#### **Project Planning and Control Methods**

Lecture #3

## Project Integration Management (Initiating and Planning)

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#### **Outline**

Introduction

Initial step: Develop project charter

#### Introduction

- Project Integration Management includes the processes and activities needed to identify, define, combine, unify, and coordinate the various processes and project management activities within the Project Management Process Groups.
- Different project areas of knowledge interact with each other. Examples:
  - Risks identified affect contingency cost and project time
  - Any changes made to the project scope necessitate revised project risk plan, project cost and project time
  - Any updates in the quality inspection plan affects project scope
  - A revised project human resource structure can affect project communication plan

#### Introduction

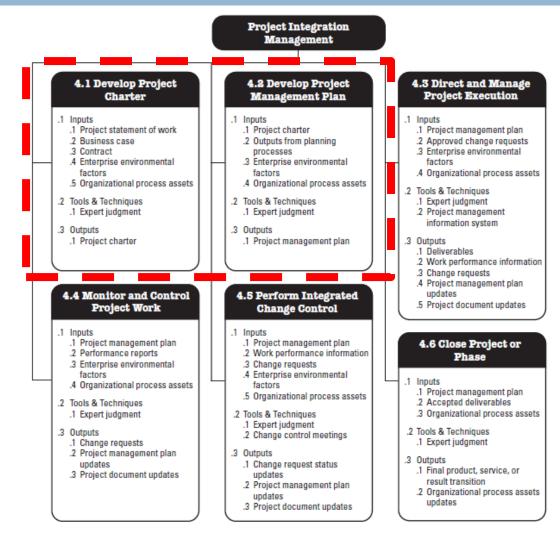
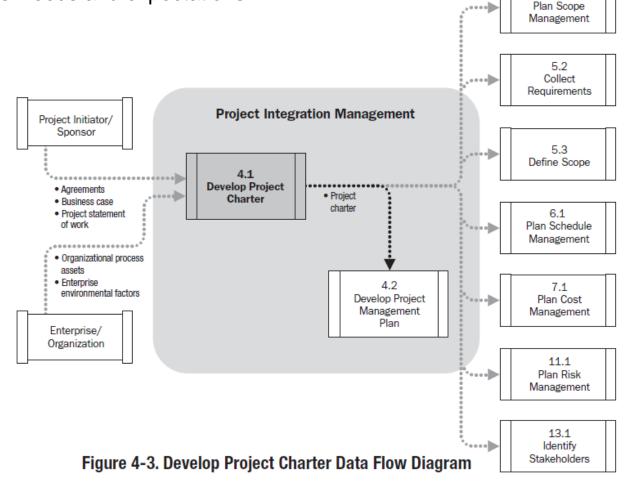


Figure 4-1. Project Integration Management Overview

## Initial step: Develop project charter

A document that formally authorizes a project or a phase and outlines the requirements
 that satisfy the stakeholders' needs and expectations.

- Development of project
   charter is the first step after
   project approval (e.g., contract
   is signed for external projects)
- At the initial stage we are going to have a top-bottomView to the project!



## Initial step: Develop project charter

- Project charter outputs:
  - 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,
- Example 1, 2, 3, 4, and 5 (these are some actual examples, not necessarily ideal ones)

## Initial step: Develop project charter



- A) Among 5 different PM processes where does project charter stand?
- **B)** We are defining an internal project inside the organization, do we need a project charter?
- **C)** We have a contract with a client which included all aspects of the project, do we need a project charter?

## Home assignment – project charter

Consider an MSc. thesis as a project. At the initial stage you are going to have a high level view to your project and prepare a *project charter* for it. If you already have determined your project title, consider it for developing your project charter. If you do not have a title, pick an arbitrary one including (but not limited to):

- Impacts of main project stakeholders on underground train projects
- Sustainability in construction projects
- Project management applications in construction
- Safety management impacts on construction projects

(Due in one week)

- The project management plan
  (PMP) is a document reflecting
  highlights of all project plans in
  different areas (e.g., scope, time
  plan, cost plan)
- Project management plan
  development is our main tool to
  assess integration and
  consistency of different plans
  prepared in different areas of
  knowledge by different project
  specialist.

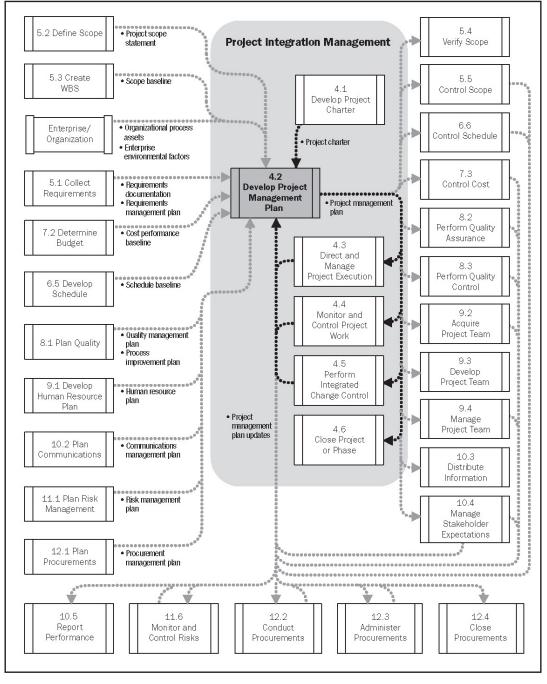
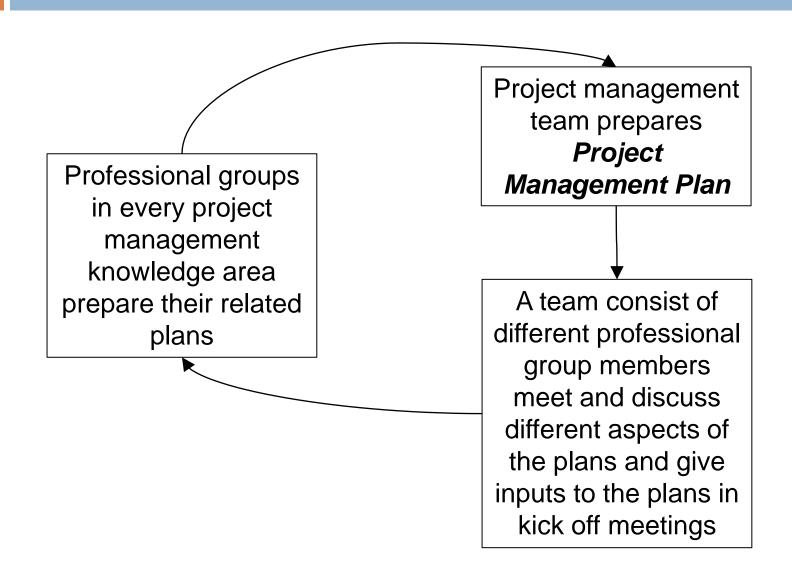


Figure 4-5. Develop Project Management Plan Data Flow Diagram

- Documenting the actions necessary to define, prepare, integrate, and coordinate all subsidiary plans.
- The project management plan is developed through a series of integrated processes until *project closure*.
- Based on the project size and complexity the project management plan can be either summary level or detailed, and can be composed of one or more subsidiary plans.
- Kick off meeting where different project's team members involved in different project's aspects sit and discuss their plans before project execution (implementation) begins and after or during developing subsidiary plans is a useful tool for developing project management plan

- We are going to make sure no subsidiary plan contradicts to the others, examples:
  - All procurement material can be purchased in the marker and all outsourcings can be done (there are sub-contractors to provide the!) as per scope plan!
  - All scheduled procurement are doable within time frame considered
  - Quality and safety plans stay within the budget planned
  - All vendors and sub-contractors have quality and safety certifications
     required by the owner as per determined in stakeholder management plan!
  - Are all owner's time and budget limitations included in the schedule and budget plans



- Project management plan may consists of: (Example 1, 2 and 3)
  - Project baselines:
    - Schedule baseline
    - Cost performance baseline
    - Scope baseline
  - Subsidiary plans:
    - Scope management plan (introduction to Chapter 5),
    - Requirements management plan (Section 5.1.3.2),
    - Schedule management plan (introduction to Chapter 6),
    - Cost management plan (introduction to Chapter 7),
    - Quality management plan (Section 8.1.3.1),
    - Process improvement plan (Section 8.1.3.4),
    - Human resource plan (Section 9.1.3.1),
    - Communications management plan (Section 10.2.3.1),
    - Risk management plan (Section 11.1.3.1), and
    - Procurement management plan (Section 12.1.3.1).
    - Stakeholder management plan (Section 13.2.3.1)

#### Reference

 PMI (2013) "A Guide to the Project Management Body of Knowledge" Project Management Institute, Inc: Pennsylvania 19073-3299 USA, Chapter 4.

## Thank you!