Publish Date

BIM Implementation Plan

Company Name

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| 8068-ORG-XX-XX-SP-X-5000 |

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| Project Information | |
| Lead Appointed Party Name | Lead Appointed Party Name |
| Company Name | Company Name |
| Company Address | Company Address |
| Originator Code | ORG |
| Client Name | Client Name |

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| --- | --- |
| Project Details | |
| Project Name | Project Name |
| Project Address | Project Address |
| Project Number | Project Number |
| Project Value | Project Value |
| Document Reference | 8068-ORG-XX-XX-SP-X-5000 |

|  |  |
| --- | --- |
| Document Status | |
| Status | Status |
| Suitability | Suitability |
| Publish Date | Publish Date |

Document Issue

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Revision | Date | Author | Checked | Approved | Revision Comments |
| *01* | *12/05/2024* | *J. Smith* | *M. Brown* | *T. Johnson* | *Initial draft completed.* |
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# Introduction

Company Name is committed to implementing a new, high quality, cost-effective, efficient quality service.

In our BIM Implementation Plan (BIP), we consider the impact of the project deliverables on the performing organisation and the beneficiaries. The BIP aims to prepare Company Name and the beneficiaries to manage the changes and accept and use the deliverables once they are delivered.

We strive for innovative solutions that will act as a catalyst for developing sustainable and cost-effective workflows that can be utilised in our projects and benefit our company and our customers.

# Goals and Objectives

Company Name wants to modernise its business by implementing BIM and digital transformation, aligning future projects with BIM industry standards, and introducing BIM retroactively into existing office procedures.

As such, Company Name strives to establish a "Digital Strategy and Framework" within its organisation. To achieve the above objectives, Company Name is looking to implement innovative solutions that can positively impact the entire organisation. The strategy shall affect not only future projects but also office procedures; BIM & Digital Transformation will assist in achieving the below objectives:

## Design

Software strategy that provides value for money and futureproofing.

Better office and operational staff engagement to inform design decisions.

Sufficient and suitable information for crucial decision milestones during tender and project delivery.

Client Name and staff consultation to ensure continuous improvement through performance monitoring and analysis.

## Build

Reduction in capital expenditure for new projects.

Safeguarding information throughout a project.

Construction and installation in line with coordinated design.

Accurate as-built asset models/drawings/O&Ms.

## Operational

Reduction in operating costs.

Improved customer and staff experience.

Improvement of current operations from a paper-based system.

Safety within operations.

Improving physical and virtual security.

Virtual training for office and operational staff.

Ability to update records with changes within the completed projects for future gain.

In addition to the objectives listed above, Company Name would like to identify, test, and deploy innovation through emerging technologies in its business to increase performance and cost reductions.

# Scope of the Services

Key features considered in the integrated digital delivery include and are not limited to the list below.

Table 1 - Company Name Scope of the Services

|  |  |  |
| --- | --- | --- |
| No | Description | Expected Date |
| 1 | **R&D:** Research and development into BIM strategies and methodologies. Looking into the latest developments in BIM for design, build and operate strategies. | Ongoing |
| 2 | **Training Strategy:** Create a targeted training strategy for each team within the organisation, to include initial training to work with new software and processes and include a strategy for future training to ensure Company Name stays up to date with the latest industry developments. | Date\* |
| 3 | **Hardware and Software Strategy:** Guide hardware and software strategies, including licensing and rollout within the organisation. Training to support transparent, open workflow that creates a common language for process workflows. | Date\* |
| 4 | **BIP:** Create a phased implementation plan for BIM in the organisation with consideration to futureproofing our processes. | Date\* |
| 5 | **Return on Investment (ROI) analysis:** Carry out an ROI analysis for implementing a holistic BIM strategy. To consider time, cost, and quality. | Date\* |
| 6 | Client Name **and Supply Chain Engagement:** Provide a strategy for Client Name and Supply Chain engagement throughout implementation to enable the organisation to understand progress to date and provide feedback. | Date\* |
| 7 | **Standards:** Where possible, BIM strategies should align with international, national and industry standards. | Date\* |
| 8 | **Cost and Quantity Estimation:** Quantities Extraction and Sequencing as per the planned construction schedule (Programme) and revised baseline schedules. | Date\* |
| 9 | **Engineering Analysis:** Functionality to explore engineering, design, and construction decisions. | Date\* |
| 10 | **Quality Assurance and Compliance:** Integrate quality assurance methods into BIM processes to provide compliance with relevant standards and design criteria. | Date\* |
| \*Provisional dates to be confirmed not later than Month Year. | | |

# BIM Strategy

The strategy for implementing BIM at Company Name in the design, construction, and administration areas is expected to be a continuation of the organisational objectives. The strategy will lay out a framework that includes recommendations and suggestions for actions taken to ensure compliance with the UK Government [Transforming Infrastructure Performance: Roadmap to 2030 requirements](https://www.gov.uk/government/publications/transforming-infrastructure-performance-roadmap-to-2030/transforming-infrastructure-performance-roadmap-to-2030#annex-b-information-management-mandate), at a minimum, within the organisation. Moreover, the strategy considers focus areas associated with the expansion rate of Company Name as per the Specification section of this BIP.

The proposed strategy and process consider the insights and lessons learned from BIM implementation and the application of BIM approaches and methodologies completed on previous projects by the team. However, the main aim is to focus on the Goals and Objectives provided in Section 2.

A data governance strategy should reflect controlled management of information and data throughout the company operation lifecycle, off-site and on-site, in a consistent, loss-free data flow that will formulate the Company Name requirements from the operational perspective.

# BIM Strategy and Organisational Objectives

The BIM strategy meets Company Name's organisational objectives and shall achieve the following goals:

Guidelines within the organisational objectives, considering the characteristics of each department within Company Name and the specific needs of each project.

Define and communicate the required measures, indicate their potentials and benefits.

Create a flexible and straightforward digital implementation plan to contain critical milestones, which makes it possible to react appropriately if any development steps need to be taken at later stages in various areas.

## Challenges

Company Name recognises the valuable opportunity BIM represents for the organisation. However, the BIM strategy should take into consideration all that could hinder the introduction of BIM. Such challenges must be identified and controlled with suitable measures. Conversely, all opportunities that may ease or accelerate the introduction of BIM must be identified, and a utilisation plan should be provided.

## Client Name and Supply Chain Engagement

While the BIM strategy is expected to meet Company Name's organisational objectives and support the organisation in achieving its strategic goals within a BIM-driven environment, it also discusses the Company Name's engagement and the involvement of the supply chain.

The presented strategy is expected to dictate a rate of implementation suitably aligned with the capabilities and capacities available in the value chain. The dialogue with Company Name's key partners should ensure all investors and project parties unambiguously stand behind and support the BIM implementation goal. The proposed BIM strategy should align strategic considerations with Client Name and the Company Name supply chain who are incentivised to participate in the implementation process.

Suggestions that will later form decisions on the deployment of different resources, the scope of measures, and methods needed for the implementation of BIM should be considered. Additionally, the BIP should address the need for third parties that supply Company Name with support in the design and engineering services, focusing on their involvement and ensuring that the challenges they might experience are considered in the overall implementation strategy.

# Outcomes and Deliverables

Company Name requires engagement with external clients through input from department heads to determine the outcomes required through its organisational structure to deliver its projects. This will cover the following departments and the information they provide:

Department Name.

Department Name.

Department Name.

It is expected that the concerned BIM documentation will be created and updated from the above engagement with the departments and stakeholders to capture the functional requirements of departments and workflows to achieve the desired outcomes. Moreover, for the above departments, clients and supply chain needs should also be considered at procurement, design, and construction stages.

Company Name wants to use BIM methodology to show evidence that it has achieved the organisational performance targets and realise potential efficiencies and return on investment (ROI). Company Name expects the BIP to contribute to the future mining of quality-assured information generated from its tenders, design, and projects to reduce risk and cost.

## Key Benefits of BIM Implementation

Information deliverables expected to be beneficial are as follows:

Key Benefit of BIM Implementation

Key Benefit of BIM Implementation

Key Benefit of BIM Implementation

Company Name has identified that with the use of Building Information Modelling (BIM) practices and Information Communication Technology (ICT), the above goals and objectives can be met. The BIP shall be updated with a detailed plan of how Company Name BIM objectives can be achieved based on evidence-based, real-world case studies and historical data.

# Specifications

## Branding

The BIP enhances Company Name's competitiveness in the market, focusing on positioning itself as a leading provider of services at affordable rates. Additionally, Company Name wishes to apply digitised processes within office processes, future projects, and a network of supply chain specialists. The BIP shall be updated to identify potential industry software solutions that can provide the required outputs to achieve Company Name's BIM objectives.

## Quantity

Company Name has # employees and # subcontractors and wants to improve the efficiency of the project delivery services by #%, with a positive effect on expected growth. For monitoring purposes, Company Name will utilise the information collected and analysed from the 0000-ORG-XX-XX-SP-X-5800 Post Appointment Assessment.

**The policy shall be reviewed within six months to establish the budget and details of the implementation.**

To bolster in-house capabilities, Company Name plans to develop a training strategy to identify individuals who require software training or BIM onboarding workshops.

## Dimensions

Company Name would like to identify, test, and deploy innovation through emerging technologies in its business to increase performance and cost reductions.

## Features

Company Name upgraded its BSI PAS 1192 accreditation and became certified in industry quality assurance, security, and BIM maturity according to BS EN ISO 19650 standards and the **UK** **BIM Framework** to demonstrate its success and capabilities. This shall not be limited to company accreditation but also include individual staff-recognised experts.

# Restrictions, Regulations, and Policies

## Restrictions and Risks

As BIM is not an absolute, definite solution to eliminate all restrictions present in Company Name's processes and workflows, BIP considers liabilities and responsibilities typical for design, construction, and contract departments and the restrictions and risks associated with them.

The BIP recognises the need to address restrictions or risks associated with the shift from an analogue process to a digital BIM workflow aligned to the **UK BIM Framework** and the **Information Management Mandate**. Company Name’s strategy includes addressing risks and restrictions associated with digitising Company Name processes, copyrights, allied title deeds, and any legal liabilities in electronic mediums.

## Policy Compliance and Regulations

The BIP to be adopted should ensure Company Name's full compliance with the UK's current BIM standards, protocols, and policies. Moreover, strategies to overcome the restrictions of BIM implementation and the risks associated with the shift from analogue to digital, innovative processes should be considered. Therefore, areas which Company Name seeks to develop its processes include, but are not limited to, the following:

Methods for aligning regulations and policies when leveraging third parties' support and commitment to BIM implementation.

A change management plan involving all concerned parties should be outlined.

Authorisation of access to information and protocols for transferring information ownership; addressing challenges associated with extending model ownership to clients.

Liability in cybersecurity.

Alignment of BIM implementation to support health and safety on projects.

Performance review criteria - both internally and externally.

# Minimum Characteristics and Expertise

Company Name seeks to develop a procurement strategy to assess the capability and capacity of potential suppliers. Company Name intends to use its BIM Implementation Strategy (BIS) to improve its assets' design, build, and operations, including fabric and equipment. Company Name would like to develop its framework further to gauge competence in the following key areas:

## Supplier Competence and Strategy Development

### Digital Process Competence and Maturity

Company Name requires a quantitative scoring method to appropriately gauge the competence of individual suppliers using a series of easy-to-understand plain language questions. Based on this scoring, a report should be generated to highlight any strengths and weaknesses. In addition, suppliers should state how they will improve these weaknesses through training and other support. We are conducting comprehensive reviews of subcontractors and suppliers across all operational divisions of the company (estimating, project management, commercial).

### IT Solutions

A series of assessment questions must be developed to determine supply chain competence for handling and delivering large amounts of data. In addition, hardware and software solutions should be suggested.

### Human Resources

The BIP should extend to discuss suppliers with relevant experience, education, certifications, and knowledge to minimise risk due to conflict of interest and potential disruption to outcomes.

### Collaboration Strategy

The BIP includes a strategy that reflects industry standards for collaboration in a multidisciplinary environment.

### Delivery Handover Strategy

The BIP outcome shall tackle how information is created, managed, and maintained from inception to handover and closeout, using a strict design, review and checking process for quality and version control to advise measurements of design completeness.

### Security (Physical, Cyber, and Human Resource)

A security strategy should be created, factoring in all areas of potential exploitation, introducing mitigation measures to protect the interests of Company Name and its stakeholders.

### Understanding of Commercial and Legal Requirements

Company Name requires a comprehensive understanding of the commercial and legal requirements when utilising BIM, including the responsibilities between supply chain members and third parties using different types of contracts.

# Vertical Integration

As a fully integrated organisation, BIM strategies and critical elements should encompass all capabilities and activities of Company Name's development from tender, design, and contract phases. Further development shall describe the readiness required for Company Name to implement BIM at the organisational level through to the functional level, including but not limited to the categories below:

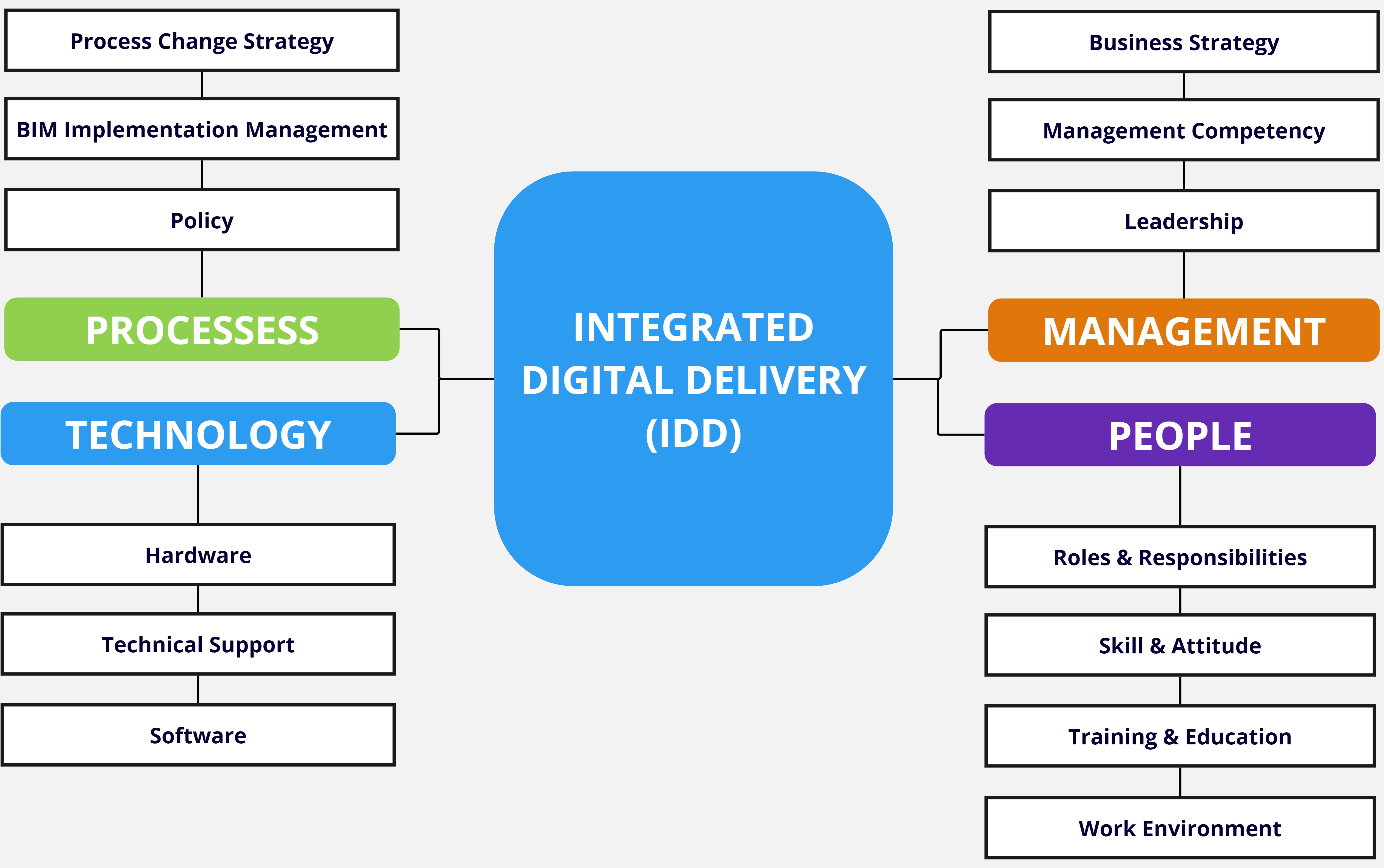


Figure 1 - Company Name Readiness Framework

BIP consider both the business and operation side of Company Name:

Developing Company Name leadership to understand BIM challenges and impacts.

A plan to propose the long-term strategy from the current form of practice to an integrated form of digital practice.

A strategy for a management plan supporting middle-level management.

Reviewing processes of activities, tools, and human resources to design new processes based on BIM implementation.

Processes to support end-user engagement such as facility management.

Providing the values, principles, and strategies that shape the business activities.

Reducing transaction costs, securing supplies or distribution channels.

Engagement with subcontractors.

# Organisational Structure

Company Name is structured as outlined in Figure 2 - Company Name Organogram. The structure highlights the different departments within the organisation. The budget for the BIM implementation strategy is to be established to prioritise the most significant benefit to the organisation through having the most considerable effect. BIP should also consider roles and responsibilities associated with the BIM implementation process and their impact on the organisational structure.

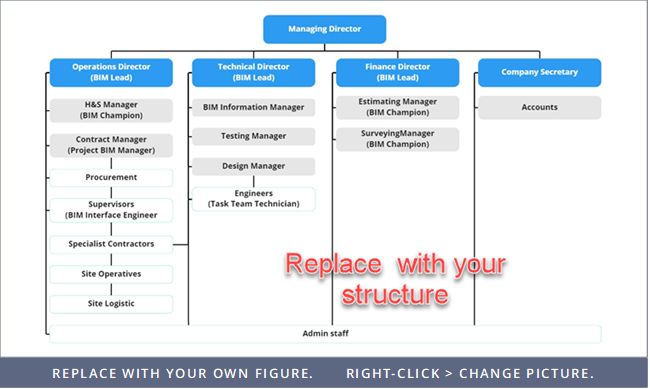


Figure 2 - Company Name Organogram

The budgets for initial implementation and development are listed below:

Initial Implementation Budget £Amount.

Ongoing BIM development Budget £Amount.

# Method and Deadline

## Stage 1

**Deadline:** Month Year

A preliminary work plan shall be developed to provide an overview of the approach used to manage services proposed in this BIP. The plan should include project management procedures and methods used to document, monitor, control, schedule, budget, and deliver quality for BIM implementation for the organisation and each department. At this stage, BIM-related tools used on projects shall be identified, together with proposed provision for additional procedures or tools for managing projects if appropriate.