

Software Project Management

The Project Management Processes

✓ Projects are composed of Processes

“A process is a series of actions bringing about a result.”

Project Processes are performed by people and generally fall into one of two categories;

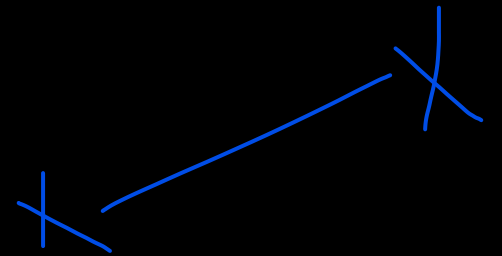
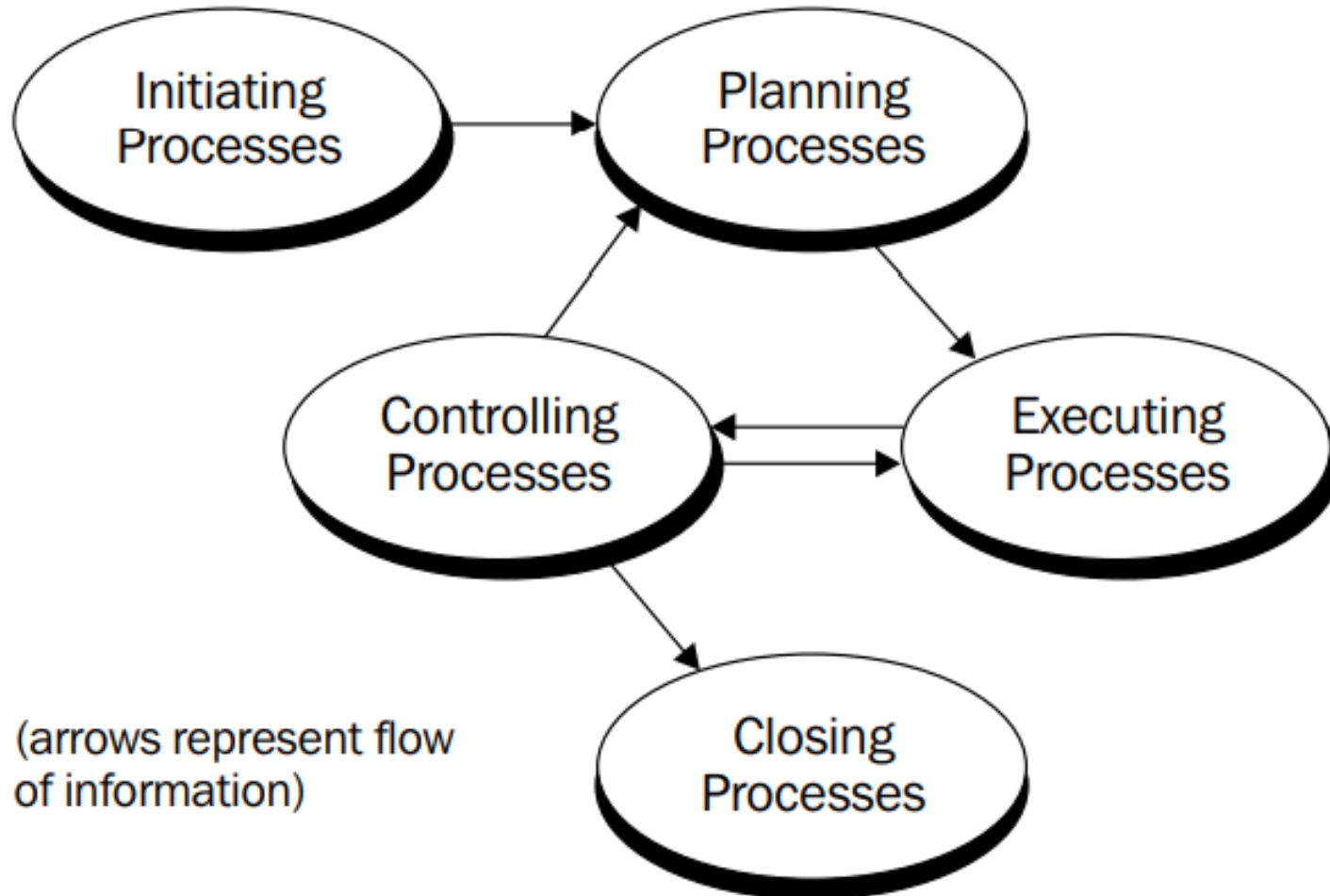
- 1) Project Management Processes
- 2) Product- Oriented Processes



Project Process Groups

- In project life cycle there are **five process** groups:
 - The **initiating** process group
 - The **planning** process group,
 - The **executing** process group
 - The **monitoring & controlling** process group
 - The project **closing** process group

Process Groups



Rolling Wave Planning

- One process does not define the work to be done to bring the current phase of the project to successful completion but must also provide preliminary description of work to be done in later phase
- The **progressive detailing of the project plan** is often called rolling wave planning

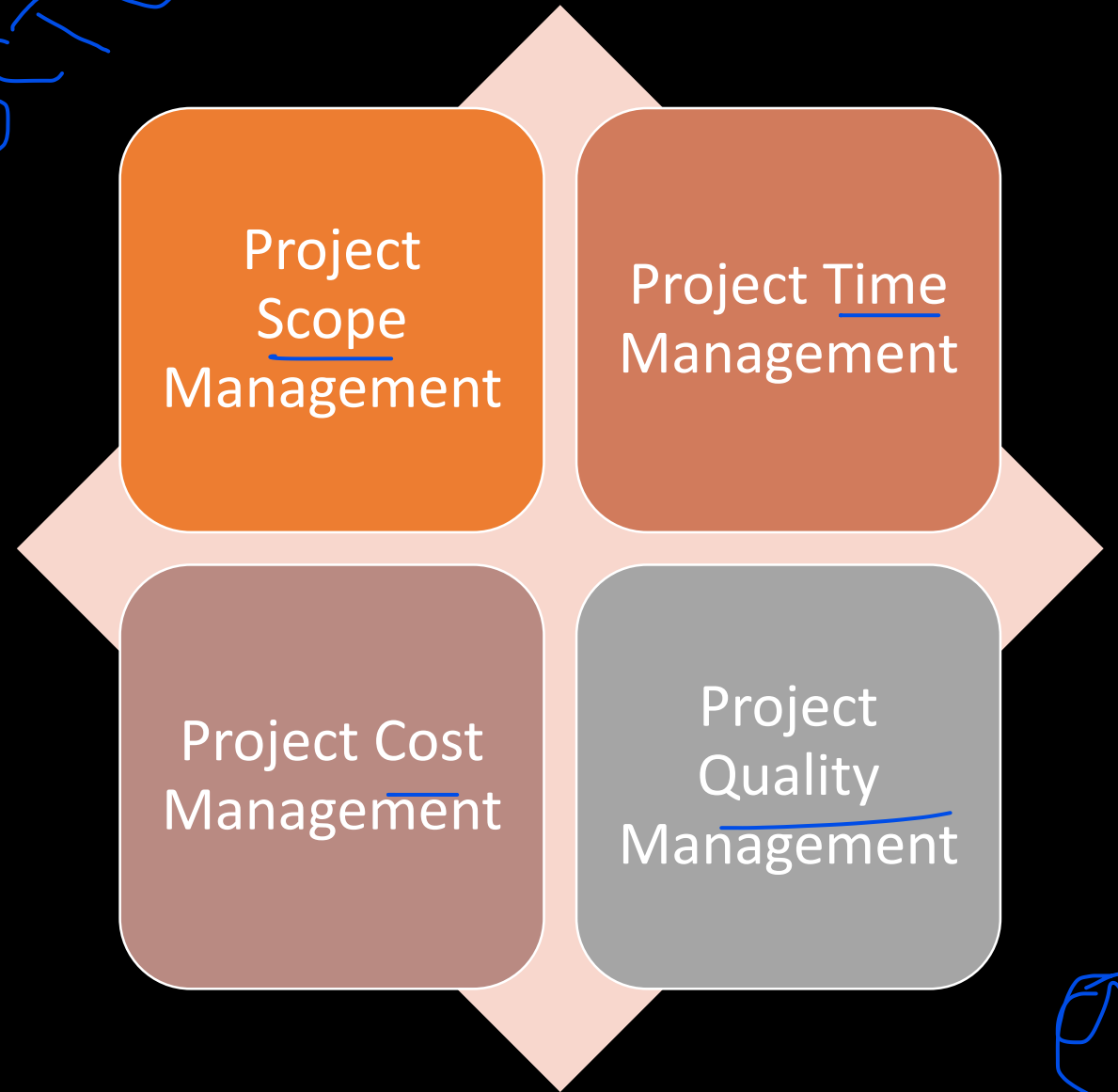
SPM includes

- Knowledge areas
 - 4 core
 - 6 supporting
- Tools
- Techniques




Core Knowledge Areas of SPM

SCITQ



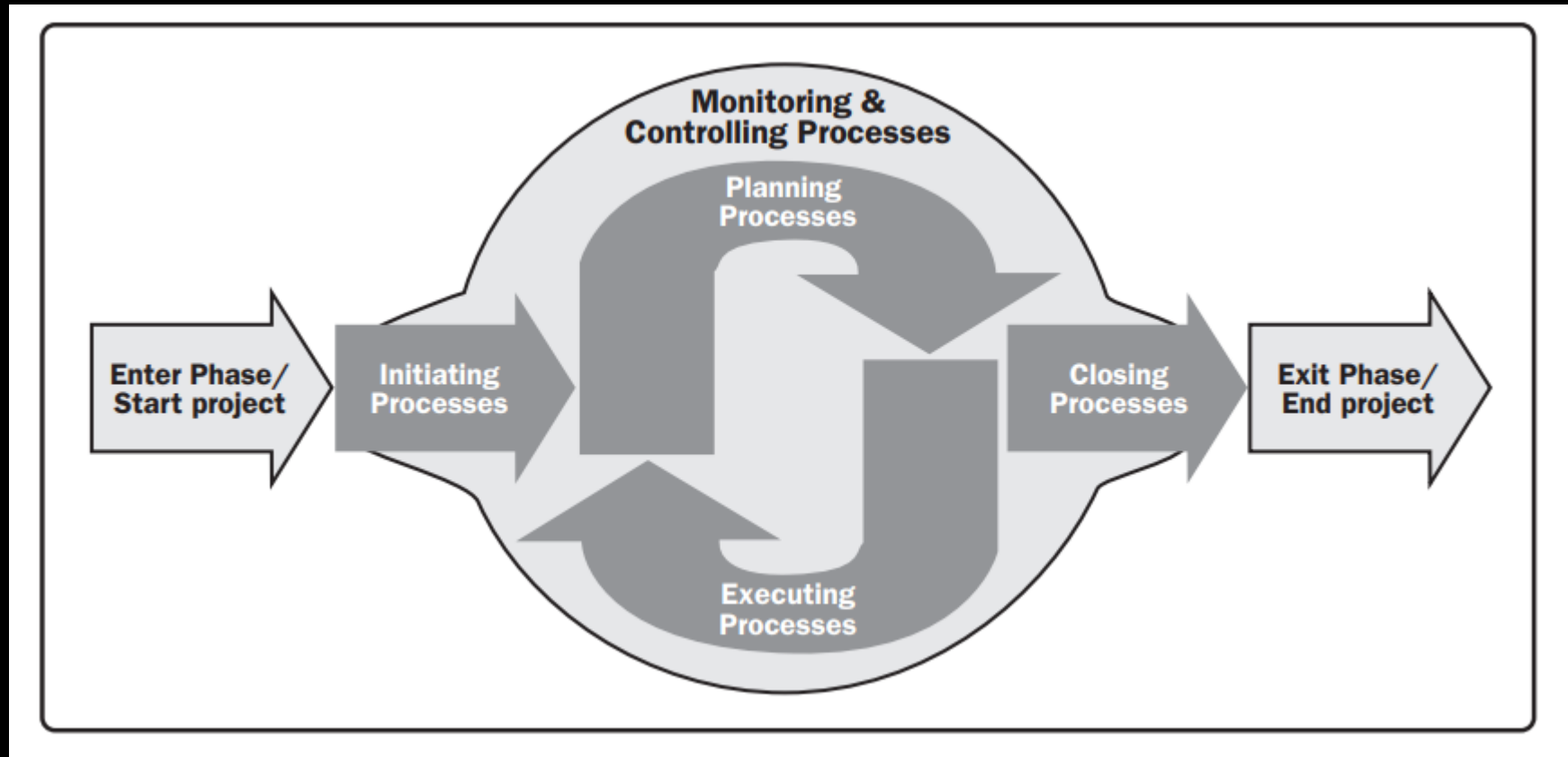
Facilitating Knowledge Areas



- Human Resource Management
 - Communication Management
 - Risk Management
 - Procurement Management
 - Integration Management
- 



Project Management Process Groups



Project Integration Management

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

Project Integration Management Processes

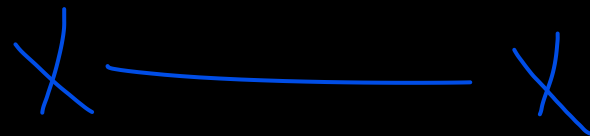
- Develop **Project Charter**—The process of developing a document that formally authorizes the existence of a project and provides the project manager with the authority to apply organizational resources to project activities.
- Develop **Project Management Plan**—The process of defining, preparing, and coordinating all subsidiary plans and integrating them into a comprehensive project management plan. The project's integrated baselines and subsidiary plans may be included within the project management plan

Project Integration Management Processes

- **Direct and Manage Project Work**—The process of leading and performing the work defined in the project management plan and implementing approved changes to achieve the project's objectives
- **Monitor and Control Project Work**—The process of tracking, reviewing, and reporting project progress against the performance objectives defined in the project management plan.

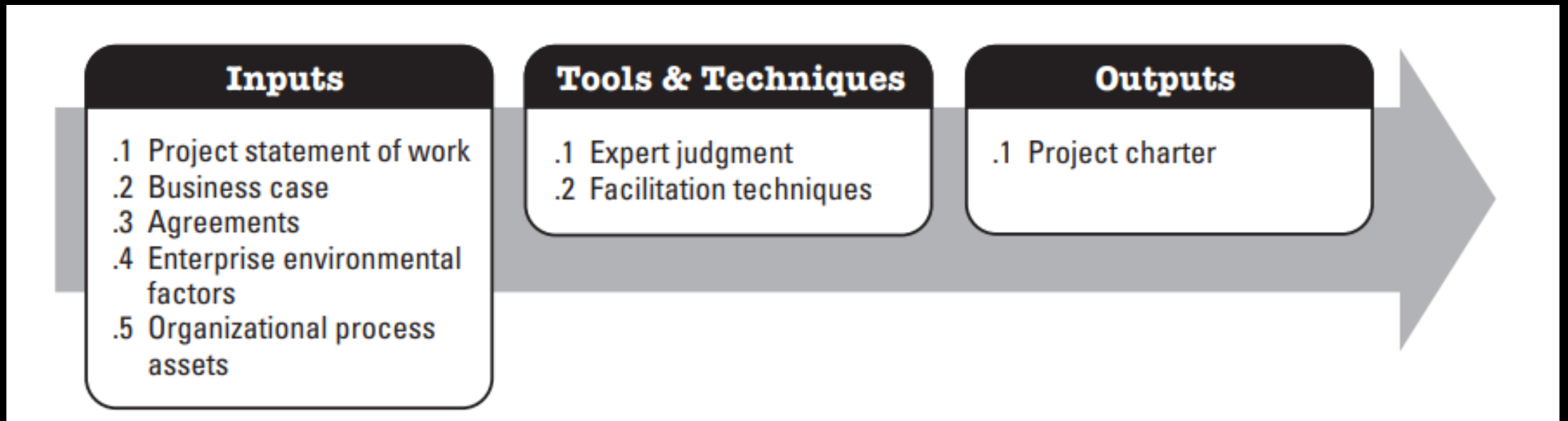
Project Integration Management Processes

- **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; and communicating their disposition.
- **Close Project or Phase**—The process of finalizing all activities across all of the Project Management Process Groups to formally complete the phase or project.



Developing A Project Charter

- Developing a document that formally authorizes the existence of a project and provides project manager with the authority to apply organizational resources to project activities.



Sample Project Charter

The project will provide a cutting edge software solution to our sales team to provide excellent customer service for our customers so that all customer issues can be solved within 24 hours of lodging of a complaint.

Lab Task

- Assume any one small software project e.g. Online Website, Mobile Application or any other management information system.
- Write the main objectives of the project and develop a formal Project Charter for your project. (Ms. Word Format)