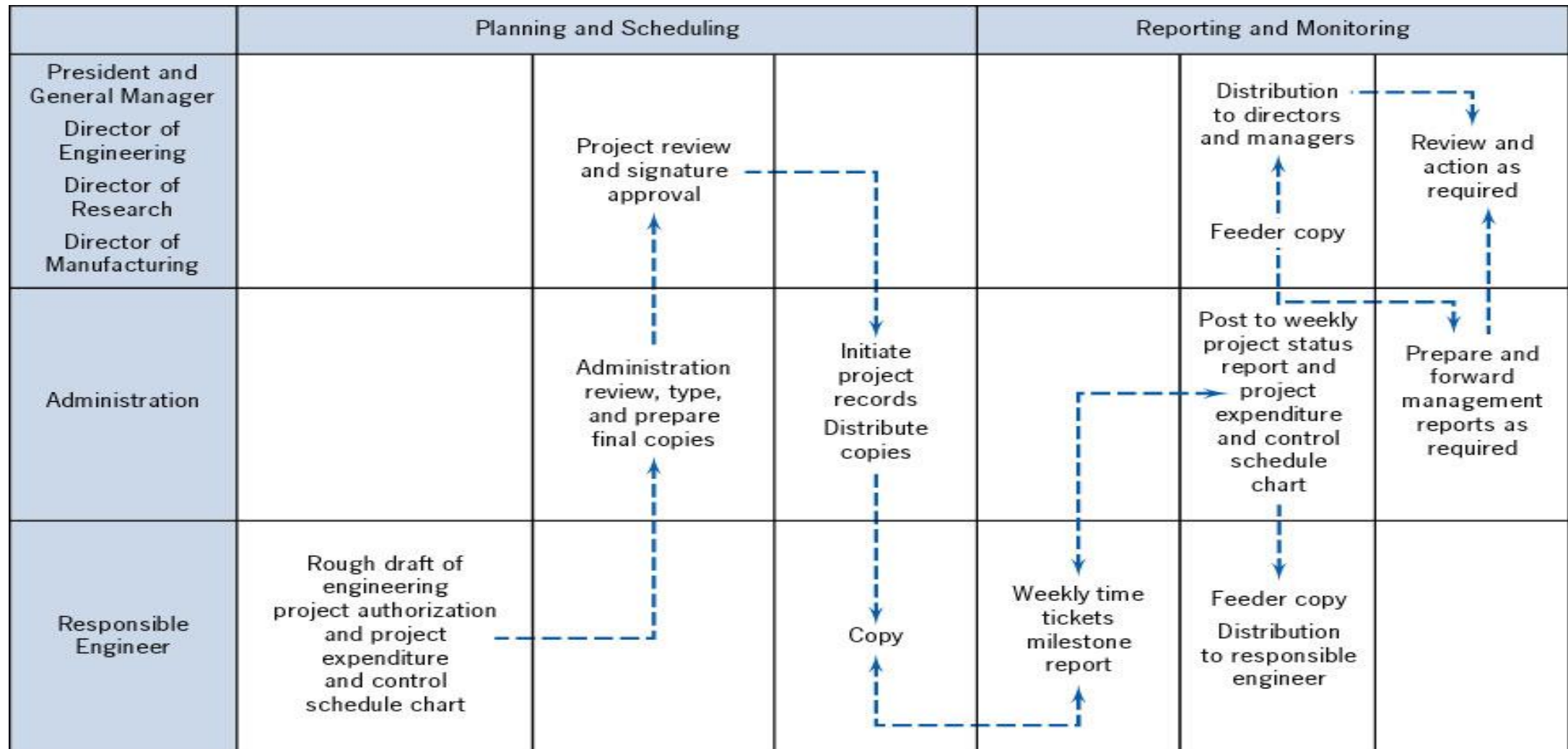


Monitoring and Controlling Projects

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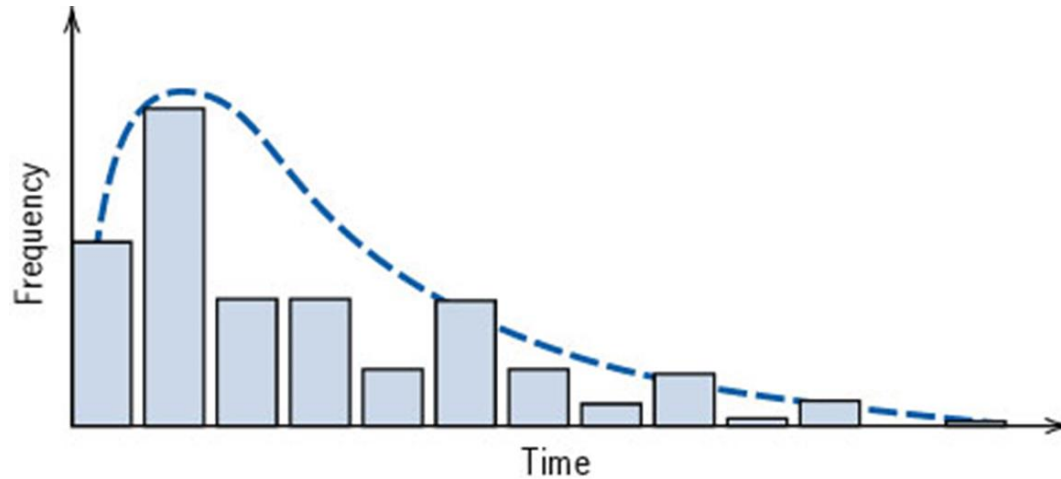
Plan-Monitor-Control Cycle



Designing the Monitoring System

- Identify special characteristics of scope, cost and time that need to be controlled
- Real time data must be identified
- Mechanisms to gather and store data must be designed
- Tracking Gantt Chart and Original Gantt Chart
- Earned Value Charts
- Critical Chain software packages

Data Collection and Analysis



Data Collection

- Frequency Counts
- Raw numbers
- Subjective number ratings
- Indicators and surrogates
- Verbal characterizations

Analysis

- Simple aggregation of data
- Averaging
- Statistical Distribution Function



Reporting and Report Types

- Time and Cost Reports
- Status Reports
- Progress Reports

Benefits of Reports

1. Provide mutual understanding between stakeholders
2. They help communicate need for coordination between those working on tasks and subtasks
3. Keeps the project team motivated



Meetings

- Importance of Project Review Meetings
- Virtual Meetings
- Virtual Project Teams

Project Controlling

- It is needed to bring performance, schedule, cost in line with plan
- Aims to ensure that project is in compliance with its objectives

Purpose of Control

- Stewardship of organization and client's physical, human and financial assets
- Proper use of assets

More of Control Systems

Components-

- Sensor
- Standard
- Comparator
- Decision maker
- Effector

Types-

- Go/no-go Control System
- Post control System

Case Study: Project Management case study: Philippine Election Data Breach

- In 2016, Philippines faced a huge Election Data breach.
- Personal information, including fingerprint data and passport information, belonging to around 70 million people is said to have been compromised by hackers.
- The Philippine Commission on the Elections (Comelec) saw its website defaced at the end of March.
- A second hacker group called LulzSec Philippines is believed to have posted Comelec's entire database online several days later.
- The entire database of 340GB of Comelec was leaked online.
- The healthcare and education industries were the most affected by data breaches, according to Trend Micro. Government agencies were the third biggest sector, followed by retail and financial industries.

What actually happened?



LATE DELIVERY AND A LACK OF ANY TRAINING ON HOW AND WHY TO USE PCOS.

PCOS MACHINES DID NOT HAVE INTERNAL DIGITAL SIGNATURES.



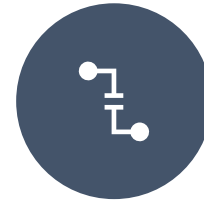
THE ATTACKERS SUCCESSFULLY ATTACHED A MALICIOUS CODE IN THE WEBSITE LEADING TO IT GOING DOWN.



THERE WERE NOT ENOUGH PCOS MACHINES FOR USE DURING THE TRAININGS, SO MANY TRAININGS WERE CONDUCTED WITHOUT HANDS-ON EXERCISE.



DATA STORED ON THE WEBSITE WAS NOT SECURED ENOUGH WHICH LEAD TO DDOS AND PHISHING ATTACKS.



LEVELS OF AUTHENTICATION WASN'T PROVIDED WITH ALL THE DATA STORED AT ONE PLACE.



THE DATA EXPOSED NOT ONLY INCLUDE PUBLICLY AVAILABLE INFORMATION, BUT ALSO VOTER DATA, VOTER REGISTRATION DATA, AND DATABASES RELEVANT TO THE FUNCTIONALITY OF THE WEBSITE.

Monitoring and Control Measures

