Solution Manual for Project Management Analytics A Data Driven Approach to Making Rational and Effective Project Decisions 1st Edition Singh 0134189949 9780134189949

Chapter 2
Data-Driven Decision-Making

Case Study Questions

1. What data analytics tools did Rick Albany use to capture and analyze the data in this case?

   Brainstorming

   Affinity diagram

   Fishbone diagram

   Pareto chart

2. What is fishbone analysis? How does it help in decision-making?

   The fishbone diagram (also known as a cause-and-effect diagram or Ishikawa diagram) is used to help identify various causes that lead to certain effects. It is called fishbone diagram due to its shape.

3. How effective was data-driven decision-making in this case?

Very effective; KC started observing the positive results with a month after the action plan was implemented. After one year of the plan implementation, the annual staff turnover rate dropped from average 52.7% to merely 8.6%, an 83.68% improvement.

Chapter Review and Discussion Questions

1. Define data-driven decision-making.

   See "Data-Driven Decision-Making" page 31

2. List some of key decisions made during the project life cycle.

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To undertake the project

To move forward from one stage of the PLC to the next

To hire or not hire a project human resource

To buy or build

To select the best supplier from multiple alternatives

To approve or reject a project risk

To approve or reject a change request

To accept or reject a deliverable

3. What is meant by the term analysis paralysis?

   See "Analysis Paralysis" on page 28

4. What are the advantages of using data-driven decision-making in project management?

   See "Importance of Decisive Project Managers" on page 28

5. What methodologies or approaches can be used to automate and manage the process of decision-making?

   See "Automation and Management of the Decision-Making Process" on page 30

6. What is the difference between predictive and prescriptive analytics? *Page 31*

7. What is meant by garbage in, garbage out?

   See "Garbage In, Garbage Out" on page 34

8. Define pragmatism.

   See "Pragmatism" on page 27

9. What are typical steps in a data-driven decision making process?

See "Data-Driven Decision-Making" on page 31

10. Discuss some challenges associated with the data-driven decision-making process.

See "Data-Driven Decision-Making Process Challenges" on page 33