

ASSIGNMENT 1

Google Headquarters Project **London, UK**

Course: BA (Hons) Business Management

Module Code: LCBB5005

Module Name: Project Management

Level 5 Term 3 - Weekend

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UWTSD - London

December 2023

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Introduction

This paper assesses the core elements of the project management dynamics of this monumental project by evaluating the project's budget management, time scheduling, quality standards, stakeholder engagement dynamics, and proactive mitigation of potential risk factors. Further, the paper shall offer an in-depth analysis to illuminate the project plan's effectiveness and provide valuable insights for project managers and stakeholders involved in similar ventures.

The inauguration of the first Google-owned and designed building outside the US in King's Cross London is a massive venture that allows the company to adapt space for its future needs. This extensive project will see the new state-of-the-art London headquarters occupying 1 million square feet, with Google offices occupying 65% of the total space. The celebrated architectural firms spearheading this visionary project are Heatherwick Studio, BIG (Bjarke Ingels Group), and BDP, who bring their creative acumen on board (Gillespies, 2023). A notable facet of this project is the innovative rooftop garden that portrays a natural theme utilising materials sourced through Google's material programme. The naturalistic rooftop adds a unique sustainability aspect to the building's design and underscores Google's commitment to sustainable green economies (Goodman and Powles, 2019). Anticipated to redefine workspace design, this project holds the promise of becoming a game-changer, not only for Google but also for the broader urban landscape. The introduction of such a cutting-edge workspace has far-reaching implications, contributing significantly to the growth of the Knowledge Quarter—a hub of innovation, research, and culture—and enhancing the knowledge-based economy of King's Cross.

Project Overview

The Google Headquarters Project in King's Cross, London, represents a remarkable workplace design and functionality leap, offering unique amenities that enhance the employee experience. Located strategically between King's Cross and St Pancras railway stations, the project is aptly called the "landscaper" for its sprawling, horizontal design (Patridge, 2022). Many facilities are available, such as a 25-metre pool, a multi-use games area (MUGA) for sports fans, and an amazing rooftop garden that runs the length of the building and is dotted with 250 trees and other vegetation (Hern, 2017). The rooftop garden is thoughtfully themed into plateau, gardens, and fields, featuring a 200-metre-long trim trail.

Further, the building boasts an unconventional feature in its structural design. Four-fifths of the structure is suspended from its steel frame, thus creating a spacious, open-plan interior that encourages collaboration and interaction amongst Google employees. Moreover, a continuous suspended staircase runs throughout the building, promoting spontaneous collaboration, mutual trust, and friendship among the company's different teams.

Methodology

The PRINCE2 (PProjects IN Controlled Environments) methodology is a structured approach to project management widely used in various industries and known for its flexibility and scalability (Office of Government Commerce, 2002). PRINCE2 follows seven principles and seven themes that guide the project management process. Practices such as continued business justification, learning from experience, and managing by stages align well with Google's approach to innovation, sustainability, and quality (Barker, 2013). Themes such as business case, quality, risk, and stakeholder management closely resonate with the critical aspects highlighted in the Google project plan (Vaníčková, 2017). The project's complexity, involving architectural design, construction, and sustainability initiatives, aligns well with PRINCE2's stage-based approach (Al Freidi, 2014). Google's commitment to sustainability, employee well-being, and creating a state-of-the-art workspace also reflects PRINCE2's focus on ensuring project outcomes align with business objectives. In addition, the methodology has a robust risk management framework that involves continuous risk assessment and mitigation (Bentley, 2012). This aligns seamlessly with the identified risk factors in the Google project, such as complexity in design, logistical challenges, cost overruns, and timeline adherence. Given the diverse stakeholders involved in the Google project, including local communities, city authorities, and employees, PRINCE2's stakeholder management approach would ensure their expectations are considered and addressed throughout the project (Office of Government Commerce, 2002). In a project of this scale, where

coordination among various parties is crucial, having defined roles and responsibilities would ensure accountability and streamline decision-making. Therefore, PRINCE2's structured yet flexible approach, focus on business justification, risk management, stakeholder engagement, and continual improvement align well with the intricacies and objectives of the Google Headquarters project in King's Cross, London.

Project Management Life Cycle

This section shall delve into how the five-core project management life cycle components apply to Google's massive undertaking.

Initiation

The inception stage of any project is referred to as the initiation phase and is often the stage where the feasibility and overall scope of the project are determined (Nicholas and Steyn, 2020). The need for a new headquarters, the feasibility of constructing a building of such a size, and the determination of high-level objectives are all critical in commencing the initiation stage of the project (Kerzner, 2019). Like any other project of this magnitude, this stage also includes a project charter development, which highlights the key stakeholders and outlines their roles and responsibilities.

Planning

Meticulous planning is a crucial cycle in project management, especially for a venture as detailed as the London Google Headquarters project. This cycle involves the development of a detailed project plan that involves crafting a comprehensive project schedule, budget, and risk assessment (Armenia et al., 2019). Incorporating a detailed plan ensures that the constituent elements are meticulously planned out.

Execution

Actual implementation of a project plan often takes place during the execution phase. In the context of the London Google Headquarters project, the execution phase involves the physical construction process. This phase denotes the moment when the conceptual design is translated into a tangible structure, bringing the momentous project to life (Kharisov et al., 2022). Moreover, the execution cycle involves the collaboration between the key stakeholders of the project, including architects, engineers, construction teams, and project managers. Complex as the execution phase of a project may be, its implementation becomes considerably simpler and less distressing when a comprehensive Project Execution Plan (PEP) is in place. The implementation stage employs the PDCA (Plan, Do, Check, Act) framework intends to enhance organisational

processes and aid in the elimination of recurring errors. The Plan-do-check cycle is a critical element, which assumes continuous improvement. The four stages of the cycle are illustrated in Figure 1, below:

Figure 1: The Plan-Do-Check-Act Cycle

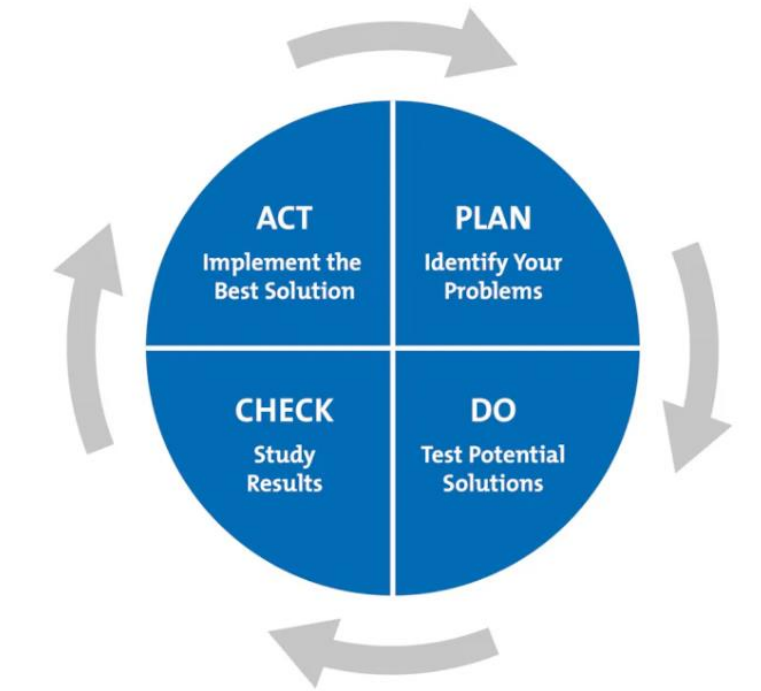


Image source: [mindtools.com](https://www.mindtools.com)

Monitoring and Controlling

Monitoring and controlling are continuous processes throughout a project lifecycle and involve comprehensive oversight, ensuring the project stays on track as stipulated in the project plan (Kliem and Ludin, 2019). As construction progresses, constant evaluation and adjustments are necessary to ascertain quality control and manage potential risks (Erdogan, Šaparauskas, and Turskis, 2019). This cycle also involves the monitoring of key performance indicators that influence corrective actions where deviations are detected.

Closure

In the context of the Google London Headquarters project, the closure phase denotes the conclusion of the project, which commences when the building is ready for occupancy, estimated to be in 2024. This phase shall involve final inspections, handover to Google, and a post-project evaluation ascertaining that all the project's objectives were realised. Moreover, this is the cycle that denotes the official completion of the project and allows all stakeholders to critically reflect on the project's success and the lessons garnered.

Budget Evaluation

Google's £1 billion budget is substantial and reflects the vastness of the building, including the addition of unique features like the expansive rooftop garden (Partridge, 2022). Thus, this section assesses the intricacies of budget management, evaluates the initial budget, explores any budgetary alterations, and dissects their implications on the project's overall quality and progress.

Initial Budget

Google's initial £1 billion budget for the Google Headquarters Project reflects its grand vision. Given the vastness of the project plan, the project commands significant financial resources to enable the construction of the 1 million square feet building, complete with a 25-metre swimming pool, a rooftop garden, and other agglomerated features requiring great financial commitment (Hern, 2017). The requirements and initial budget allocation reflect Google's commitment to quality, sustainability, and a world-class working environment.

Budget Changes

Projects of this scale and magnitude often exhibit inevitable changes throughout their life cycles. Factors like evolving design requirements, unmitigated challenges during construction, and ad hoc adjustments to meet sustainability goals all contribute to the possibility of budget modifications (Musarat, Alaloul, and Liew, 2021). The Google Headquarters Project is not excluded from this dynamic and should expect different factors that could alter their forecasted budgets during the life cycle of the project.

Impact on Project's Progress

Effective budget management is crucial to the project's progress. An initial budget that aligns with the project's requirements is essential for ensuring a seamless flow of construction activities (Del Pico, 2023). In the context of the Google Headquarters Project, any budget changes must be carefully integrated into the project plan to avoid delays and disruptions.

Impact on Project Quality

The budget of the Google Headquarters Project plays a direct role in determining the quality of the outcome. The inclusion of innovative features like the rooftop garden and the commitment to sustainability can significantly enhance the quality of the workspace. However, inadequate budget allocation can undermine these goals, potentially resulting in suboptimal construction materials or limited resources for sustainability measures (Dandan et al., 2020). In contrast, an ample budget allows for premium materials, advanced construction techniques, and a high level of attention to detail, ultimately contributing to a superior end product.

Time Management

Time management holds paramount importance in large-scale projects like Google Headquarters. Delays in any aspect can have cascading effects on the overall schedule, leading to increased costs and potential disruption to operations (Moradi and Shadrokh, 2019). In the case of the Google Headquarters Project, adherence to stipulated timelines showcases the company's commitment to fostering a sense of stability and advancement in the company's operations.

The project's timeline and schedule are noteworthy elements, considering its colossal size and complexity. The project commenced in 2017, and the initial completion target was set to 2024. Given the complexities of coordinating multiple stakeholders, including architects, designers, engineers, and construction teams, adhering to the planned timeline is no small feat. Notably, based on the progress of the project so far, Google remains confident about moving into the new headquarters in 2024 (Stanitsas, Kirytopoulos, and Leopoulos, 2021). This confidence indicates that the project, while substantial, has generally adhered to its anticipated schedule despite the several years spent in the planning and construction phases.

Moreover, time management plays a crucial role in cost control since construction delays can result in additional expenses, including labour costs and material procurement. Time management also directly impacts revenue generation, as the new facility will be operational once construction is complete (Rashid, 2020). Even so, the Google Headquarters Project has made commendable progress in adhering to its timeline, underscoring the significance of time management in the success of large-scale projects.

Quality Standards and Stakeholder Management

The King's Cross London Google Headquarters project is a beacon of high-quality standards in design and construction. Google's main vision for this innovative workspace demonstrates the practicality of combining aesthetics with functionality, both aimed at ensuring sustainability and employee well-being. Further, the multifaceted nature of the project's quality standards involves a rigorous approach to the building's design aimed at creating a blend of environmental sustainability and modern infrastructure. Notably, Google's commitment to sustainable architecture demonstrates the company's immense environmental consciousness through its healthy materials programme (Goodman and Powles, 2019). Moreover, the project's innovative facets, like the interior open-plan spaces and rooftop garden, indicate its high-quality design and functionality.

In addition, as Lehtinen and Aaltonen (2020) discover, stakeholder management remains

a fundamental aspect of a project's success. In Google's context, various stakeholders, including local communities, the City of London, and Google employees, are continuously engaged in the project to ensure their expectations of the project quality are realised and exceeded. Further, as Pedrini and Ferri (2019) advance, providing community spaces supporting local businesses through exclusive retail units demonstrates Google's commitment to social responsibility. Thus, by ensuring quality management and stakeholder engagement, Google fosters a vibrant and productive work environment in the future and amplifies its reputation as an environmentally conscious and socially responsible organisation.

Risk Factors

The Google Headquarters project, while ambitious and groundbreaking, is not without its inherent risk factors that could impact its successful completion. One likely risk factor is the project's complexity. As Siraj and Fayek (2019) argue, the innovative structural approach that contributes to the project's complexity poses inherent risks, such as increased time and budget constraints.

Further, the project's location presents logistical challenges since it is currently wedged between two major railway stations. These challenges present the company's need to comprehensively plan to avoid disrupting railway services and the transportation system in the area while still ensuring efficient logistics to the construction site.

Moreover, cost overruns remain an active risk given the unforeseen expenses the elaborate design poses. The major challenge lies in managing expenditures while maintaining the project's high standards (Annamalaisami and Kuppuswamy, 2021). Further, timeline adherence is another key risk factor that unforeseen circumstances like adverse weather or supply chain disruptions can exacerbate.

A Probable Risk Register

The below register outlines the identified risks, their potential impacts, likelihood, severity, and proposed mitigation plans for the Google Headquarters project in King's Cross, London.

Risk Factor: Complexity of Innovative Design

Description: The innovative structural design may lead to increased project complexity, impacting time and budget.

Potential Impact:

Delays in project timeline.

Increased resource allocation affecting the budget.

Likelihood: High

Severity: High

Mitigation Plan:

Continuous monitoring by an experienced project team (Rowe, 2020).

Regular risk assessment and adaptation of project plans.

Risk Factor: Logistical Challenges due to Location

Description: The project site's proximity to major railway stations poses logistical challenges affecting transportation and service disruptions.

Potential Impact:

Disruption of railway services.

Transportation system inefficiencies affecting material delivery.

Likelihood: Moderate

Severity: High

Mitigation Plan:

Collaborative planning with transportation authorities.

Detailed scheduling to minimise disruptions.

Risk Factor: Cost Overruns

Description: Unforeseen expenses due to the elaborate design may exceed the budgetary constraints.

Potential Impact:

Budget constraints affecting project scope or quality.

Compromised project completion.

Likelihood: High

Severity: High

Mitigation Plan:

Regular financial audits and strict budget control.

Constant value engineering to align with budget constraints.

Risk Factor: Timeline Adherence

Description: Unforeseen circumstances like adverse weather or supply chain disruptions could affect project timelines.

Potential Impact:

Delay in project completion

Compromise in quality due to rushed work.

Likelihood: Moderate

Severity: High

Mitigation Plan:

Contingency planning for adverse weather or supply chain disruptions.

Flexibility in project scheduling to accommodate unexpected delays.

The Project's Plan Evaluation

The project plan for the London Google Headquarters project exemplifies a comprehensive and well-structured approach across its key phases: initiation, planning, execution, monitoring and controlling, and closure. The plan's emphasis on meticulous planning, stakeholder collaboration (architects, engineers, and project managers), continual monitoring, and adherence to the objectives demonstrates a strategic and adaptable framework. The budget's alignment with project requirements underscores a commitment to quality and innovation. Overall, the project plan embodies a thorough methodology essential for managing a venture of such magnitude effectively.

Conclusion

In conclusion, this paper examines the central aspects of project management by analysing the budget, timeline, quality standards, stakeholder management, and risk factors of the Google Headquarters project. Comprehensive project management is essential for completing a project of this scale. It entails a systematic approach to planning, executing, monitoring, and concluding the project in time to effectively achieve the established objectives.

The meticulous planning that went into the project's financial management was made clear by the analysis of the budget for the project. Despite the substantial investment, budget management has been undertaken proficiently, which reflects a keen understanding of resource allocation and financial responsibility. It is recommended that continued vigilance be exercised in budgetary control, and a focus be placed on maximising cost-effectiveness to improve project management further. Time management, another essential component, has also been observed in the project. It is commendable that the timelines have been met since it demonstrates the effectiveness of the project. It is of the utmost importance that the overseers of the project uphold this discipline throughout the remainder of the phases and adjust as appropriately as possible to any remaining obstacles.

The project's unwavering dedication to quality, evident through environmentally friendly materials and a design that appreciates the future, highlights how important it is to establish and uphold stringent quality standards. The forward-thinking undertaking is being led by the renowned architectural firms Heatherwick Studio, BIG (Bjarke Ingels Group), and BDP, all of which contribute to the project's success. It is recommended that a continuous focus on quality assurance and control be maintained throughout the project's lifecycle. Such a consideration will ensure that the final product follows the rigorous standards set by Google.

In addition, the participation of stakeholders is a crucial factor in successfully navigating the different influences associated with this project. Regular engagement with stakeholders and a communication strategy that is open to feedback should be a top priority to improve the outcomes. Additionally, the project demonstrates a commitment to identifying and mitigating challenges by conducting a risk assessment of potential risk factors, which reflects a robust risk management approach. The maintenance of a dynamic risk assessment process and the ability to adapt to changing conditions are two essential components that can significantly improve the project management process.

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