

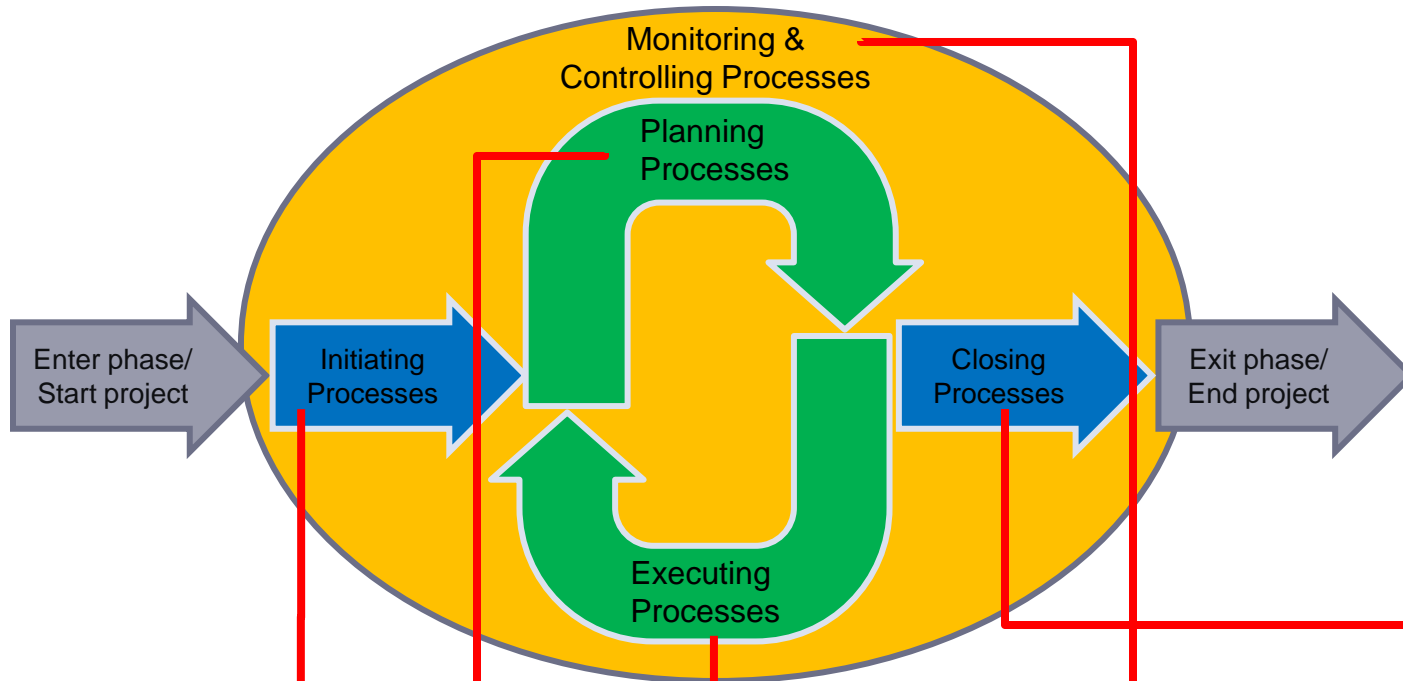
BY: AHMED ABBAS



# PROJECT MANAGEMENT

## **PROJECT INTEGRATION MANAGEMENT**

# PROJECT INTEGRATION MANAGEMENT



Knowledge Area	Process				
	Initiating	Planning	Executing	Monitoring & Control	Closing
Integration	<ul style="list-style-type: none"> <li>Develop Project Charter</li> </ul>	<ul style="list-style-type: none"> <li>Develop Project Management Plan</li> </ul>	<ul style="list-style-type: none"> <li>Direct and Manage Project Execution</li> </ul>	<ul style="list-style-type: none"> <li>Monitor and Control Project Work</li> <li>Perform Integrated Change Control</li> </ul>	<ul style="list-style-type: none"> <li>Close Project</li> </ul>

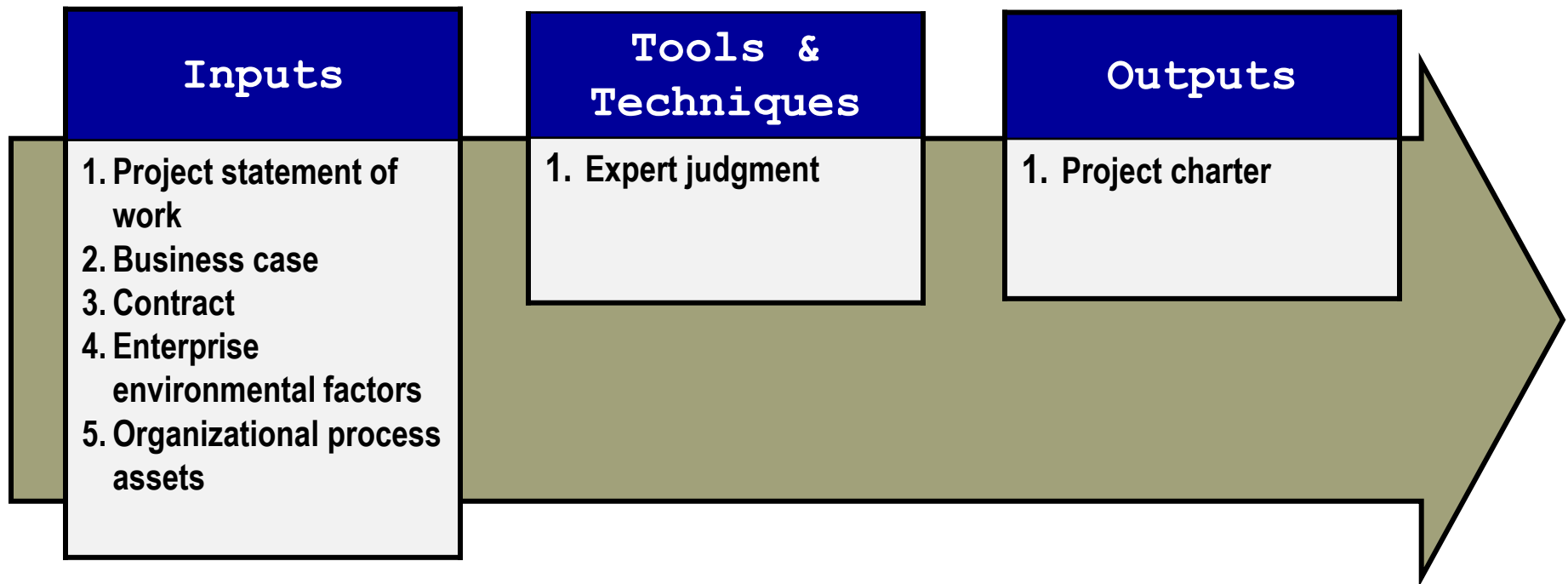
# PROJECT INTEGRATION MANAGEMENT

**Process and activities needed to identify, define, combine, unify, and coordinate the various processes and project management activities within the Project Management Process Groups.**



## 4.1 DEVELOP PROJECT CHARTER

The process of developing a document that formally authorizes a project or a phase and documenting initial requirements that satisfy the stakeholder's needs and expectations



# DEVELOP PROJECT CHARTER (INPUT)

Project are authorized by someone external to the project such as sponsor, PMO, portfolio steering committee.

Project charter can be created by them or delegated to Project Manager.

## Statement of Work (SOW)

- A narrative description of products or services to be delivered by the project.
- The SOW references:
  - Business need
  - Product scope description
  - Strategic plan

## Business case

- » Provide the necessary information from business standpoint to determine whether or not the project is worth the required investment.

# PROJECT SELECTION

**Refer to Project Selection Slides >>>>**

# PROJECT SELECTION – ECONOMIC MODELS

You just need to understand the following **concepts**

**Present value (PV):** The value today of future cash flows

$$PV = \frac{FV}{(1+r)^n}$$

*FP = future value*  
*r = interest rate*  
*n = number of time period*

**Net present value (NPV):** Project with positive & greater NPV value is better

**Internal rate of return (IRR):** Project with greater IRR value is better

**Payback period:**

- The number of time periods it takes to recover your investment in the project before you start accumulating profit.

**Benefit-cost ratio:**

- compares the benefits to the costs of different options
- relates to costing projects and to determining what work should be done
- Project with greater benefit-cost ratio value is better

# PROJECT SELECTION – IMPORTANT TERMS

## **Economic Value Added (EVA):**

- concerned with whether the project returns to the company more value than it costs.

## **Opportunity Cost:**

- the opportunity given up by selecting one project over another

## **Sunk Costs:**

- Are expended costs
- Should not be considered when deciding whether to continue with a troubled project.

## **Lay of Diminishing Returns:**

- after a certain point, adding more input/resource will not produce a proportional increase in productivity



# PROJECT SELECTION – IMPORTANT TERMS

## Working Capital

- current assets minus current liabilities for an organization or
- amount of money the company has available to invest

## Depreciation

- **Straight line depreciation**
  - The same amount of depreciation is taken each year.
- **Accelerated depreciation**
  - Depreciates faster than straight line
  - Two forms: (1) Double Declining Balance, (2) Sum of the Years Digits

# DEVELOP PROJECT CHARTER (TOOLS & TECHNIQUES, OUTPUT)

## Expert Judgment, includes:

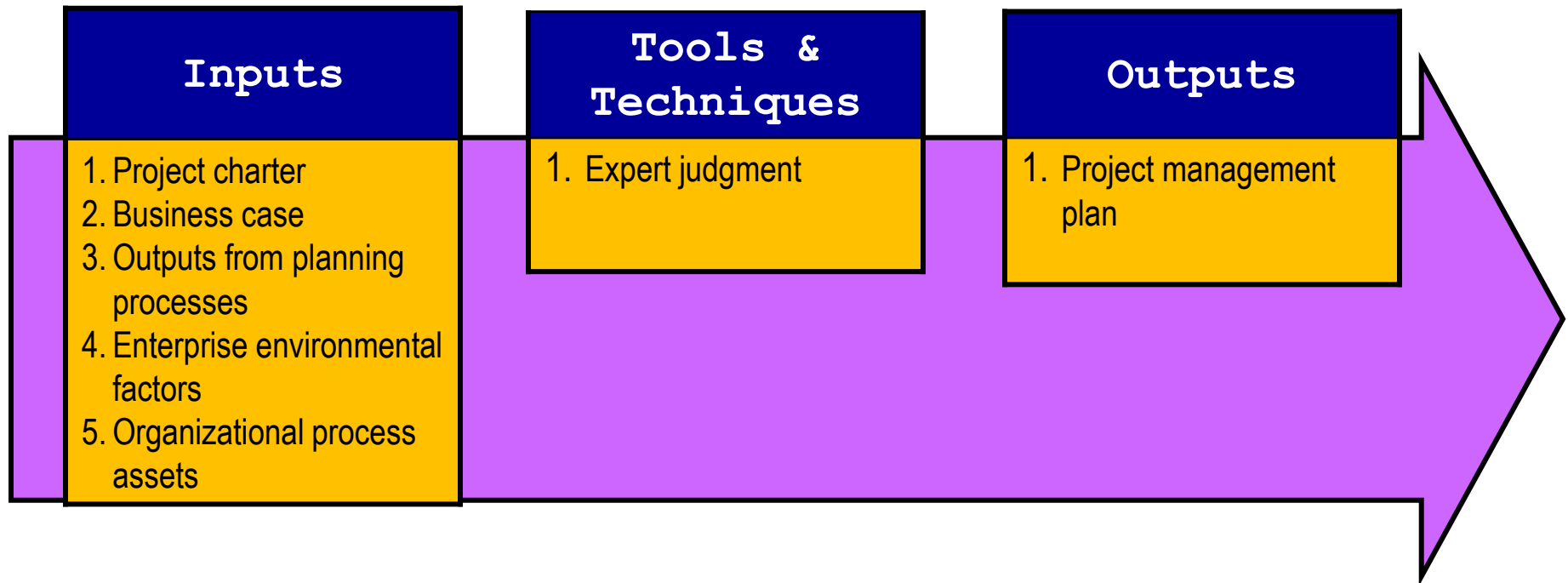
- Other unit within organization
- Consultants
- Stakeholders including customer or sponsor
- Subject matter experts
- PMO
- Industry groups
- Professional & technical association

## Project Charter, includes:

- Project purpose or justification,
- Measurable project objectives and related success criteria,
- High-level requirements,
- High-level project description,
- High-level risks,
- Summary milestone schedule,
- Summary budget,
- Project approval requirements
- Assigned project manager, responsibility, and authority level
- Name and authority of the sponsor or other person(s) authorizing the project charter.

## 4.2 DEVELOP PROJECT MANAGEMENT PLAN

The process of documenting the actions necessary to define, prepare, integrate and coordinate all subsidiary plans.



# PROJECT MANAGEMENT PLAN (OUTPUT)

**The strategy for managing the project and the processes in each knowledge area  
Covers how you will define, plan, manage, and control the project.**

**Also includes:**

- **Change management plan**
- **Configuration management plan**
- **Requirements management plan**
- **Process improvement plan**

**How to handle a problem on a project?**

- » look at your management plan to see how you planned to handle such a problem.

# **BASELINE (PERFORMANCE MEASUREMENT BASELINE)**

**The project management plan contains scope, schedule, and cost baselines, against which the project manager will need to report project performance.**

**Baseline created during planning.**

- **Scope baseline**

The project scope statement, work breakdown structure (WBS), and WBS dictionary

- **Schedule baseline**

The agreed-upon schedule, including the start and stop times

- **Cost baseline**

The time-phased cost budget

**Deviations from baselines are often due to incomplete risk identification and risk management.**

# CHANGE MANAGEMENT PLAN

**Describes how changes will be managed and controlled.**

**Covers for the project as whole**

**May includes:**

- Change control **procedures** (how and who)
- The **approval** levels for authorizing changes
- The creation of a **change control board** to approve changes
- A plan outlining **how changes will be managed and controlled**
- Who should **attend meetings** regarding changes
- **Tools** to use to track and control changes

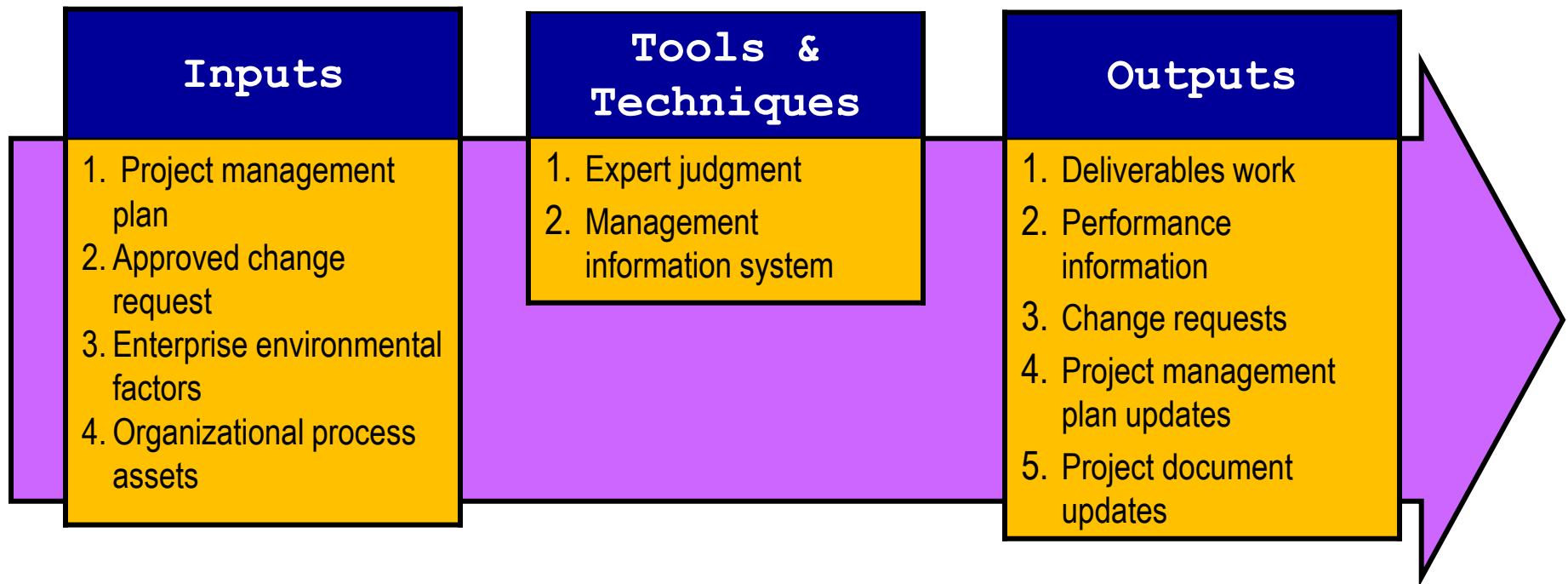
**Each knowledge area are described in the individual management plans**

# CONFIGURATION MANAGEMENT PLAN

**Defines how you will manage changes to the deliverables and the resulting documentation, including which organizational tools you will use**

## 4.3 DIRECT & MANAGE PROJECT EXECUTION

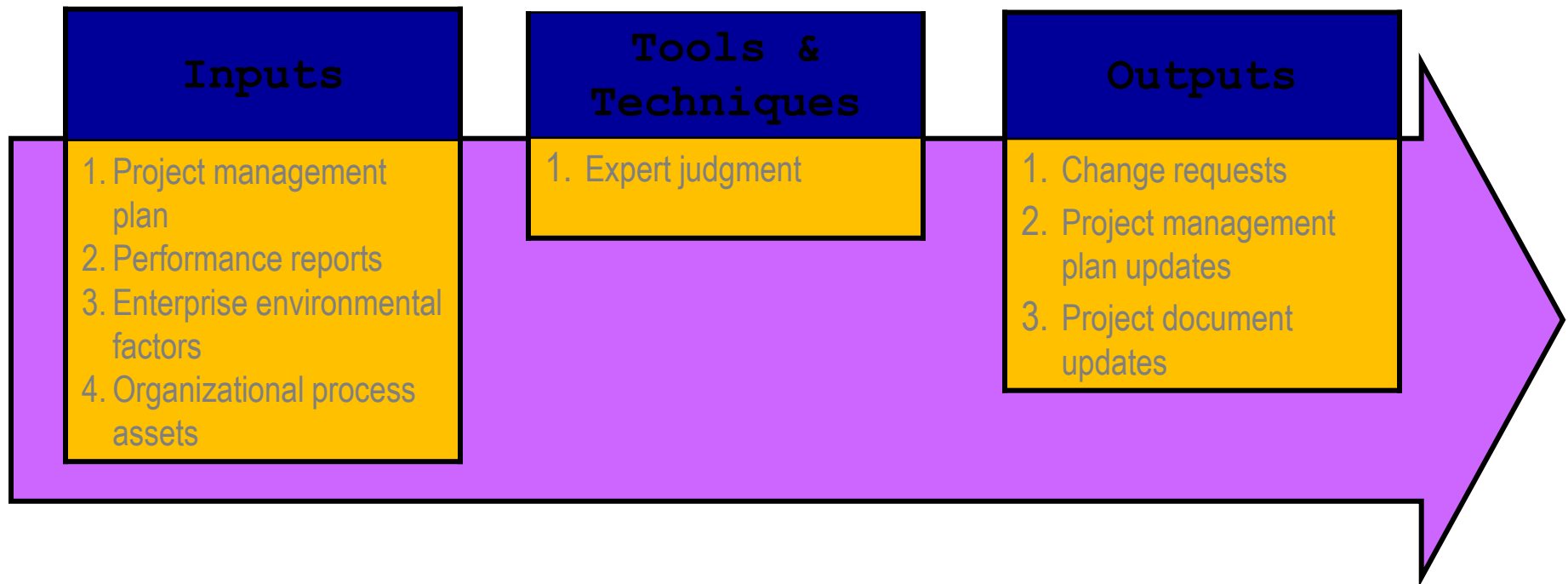
The process of performing the work defined in the project management plan to achieve the project's objectives.





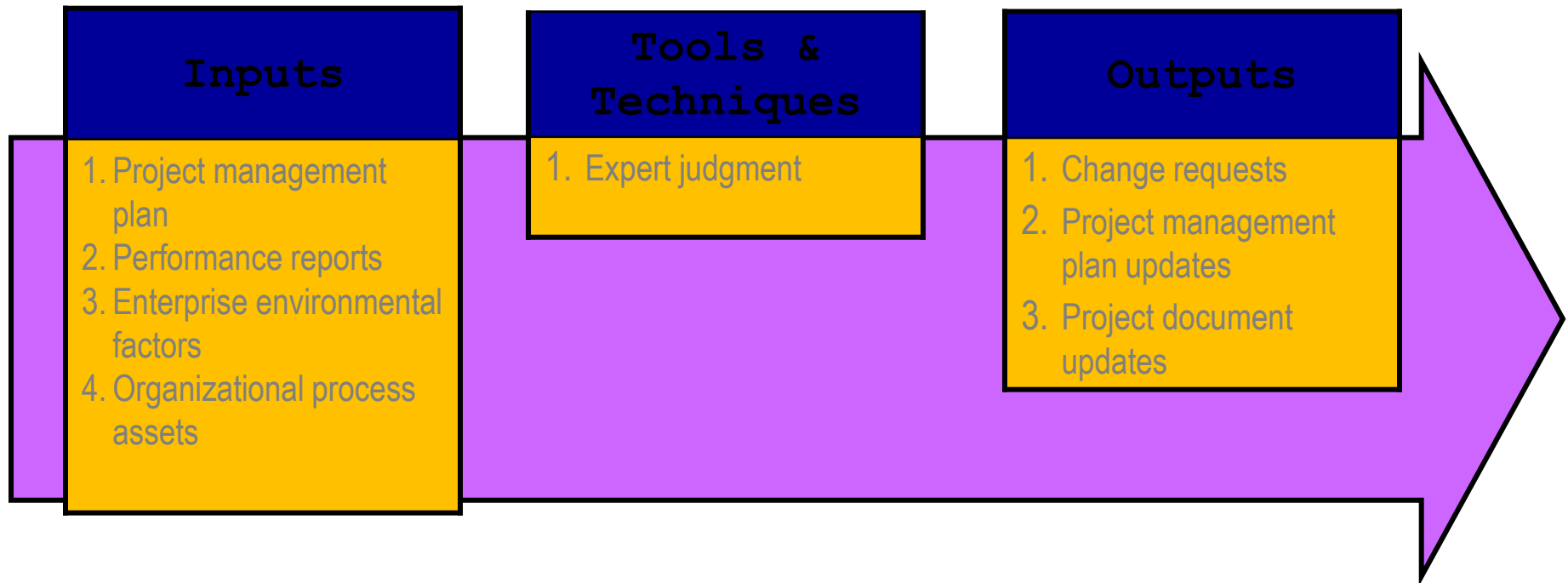
## 4.4 MONITOR & CONTROL PROJECT WORK

The process of tracking, reviewing, and regulating the progress to meet the performance objectives defined in the project management plan.



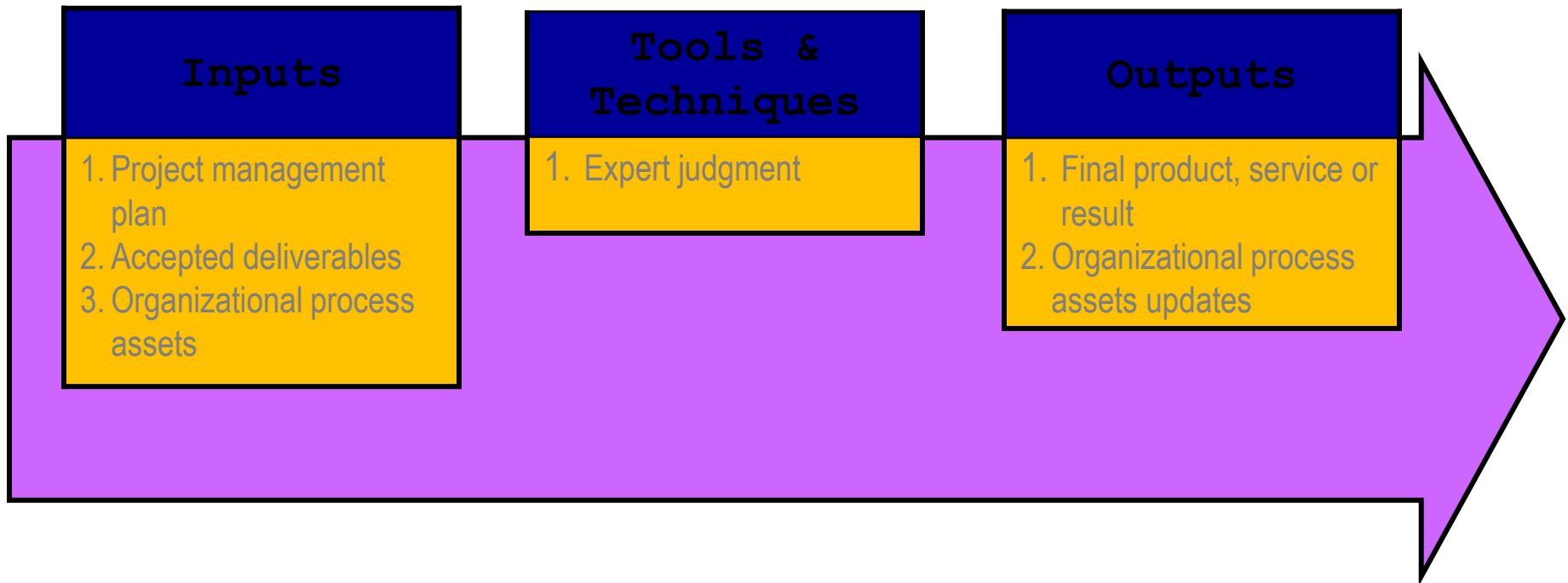
## 4.5 PERFORM INTEGRATED CHANGE CONTROL

The process of reviewing all change requests, approving changes and managing changes to deliverables, organizational process assets, project documents and the project management plan.



## 4.6 CLOSING PROJECT OR PHASE

The process of finalizing all activities across all of the Project Management Process Groups to formally complete the project or phase.



NEXT TOPIC:  
PROJECT SCOPE MANAGEMENT

**Thank You**