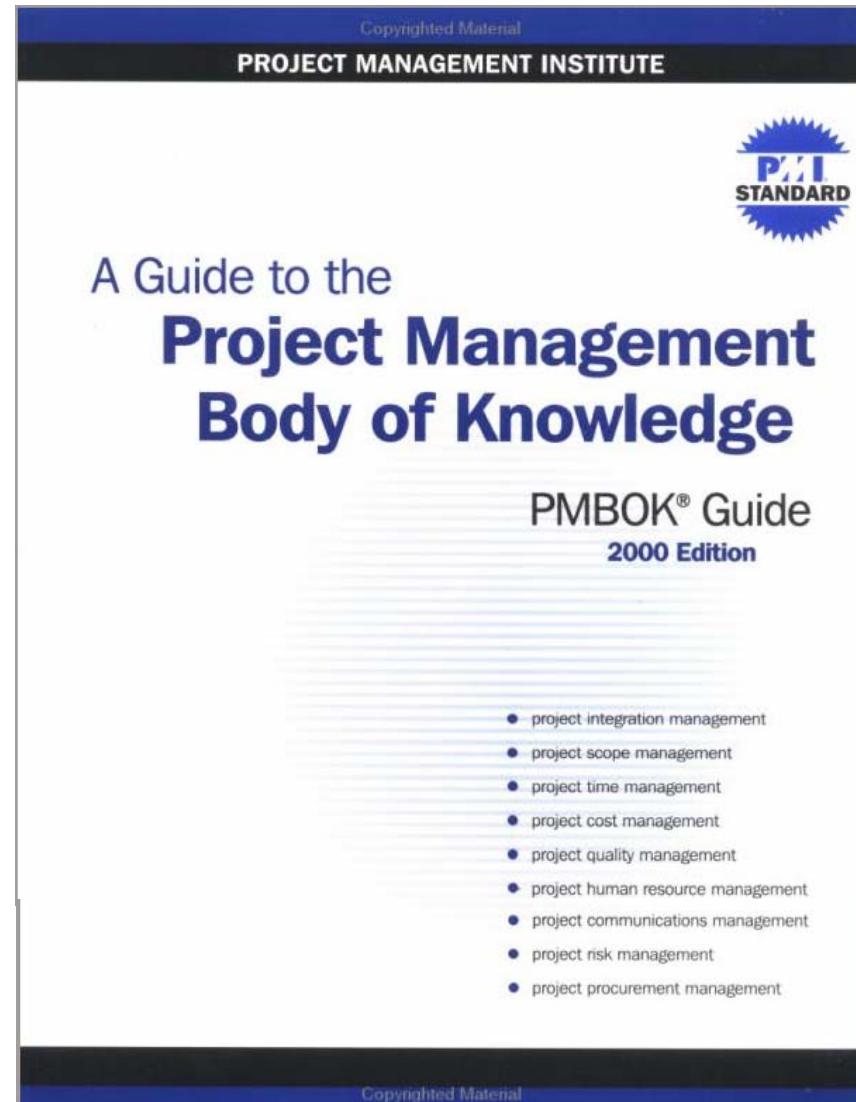
(Visit, review, copy and/or save, 1996 edition)

Purchase from publisher:

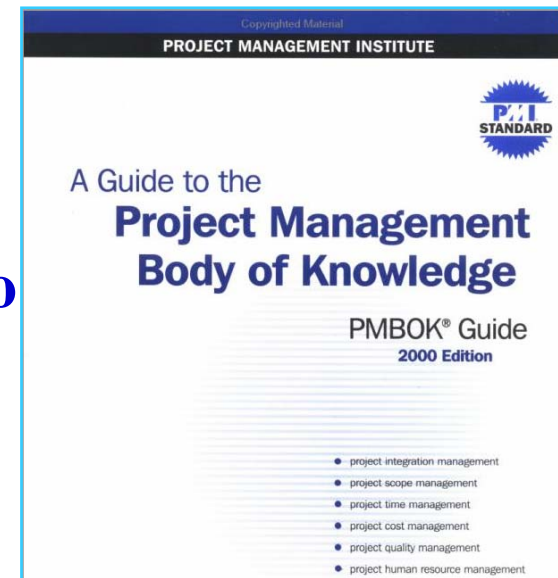
**PMI, Project Management Institute,
Four Campus Boulevard, Newton
Square, PA 19073-3299, USA**

**PMBOK Guide, ISBN: 1-880410-23-0
(2000 Edition)**

www.pmi.org



Published and maintained by Project Management Institute (PMI), the PMBOK Guide is recognized as the basic reference and the world's de facto standard by the project management profession. It describes the generally accepted knowledge and practices necessary to complete projects successfully.



Ref. Page in slides refers to the PAGE from PMBOK 2000 Edition from PMI. The page number shown may not match the FREE pdf version of 1996 edition PBMOK available for download.

PMBOK Contents - 12 Chapters

PMBOK has **12 Chapters** of which the last 9 Chapters contain the **9 Knowledge areas**

- Chapter 1: Introduction
- Chapter 2: The Project Management Context
- Chapter 3: Project Management Processes
- Chapters **4, 5, 6, 12: 9 Knowledge areas**
 - Chapter 4: Project Integration Management
 - Chapter 5: Project Scope Management
 - Etc.

Nine PM Knowledge Areas

(Help: The art and science of doing PM tasks)

4. Integration Management

Project integration helps you with project planning, execution, and control. It also identifies procedure you need to establish for project change control.

5. Scope Management

Project scope definition is very important for the success of the project. This area of knowledge helps you develop scope statement, boundaries of project, etc.

6. Time Management

This helps develop a project schedule that can be met and establish method to ensure that the schedule is met.
(It is not to be confused with personal time management)

7. Cost Manage..

You will need the information here for estimating cost of resources (people, material, equipment, travel, etc) for the project.

8. Quality Manage...

It offers tools for quality planning and assurance. It also describes current practices for evaluation and monitoring of quality requirements.

9. Human Resource

- This area helps you with finding people for the project and defines their roles and responsibilities. It also helps you structure the appropriate reporting relationships.

10. Communication

Deals with ways to plan, execute and control gathering and disseminating of all information relevant to the needs of the project stakeholders.

11. Risk

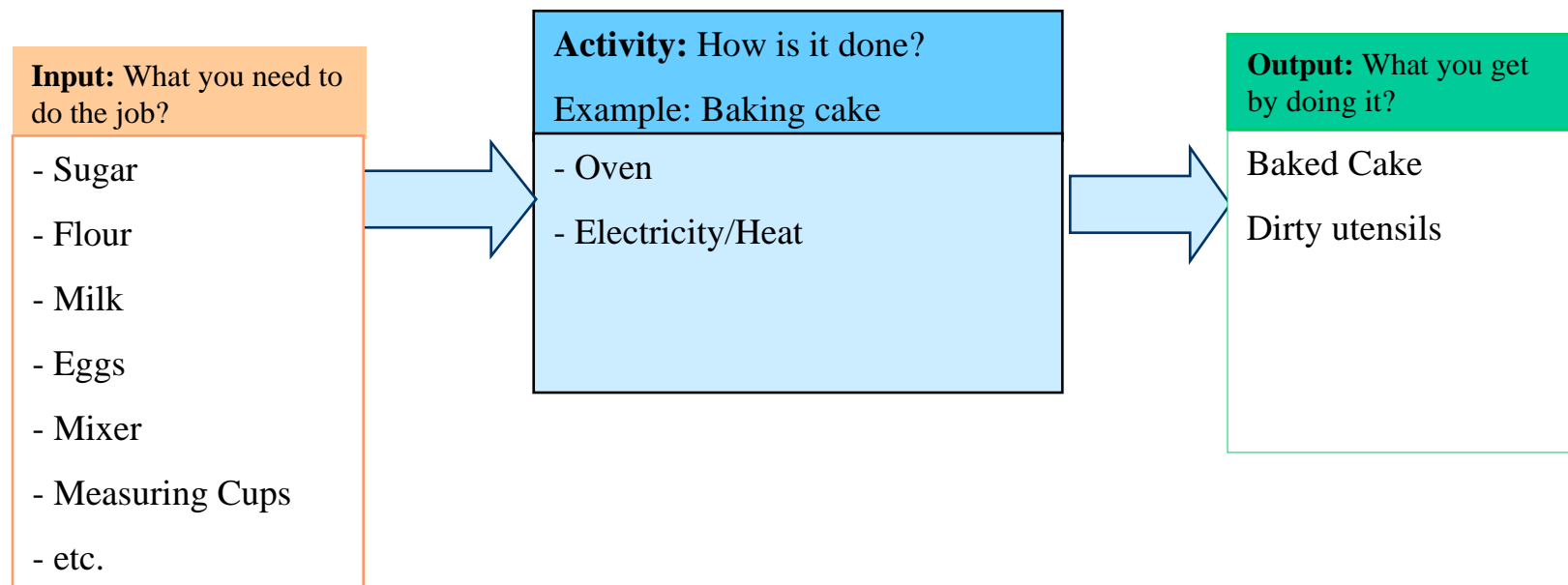
It describes the systematic process by which to identify, analyze, and respond to the project risk. It assures increase probability of project success.

12. Procurement

It helps with methods for procurement of goods, issuance of bids, selection of vendors, administering and closing contracts.

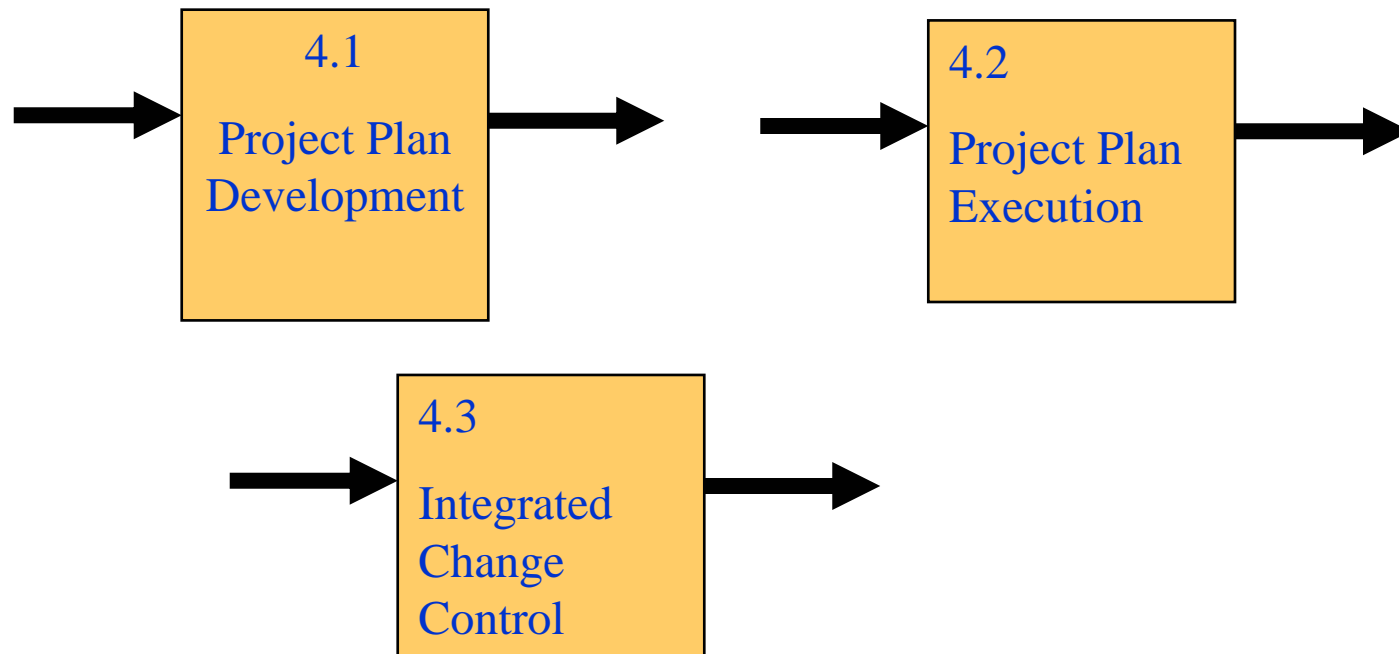
Project Management Processes (System View of an Activity)

An activity can be seen as a system that helps accomplish it. A system represents a process that needs input to perform the tasks, and has an output .



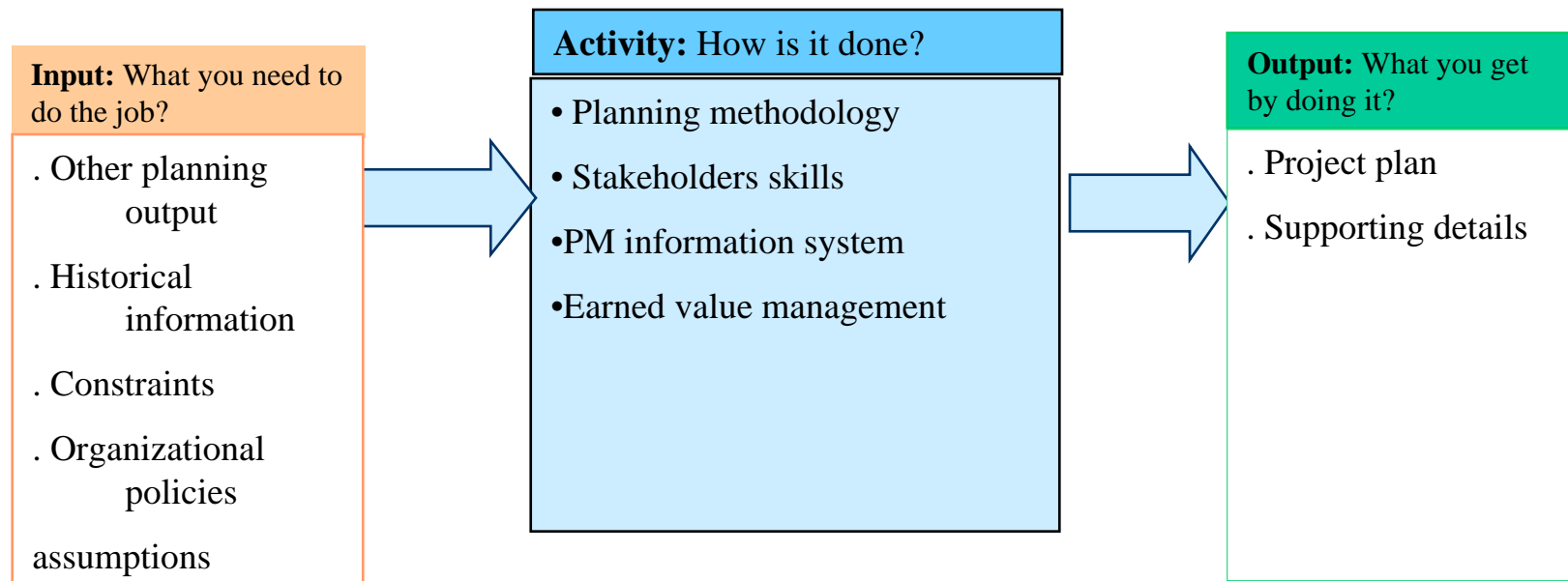
Project Integration Management

Includes processes that are performed to make sure that various elements of the projects are properly coordinated.



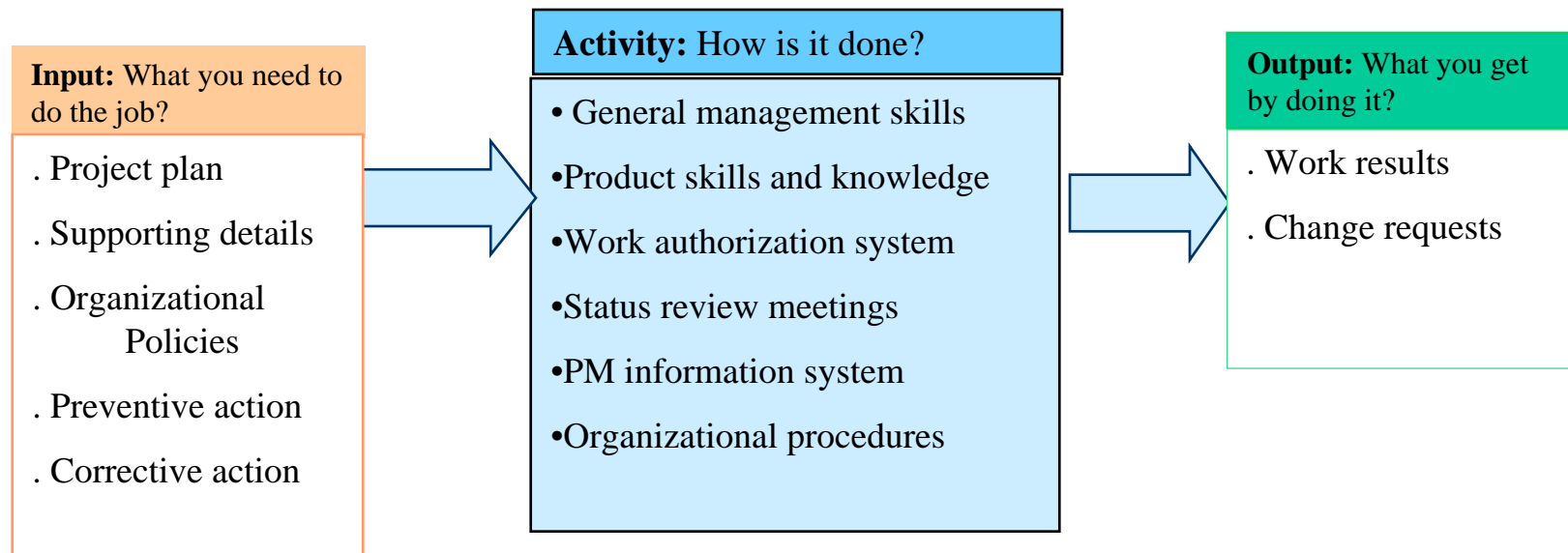
Project Integration Management

- Project Plan Development



Project Integration Management

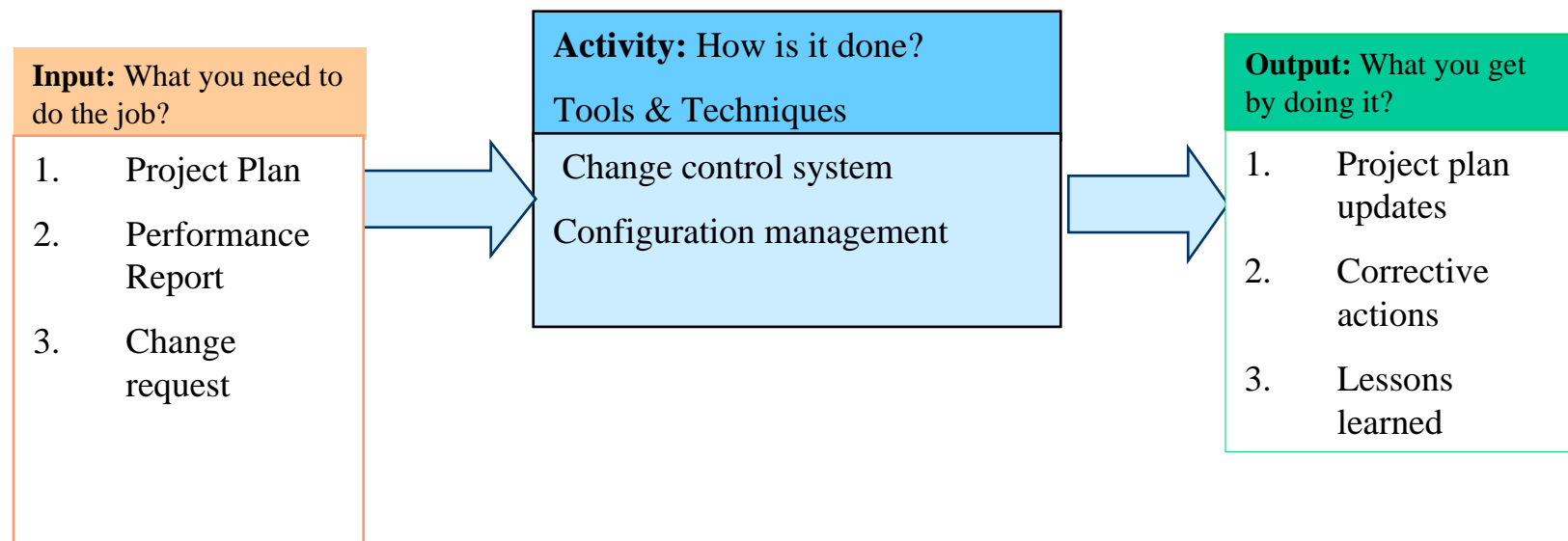
- Project Plan Execution



Project Integration Management

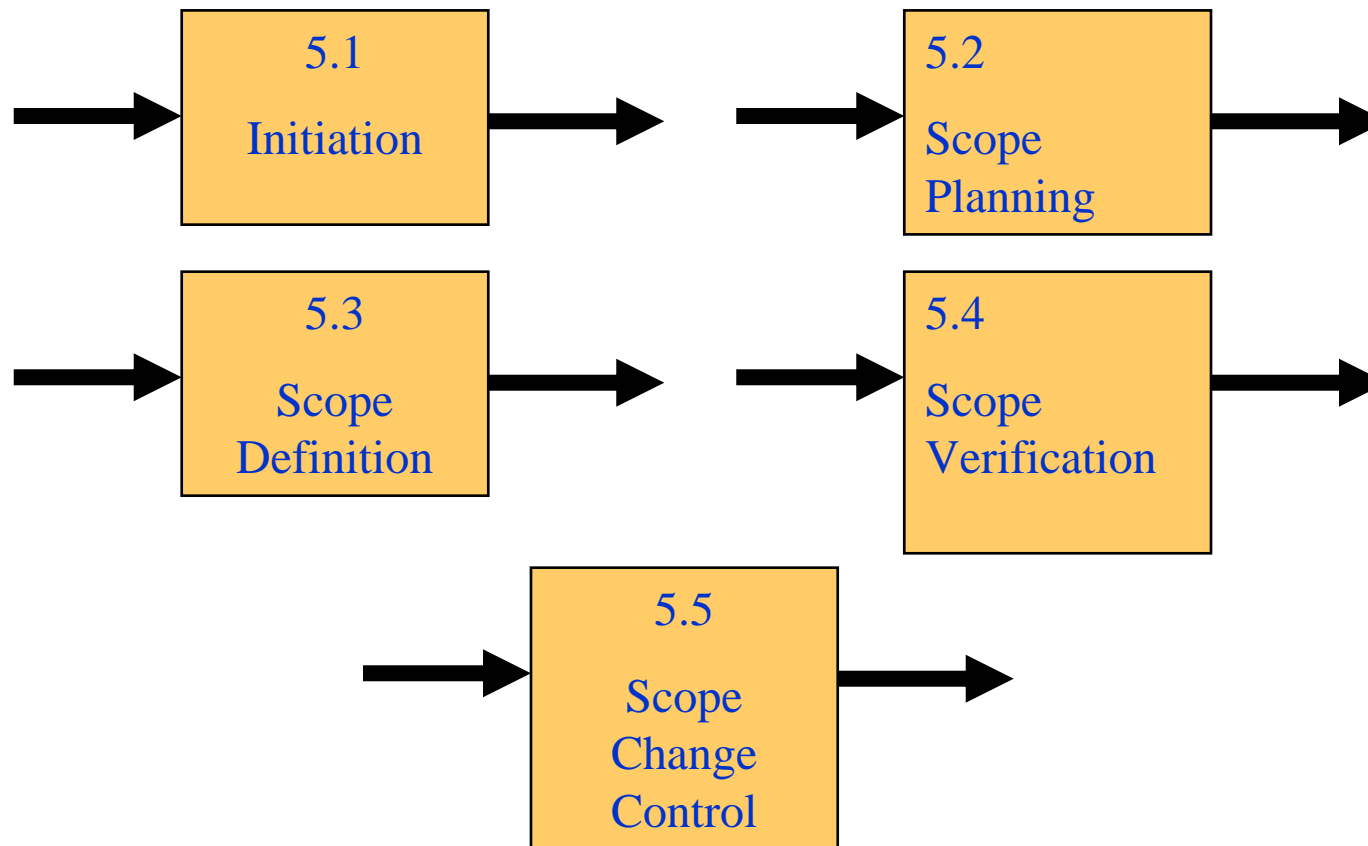
- Integrated Change Control

This process is for determining that change has occurred, ensuring that changes are agreed upon, and managing the actual changes when they occur.



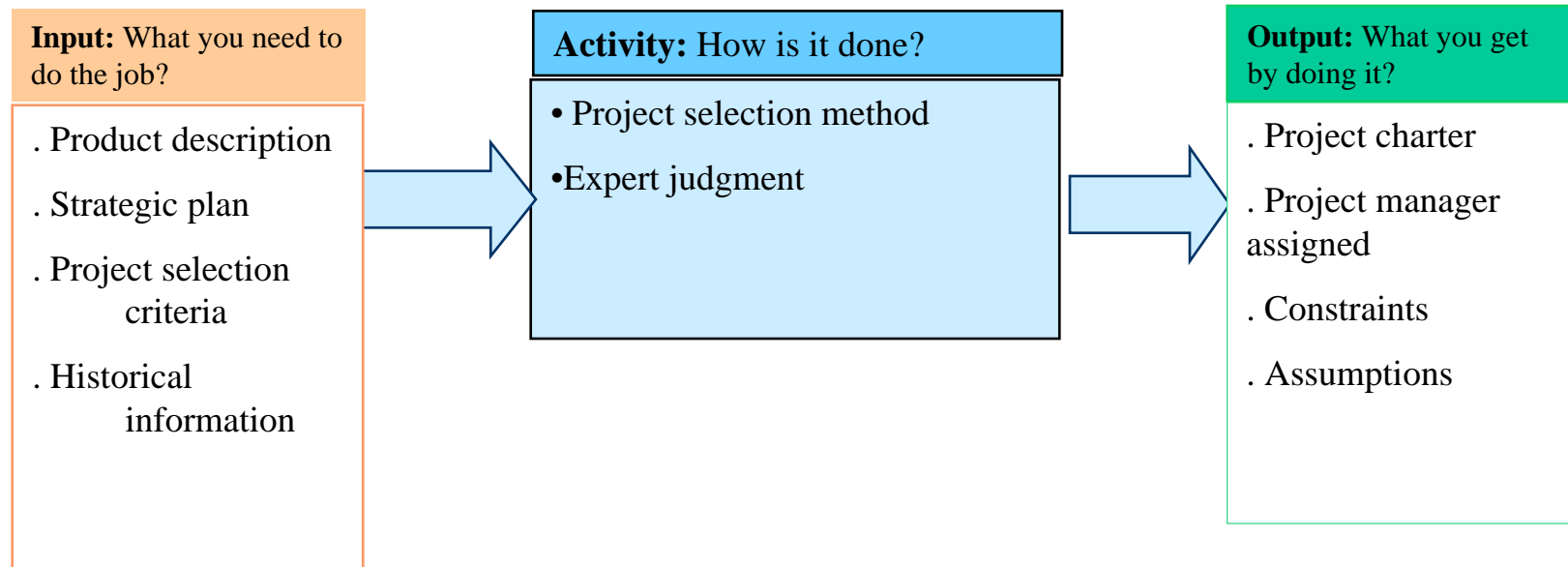
Project Scope Management

Includes processes required to ensure that the project includes all work required, and only the required , to complete the project successfully.



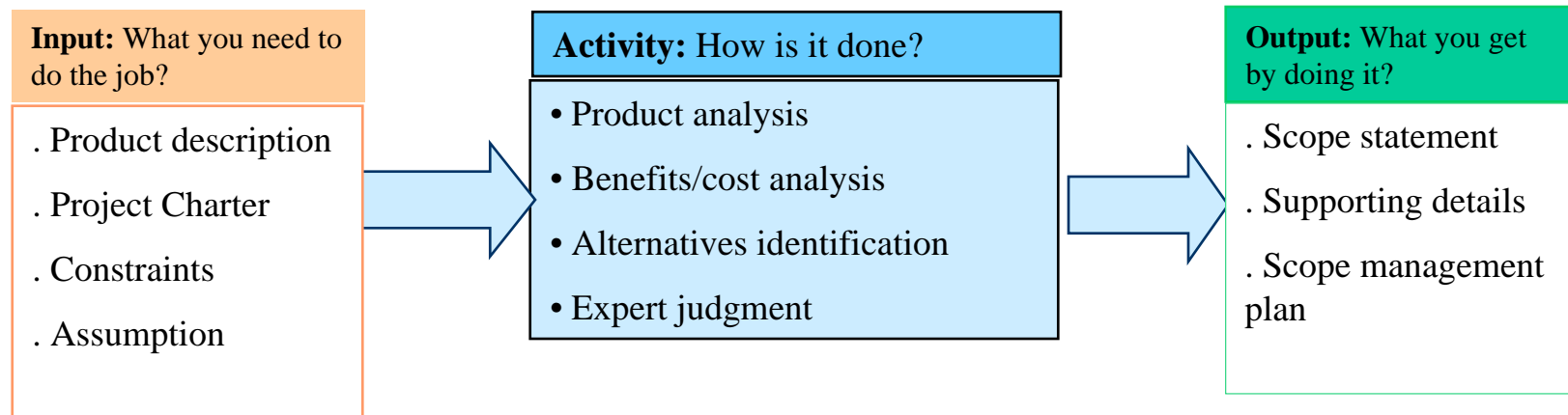
Project Scope Management

- Initiation



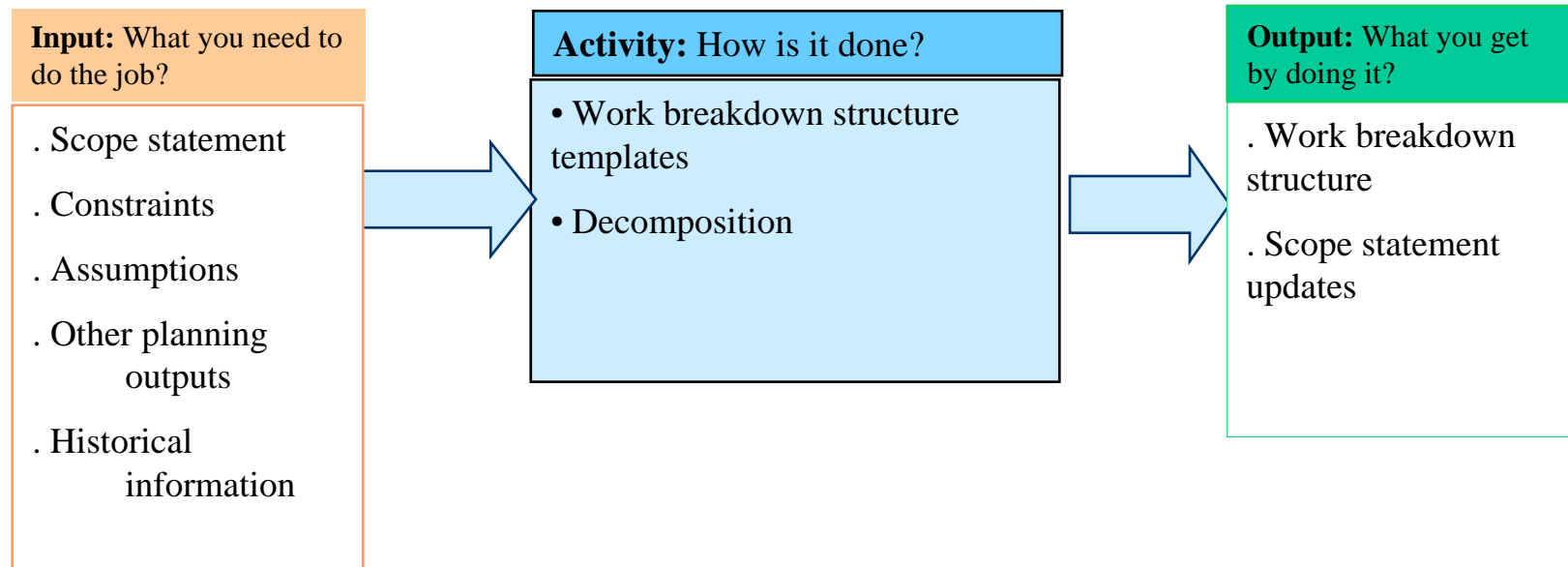
Project Scope Management

- Scope Planning



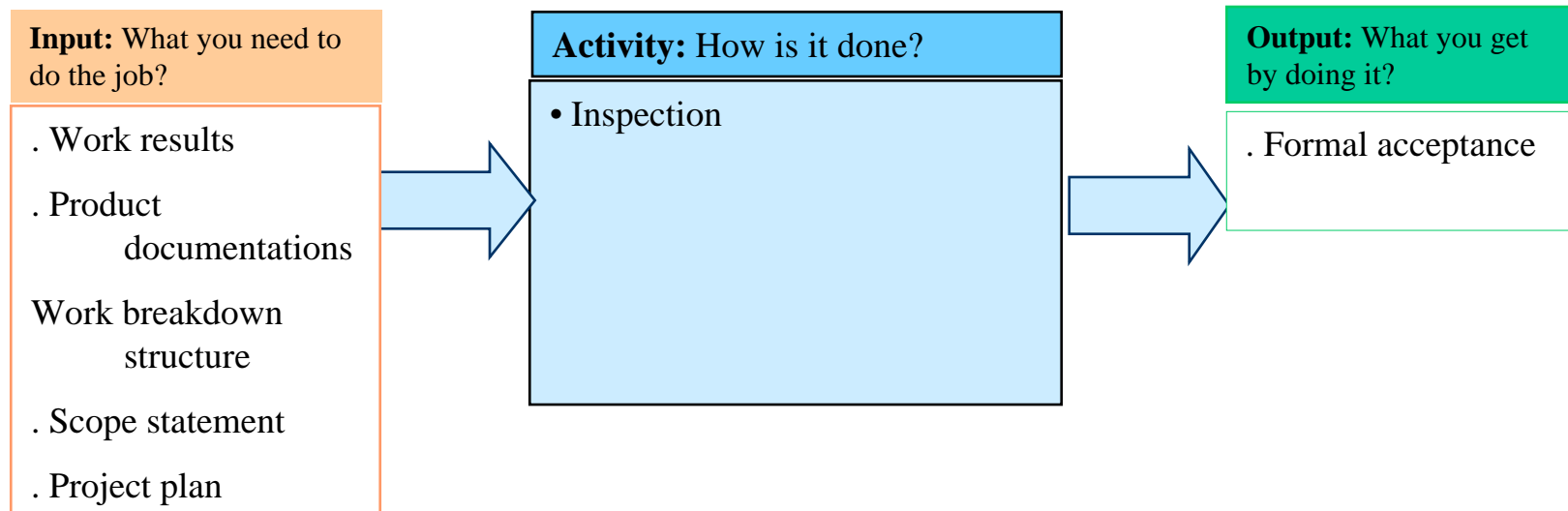
Project Scope Management

- Scope Definition



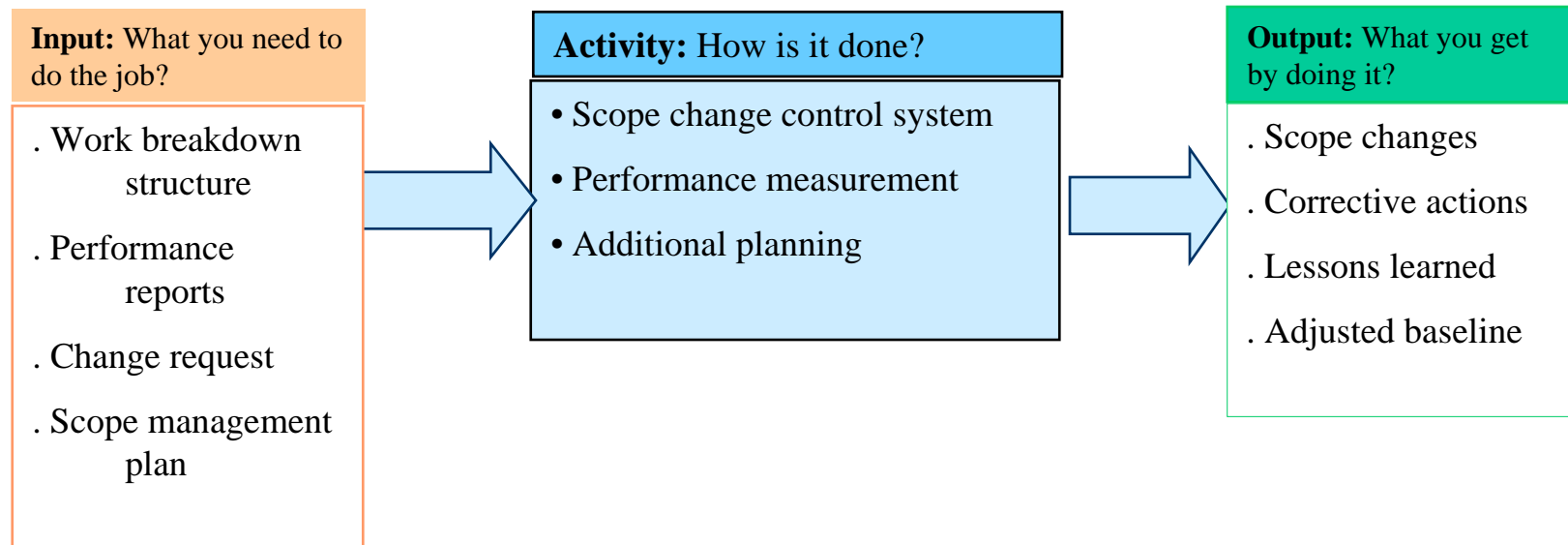
Project Scope Management

- Scope Verification



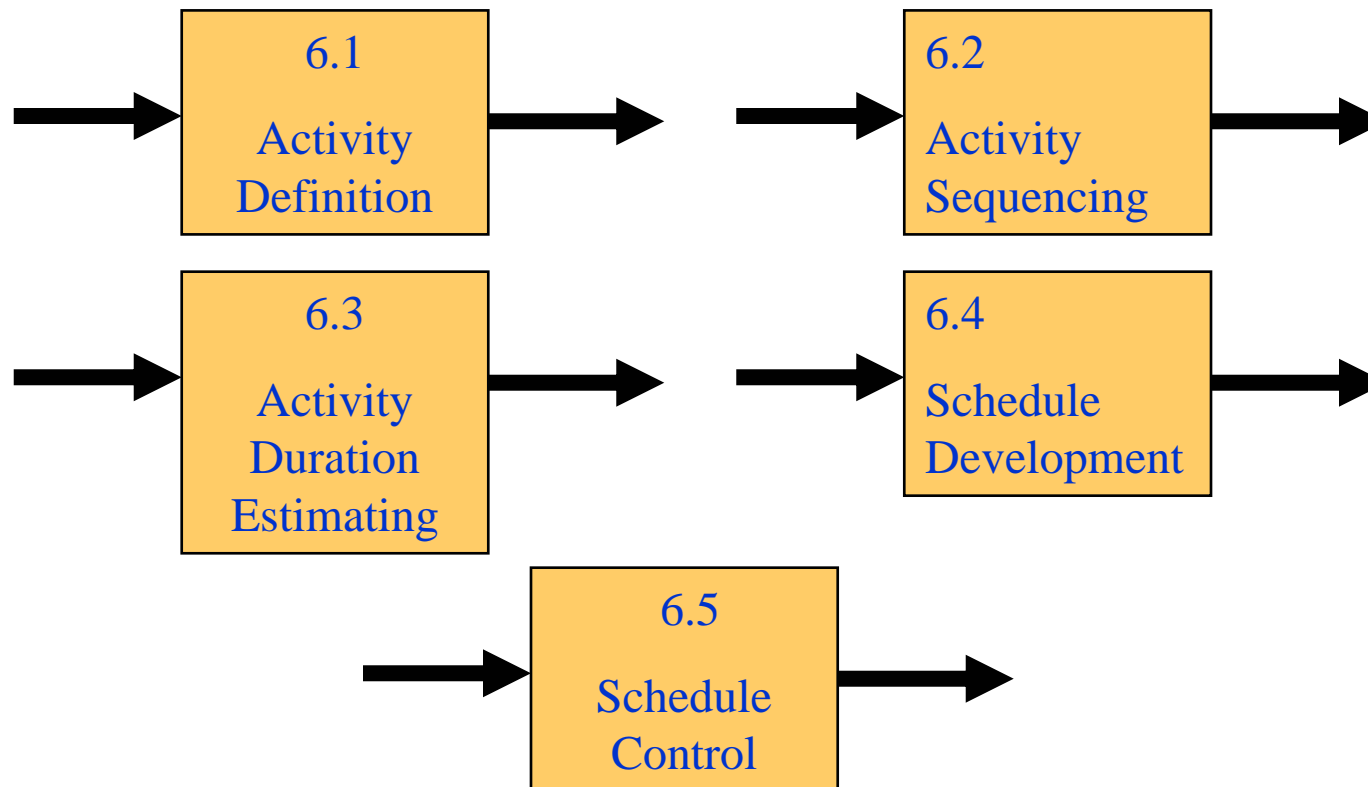
Project Scope Management

- Scope Change Control



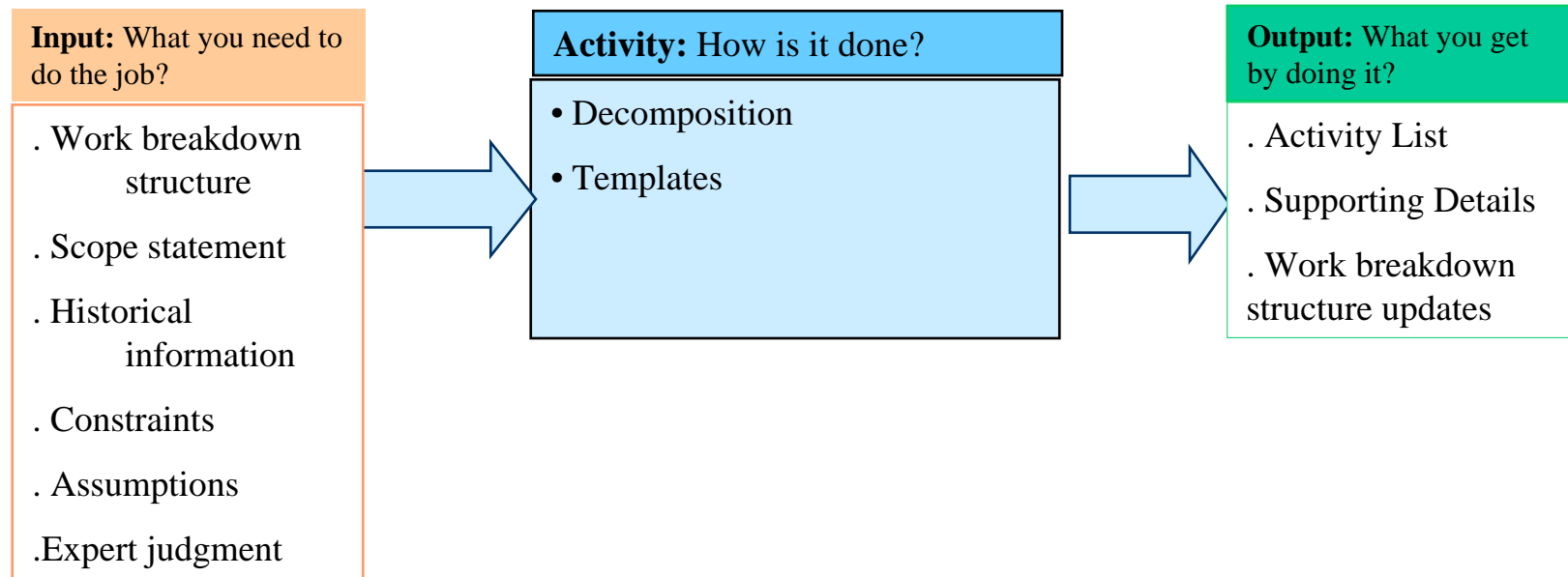
Project Time Management

Includes processes required to ensure timely completion of the project.



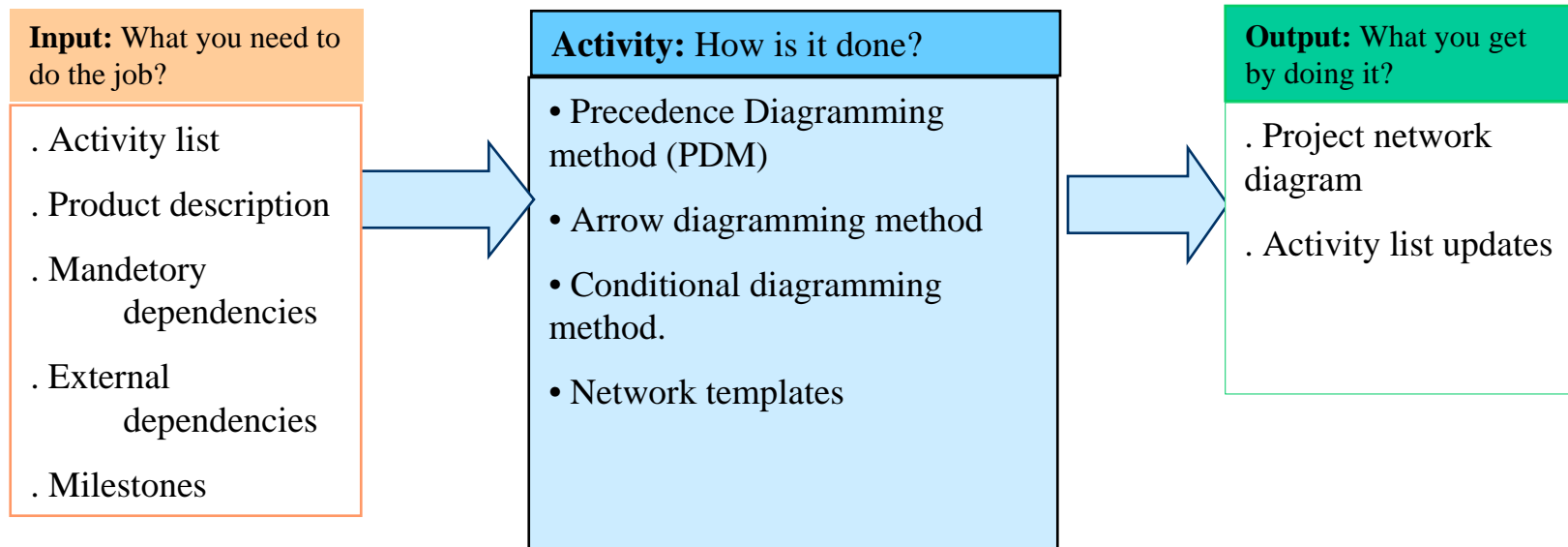
Project Time Management

- Activity Definition



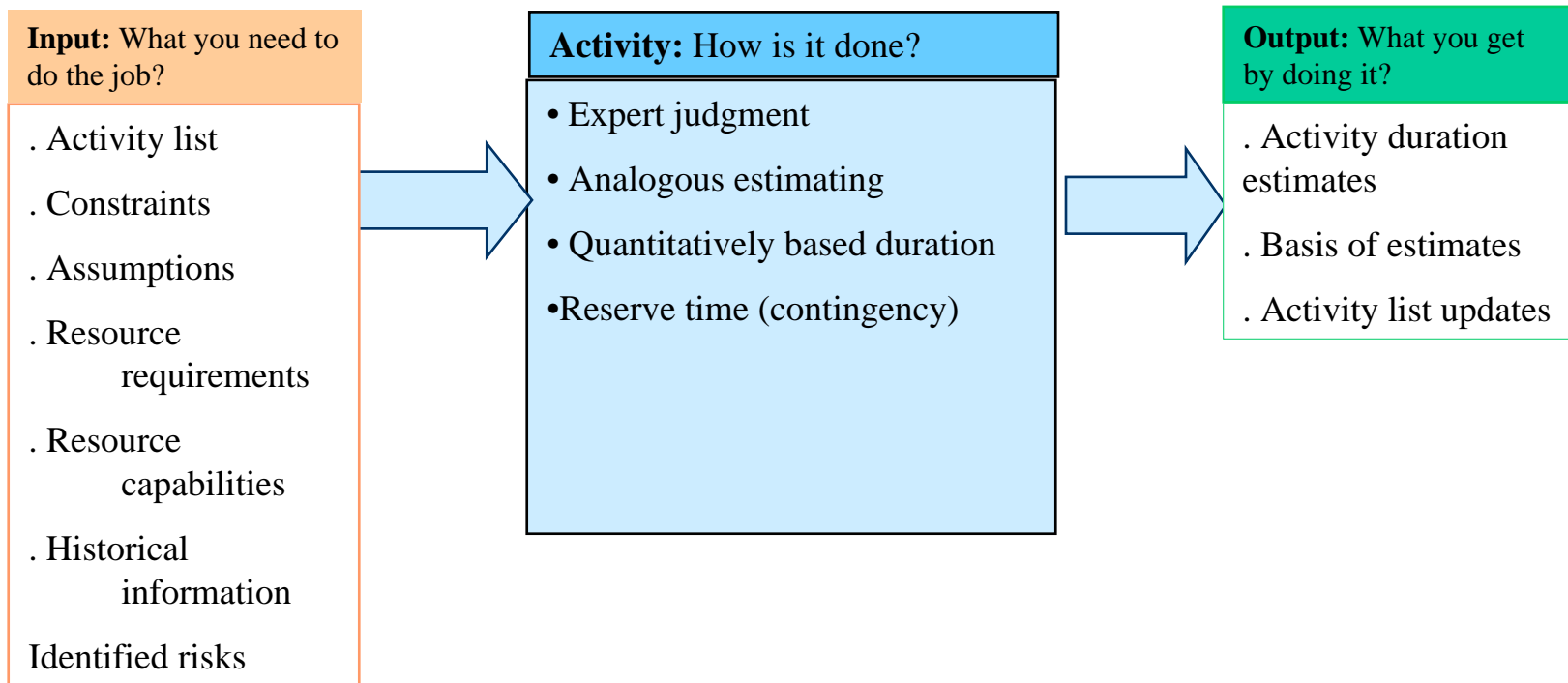
Project Time Management

- Activity Sequencing



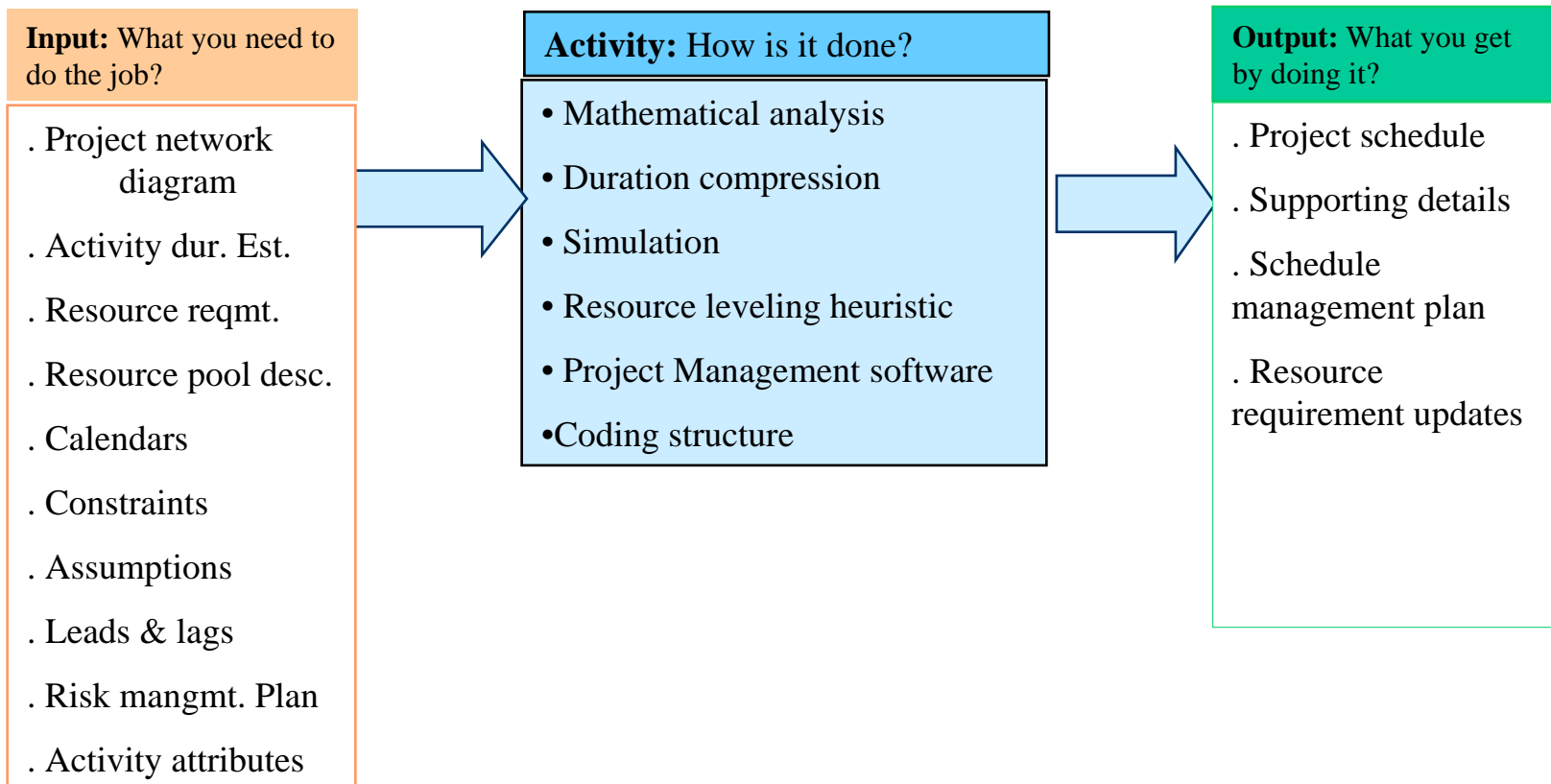
Project Time Management

- Activity Duration Estimating



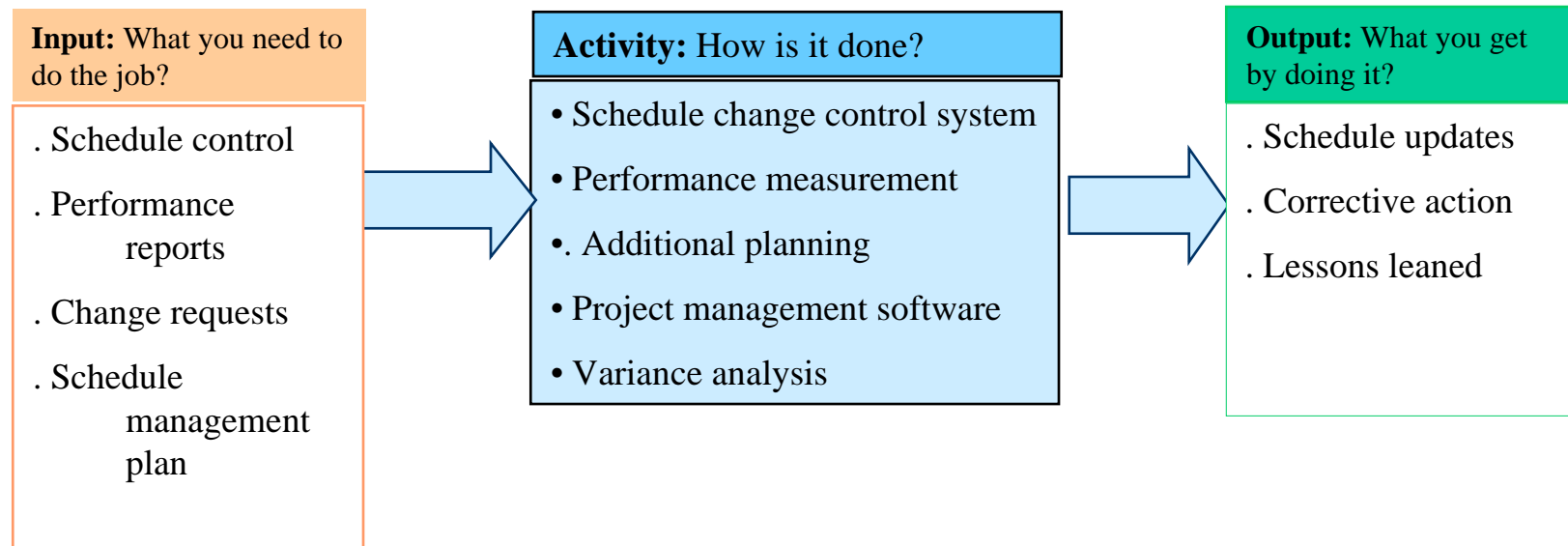
Project Time Management

- Schedule Development



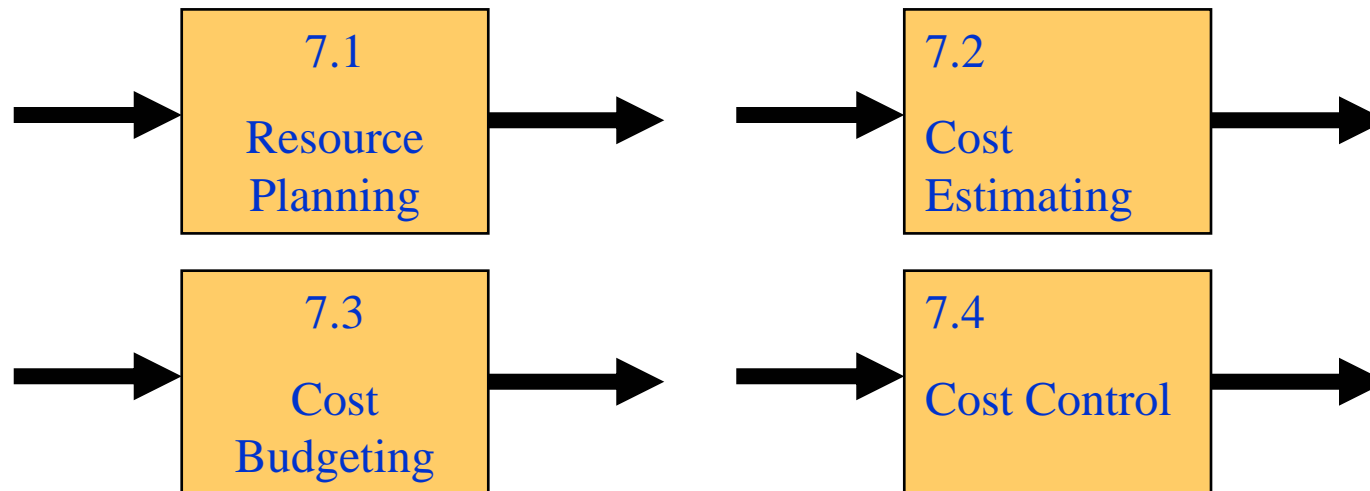
Project Time Management

- Schedule Control



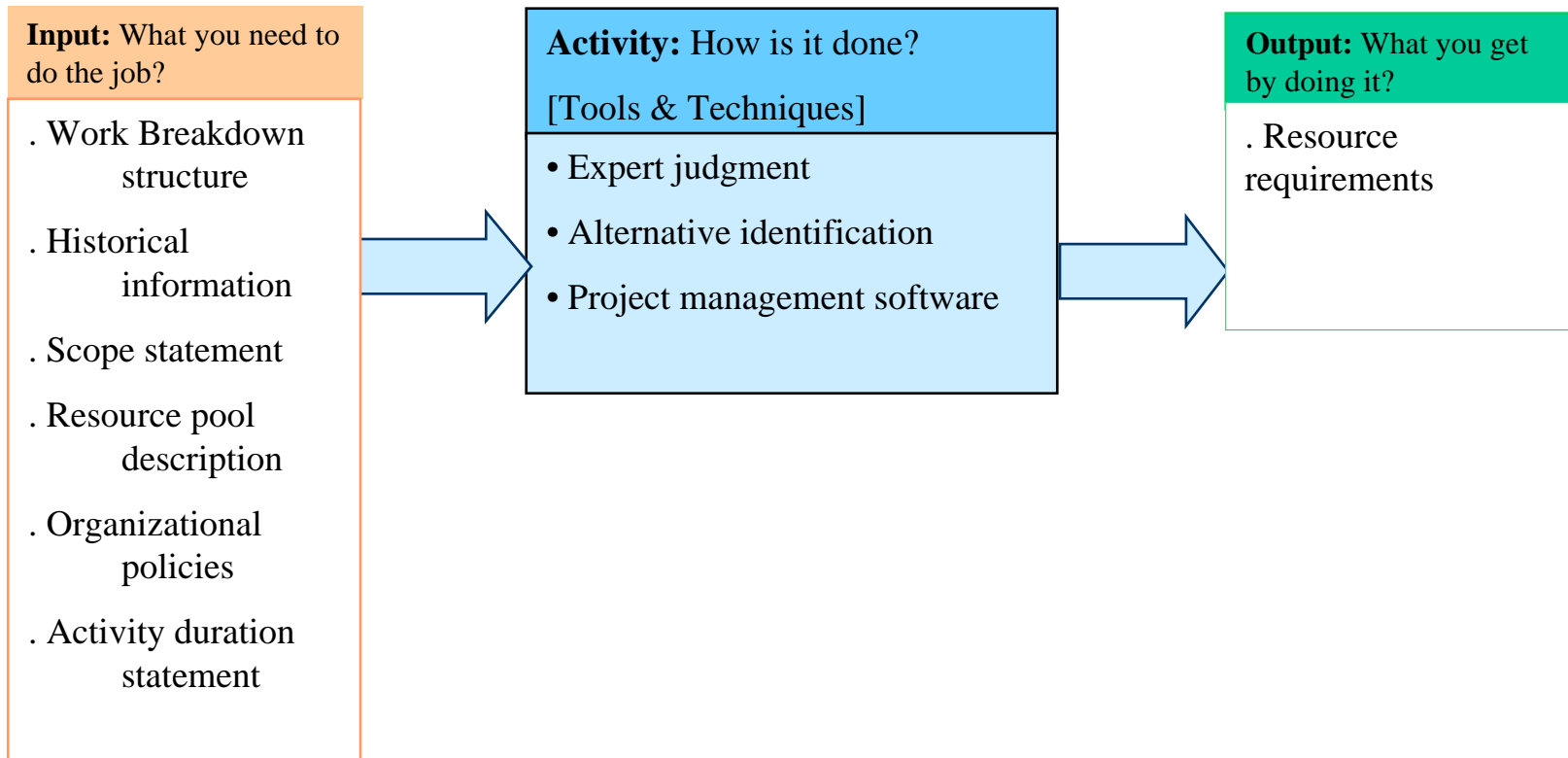
Project Cost Management

Includes processes required to ensure that the project is completed within the approved budget..



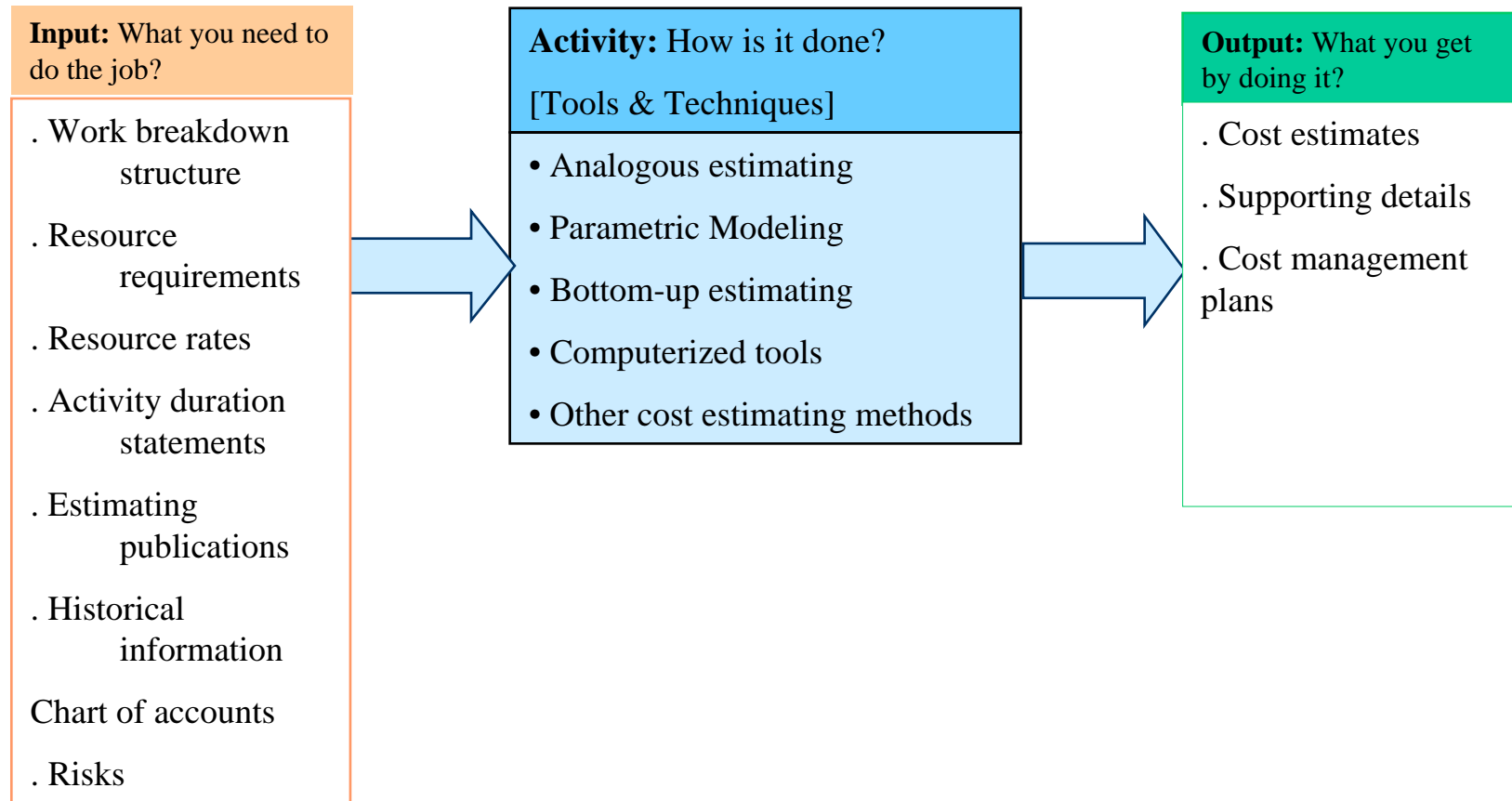
Project Cost Management

- Resource Planning



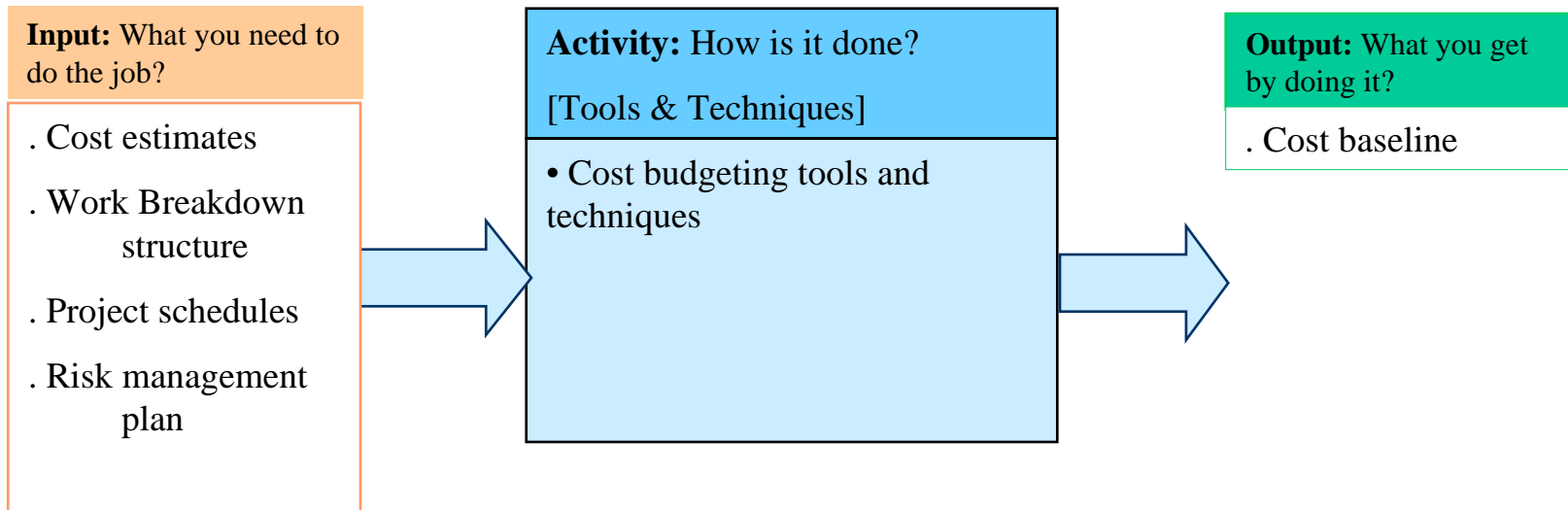
Project Cost Management

- Cost Estimating



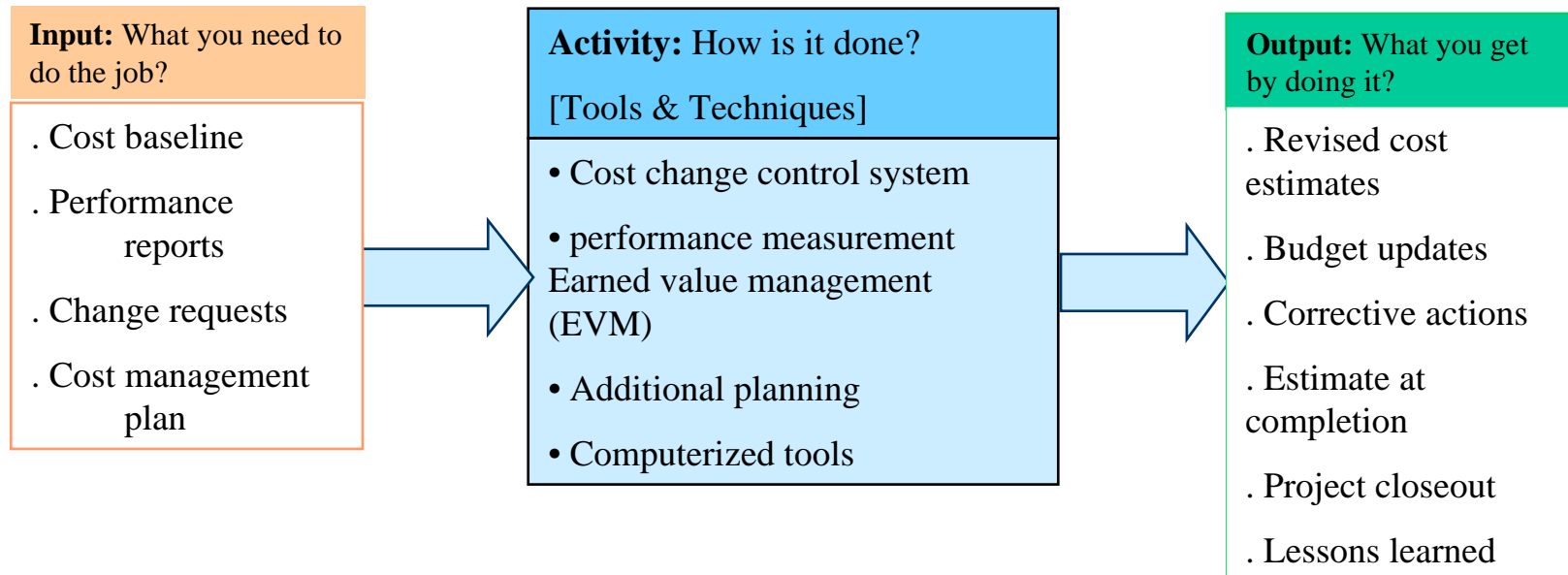
Project Cost Management

- Cost Budgeting



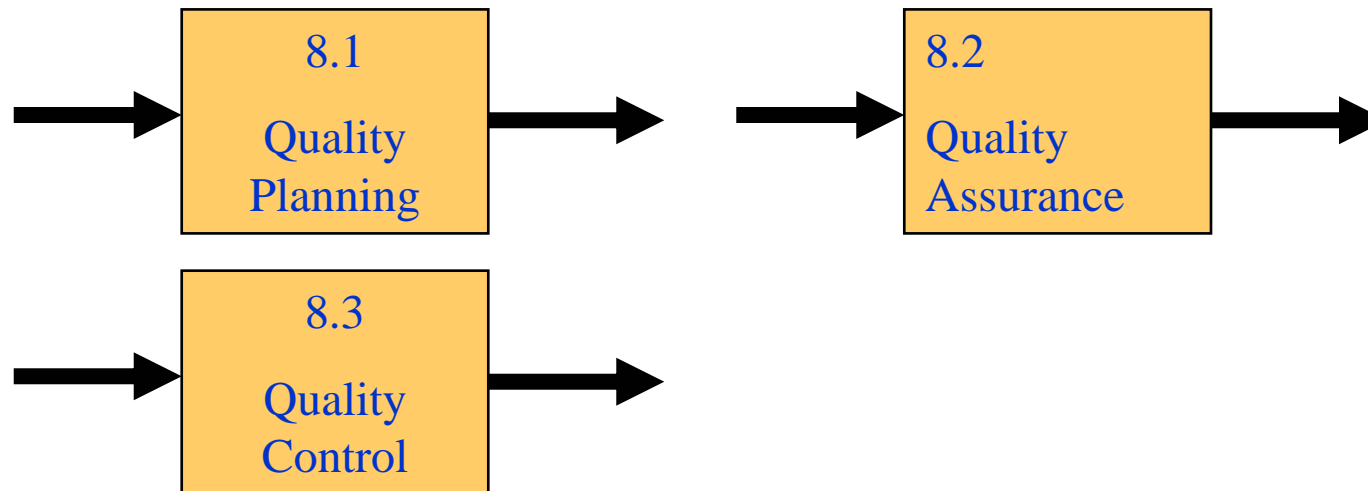
Project Cost Management

- Cost Control



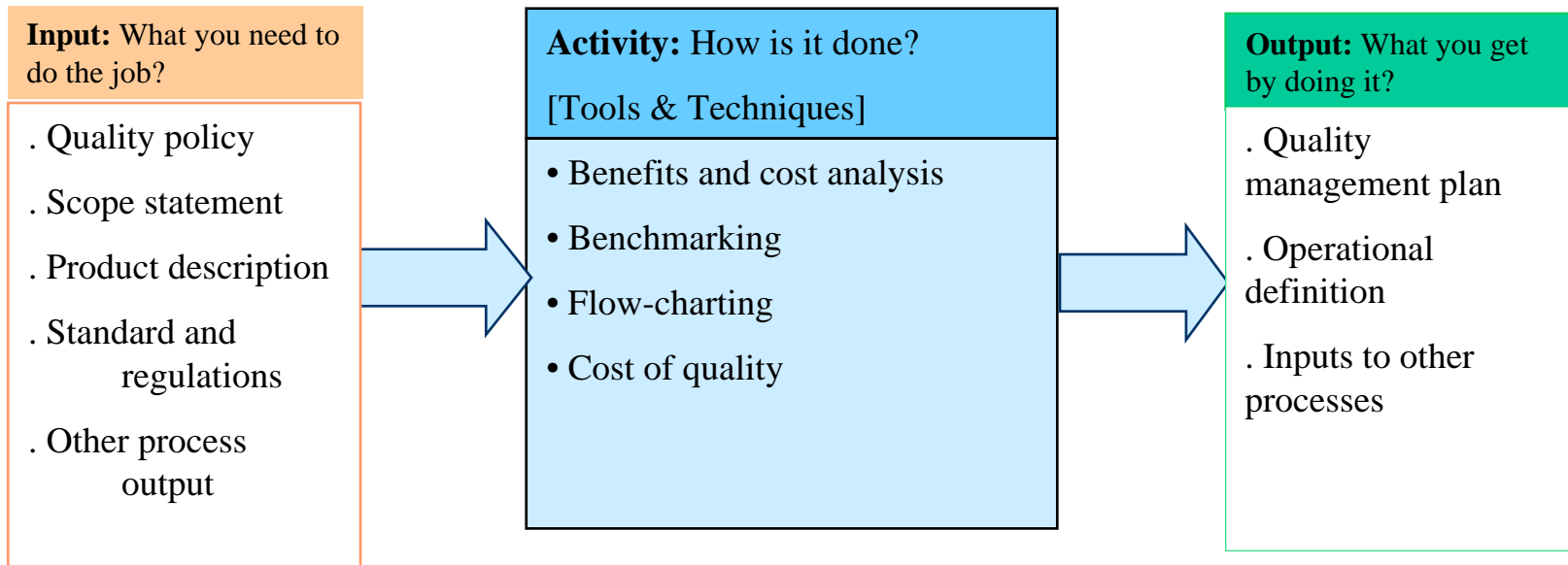
Project Quality Management

Includes processes required to ensure that the project will satisfy the needs for which it was undertaken.



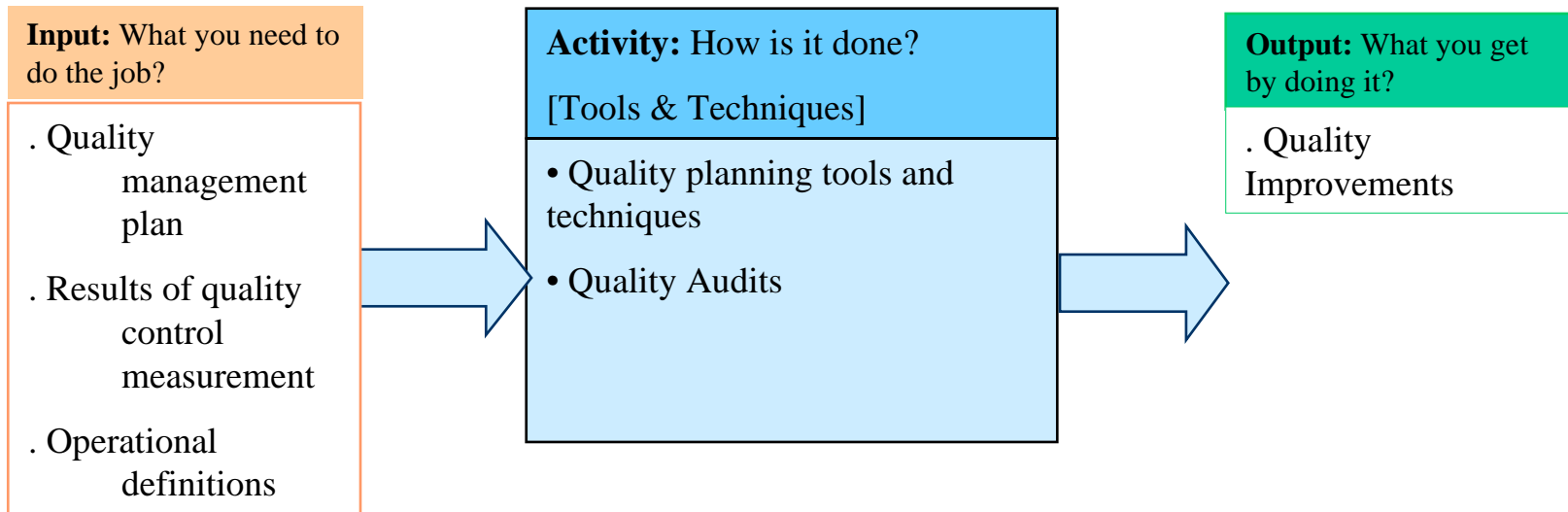
Project Quality Management

- Quality Planning



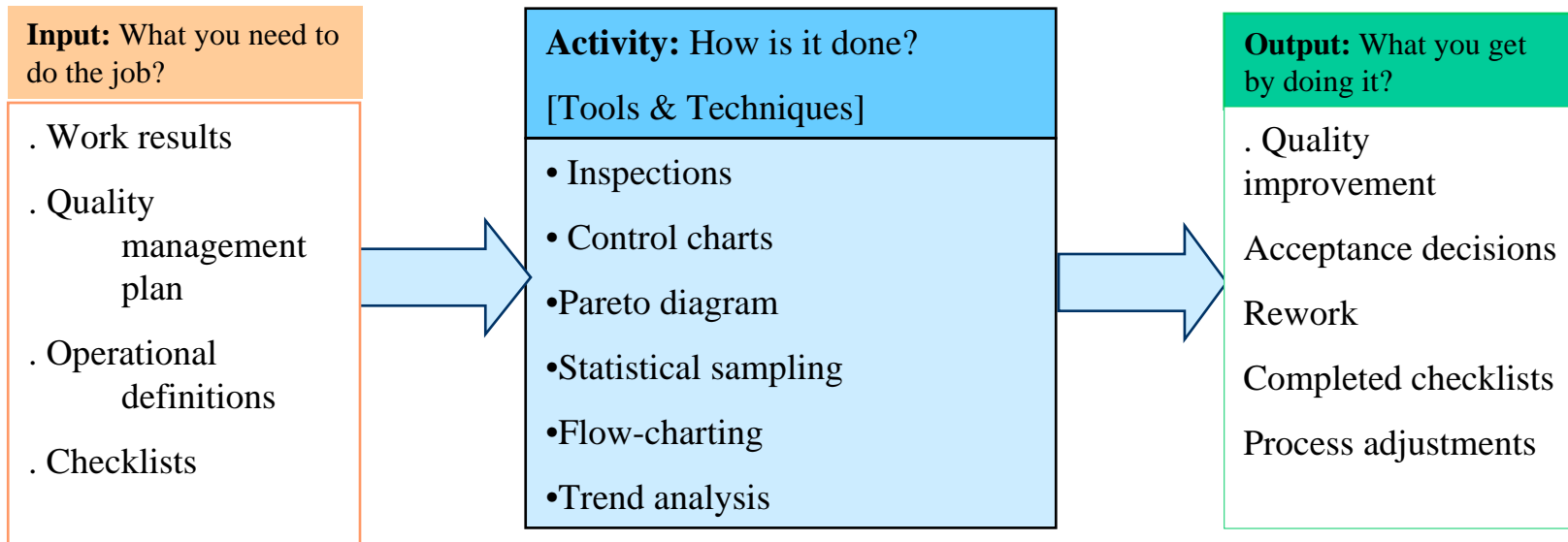
Project Quality Management

- Quality Assurance



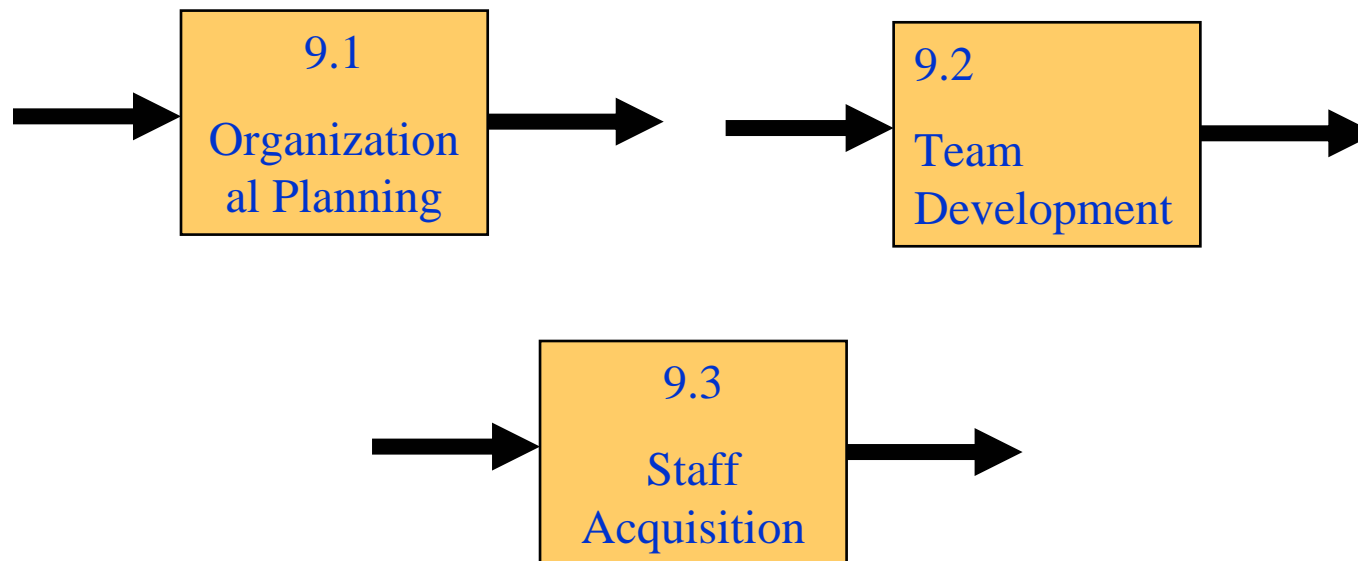
Project Quality Management

- Quality Control



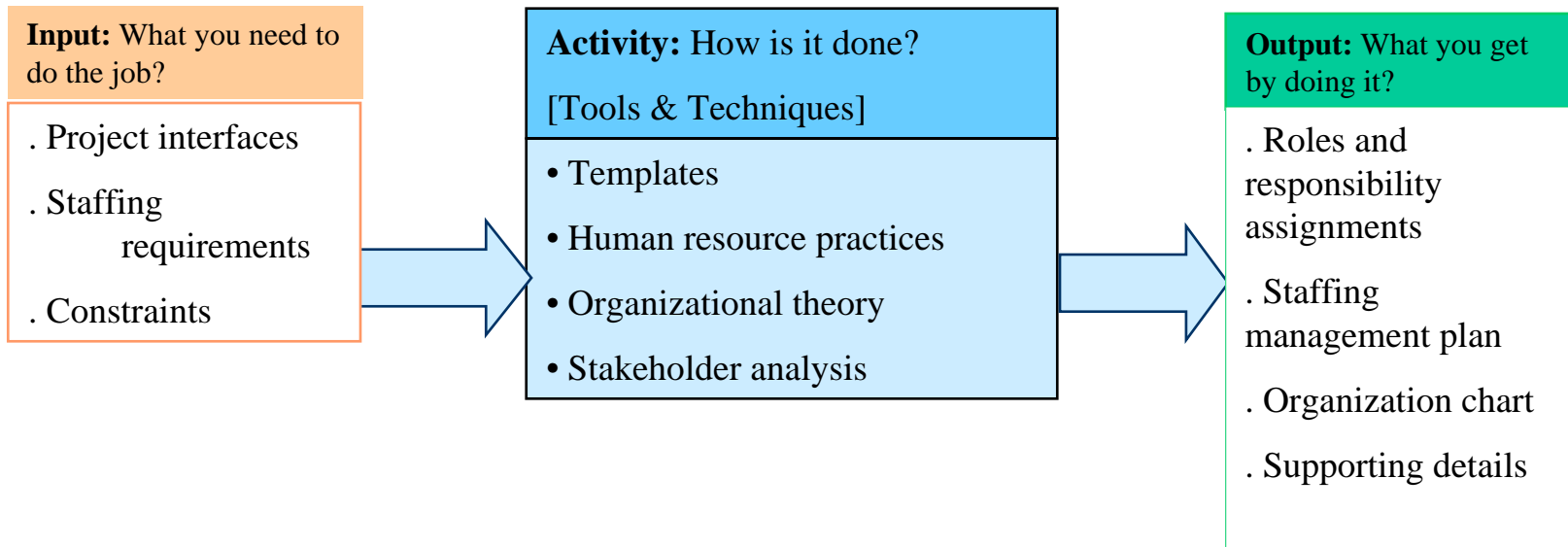
Project Human Resource Management

Includes processes required to make the most effective use of the people involved in the project.



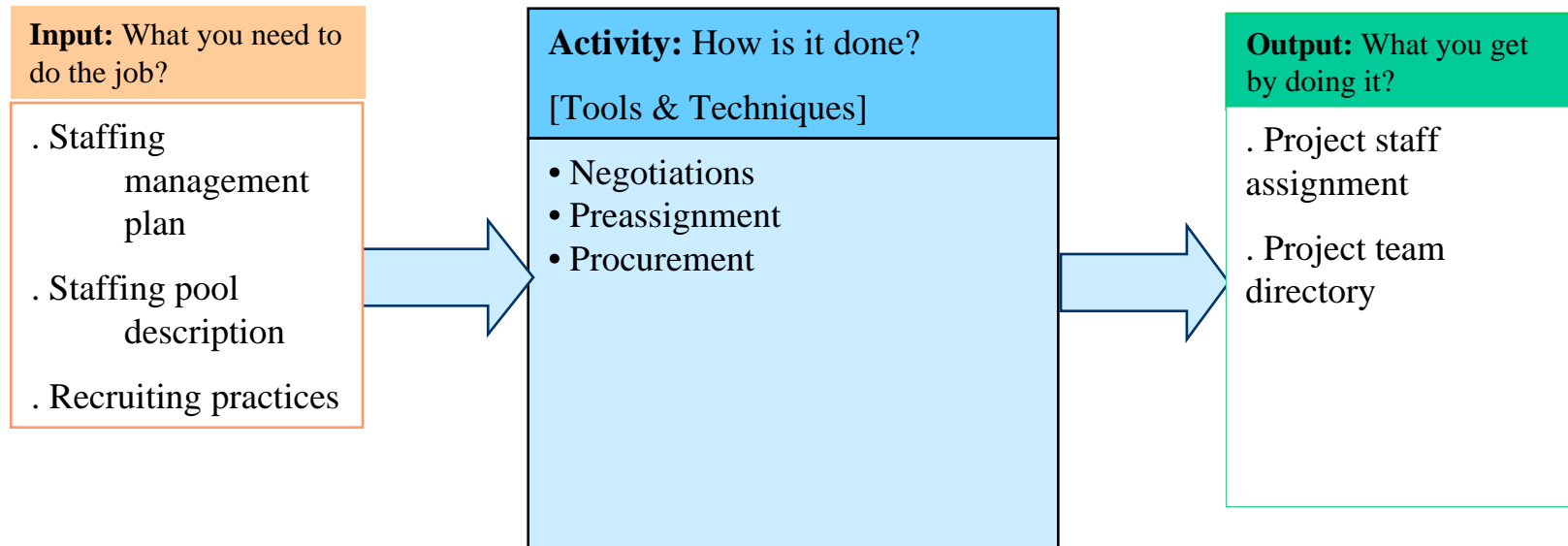
Project Human Resource Management

- Organizational Planning



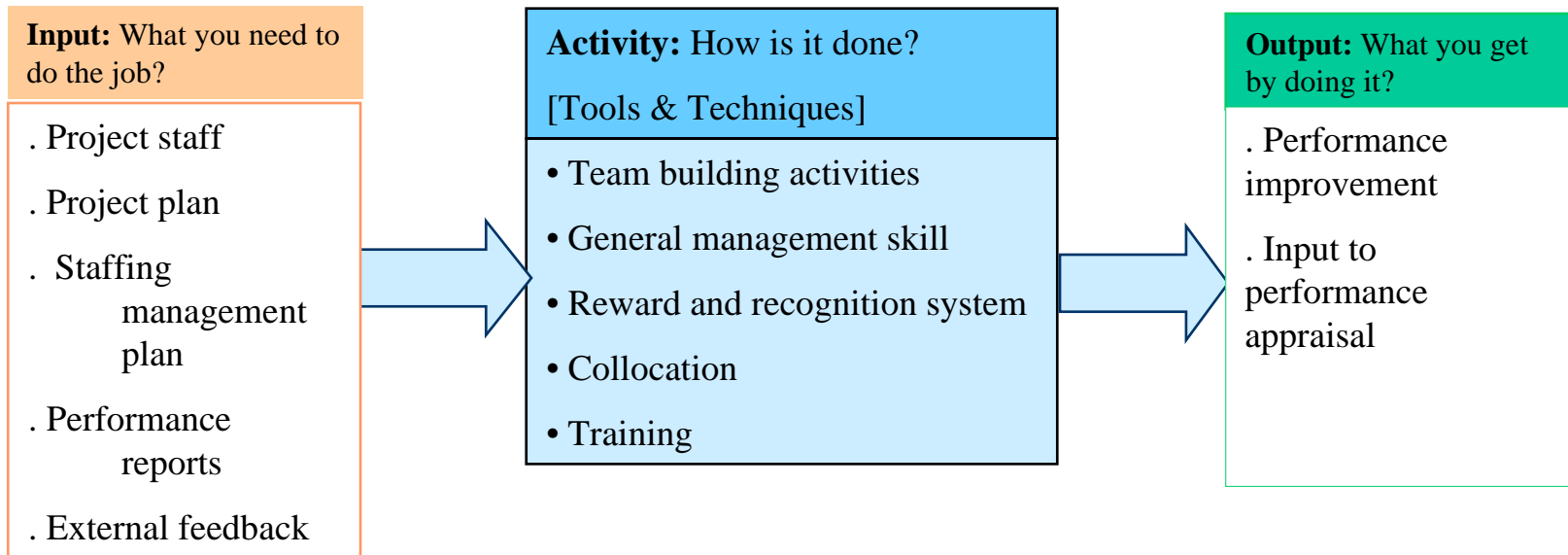
Project Human Resource Management

- Staff Acquisition



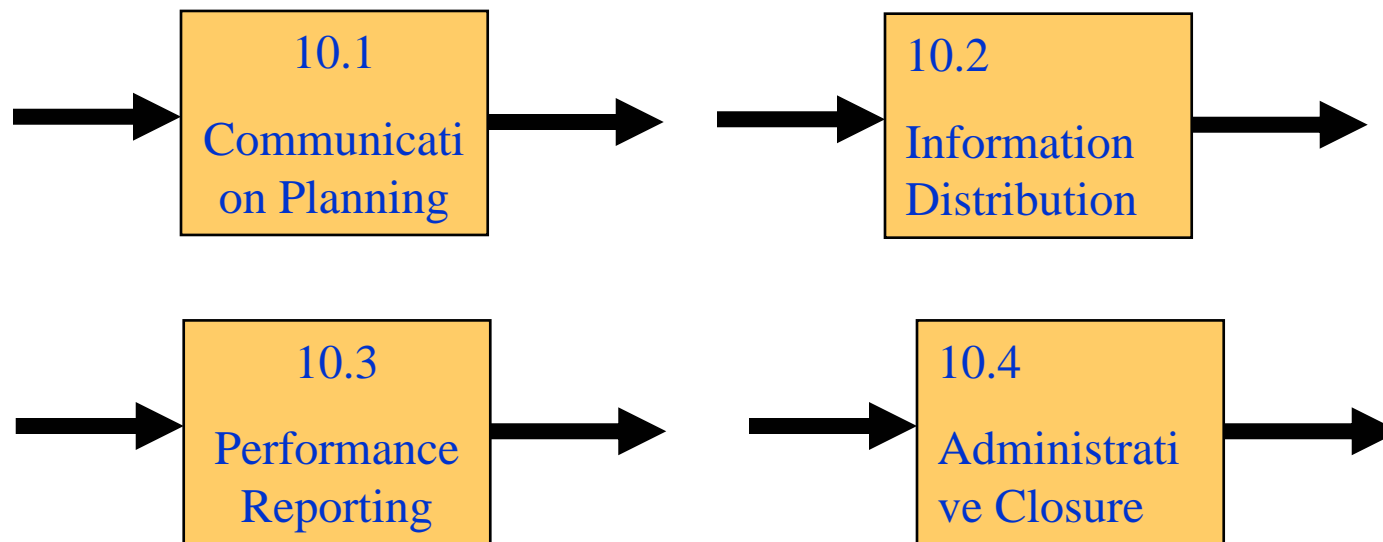
Project Human Resource Management

- Team Development



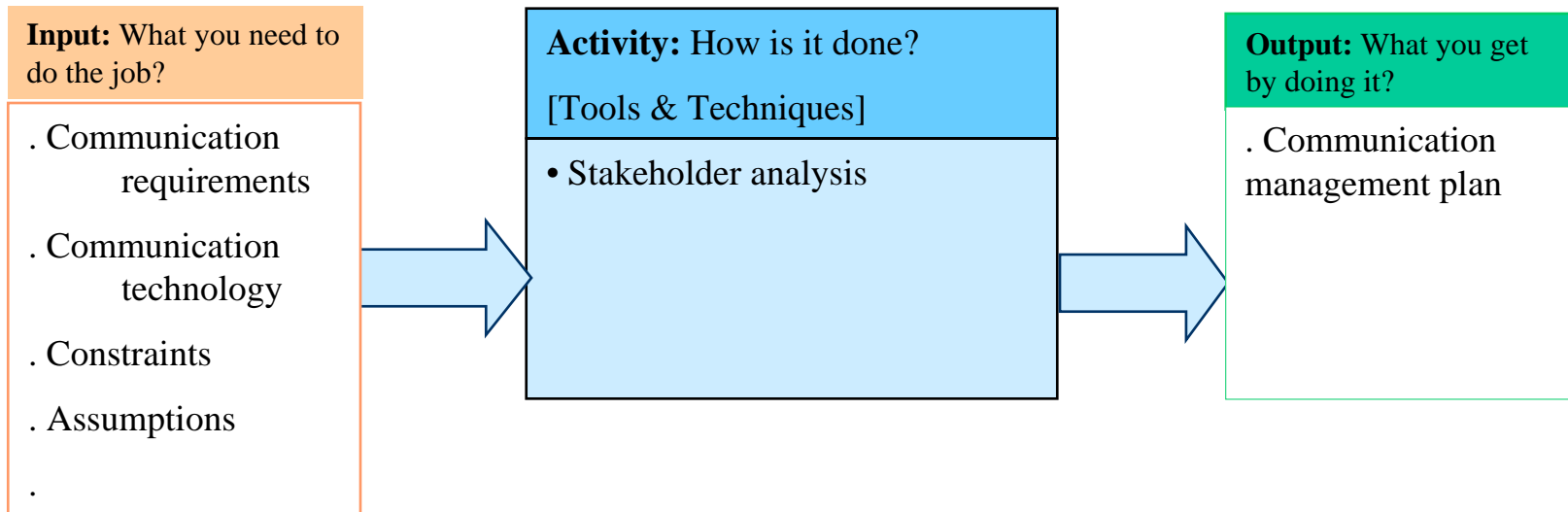
Project Communication Management

Includes processes required to ensure timely and appropriate generation, collection, dissemination, storage, and ultimate disposition of project information.



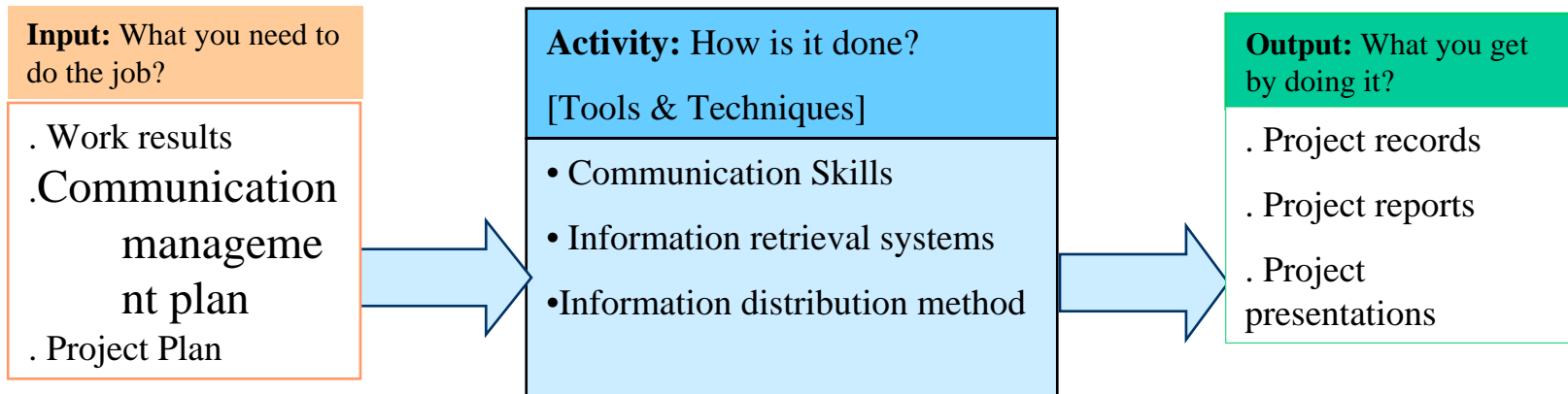
Project Communication Management

- Communication Planning



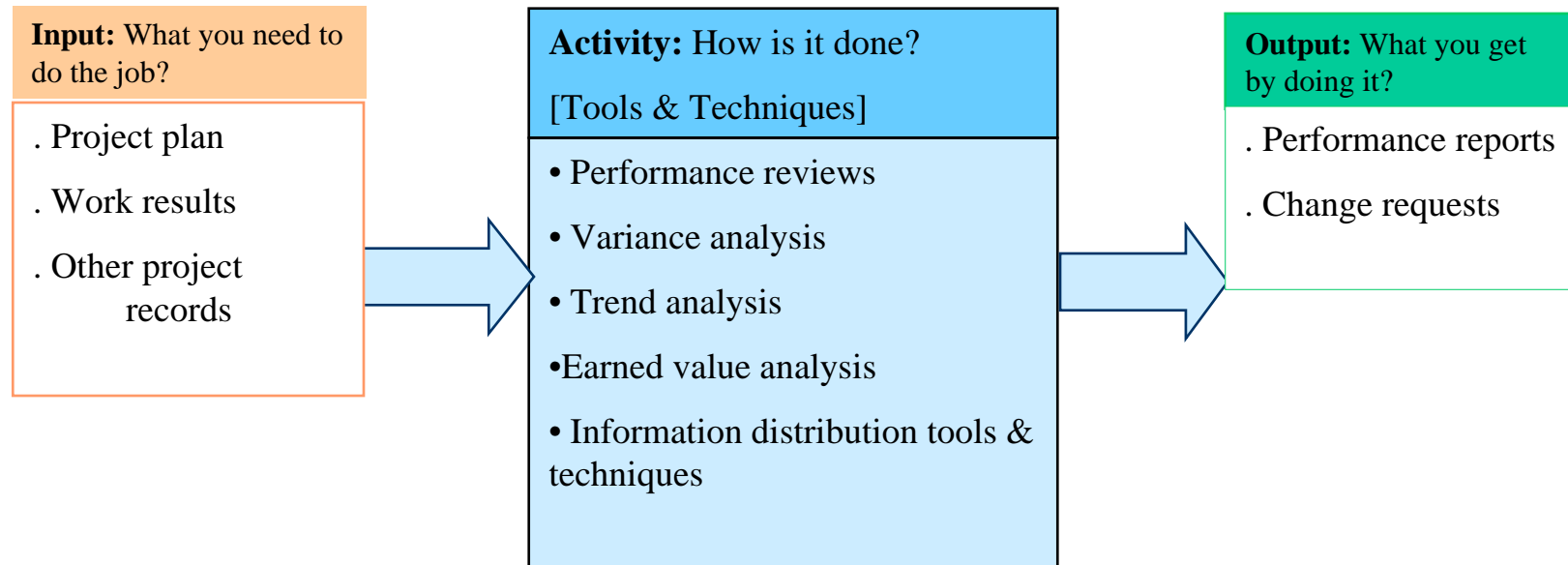
Project Communication Management

- Information Distribution



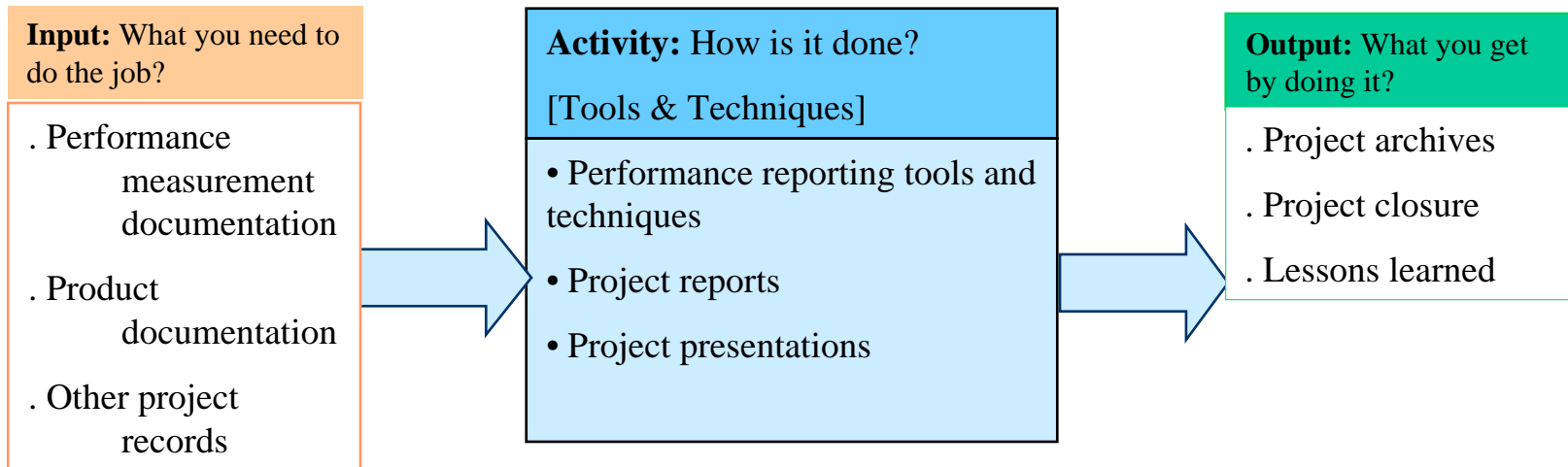
Project Communication Management

- Performance Reporting



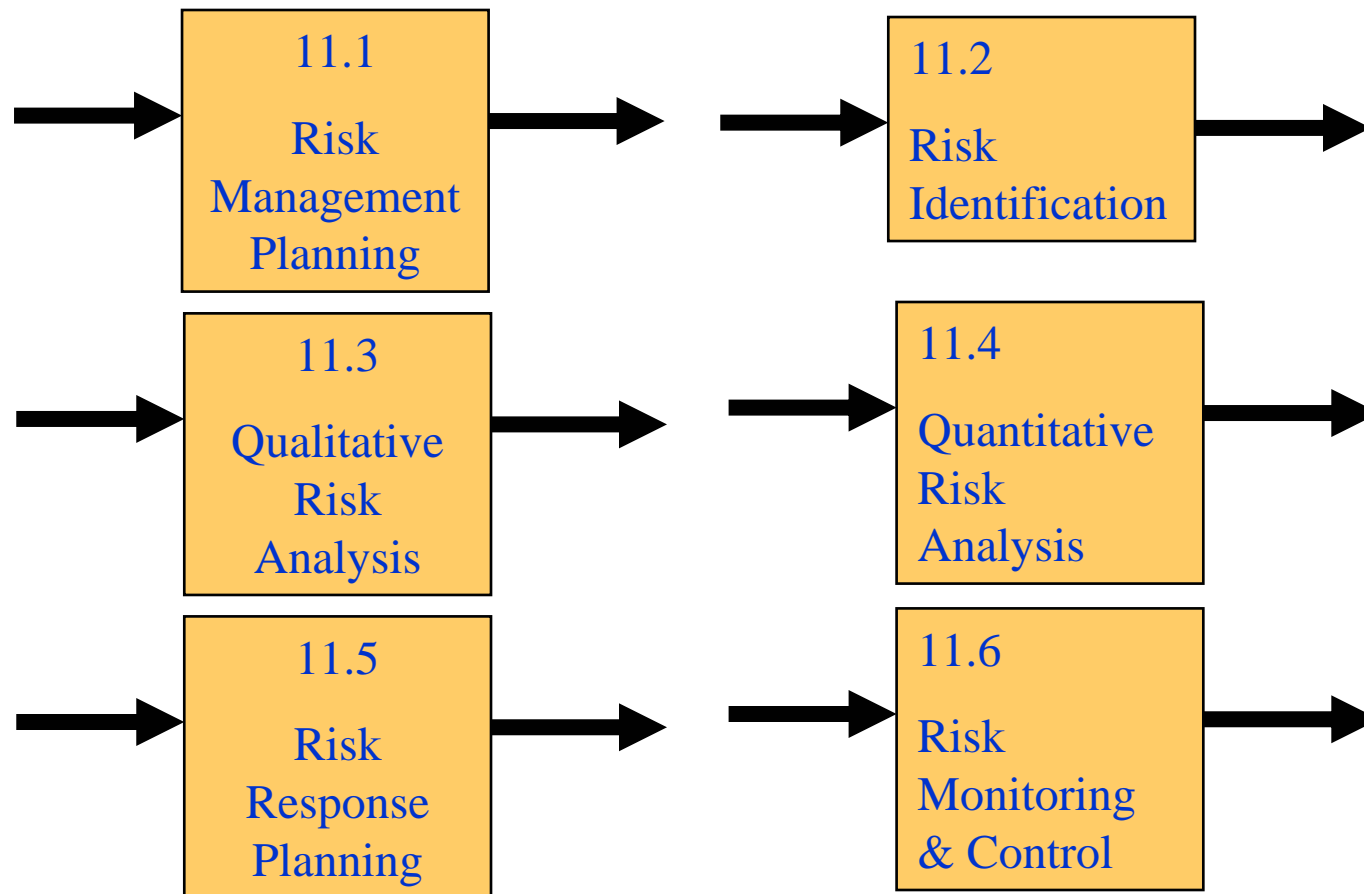
Project Communication Management

- Administrative Closure



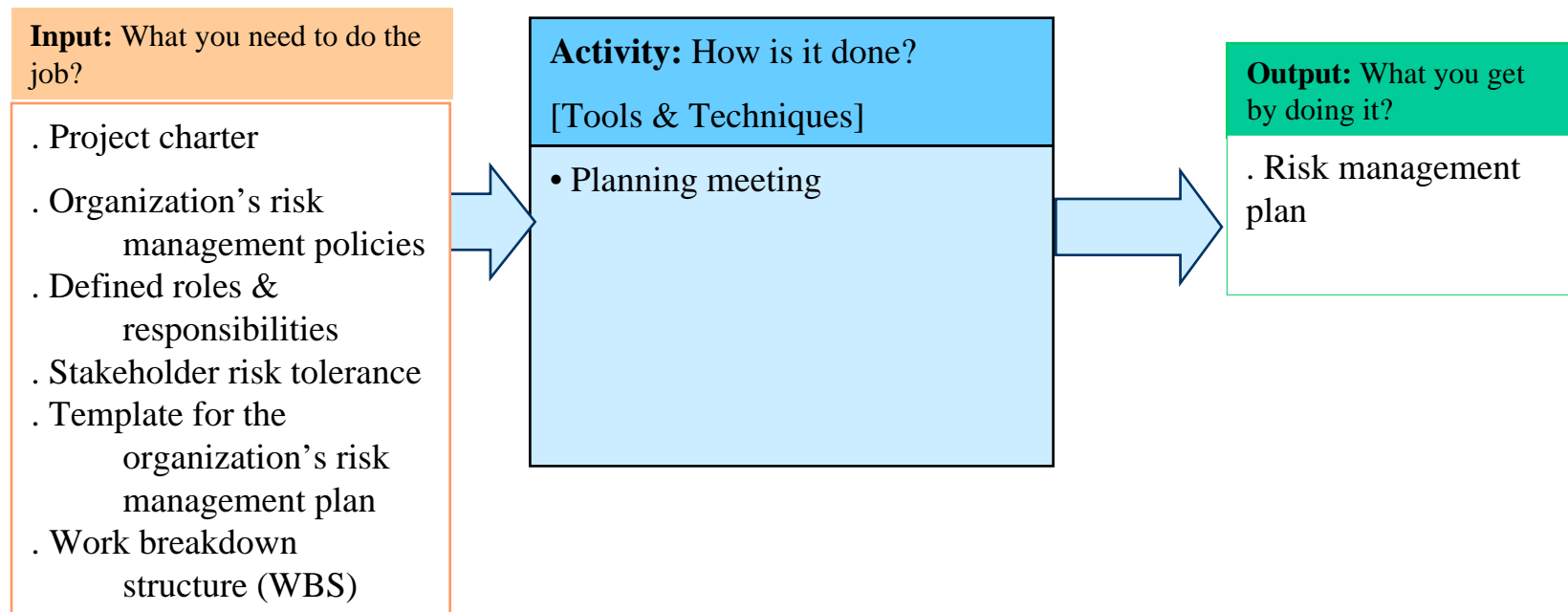
Project Risk Management

It is the systematic process of identifying, analyzing and responding to project risks.



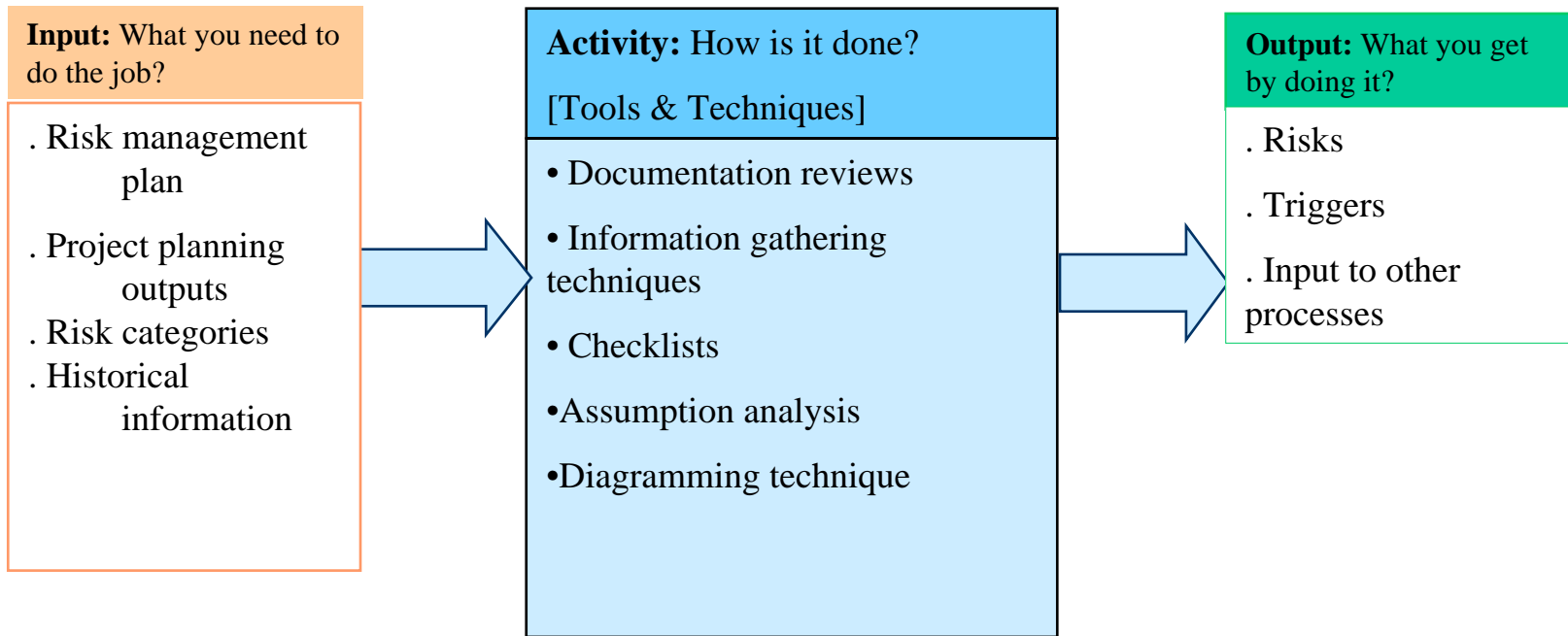
Project Risk Management

- Risk Management Planning



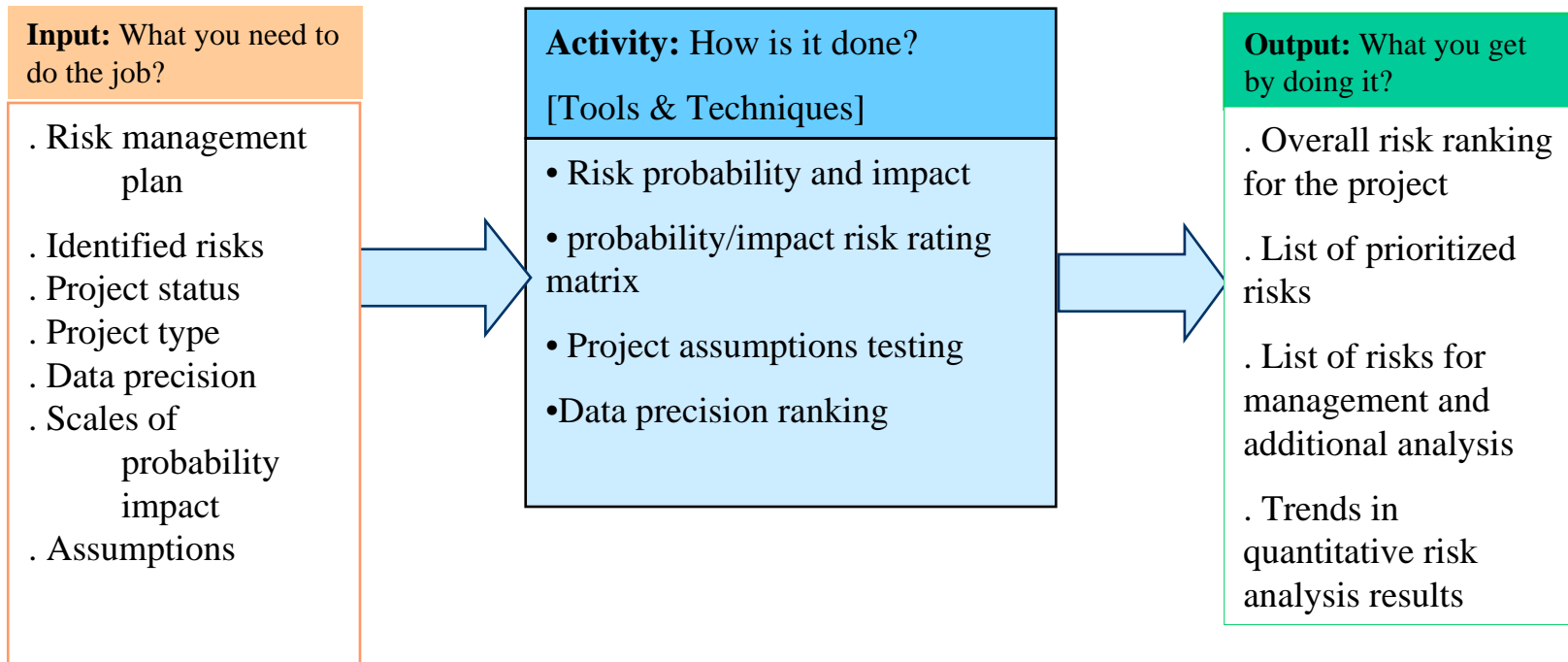
Project Risk Management

- Risk Identification



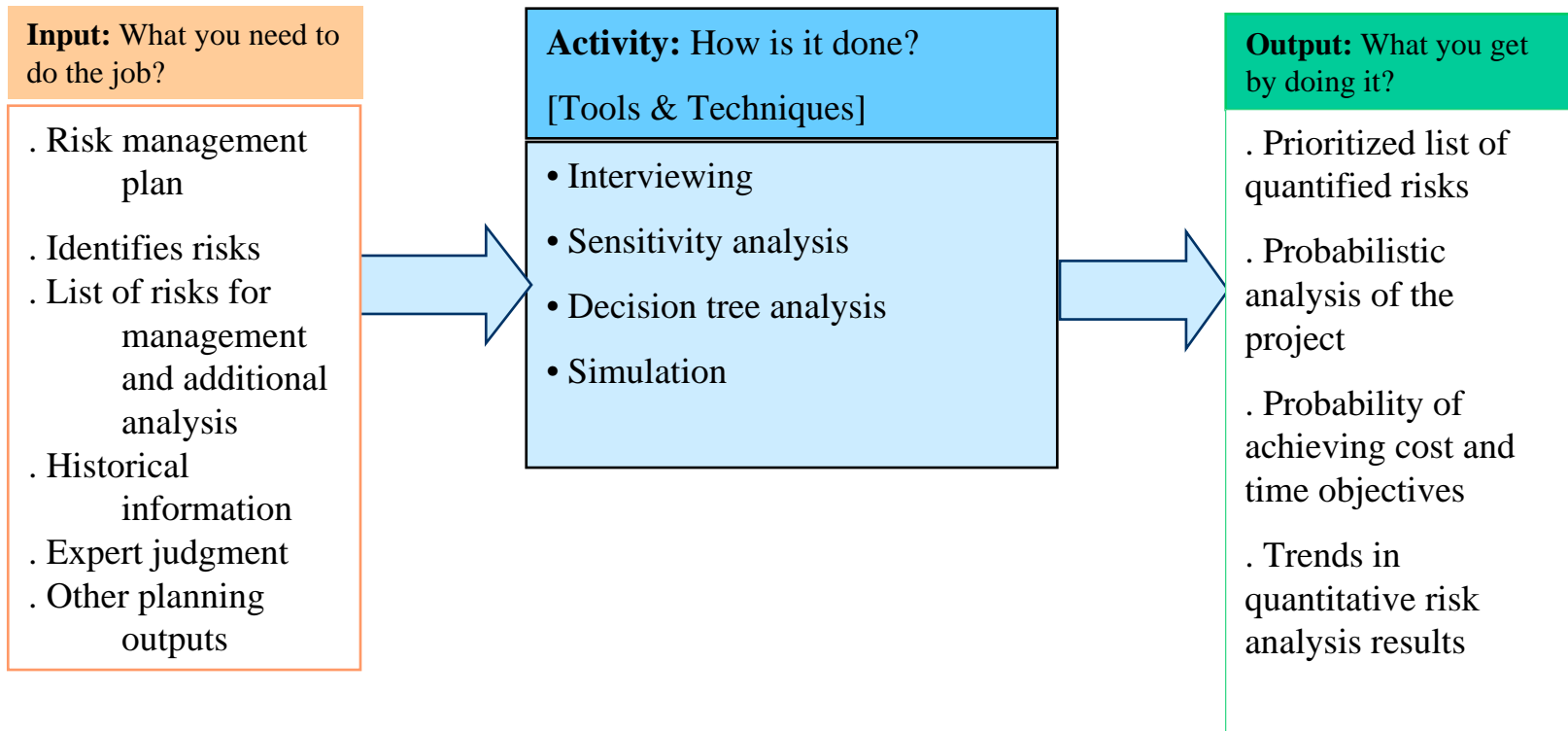
Project Risk Management

- Quantitative Risk Analysis



Project Risk Management

- Quantitative Risk Analysis



Project Risk Management

- Risk Response Planning

Input: What you need to do the job?

- . Risk management plan
- . List of prioritized risks
- . Risk ranking of the project
- . Prioritized list of quantified risks
- . Probabilistic analysis of the project
- . Probability of achieving cost and time objectives
- . List of potential responses
- . Risk thresholds
- . Risk owners
- . Common risk causes
- . Trends in qualitative and quantitative risk analysis results

Activity: How is it done?

[Tools & Techniques]

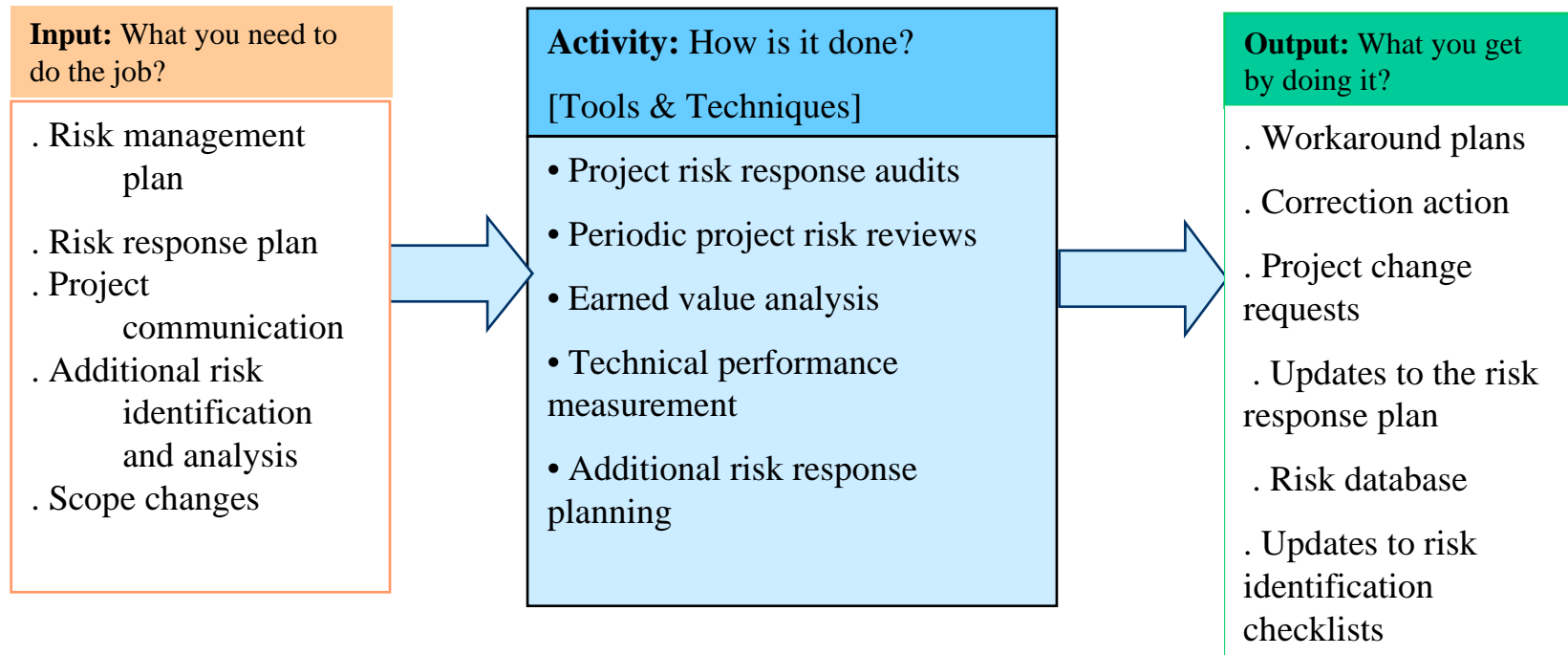
- Avoidance
- Transference
- Mitigation
- Acceptance

Output: What you get by doing it?

- . Risk response plan
- . Residual risk
- . Secondary risk
- . Contractual agreement
- . Contingency reserve amount needed
- . Input to other processes
- . Input to a revised project plan

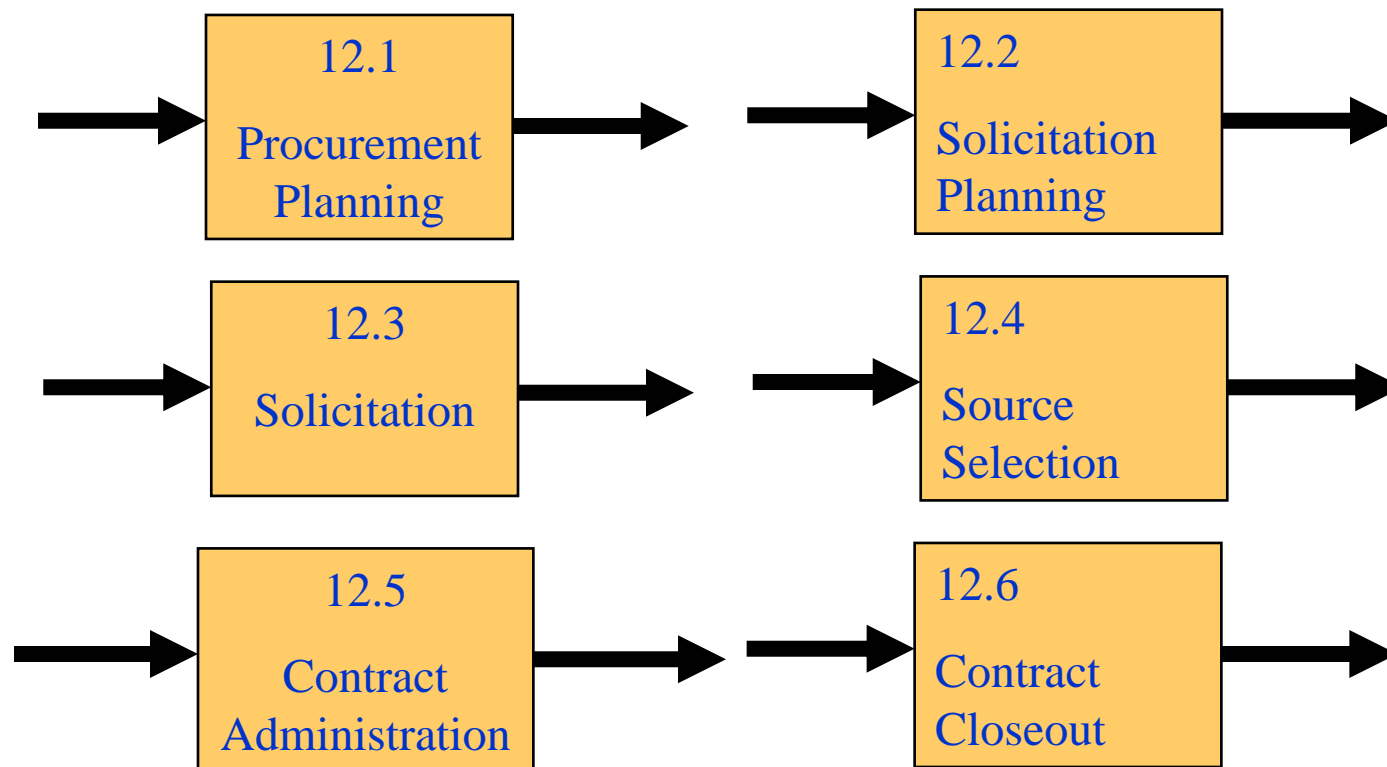
Project Risk Management

- Risk Monitoring and Control



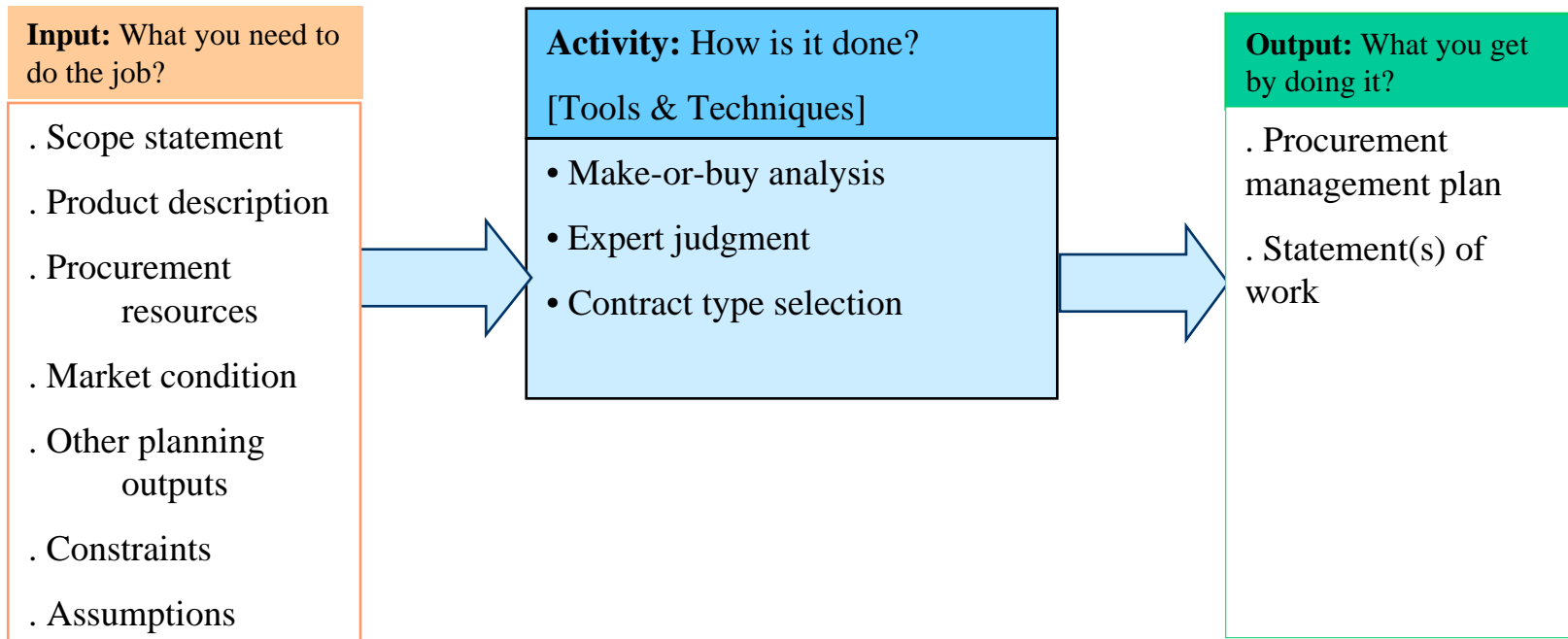
Project Procurement Management

It includes the processes required to acquire goods and services, to attain project scope, from outside the performing organization.



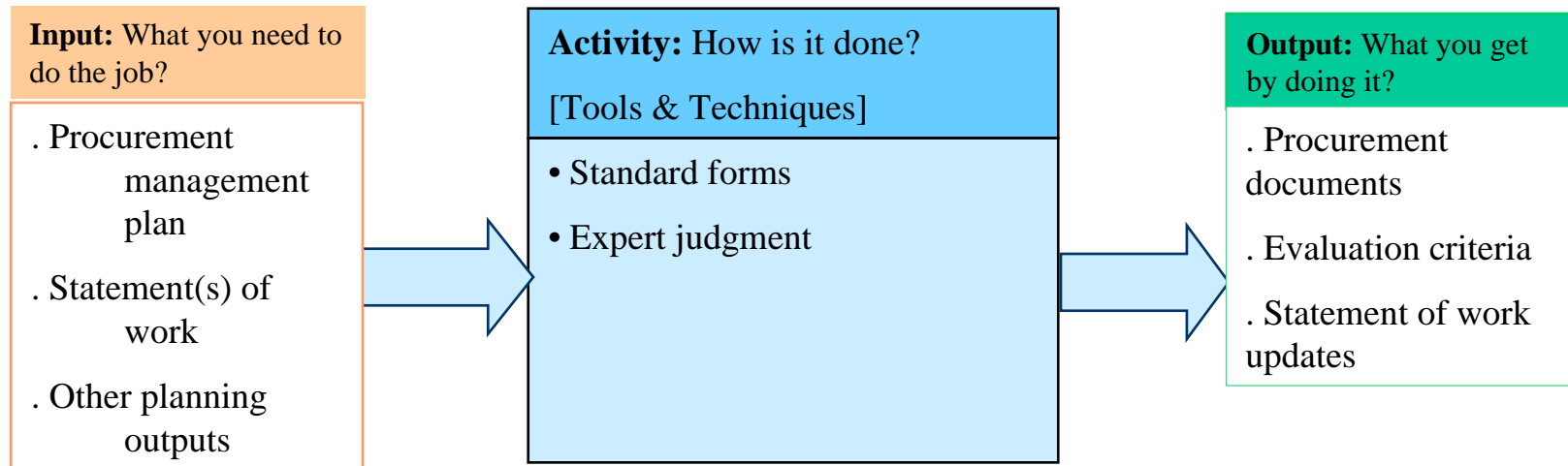
Project Procurement Management

- Procurement Planning



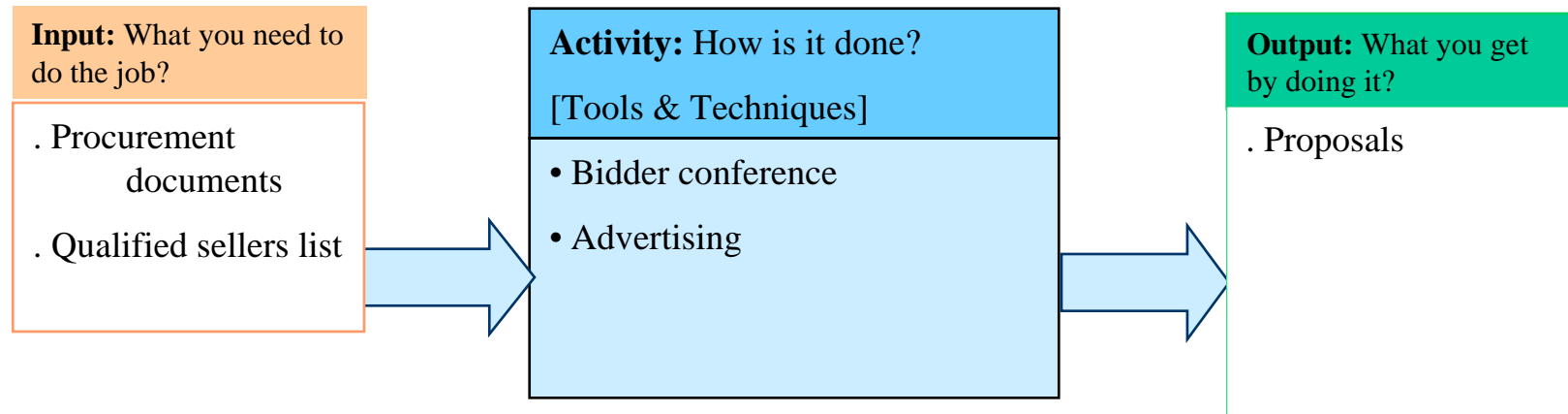
Project Procurement Management

- Solicitation Planning



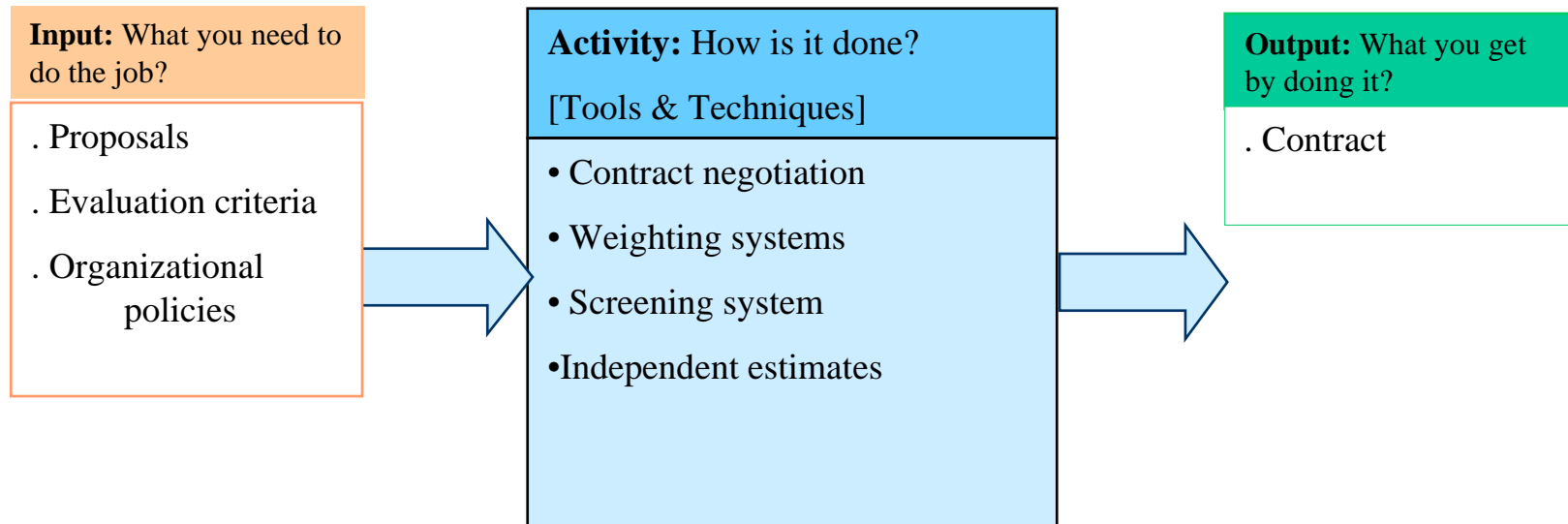
Project Procurement Management

- Solicitation



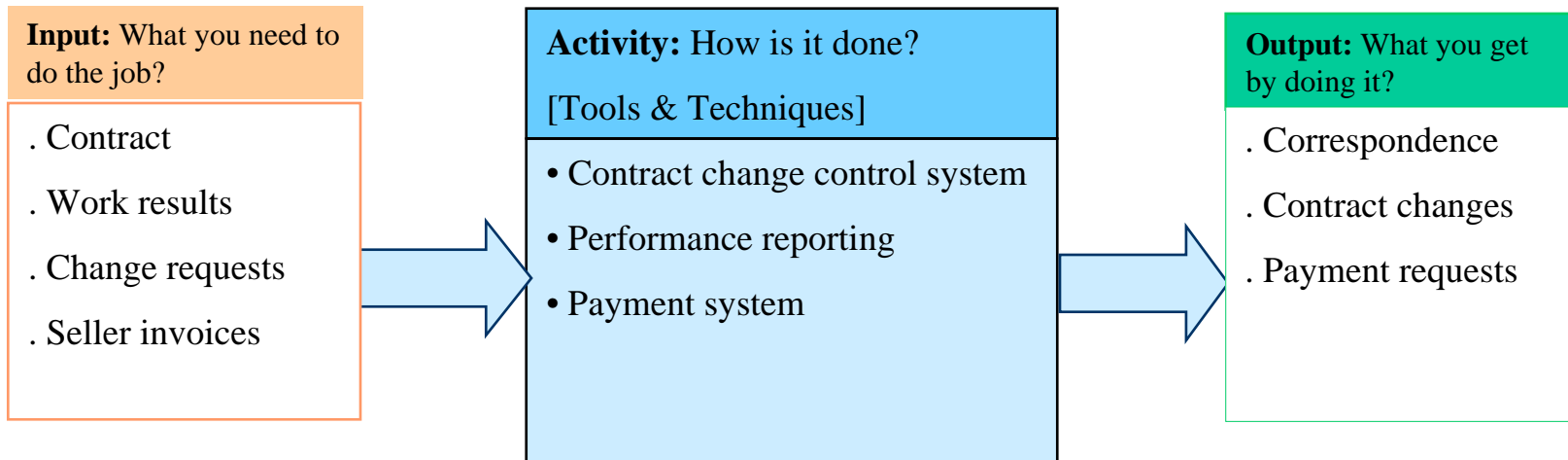
Project Procurement Management

- Source Selection



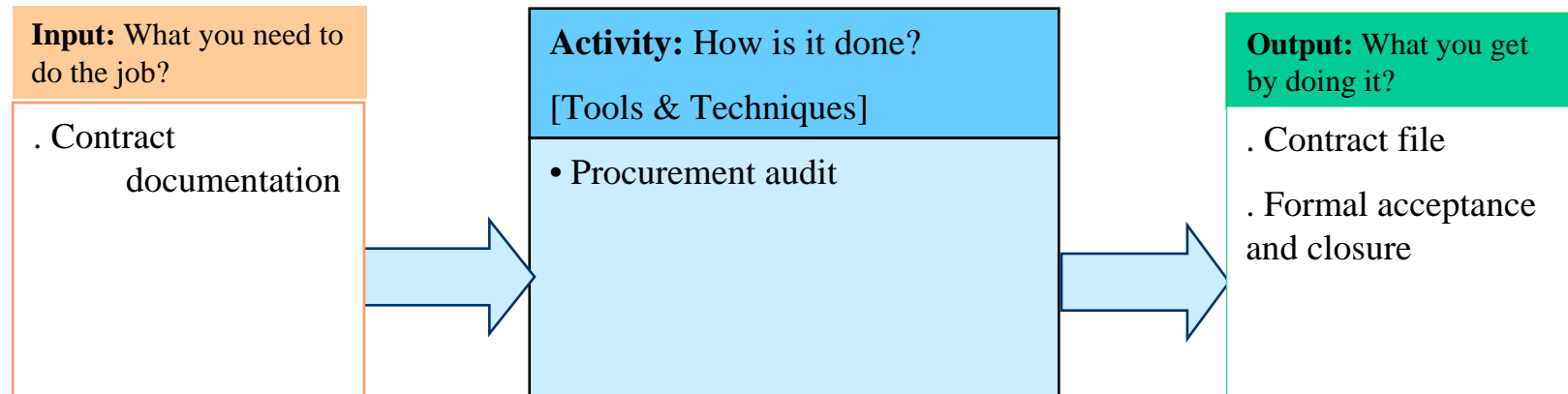
Project Procurement Management

- Contract Administration



Project Procurement Management

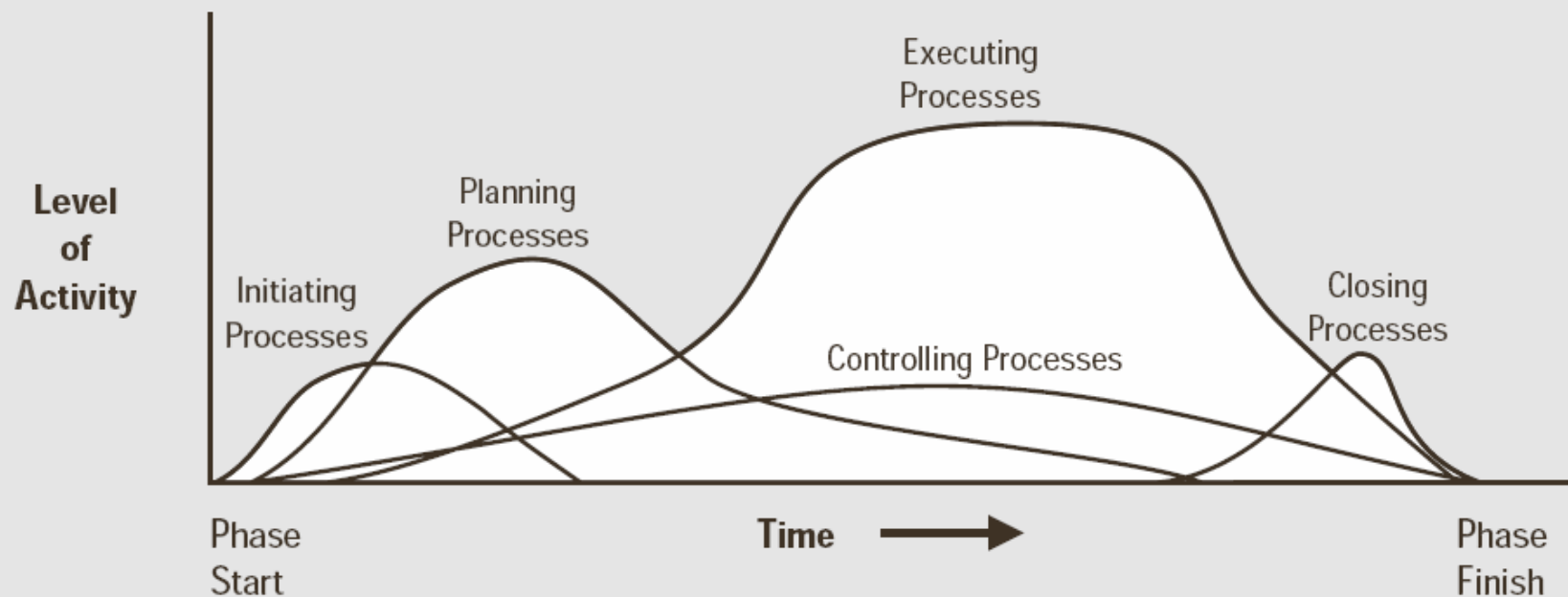
- Contract Closeout



Project Management Process Groups

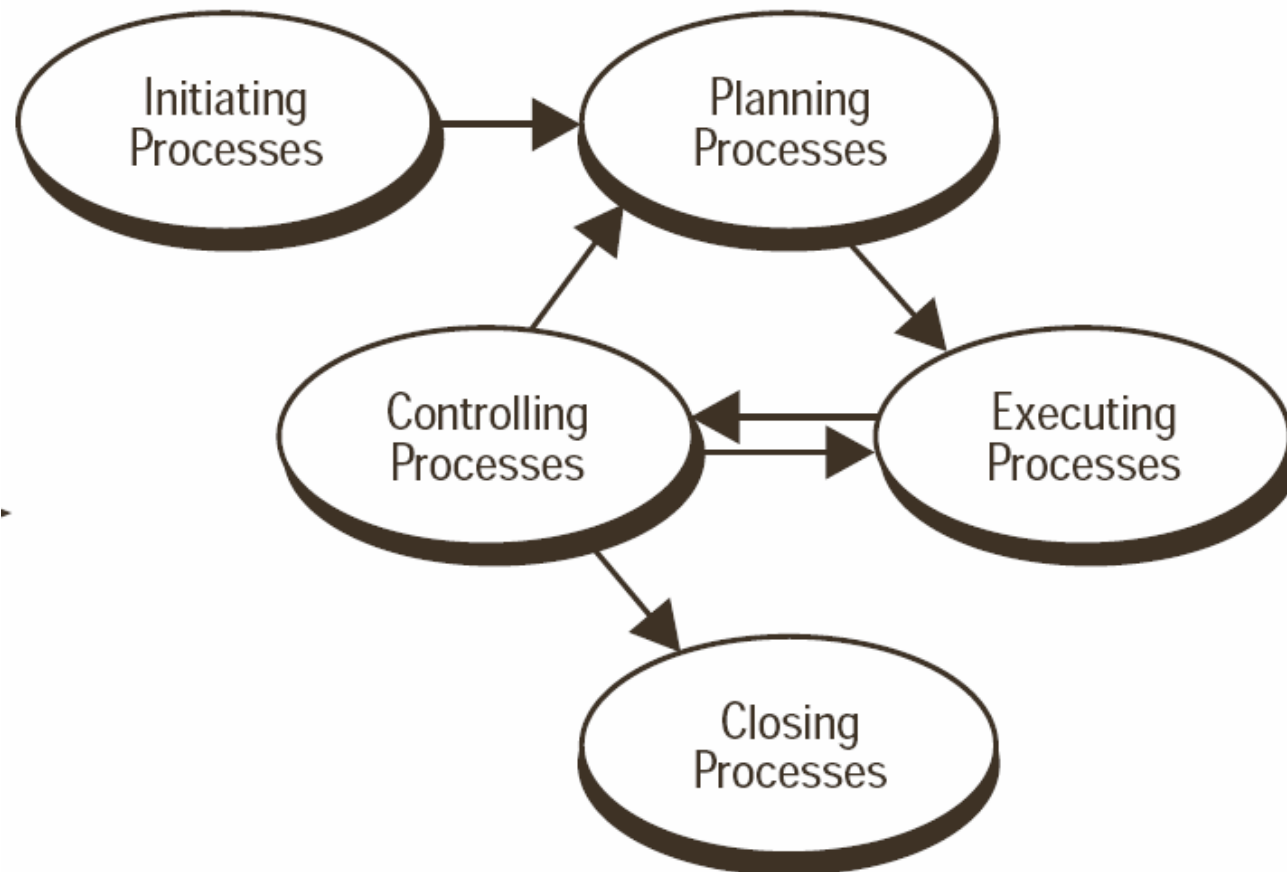
- Phases

Figure 3-2. Overlap of Process Groups in a Phase



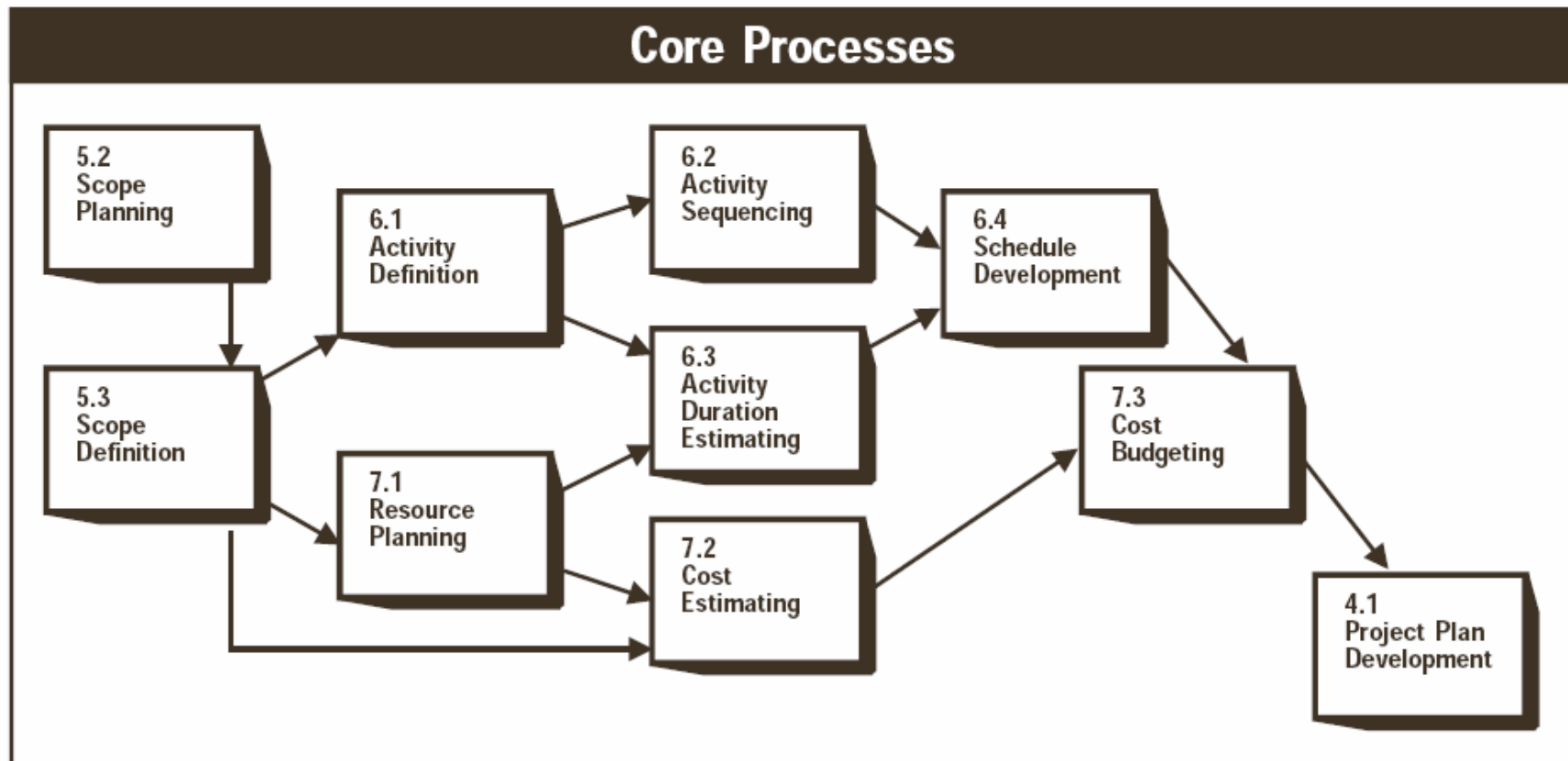
Process Groups

- Links Among Groups



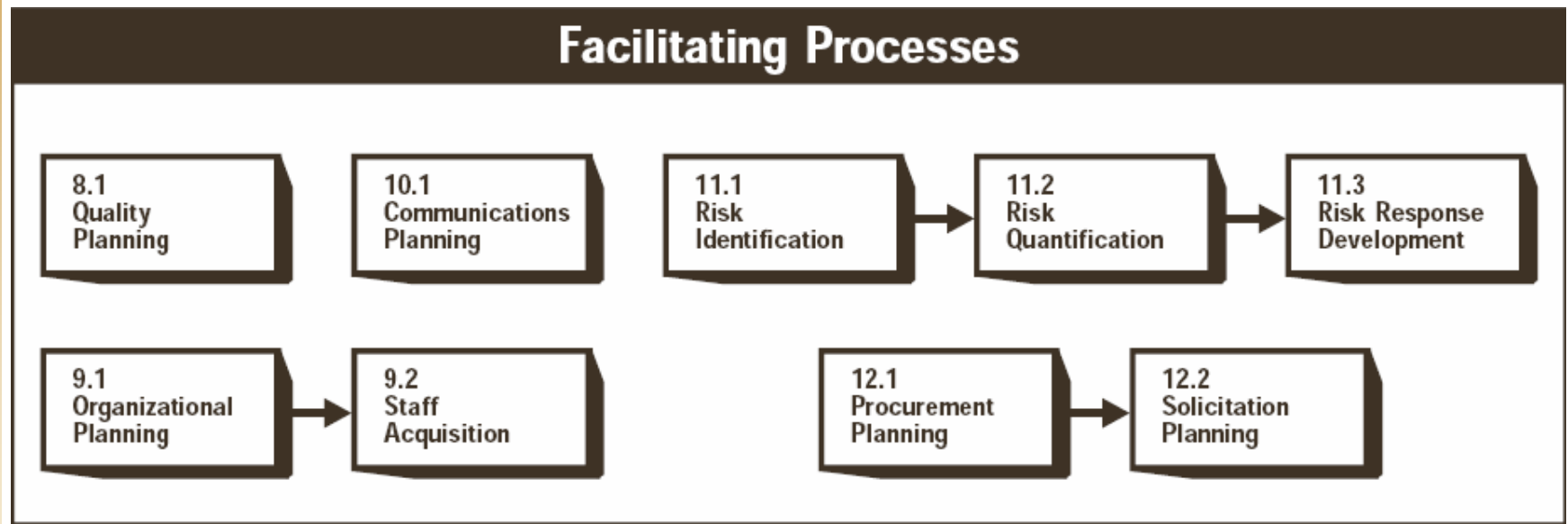
Planning Processes

Planning Processes



Planning Processes

- Facilitating Processes



Mapping of Management Processes to the Process Groups and Knowledge Areas

Process Groups =>	INITIATING	PLANNING	EXECUTING	CONTROLLING	CLOSING
Knowledge Areas					
4. Integration Management		4.1 Plan Development	4.2 Plan execution	4.3 Integrated Change Control	
5. Scope Management	5.1 Initiation	5.2 Scope Planning 5.3 Scope Definition		5.4 Scope Verification 5.5 Scope Change Control	
6. Time Management		6.1 Activity Definition 6.2 Activity Sequencing 6.3 Activity Duration Estimating 6.4 Schedule Development		6.5 Schedule Control	
7. Cost Management		7.1 Resource Planning 7.2 Cost Estimating 7.3 Cost Budgeting		7.4 Cost Control	
8. Quality Management		8.1 Quality Planning	8.2 Quality Assurance	8.3 Quality Control	
9. HR Management		9.1 Organizational Planning 9.3 Staff Acquisition	9.2 Team Development		

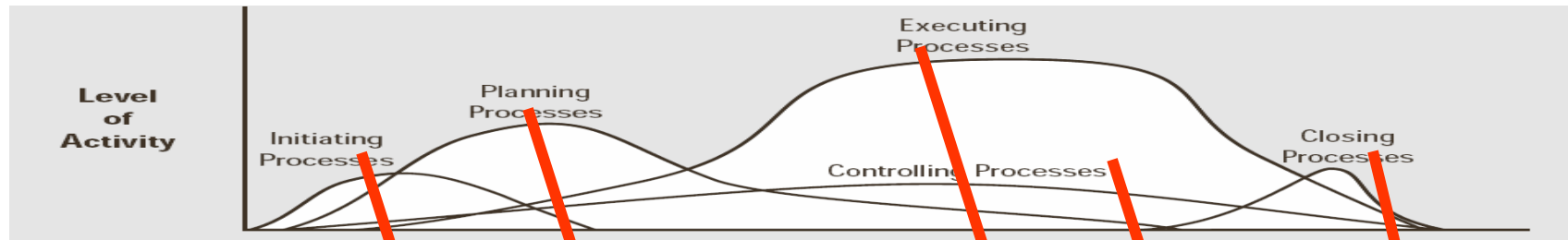
Continued

10. Communication Management		10.1 Communication Planning	10.2 Information Distribution	10.3 Performance Reporting	10.4 Administrative Closure
11. Risk Management		11.1 Risk Management Planning 11.2 Risk Identification 11.3 Qualitative Risk Analysis 11.4 Quantitative Risk Analysis 11.5 Risk Response Planning		11.6 Risk Monitoring & Control	
12. Procurement Management		12.1 Procurement Planning 12.2 Solicitation Planning	12.3 Solicitation 12.4 Source Selection 12.5 Contract Administration		12.6 Contract Closeout

You can download an older version of PMBOK (1996 Edition) and a set of presentation slides from Nutek site: http://Nutek-us.com/PMBOK_1996.pdf and http://Nutek-us.com/PMBOK_Slides.pdf

Ref. Page N/A

Project Management Process Group Activities



Project Management Processes Groups and Knowledge Areas (39 Activities)

Process Groups => Knowledge Areas	INITIATING	PLANNING	EXECUTING	CONTROLLING	CLOSING
4. Integration		4.1	4.2	4.3	
5. Scope	5.1	5.2 5.3		5.4 5.5	
6. Time		6.1 6.2 6.3 6.4		6.5	
7. Cost		7.1 7.2 7.3		7.4	
8. Quality		8.1	8.2	8.3	
9. HR		9.1 9.3	9.2		
10. Communication		10.1	10.2	10.3	10.4
11. Risk		11.1 11.2 11.3 11.4 11.5		11.6	
12. Procurement		12.1 12.2	12.3 12.4 12.5		12.6

End of another Good Learning Day

Ref. Page N/A

