

*PMP project management methodology
applied in ITRI*



**Industry Technology Institute Research
Laser Application Technology Center
Flexible Electronics Equipment Dept.**

**Wing, PMP
2008/12/29**

About Wing



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- MSN: mejordan815@hotmail.com
- Present Job: Mechatronics Engineer, ITRI.
- Educational: Mechanical Engineering MASTER ,NTUST



Agenda



- *Introduction*
- *The Fundamental of Project Management*
- *PMP project management methodology
applied in ITRI*
- *Conclusion*





Introduction

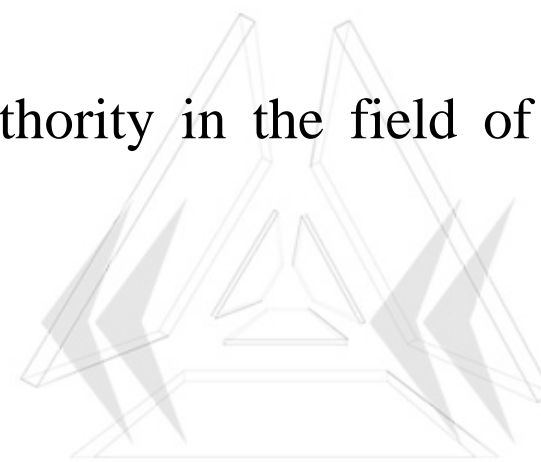


What is the PMP



Project Management Professional(PMP)

1. **PMI** (Project Management Institute) is the global project management authoritative organization.
2. **PMBOK** (Project Management Body of Knowledge) is the PMI's Project Management Methodology.
3. **PMP** certification exam has become the authority in the field of project management certification.



The reason to study PMP



- **The trend of systematical project management**

- The Beijing 2008 Olympic Games / The World Games 2009 Kaohsiung.
- Taiwan will become the research and development innovation base after China become the world's factory.

- **To be a project team leader at department.**

- **To facilitate project quality in ITRI**



The Butterfly Effect of PMP

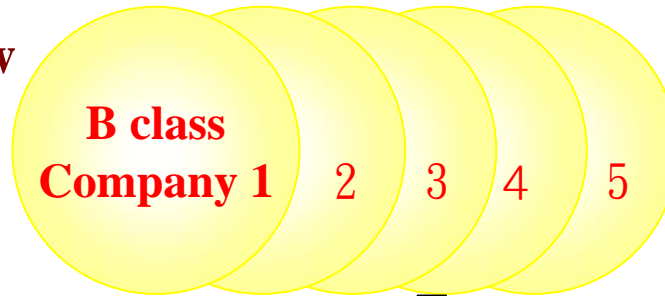


Foresight

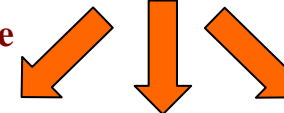
TSMC
China Steel
ASE



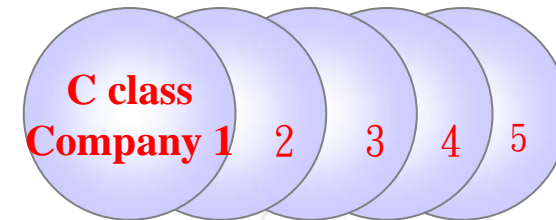
Follow



Influence



To wait and see



Demand

Demand

Downstream Store

Factory

Outsourcing

Influence

Influence

Downstream

Downstream

Downstream

Downstream

Downstream

Downstream

Downstream

Downstream

Downstream



The Fundamental of Project Management



What is the Project?



Project Characteristics :

1. Temporary

- Has a definite beginning and a definite end.

2. Unique Products, Services, or Results

3. Progressive Elaboration

- It means developing in steps, and continuing by increments .



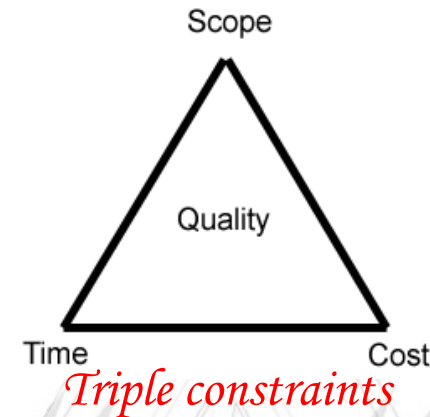
What is Project Management?



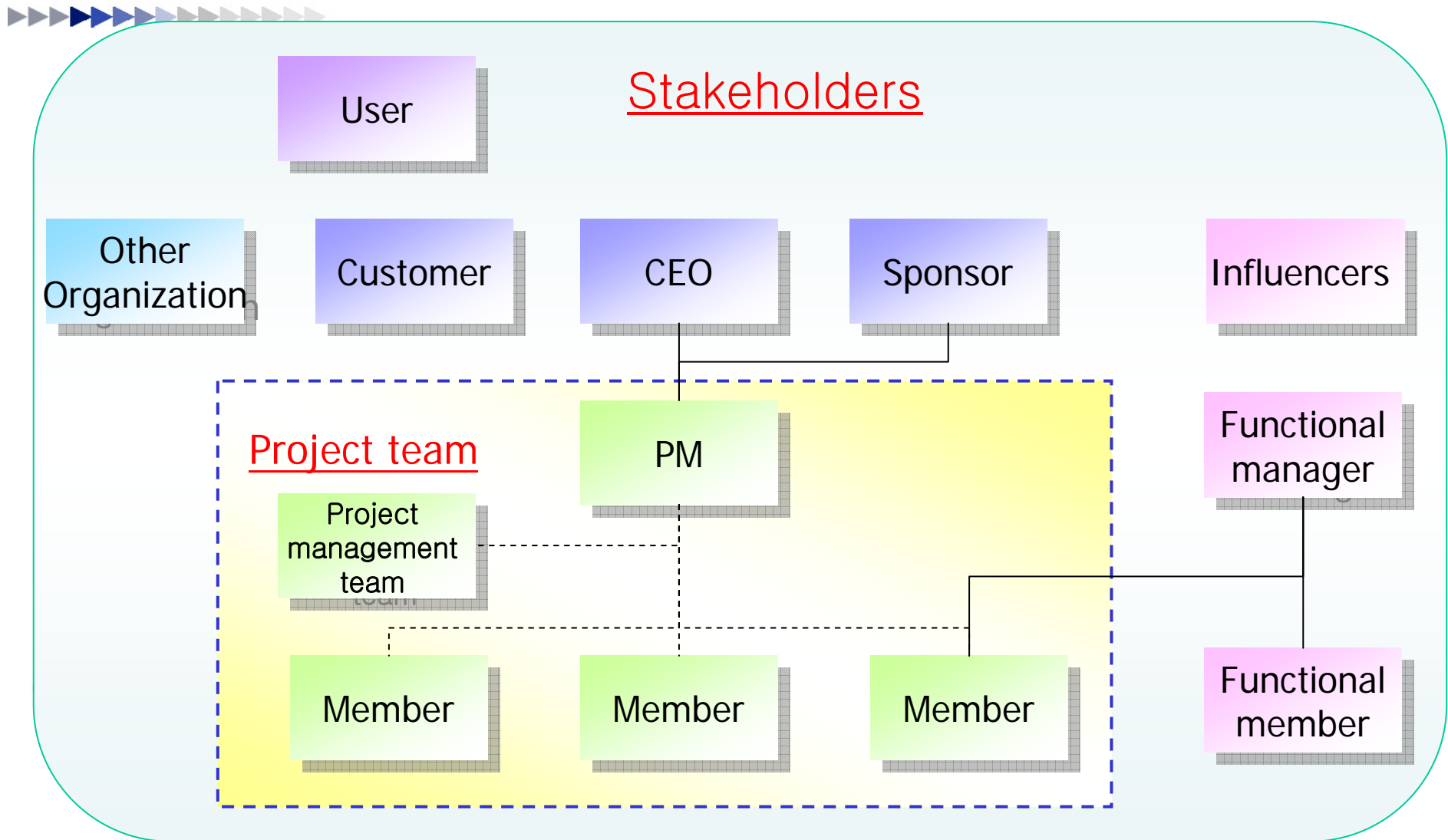
- Project management is the application of knowledge, skills, tools and techniques to project activities to meet project requirements.

- Managing a project includes:

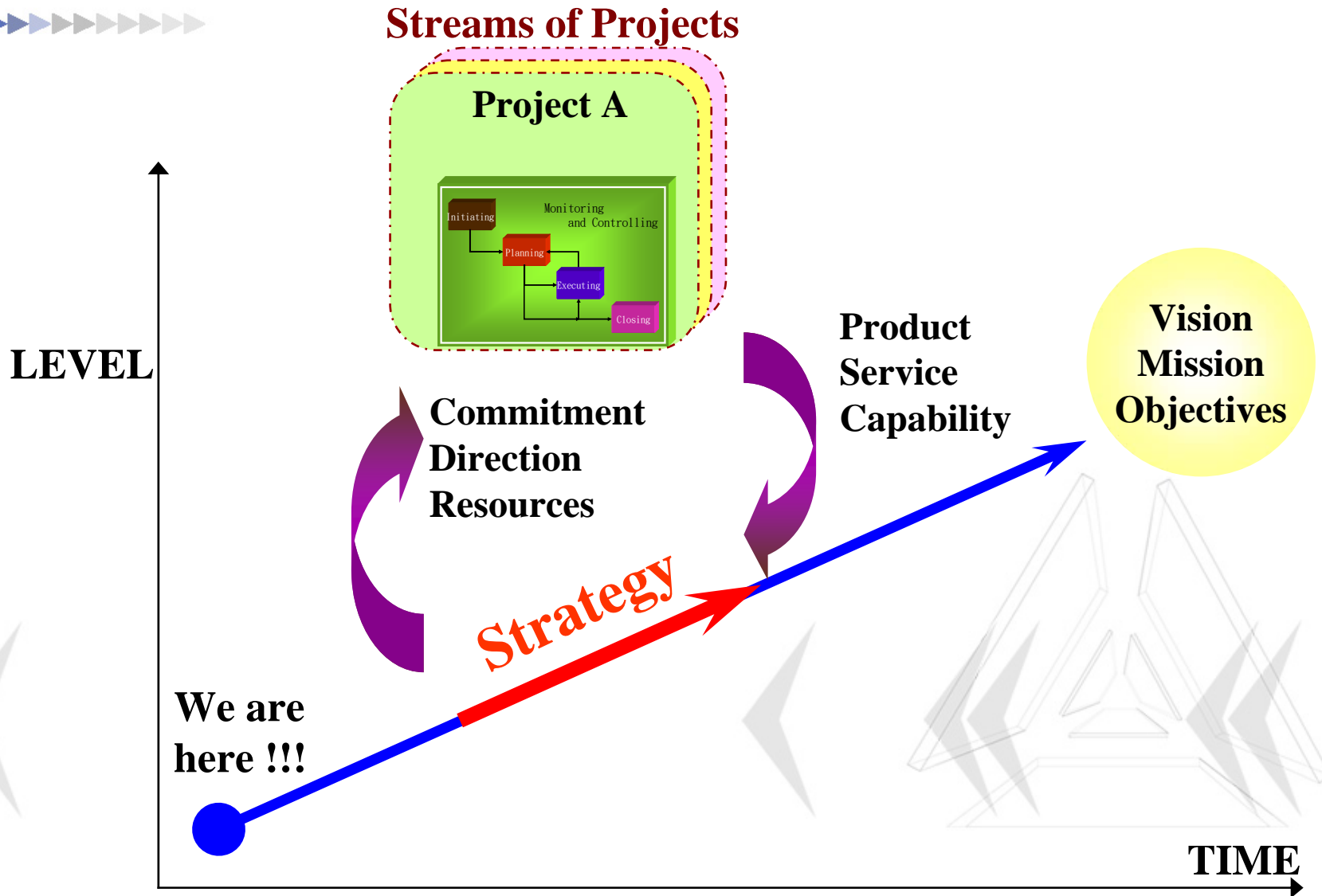
1. Identifying requirements.
2. Establishing achievable objectives.
3. Balance the competing demands of scope, time, cost, quality, resources, and risk to produce a quality product.
4. To satisfy the stakeholder 's requirements and expectation .



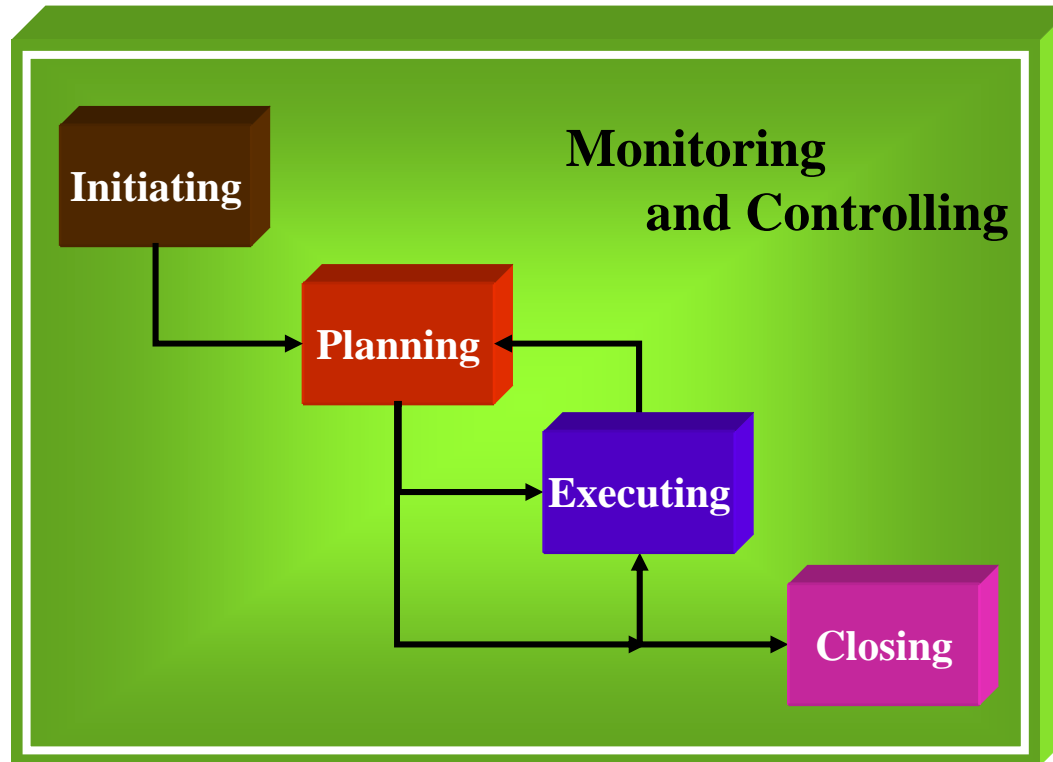
The Relationship Between Stakeholders and the Project



Portfolio Management



Five Project Management Process Groups



- 1** Initiating
- 2** Planning
- 3** Executing

- 4** Monitoring and Controlling
- 5** Closing

Nine Project Management Knowledge Areas



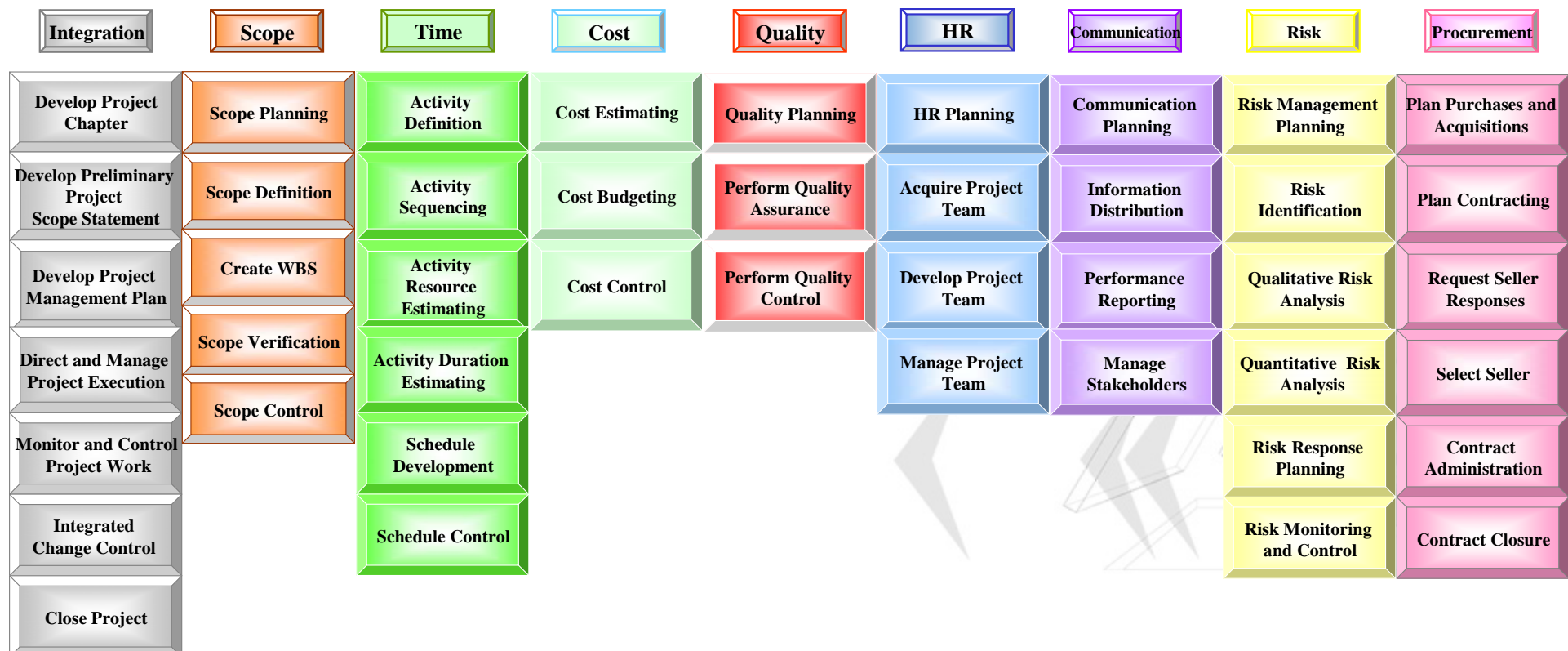
- An inch deep and a mile wide.
 - According to the PMBOK to Sort Nine Project Management Areas

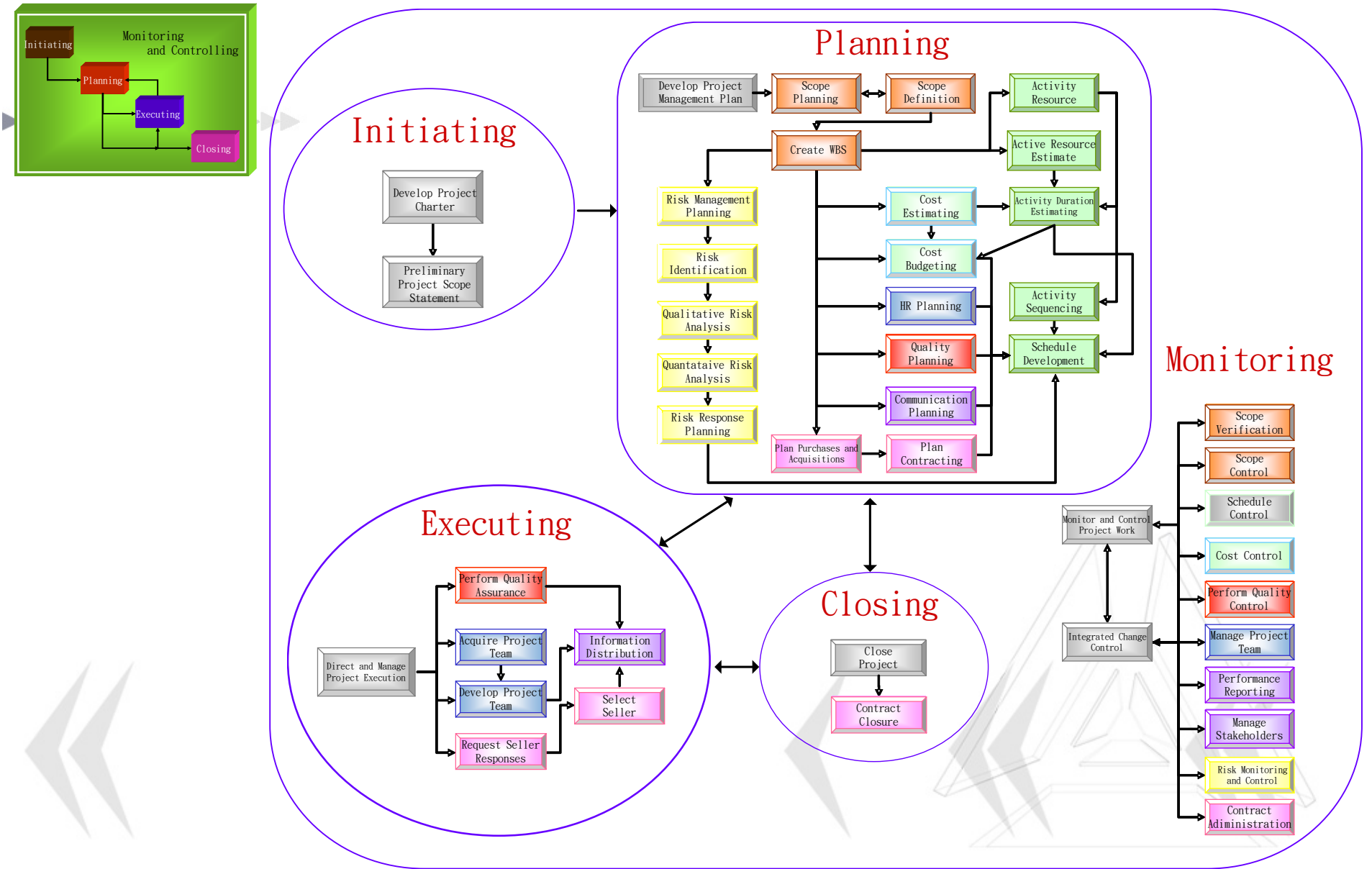


The 44 project management processes



- The 44 project management processes into the nine Project Management Knowledge Areas.





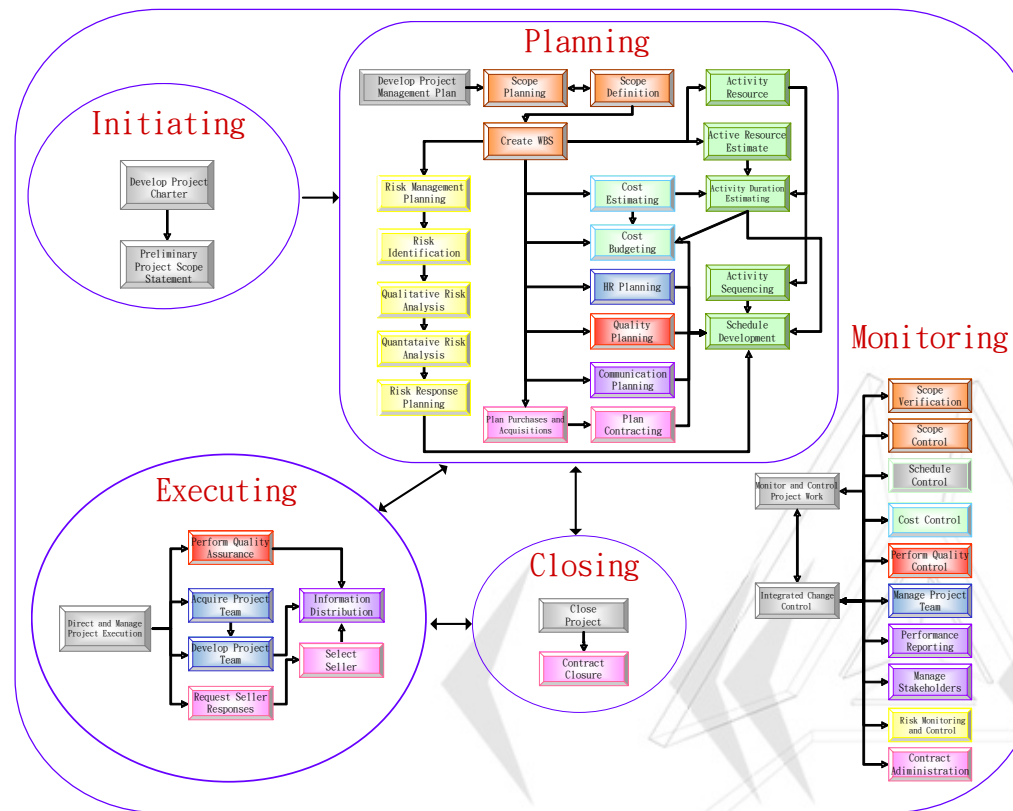
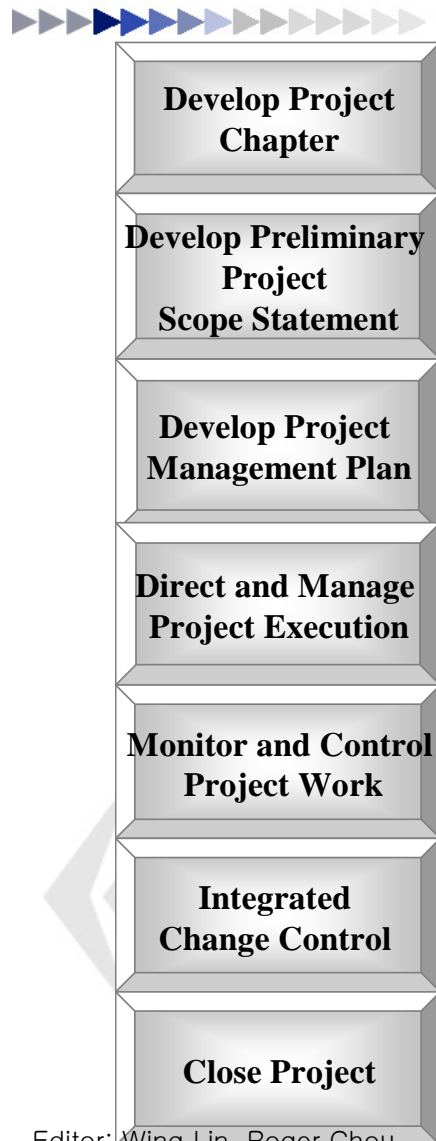


*PMP project management methodology
applied in ITRI*



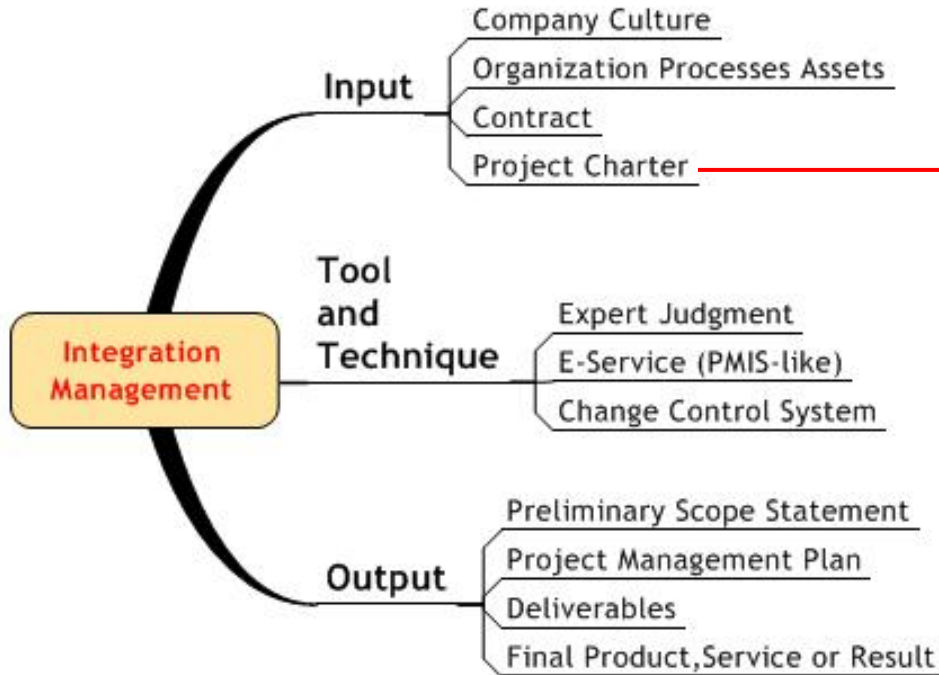
Integration Management

- To **Identify, Define, Combine, Unify, and Coordinate** the various processes.



Integration Management

Project Charter



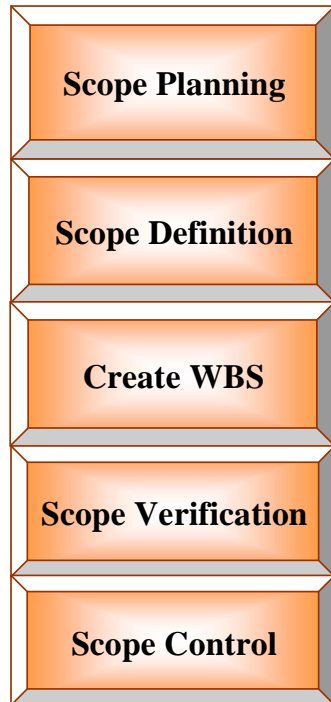
Project Name :

Date : 2008/01/20

Purpose	
Product Description	
Objective	
Constraints	
Assumptions	
Deliverable	
Project Manger	
Senior Manager's Approval	



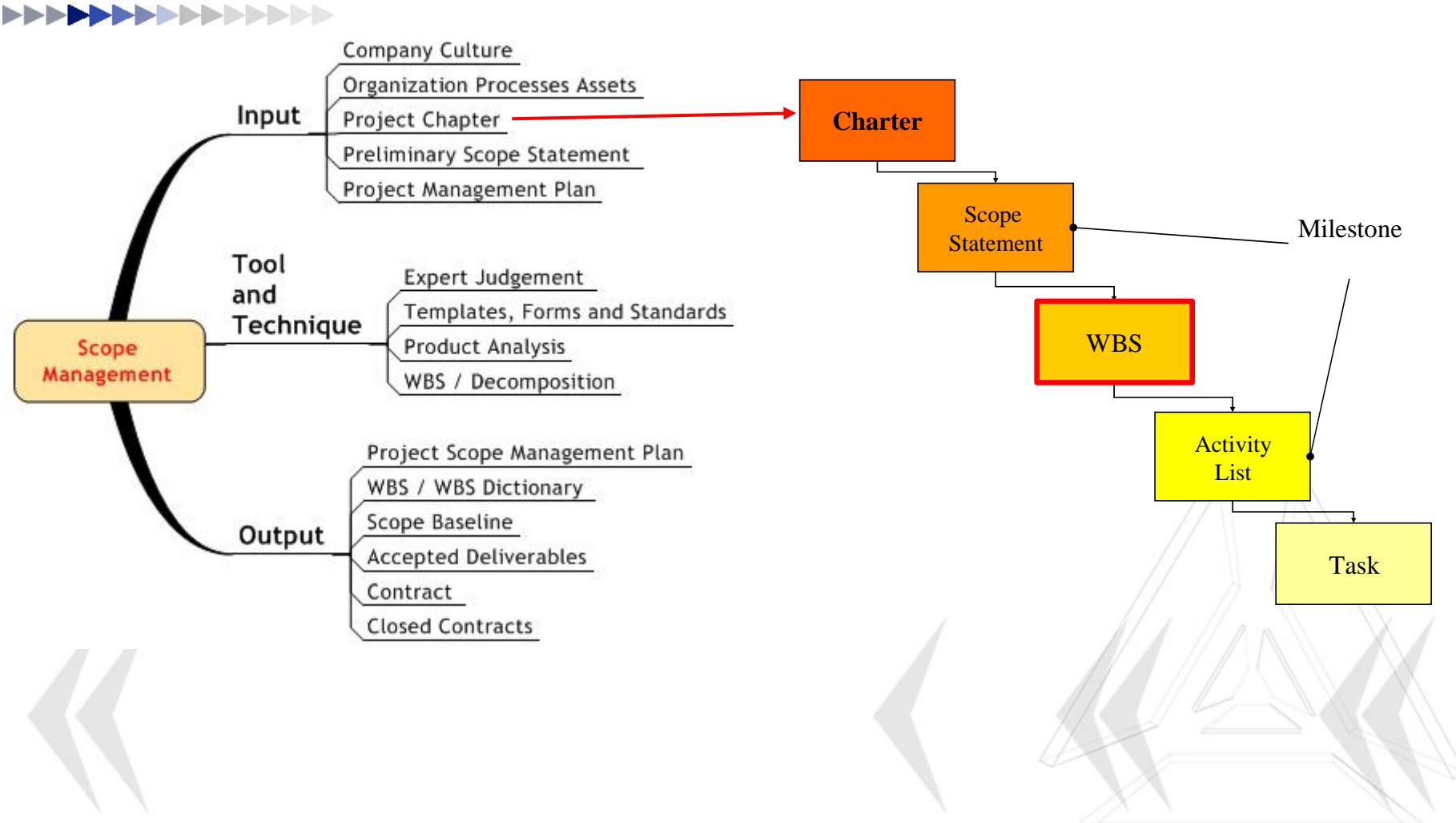
Scope Management



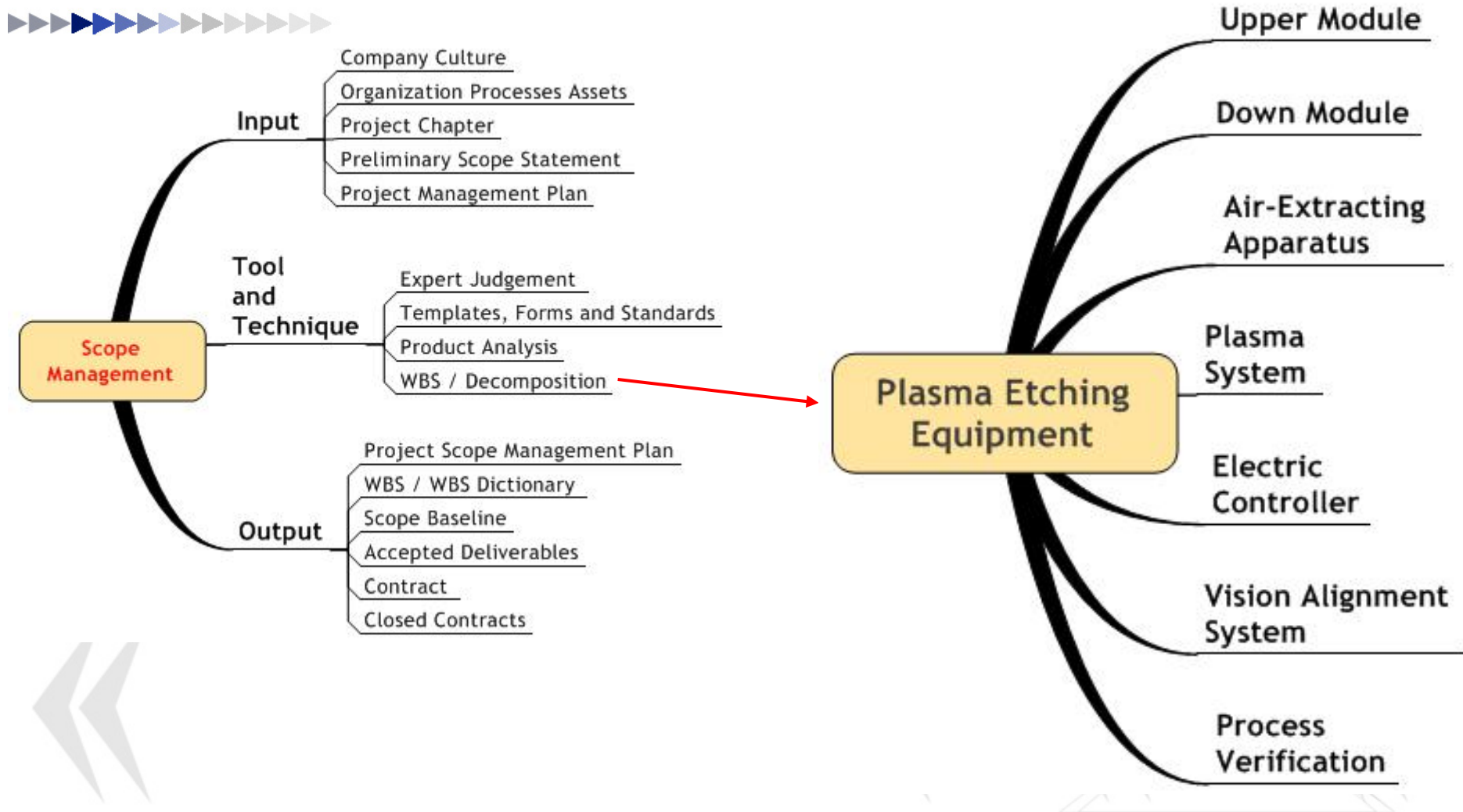
- **No More, No Less.**



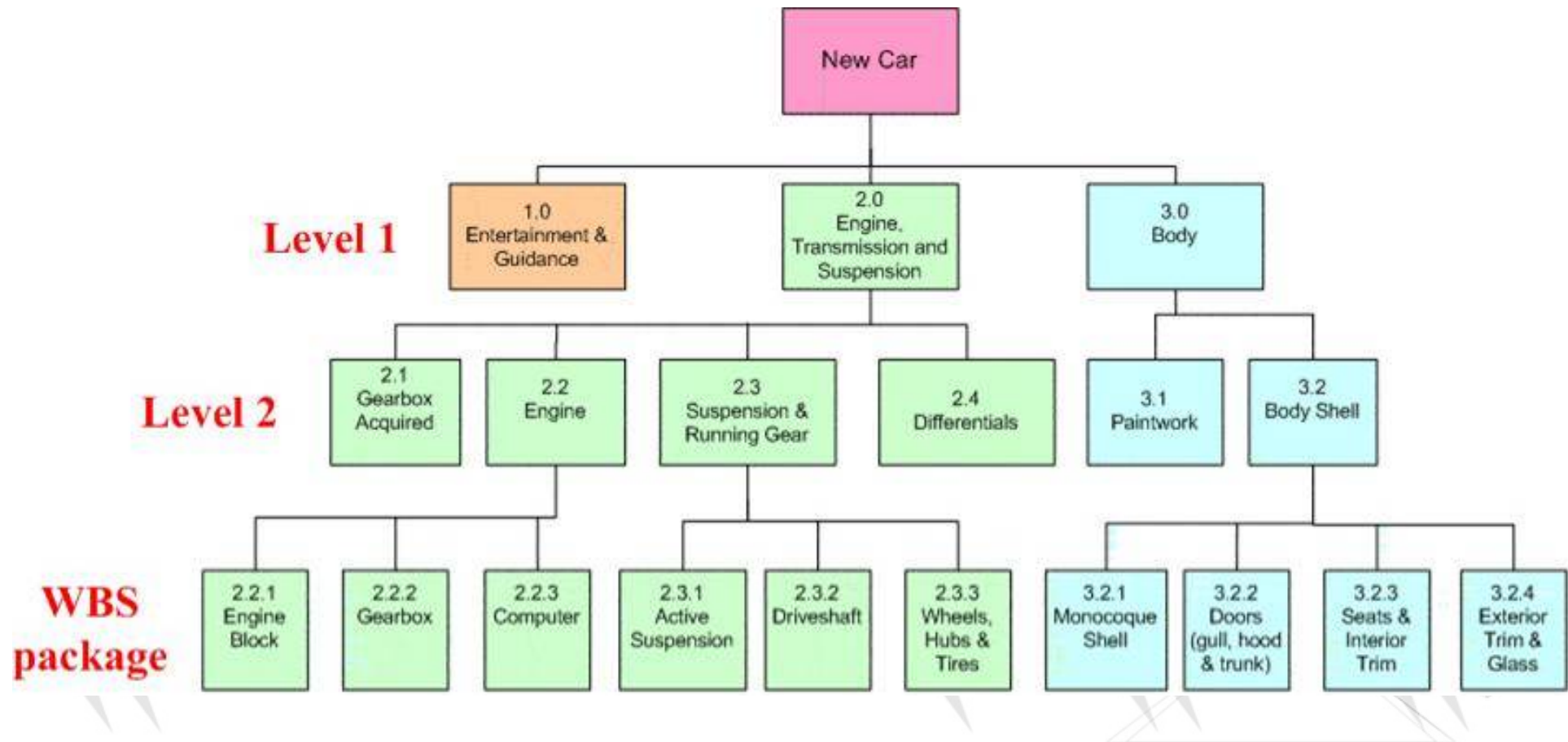
Scope Management



Scope Management



Scope Management : Example



Work Breakdown Structure (WBS)

WBS Dictionary		Doc NO.	P2SC04-1	Page	1/1
Project Name		Making Date	97.09.08	Maker	Howard
Project Num	73XXXXXXXX	Modified Date	97.09.08	Version	V1.0



WBS Number	5.3.3				
Work Description					
Work Explain					
deadline		Member	Howard		
Deliverable description					
Standard					
Mission ahead	WBS Number	WBS items			
	5.3.1				
	5.3.2				
Mission backward					
Estimate Cost	XXXX				
Duration (Unit : day)	xxx days				
Resource Requirement	HR	Howard 、 Yi long			
	Material	None			
	Equipment	None			
	Tools	None			
	other	None			
Assumption					
Limitation					
Sequencing standard	<input type="checkbox"/> according % <input checked="" type="checkbox"/> 0/100% <input type="checkbox"/> 50/50%				
Other description					

Version Record

Version	Version date	Version explain
V1.0	97.08.27	



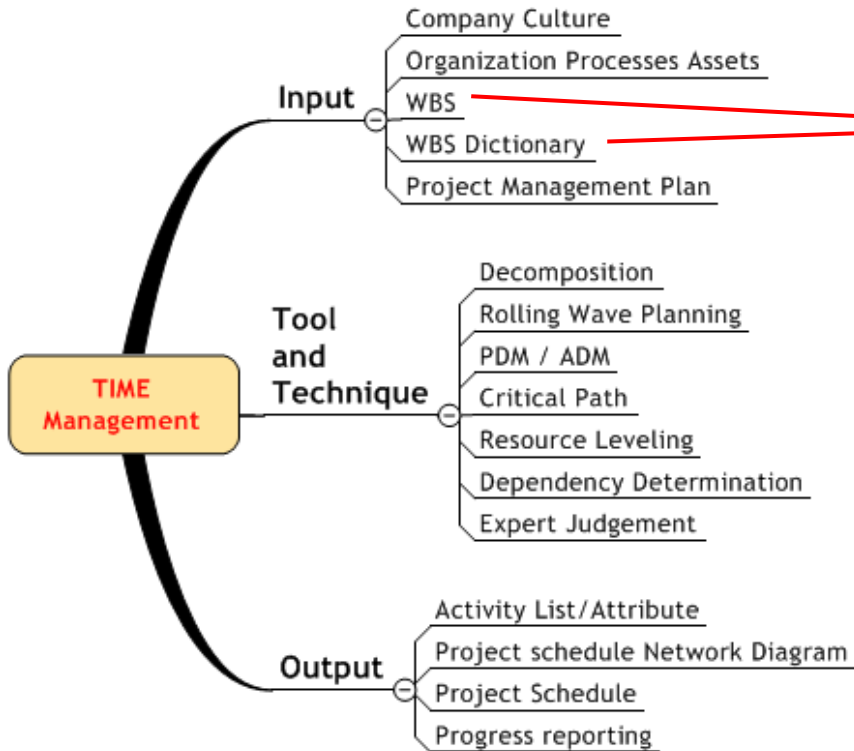
Time Management



- **Completed On Time.**



Time Management

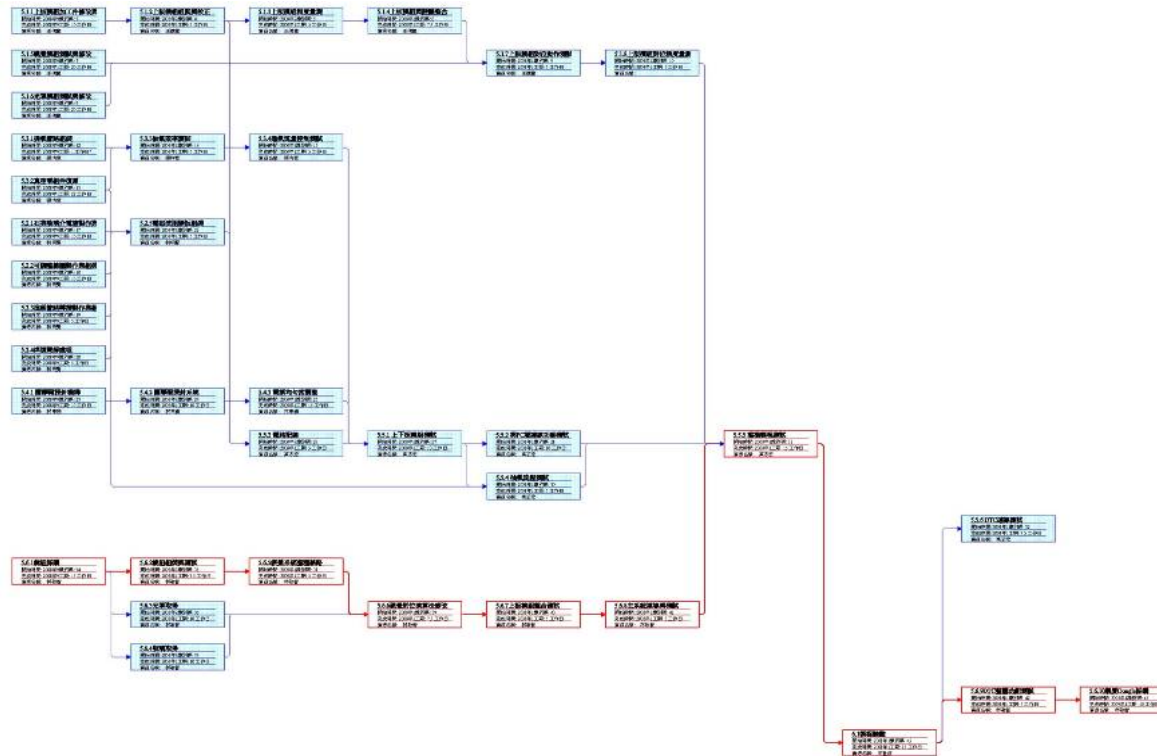


WBS Dictionary		Doc NO.	P2SC04-1	Page	1/1
Project Name		Making Date	97.09.08	Maker	Howard
Project Num	73XXXXXXXXX	Modified Date	97.09.08	Version	V1.0

WBS Number	5.3.3	
Work Description		
Work Explain		
deadline	Member	Howard
Deliverable description		
Standard		
Mission ahead	WBS Number	WBS items
	5.3.1	
Mission backward	5.3.2	
Estimate Cost	XXXX	
Duration (Unit : day)	xxx days	
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Assumption		
Limitation		
Sequencing standard	<input type="checkbox"/> according % <input checked="" type="checkbox"/> 0/100% <input type="checkbox"/> 50/50%	
Other description		

Version Record		
Version	Version date	Version explain
V1.0	97.08.27	

Time Management



Project Schedule Network Diagram

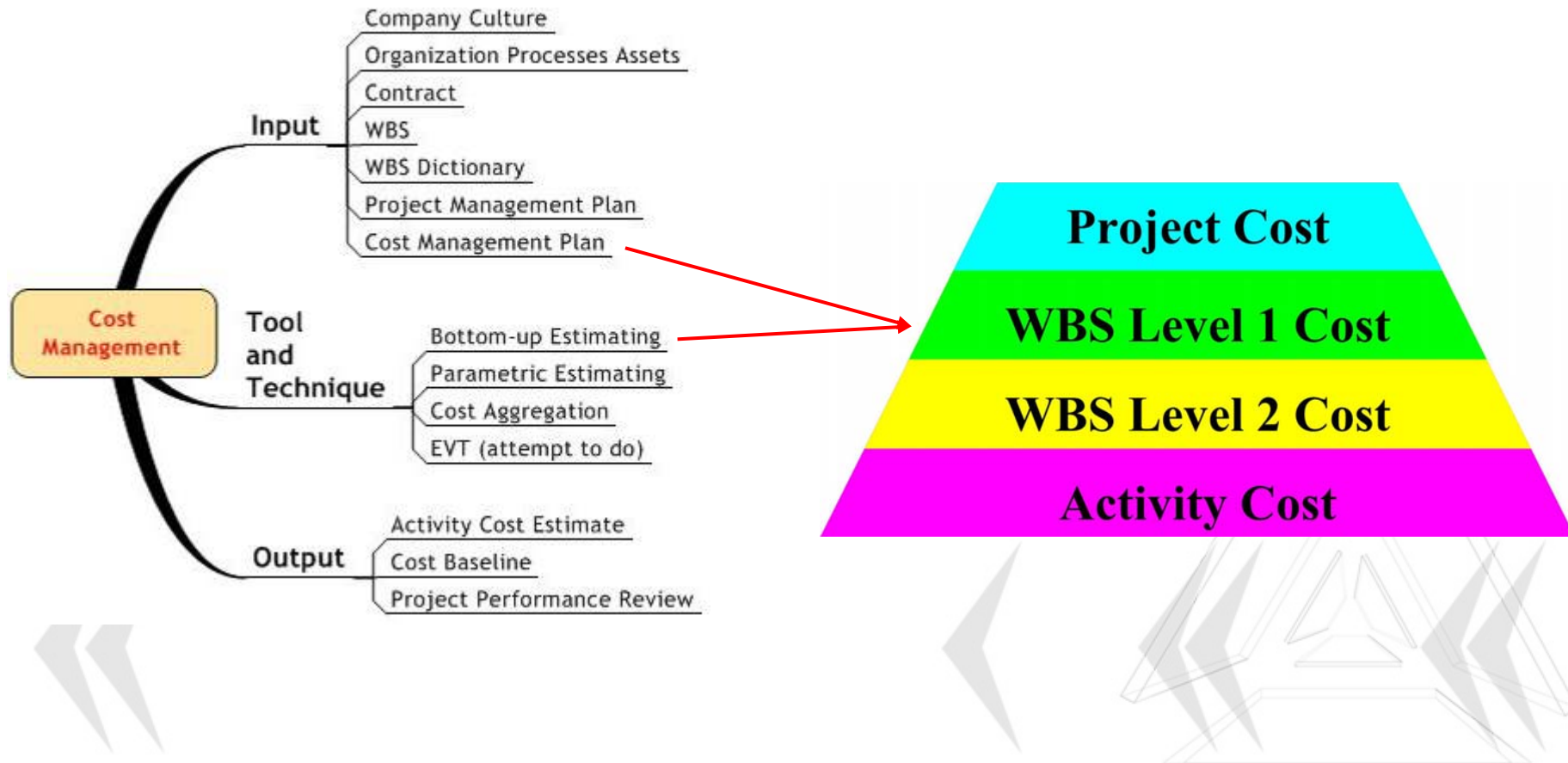
Cost Management



- **We should make every penny count.**



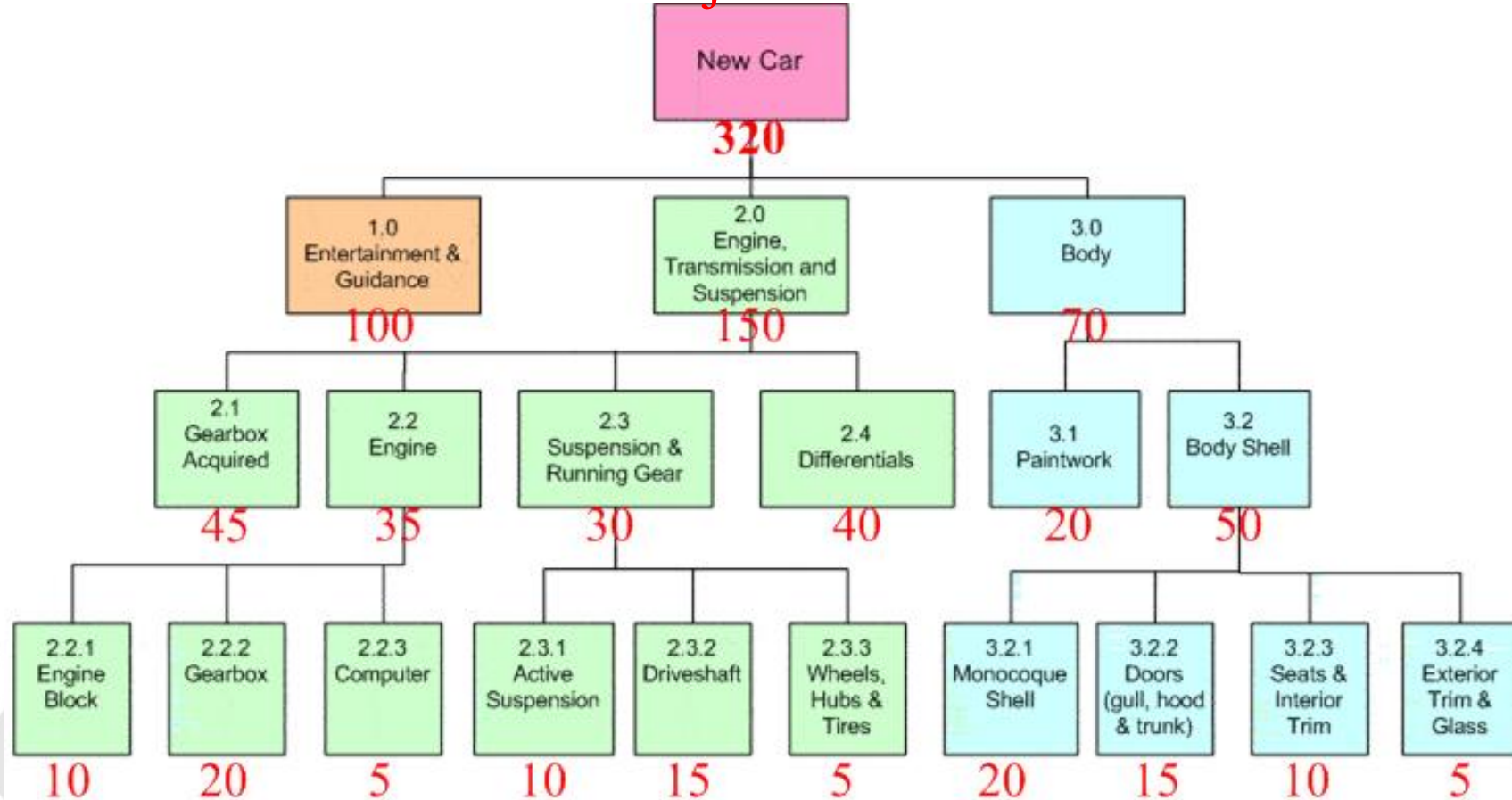
Cost Management



Cost Management : Example

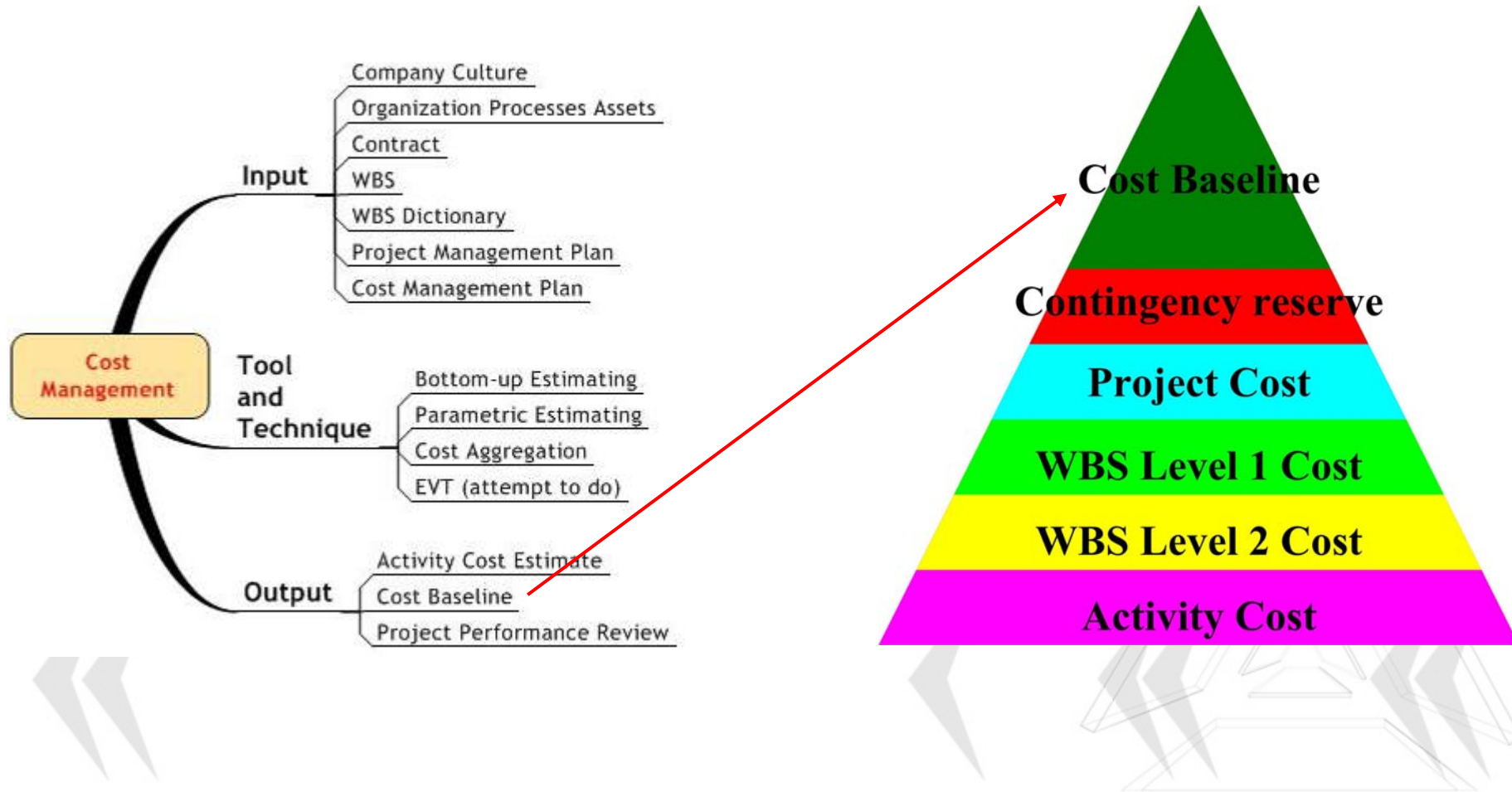


Project Cost



Bottom-Up Estimating

Cost Management



Quality Management



Quality Planning

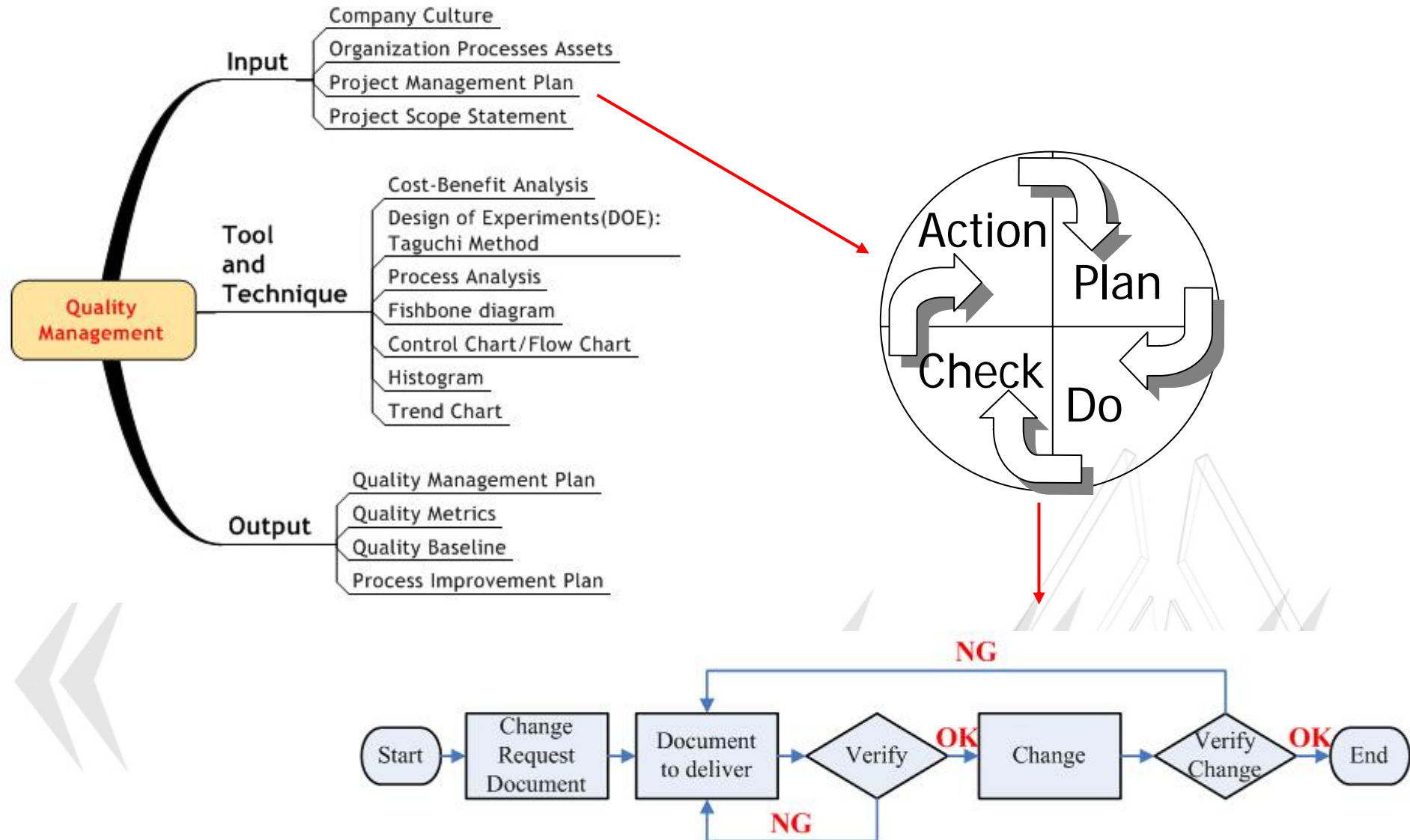
Perform Quality
Assurance

Perform Quality
Control

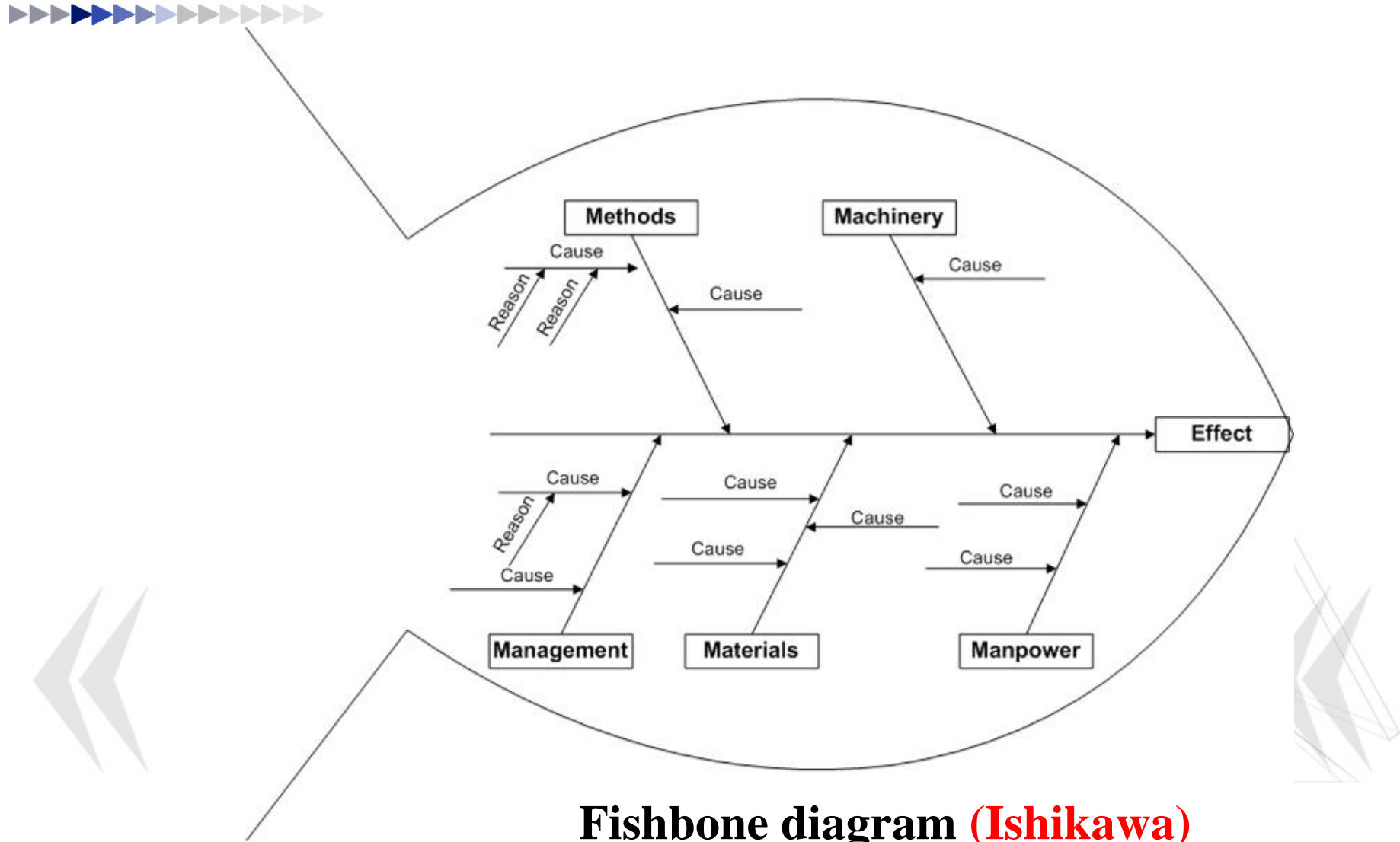
- **Conform to the standard,
No gold plating.**



Quality Management



Quality Management : Example



Fishbone diagram (Ishikawa)

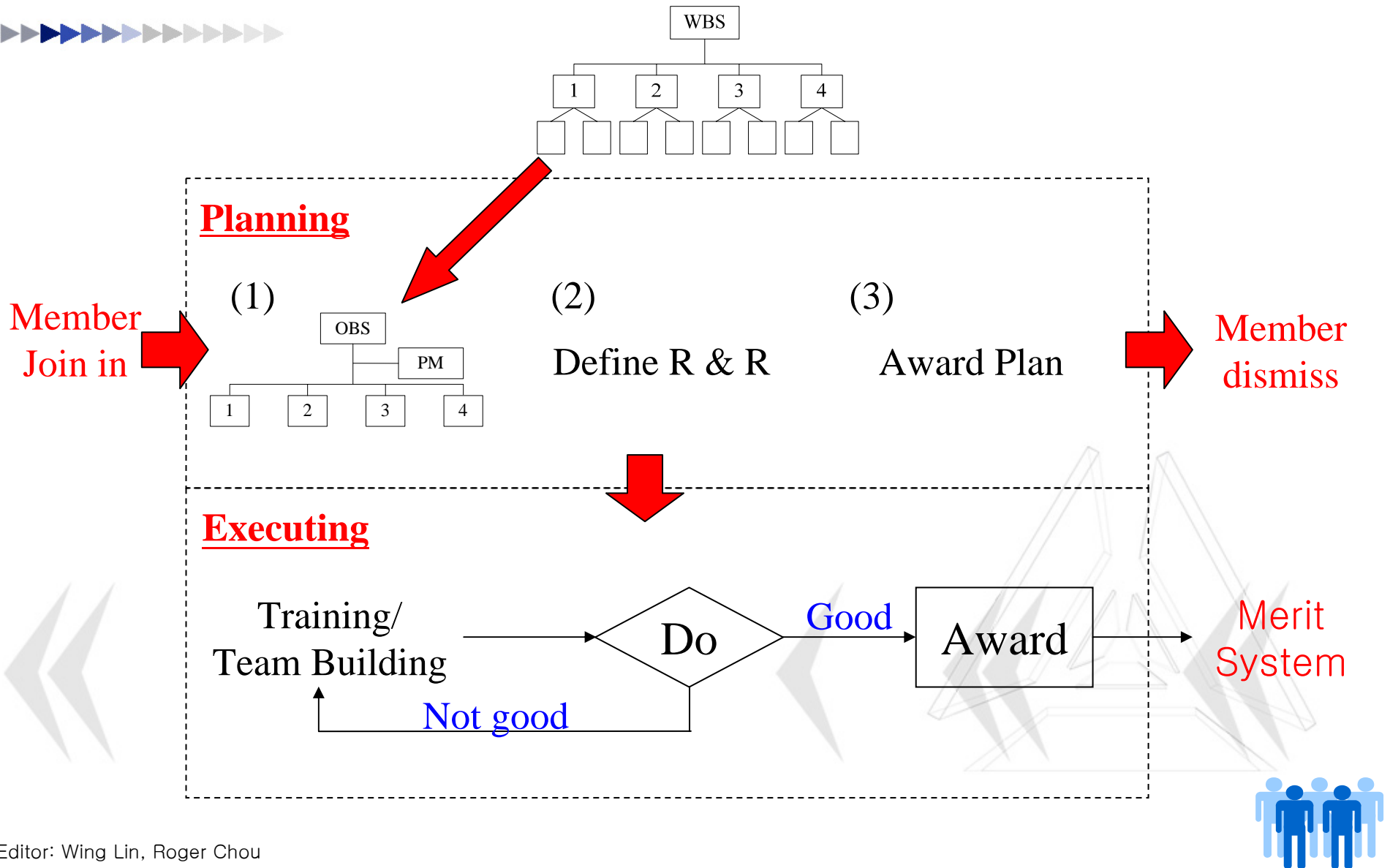
HR Management



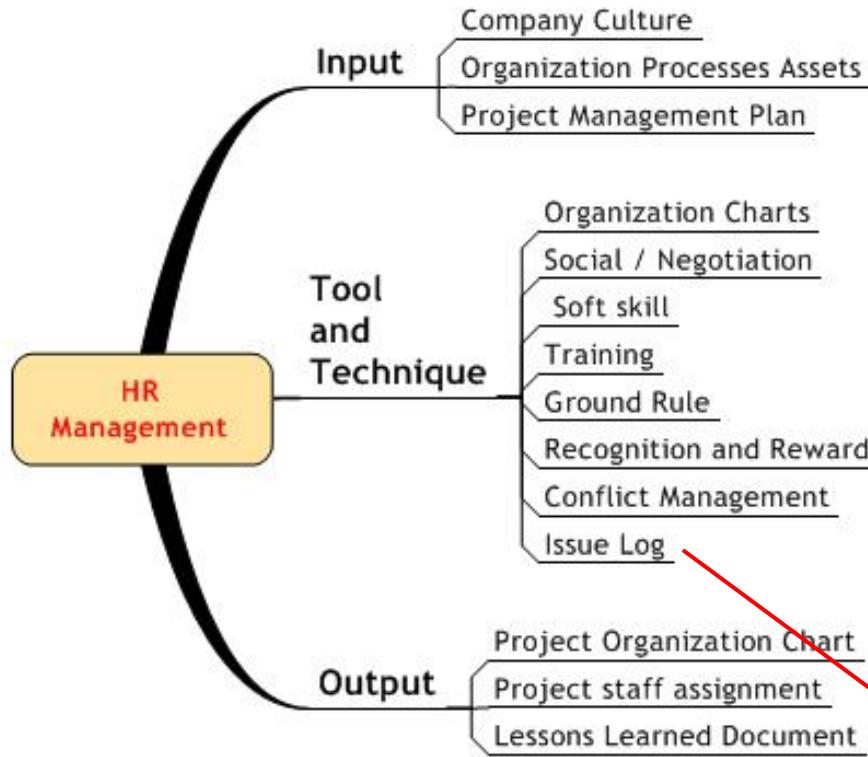
- **Choice , Education,
Exercise, Retain.**



HR Management



HR Management



NO	Assign date	Problem Description	End date	Member	Corrective Action	Improvement	Status
1	97.8.19	Dry pump lost connector and can't use.	97.10.10	Howard	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	YES	CLOSE
2							
3							
4							
5							

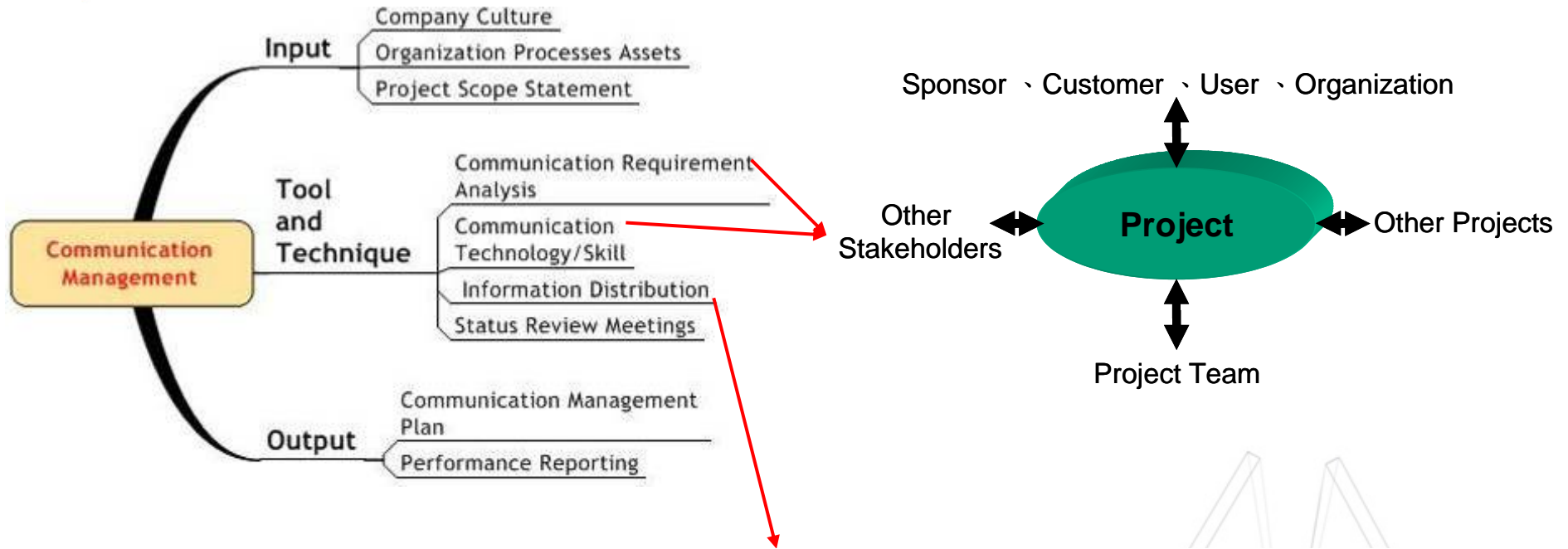
Communication Management



- **The Right Information to the Right Person at the Right Time.**



Communication Management



Weekly Report

Department : E300

Recorder : Wing

Time : 970101 ~ 971230

Attribute	Project Names	Executing status / STAR method	Reference /Completed Files	Check Point
Executing Plan		<ul style="list-style-type: none"> XXXXXXXXX ◦ XXXXXXXXX ◦ <p>Situation Task Action Result</p>	<ul style="list-style-type: none"> XXXXXXXXX ◦ XXXXXXXXX ◦ 	

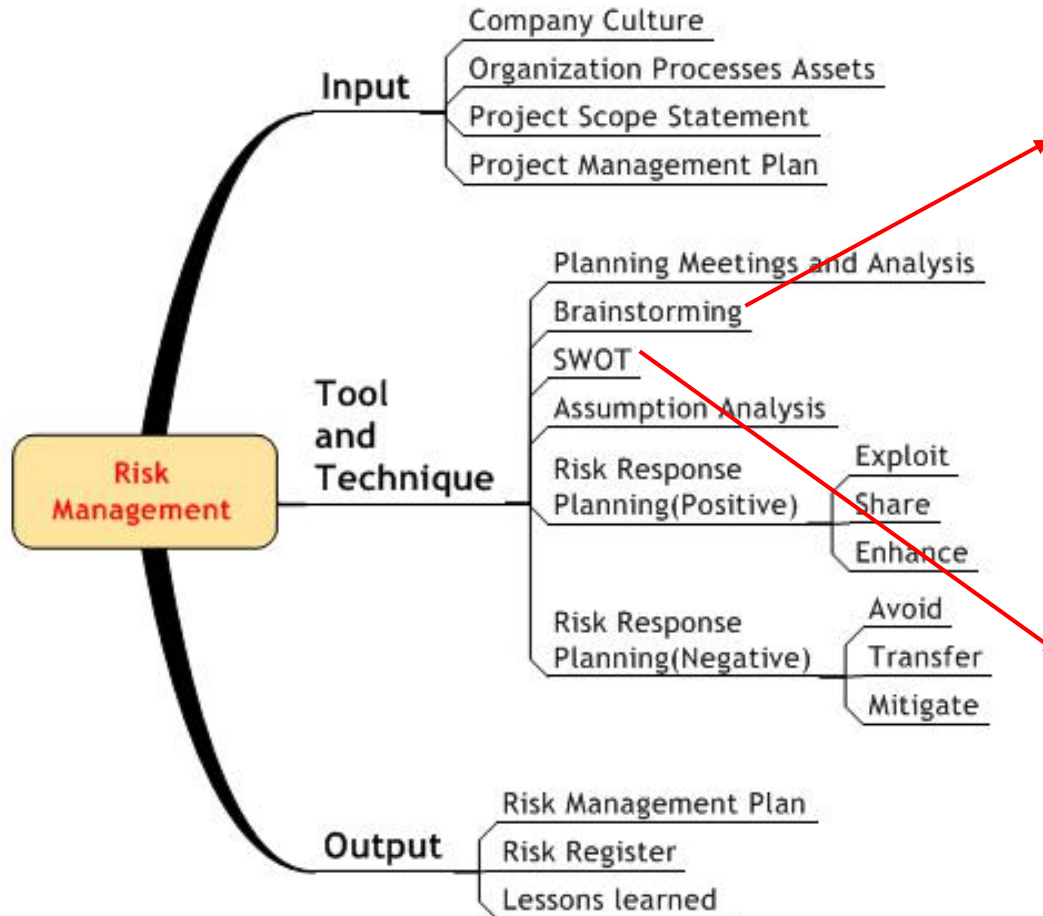
Risk Management



- Planning, identification, analysis, responses, and monitoring and control the risk



Risk Management



Strengths

Weaknesses

Opportunities

Threats

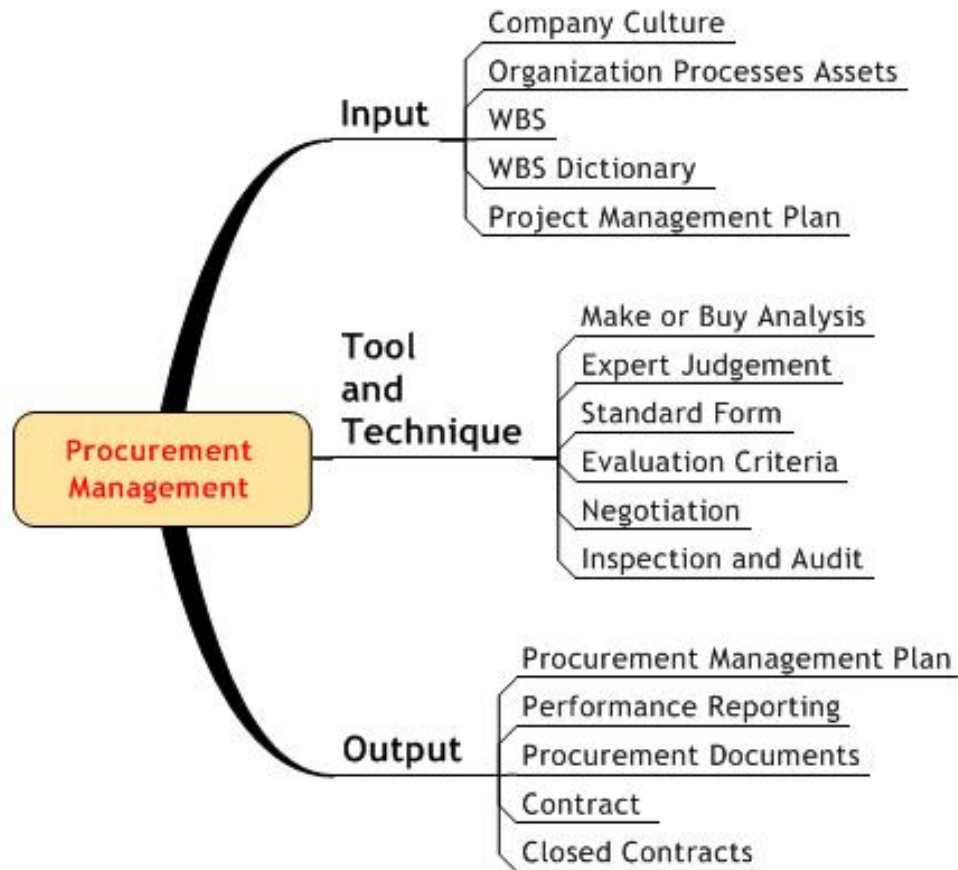
Procurement Management

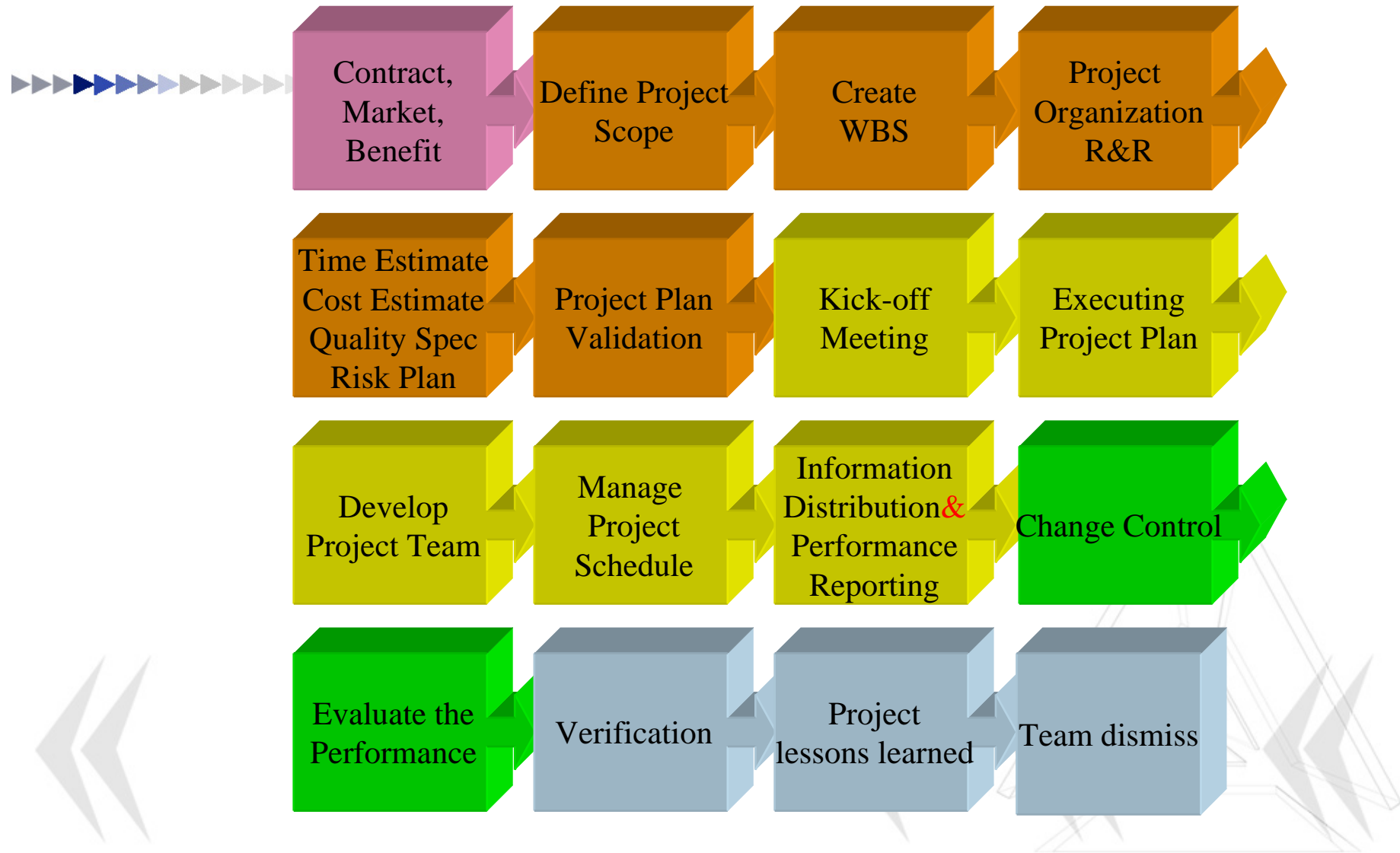


- **Outsourcing**



Procurement Management





Conclusion



The key factor to success

- Project Management is not only change management, but also execution ability of organization.
- We can construction common language and eliminate the communication barrier with different people from world effectively by PMP project management.