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# Achieving strategic excellence in healthcare projects: Leveraging benefit realization management framework

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## Abstract

Healthcare organizations face increasing challenges in ensuring that projects align with strategic goals and deliver measurable, sustainable benefits. Traditional project management methodologies often emphasize execution but neglect the systematic tracking and sustainment of outcomes. This paper introduces the Benefit Realization Management Framework (BRMF) as a comprehensive approach to bridging this gap, integrating tools such as the Benefit Map, Benefit Profile, Benefit Register, Benefit Process Checklist, and BRM Plan, which are applied iteratively across the project lifecycle phases: Identify, Plan, Execute, and Sustain. To demonstrate its versatility, the paper presents three hypothetical case studies: Machine Learning for Chronic Disease Management, focused on reducing hospital readmissions and improving patient adherence; Electronic Health Record (EHR) Implementation for Care Coordination, aimed at enhancing interoperability and reducing documentation errors to improve patient outcomes; and Process Improvement in Patient Discharge Workflows, designed to streamline procedures and increase throughput. These case studies illustrate the BRMF's adaptability to diverse project types, from clinical innovations to technological advancements and operational improvements. The paper highlights how the BRMF ensures strategic alignment, promotes accountability, and delivers sustained value across healthcare contexts, providing actionable insights for project success. Finally, the paper discusses the implications for healthcare leadership, the importance of embedding benefit realization practices, and potential areas for future research and validation.

**Keywords:** Benefit Realization Management Framework (BRMF); Healthcare Project Management; Strategic Alignment; Machine Learning in Healthcare; Project Benefits Sustainment

## 1. Introduction

### 1.1. The Importance of Strategic Excellence in Healthcare Projects

Healthcare projects, ranging from hospital infrastructure development to the implementation of electronic health records (EHR) systems, play a pivotal role in enhancing patient outcomes and organizational efficiency. However, the complexity of these projects often challenges their successful execution. Healthcare projects typically involve diverse stakeholders, intricate workflows, and stringent regulatory requirements, which make alignment with strategic goals difficult [1]. Furthermore, the high stakes associated with healthcare projects mean that any misalignment can lead to significant financial losses, compromised patient care, or both [2].

One major challenge is ensuring that project outcomes contribute directly to the overarching objectives of healthcare organizations, such as improving quality of care, enhancing accessibility, or reducing operational costs. Often, projects are initiated with a focus on deliverables rather than long-term value creation. This disconnect results in inefficiencies, as the benefits of projects are not fully realized or sustained over time [3]. For example, an EHR implementation may improve data accessibility but fail to integrate seamlessly with clinical workflows, reducing its overall impact [4].

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The dynamic nature of the healthcare industry further complicates project alignment. Rapid technological advancements, evolving patient needs, and changing regulatory landscapes demand a strategic approach that ensures adaptability and resilience. Strategic excellence in healthcare projects is, therefore, not just desirable but essential for achieving long-term organizational success and delivering value to patients and stakeholders alike [5]. To address these challenges, the Benefit Realization Management (BRM) framework offers a structured approach that ensures projects deliver measurable and sustainable value.

## 1.2. Introduction to the Benefit Realization Management (BRM) Framework

The Benefit Realization Management (BRM) framework is a structured approach that ensures projects deliver measurable value aligned with organizational goals. Unlike traditional project management, which often prioritizes the completion of deliverables, BRM emphasizes identifying, planning, delivering, and sustaining benefits throughout the project lifecycle [6]. This focus on long-term value creation makes BRM particularly relevant to the healthcare sector, where projects must meet high expectations for quality, efficiency, and patient outcomes [7].

At its core, BRM consists of four key principles:

- **Benefits Identification:** Clearly defining the intended outcomes and their alignment with strategic objectives.
- **Benefits Planning:** Developing a roadmap for achieving these outcomes, including assigning responsibilities and timelines.
- **Benefits Delivery:** Ensuring the planned benefits are realized during project execution.
- **Benefits Sustainment:** Maintaining and enhancing realized benefits post-project completion [8].

In healthcare, BRM can address common pitfalls such as inadequate stakeholder engagement and poor integration of technology into clinical workflows. For instance, when applied to telemedicine projects, BRM ensures that the technology not only enhances accessibility but also aligns with broader organizational goals, such as improving patient satisfaction and reducing costs [9].

Furthermore, BRM fosters accountability by requiring stakeholders to evaluate benefits against predefined metrics. This continuous focus on value creation makes BRM a powerful tool for healthcare organizations striving to achieve strategic excellence [10]. With an understanding of BRM's principles and relevance, the article now explores its objectives and scope in the context of healthcare projects.

## 1.3. Objectives and Scope of the Article

This article aims to explore how the Benefit Realization Management (BRM) framework can enhance strategic alignment and value creation in healthcare projects. By addressing the unique challenges faced by healthcare organizations, the article highlights BRM's potential to bridge the gap between project execution and long-term organizational goals [11]. It provides actionable insights into the framework's principles and practical applications, offering a roadmap for healthcare leaders and project managers to optimize project outcomes.

The scope of the article includes a comprehensive analysis of BRM's implementation in healthcare projects, with a focus on identifying benefits, aligning them with strategic objectives, and sustaining them post-project. It also examines challenges in adopting BRM, such as resistance to change and limited expertise, while offering solutions to overcome these barriers [12]. Real-world case studies are presented to illustrate BRM's impact, highlighting both successes and lessons learned from failures.

The article is structured into eight sections, beginning with an introduction to BRM and its relevance to healthcare. Subsequent sections delve into BRM principles, practical applications, case studies, and the role of stakeholders, concluding with recommendations for optimizing BRM in healthcare projects. With a foundational understanding of healthcare projects and BRM, the discussion now turns to the critical role of BRM in driving strategic success.

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## 2. Understanding benefit realization management (BRM) in healthcare

### 2.1. What is Benefit Realization Management?

Benefit Realization Management (BRM) is a structured approach designed to ensure that projects deliver measurable and sustainable value aligned with organizational goals. Unlike traditional project management, which primarily focuses on completing deliverables within scope, time, and budget constraints, BRM emphasizes achieving long-term

benefits that contribute to strategic objectives [5]. This shift in focus ensures that projects are not merely executed efficiently but also provide tangible outcomes that justify their investment.

The BRM framework consists of four core components:

- **Benefits Identification:** This involves defining the intended outcomes of a project and ensuring they align with organizational goals. In healthcare, for example, a project aimed at implementing electronic health records (EHR) would identify benefits such as improved data accessibility, enhanced patient safety, and reduced administrative costs [6].
- **Benefits Planning:** Once identified, benefits are planned in detail, outlining the required resources, timelines, and accountability mechanisms. This stage ensures that all stakeholders understand their roles in achieving the desired outcomes and sets the stage for monitoring and evaluation [7].
- **Benefits Delivery:** During project execution, BRM ensures that the identified benefits are actively tracked and realized. Key performance indicators (KPIs) and real-time monitoring tools are often used to measure progress toward achieving these benefits [8].
- **Benefits Sustainment:** This final stage focuses on maintaining and enhancing the realized benefits after the project is completed. For instance, in a telemedicine project, ensuring sustained benefits may involve regular system updates, training for healthcare staff, and collecting feedback to improve service delivery [9].

Compared to traditional project management, BRM offers a more holistic approach. Traditional methods often prioritize project outputs—such as completing infrastructure or deploying technology—without adequately considering whether these outputs lead to meaningful outcomes. BRM addresses this gap by maintaining a continuous focus on value creation throughout the project lifecycle [10]. For example, a traditional approach to implementing a hospital information system might measure success by its deployment, whereas BRM evaluates whether the system improves operational efficiency and patient outcomes.

This emphasis on long-term impact makes BRM particularly relevant for healthcare, where project outcomes can directly influence patient care quality and organizational efficiency. As healthcare systems face increasing demands for accountability and cost-effectiveness, BRM provides a robust framework for aligning projects with strategic priorities [11]. With a clear understanding of BRM's components and advantages, the discussion now turns to its importance in achieving strategic alignment and stakeholder engagement in healthcare projects.

## 2.2. Importance of BRM in Healthcare Projects

The healthcare sector is characterized by its complexity, with projects often involving diverse stakeholders, intricate workflows, and high expectations for quality and efficiency. Benefit Realization Management (BRM) plays a critical role in addressing these challenges by aligning project goals with organizational strategy and driving stakeholder engagement to ensure value creation [12].

## 2.3. Aligning Project Goals with Organizational Strategy

One of BRM's primary advantages is its ability to connect project outcomes with the broader objectives of healthcare organizations. For instance, a hospital aiming to enhance patient safety may initiate multiple projects, such as implementing medication error tracking systems and improving clinical decision support tools. BRM ensures that these projects are not executed in isolation but are aligned to collectively achieve the overarching goal of reducing adverse events [13]. This alignment prevents resource wastage and maximizes the impact of investments.

Additionally, BRM promotes a clear understanding of how each project contributes to strategic priorities. By identifying specific benefits and linking them to organizational goals, BRM facilitates informed decision-making during project selection and prioritization [14]. For example, when faced with budget constraints, a hospital can use BRM to prioritize projects with the highest potential to deliver value, such as telemedicine solutions that enhance care accessibility for underserved populations [15].

## 2.4. Driving Stakeholder Engagement and Value Creation

Effective stakeholder engagement is another critical component of BRM's success. Healthcare projects often involve multiple stakeholders, including clinicians, administrators, patients, and regulators, each with distinct needs and perspectives. BRM fosters collaboration by clearly communicating the intended benefits of projects and defining each stakeholder's role in achieving these outcomes [16]. For instance, during the rollout of an EHR system, BRM ensures

that clinicians understand how the system will improve workflow efficiency, thus increasing their willingness to adopt the technology.

Furthermore, BRM emphasizes the active involvement of stakeholders throughout the project lifecycle. Regular progress updates, feedback mechanisms, and training sessions ensure that stakeholders remain engaged and committed to realizing the identified benefits [17]. This approach minimizes resistance to change and enhances the likelihood of project success.

Value creation is central to BRM's philosophy. Unlike traditional project management, which often focuses on delivering outputs, BRM prioritizes outcomes that provide measurable benefits. In healthcare, this could mean not only deploying a patient monitoring system but also ensuring that it reduces response times to critical events and improves patient outcomes [18]. This focus on tangible value reinforces accountability and builds trust among stakeholders.

BRM's importance in healthcare lies in its ability to bridge the gap between project execution and long-term strategic goals. By aligning projects with organizational priorities and fostering stakeholder collaboration, BRM ensures that healthcare projects deliver meaningful, sustainable value [19]. Having established BRM's role in strategic alignment and stakeholder engagement, the next section will explore its practical application in healthcare projects.

## **2.5. Challenges in Implementing BRM in Healthcare**

Implementing Benefit Realization Management (BRM) in healthcare projects presents unique challenges stemming from the sector's complexity and resistance to adopting new frameworks. Two primary obstacles are organizational resistance to change and limited expertise in BRM methodologies.

## **2.6. Organizational Resistance to Change**

Healthcare organizations often encounter resistance when introducing new methodologies like BRM. This resistance typically arises from a combination of cultural, structural, and operational factors [8]. Healthcare systems, especially large hospitals and networks, are traditionally hierarchical, with established workflows and decision-making processes. Employees, particularly clinicians and administrative staff, may perceive BRM as an additional bureaucratic layer, increasing workloads without immediate benefits [9].

Furthermore, the transition to BRM often requires reallocating resources, revising workflows, and redefining accountability structures. These changes can create uncertainty among staff, leading to reluctance in adopting the new framework [10]. For instance, clinicians may hesitate to participate in BRM-driven initiatives if they feel it disrupts patient care or adds administrative burdens.

To address this challenge, organizations must foster a culture of change by emphasizing the long-term value of BRM. Clear communication about how BRM aligns with organizational goals, coupled with strong leadership support, can help reduce resistance. Providing incentives, such as recognition or performance-based rewards, further motivates staff to engage with the framework [11].

## **2.7. Limited Expertise in BRM Methodologies**

Another significant challenge is the limited expertise in BRM methodologies among healthcare professionals. Many healthcare project managers and leaders are trained in traditional project management techniques, which focus on completing deliverables within time and budget constraints rather than achieving long-term strategic goals [12]. This knowledge gap can hinder the effective implementation of BRM.

Additionally, healthcare projects often involve diverse teams with varying levels of familiarity with BRM principles. For instance, clinical staff may lack exposure to the structured planning and evaluation processes central to BRM, while IT teams may prioritize technical deliverables over sustained benefits [13].

To overcome this challenge, healthcare organizations must invest in capacity-building initiatives. Training programs tailored to different stakeholder groups can equip teams with the skills and knowledge needed to implement BRM effectively. Collaborating with external experts or consultants who specialize in BRM can also accelerate its adoption and ensure best practices are followed [14]. Despite these challenges, the Benefit Realization Management Framework (BRMF) addresses critical gaps in existing approaches, offering a structured solution tailored to healthcare settings.

## 2.8. Key Gaps in Existing Frameworks and Addressing the Gaps with BRMF

Existing project management frameworks often fail to adequately address the complexities of healthcare projects, leaving significant gaps that hinder the realization of long-term benefits. The Benefit Realization Management Framework (BRMF) addresses these gaps by providing a comprehensive, adaptable approach that aligns project outcomes with organizational strategy.

### 2.8.1. Key Gaps in Existing Frameworks

One major limitation of traditional project management frameworks is their focus on outputs rather than outcomes. Deliverables such as infrastructure or technology deployments are often treated as endpoints, with little consideration for whether they achieve the intended benefits [15]. For example, a hospital may implement a patient portal system, but without a focus on sustained usage and patient engagement, the project’s full value remains unrealized.

Another gap is the lack of mechanisms for continuous monitoring and benefit sustainment. Traditional frameworks often emphasize project completion without establishing processes to track benefits over time. This oversight is particularly problematic in healthcare, where sustained improvements in quality of care or operational efficiency depend on ongoing evaluation and adaptation [16].

Additionally, existing frameworks rarely prioritize stakeholder engagement beyond initial project planning phases. In healthcare, this omission can lead to a disconnect between project teams and frontline staff, reducing the effectiveness of project outcomes [17].

### 2.8.2. Addressing Gaps with BRMF

The BRMF is designed to address these shortcomings through its structured components:

- **Outcome-Oriented Focus:** BRMF shifts the emphasis from deliverables to outcomes by integrating benefits identification and planning into the project lifecycle. This ensures that projects deliver tangible value aligned with strategic goals [18]. For instance, in a telehealth implementation, BRMF ensures that the project is evaluated based on metrics such as increased patient accessibility and reduced hospital readmission rates, rather than merely deploying the technology.
- **Continuous Monitoring and Adaptation:** BRMF incorporates mechanisms for ongoing evaluation, allowing organizations to track benefits and make necessary adjustments post-project. This adaptability ensures that benefits are sustained even as external conditions or organizational priorities evolve [19]. For example, continuous feedback loops can help refine workflows in an EHR system, improving usability and clinician satisfaction over time.
- **Enhanced Stakeholder Engagement:** BRMF emphasizes active participation from all stakeholders throughout the project lifecycle. Clear communication, regular updates, and collaborative decision-making foster alignment and commitment, ensuring that projects address the needs of all parties involved [20]. For instance, involving clinicians in the planning phase of a clinical decision support system ensures that the tool integrates seamlessly into their workflows.

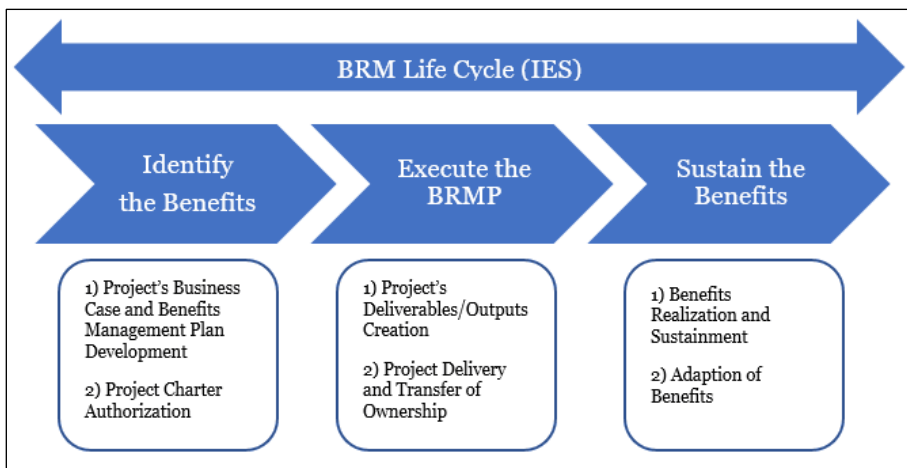


Figure 1 A Conceptual model of the Benefit Realization Management Framework [4]

With an understanding of BRMF's role in addressing key gaps, the focus now shifts to its practical application in healthcare project settings.

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### 3. Applying BRM in Healthcare Projects

#### 3.1. Benefits Identification and Planning

Benefit identification and planning form the foundation of the Benefit Realization Management Framework (BRMF), ensuring that healthcare projects align with organizational objectives and deliver measurable value. These initial steps are critical for setting clear expectations and defining actionable strategies for benefits realization.

##### 3.1.1. Techniques for Identifying Benefits in Healthcare Projects

Identifying benefits in healthcare projects involves a systematic approach to aligning project outcomes with strategic goals. Techniques such as stakeholder analysis, benefits workshops, and value mapping are commonly used to pinpoint the tangible and intangible benefits of a project [13]. For instance, in a project implementing an electronic health records (EHR) system, potential benefits might include improved patient safety, enhanced data accessibility, and reduced administrative workload [14].

Engaging stakeholders during the benefits identification process is vital to ensure that diverse perspectives are considered. Clinicians, administrators, and patients can provide insights into the challenges they face and the outcomes they value most. Collaborative brainstorming sessions can help uncover benefits that might otherwise be overlooked, such as improved staff morale or enhanced patient engagement [15].

Another effective technique is value stream mapping, which visualizes workflows and identifies areas where a project can add value. For example, mapping the patient journey in a hospital can reveal bottlenecks in care delivery that an EHR system could address, leading to faster diagnoses and treatment [16].

##### 3.1.2. Creating a Benefits Realization Plan

Once benefits are identified, the next step is to create a benefits realization plan (BRP) that outlines how these benefits will be achieved, measured, and sustained. A BRP typically includes the following components:

- **Benefits Statement:** A clear description of each benefit, including its alignment with organizational goals. For example, a telemedicine project might aim to reduce travel times for rural patients, aligning with the goal of improving healthcare accessibility [17].
- **Key Performance Indicators (KPIs):** Metrics to measure the realization of benefits. In the case of telemedicine, KPIs might include the number of remote consultations conducted and patient satisfaction scores [18].
- **Timeline:** A schedule for achieving the identified benefits, detailing short-term, medium-term, and long-term milestones.
- **Roles and Responsibilities:** Assigning accountability for delivering and monitoring benefits, ensuring that all stakeholders understand their contributions to the project's success [19].
- **Risk Management Plan:** Identifying potential obstacles to benefits realization and outlining mitigation strategies [20].

A well-crafted BRP ensures that benefits are not only clearly defined but also systematically integrated into project planning and execution. This structured approach provides a roadmap for tracking progress and maintaining focus on value creation throughout the project lifecycle. With benefits identified and a realization plan in place, the next step is to focus on executing the plan effectively, ensuring that benefits are delivered as intended.

#### 3.2. Benefits Realization during Project Execution

The execution phase of a healthcare project is where the benefits realization plan (BRP) is put into action. This phase involves continuous monitoring and adaptation to ensure that the identified benefits are delivered on time and within scope.

##### 3.2.1. Monitoring Benefits Delivery through Key Performance Indicators (KPIs)

KPIs play a crucial role in tracking the progress of benefits realization during project execution. These metrics provide measurable insights into whether the project is meeting its intended objectives. For example, in a project aimed at implementing a clinical decision support system (CDSS), KPIs might include a reduction in medication errors and

improvements in clinician decision-making accuracy [21]. Regularly reviewing KPIs helps project managers identify deviations from the plan and take corrective actions promptly [22].

Healthcare projects often utilize a mix of quantitative and qualitative KPIs. Quantitative KPIs, such as reduced patient wait times or increased operational efficiency, are easy to measure and compare against benchmarks. Qualitative KPIs, such as patient satisfaction or staff feedback, provide a deeper understanding of the project's impact on stakeholders [23]. Combining both types ensures a comprehensive evaluation of benefits realization.

### *3.2.2. Tools and Techniques for Tracking Progress in Real Time*

The use of digital tools significantly enhances the ability to monitor and track benefits during project execution. Project management software, such as Microsoft Project or Primavera, enables teams to visualize progress, manage resources, and monitor timelines effectively [24]. Dashboards with real-time data provide stakeholders with up-to-date information, facilitating informed decision-making [25].

For example, a hospital implementing an EHR system can use a dashboard to track metrics such as the percentage of staff trained, system uptime, and error rates. Alerts for anomalies, such as an unexpected increase in system downtime, allow project managers to address issues proactively [26]. Advanced analytics tools, including AI-driven platforms, can identify trends and patterns that might indicate emerging risks, enabling preemptive action [27].

Regular progress reviews, such as weekly or bi-weekly project meetings, also play an essential role in tracking benefits. These reviews provide an opportunity to compare actual progress against the BRP, discuss challenges, and refine strategies as needed [28]. Engaging stakeholders in these discussions fosters accountability and ensures alignment with the project's objectives.

### *3.2.3. Adapting to Challenges and Ensuring Benefits Delivery*

Healthcare projects often face unforeseen challenges during execution, such as changes in regulations, resource constraints, or technical issues. Adapting to these challenges is critical to maintaining the trajectory of benefits realization. For instance, if a telemedicine project encounters low patient adoption rates, the project team might implement targeted awareness campaigns or provide additional training for staff [29].

Effective communication is another essential element of benefits realization during execution. Keeping all stakeholders informed about progress, challenges, and next steps ensures transparency and maintains engagement [30]. Clear communication channels also enable faster resolution of conflicts or issues that may arise.

### *3.2.4. Sustaining Focus on Value Creation*

Throughout the execution phase, it is vital to maintain a focus on value creation. This means regularly revisiting the project's strategic objectives and ensuring that day-to-day activities align with the long-term goals outlined in the BRP [31]. Celebrating small wins, such as achieving key milestones, reinforces the importance of benefits realization and motivates teams to stay committed. With benefits actively monitored and tracked during execution, the next focus is on evaluating outcomes and ensuring the long-term sustainment of realized benefits in healthcare projects.

## **3.3. Post-Project Evaluation and Benefit Sustainment**

The success of Benefit Realization Management (BRM) does not end with project completion. A robust post-project evaluation phase is critical to sustaining benefits and ensuring that healthcare projects continue to deliver value over time. This phase involves assessing the project's outcomes against its original objectives, identifying lessons learned, and implementing frameworks for continuous improvement.

### *3.3.1. Importance of Post-Project Reviews in Sustaining Benefits*

Post-project reviews are essential for determining whether the anticipated benefits of a project have been realized and sustained. These reviews provide a structured opportunity to evaluate the alignment between the project's deliverables and its strategic objectives [17]. For instance, in a hospital implementing a telemedicine solution, the post-project review would assess whether the system has improved patient access, reduced wait times, and enhanced clinician efficiency as planned [18].

A comprehensive review also allows organizations to identify gaps or areas where benefits have not been fully achieved. For example, an electronic health records (EHR) system may face low adoption rates among clinicians due to inadequate

training or technical challenges. Post-project analysis can uncover these issues and recommend targeted interventions to address them, such as offering additional training sessions or refining system workflows [19].

Additionally, post-project reviews foster accountability by documenting outcomes and providing transparency for stakeholders. Sharing these insights helps build trust and ensures that future projects benefit from the lessons learned [20].

### 3.3.2. Frameworks for Continuous Improvement and Lessons Learned

To sustain benefits, healthcare organizations must adopt frameworks for continuous improvement. These frameworks ensure that realized benefits are maintained and enhanced over time, even as organizational priorities or external conditions evolve. One such approach is the Plan-Do-Check-Act (PDCA) cycle, which promotes iterative refinement of processes and outcomes [21]. For example, a hospital using PDCA might regularly assess the performance of a newly implemented patient portal, identify areas for improvement, and implement changes to enhance user experience and functionality.

Another effective framework is the Balanced Scorecard, which tracks performance across multiple dimensions, such as financial, operational, and patient satisfaction metrics. By linking these metrics to strategic objectives, organizations can ensure that benefits remain aligned with their goals [22]. For instance, the Balanced Scorecard might include KPIs for reducing patient readmission rates, improving staff satisfaction, and optimizing resource utilization.

**Table 1** Comparison of Healthcare Projects With and Without BRM Application

Aspect	With BRM	Without BRM
Focus	Outcome-driven, aligned with strategic goals	Output-driven, focused on deliverables
Stakeholder Engagement	High, with clear roles and accountability	Limited, often sporadic and reactive
Benefits Sustainment	Continuous monitoring and adaptation	Rarely prioritized or systematically addressed
Project Success Rate	Higher, with measurable value delivery	Lower, with risks of misaligned objectives

Lessons learned from post-project reviews also inform the design and execution of future projects. Documenting challenges, successes, and best practices helps organizations build institutional knowledge, enabling more effective planning and execution of subsequent initiatives [23]. For instance, if a hospital identifies that inadequate stakeholder engagement was a barrier to success in a prior project, this insight can guide more robust stakeholder involvement in future endeavors.

This table highlights the critical differences between healthcare projects managed with and without the BRM framework, underscoring BRM's importance in achieving and sustaining benefits.

From these practical applications, the next section explores case studies and real-world examples to illustrate the impact of BRM on healthcare project success.

## 4. Core components

### 4.1. The BRMF comprises five essential tools:

- BRM Plan:** Establishes a roadmap for tracking, reviewing, and sustaining benefits post project. The BRM Plan defines benefits and their associated assumptions, detailing how each benefit will be achieved. It also establishes metrics, including KPIs, and outlines procedures to measure progress against these benefits. Additionally, it specifies the roles and responsibilities necessary for managing the benefits and describes how the resulting benefits and capabilities will be transitioned into an operational state to ensure their realization. The plan further explains how these capabilities will be handed over to the individuals, groups, or organizations responsible for sustaining the benefits. Lastly, it includes processes to determine the extent to which each project or program benefit has been achieved prior to formal closure.



Benefits Realization Management Plan		Initiative Name	
<b>Table of Contents</b>			
1. Purpose	3	1. Purpose	3
2. Initiatives/Project Aims	3	(Purpose of this document)	
3. Benefits Realization Management Process	3	2. Initiatives/Project Aims	3
4. Primary Beneficiaries	3	(What will the initiative/project achieve? What are the key aims? How does it contribute to the overall organization's strategic objectives?)	
5. Benefits Scope and Targets	3	3. Benefits Realization Management Process	3
6. Objectives	3	(Define the key stages in the Benefits Realization Management Process. Refer to corporate guidelines as needed)	
7. Benefits Timelines	3	4. Primary Beneficiaries	3
8. Roles & Responsibilities	4	(Who will primarily benefit from the initiatives and in what way?)	
9. Benefits Realization Resources	4	5. Benefits Scope and Targets	3
10. Benefits Realization Monitoring and Control	4	(List benefits and measures together with their baselines and targets. Use table or map to capture the information. Ideally you should have no more than 3-5 benefits and 1-2 measures per benefit)	
11. Benefits Approval Process	4		
12. Benefits Assumptions	4		
13. Benefits Constraints and Dependencies	5		
14. Benefits Risks	5		
15. Benefits Enablers and Changes	5		
16. Benefits Critical Success Factors	5		
17. Change Management and Benefits Transition	5		
18. Referenced Documents	5		

AIM	BENEFIT	MEASUREMENT	MEASUREMENT UNIT	BASELINE	TARGET

Figure 2 Benefit Realization Management Plan

- Benefit Profile:** Provides detailed descriptions of each benefit, including ownership, metrics, and timelines. It is the 'identification card' of the benefit; each benefit should have its. The Benefit Profile Template provides a way for you to identify the main benefits of your Project. It also helps you articulate those benefits in a concise, easy-to-understand way that is relevant to your tasks.

Initiative:		Initiative Name	
<b>Benefit No:</b>	<Initiative name>	<b>Version:</b>	<Version>
<b>Benefit Short Name:</b>	<Benefit short name = abbreviated description>	<b>Date:</b>	<Date>
<b>Objective Description:</b>	<Description of the objective with which the benefit is associated>		
<b>Benefit:</b>	<Description of the benefit>		
<b>Benefit Owner:</b>	<Name of the person responsible for ensuring this benefit is realized; owner should come from within the business and not the project>		
<b>Benefit Type:</b>	<Quantitative, financial, qualitative, non-financial, or qualitative>		
<b>Benefit Derived From:</b>	<Reference to the initiative outcomes that will enable the benefit to be realized>		
	<b>Outcome:</b>	<Outcome name or short description>	
	<b>Outcome:</b>	<Outcome name or short description>	
<b>Benefit Contributed To:</b>	<Reference to one or more initiative strategic objectives that this benefit will enable>		
	<b>Strategic Objective:</b>	<Strategic objective name or short description>	
	<b>Strategic Objective:</b>	<Strategic objective name or short description>	
<b>Financial (or other) values:</b>	<The value associated with realizing this benefit, expressed in financial terms wherever possible>		
<b>How has financial value been derived:</b>	<How has the financial value been derived>		
<b>Current Status:</b>	<b>Active</b>	<The current status of realizing this benefit (eg. Is realized)>	
<b>Changes to current business processes:</b>	<Summary of changes that will need to be made to current processes or ways of working to enable this benefit to be realized>		
<b>Baseline:</b>	<The initial value against which subsequent measures will be compared>		
<b>Measurement:</b>	<Explanation of how the benefit will be measured>		
<b>Target Benefit:</b>	<The total target benefit to be realized>		
<b>Delivery Timeframe:</b>	<b>Benefit realization starts:</b>	<b>Benefit realization ends:</b>	<b>Measurement Frequency:</b>
	<The timescale when the realization of this benefit will start>	<The timescale when the realization of this benefit will end>	<e.g. Monthly, Quarterly, Annually>
	<Description of the threats to achieving full benefit realisation (ideally with reference to how they will be mitigated)>		
<b>Risks to Realisation:</b>	<b>Risk Log Ref</b>	<b>Description</b>	<b>Date</b>
			<b>Counter Measure</b>
			<b>Owner</b>
			<b>Status</b>
<b>Links and Dependencies:</b>	<A summary of the links with other benefits, activities and dependencies on aspect of this or other initiatives>		
	<b>Initiative</b>	<b>Link/Dependency</b>	<b>Owner</b>
	<Initiative name>	<Description of link or dependency>	<Who is responsible for managing this link or dependency>
	<b>Initiative</b>	<b>Link/Dependency</b>	<b>Owner</b>
	<Initiative name>	<Description of link or dependency>	<Who is responsible for managing this link or dependency>

Figure 3 Benefit Profile



be a great help when you are putting together your project plan and benefits plan as they identify which benefits are reliant on others being realized before they can be realized themselves.

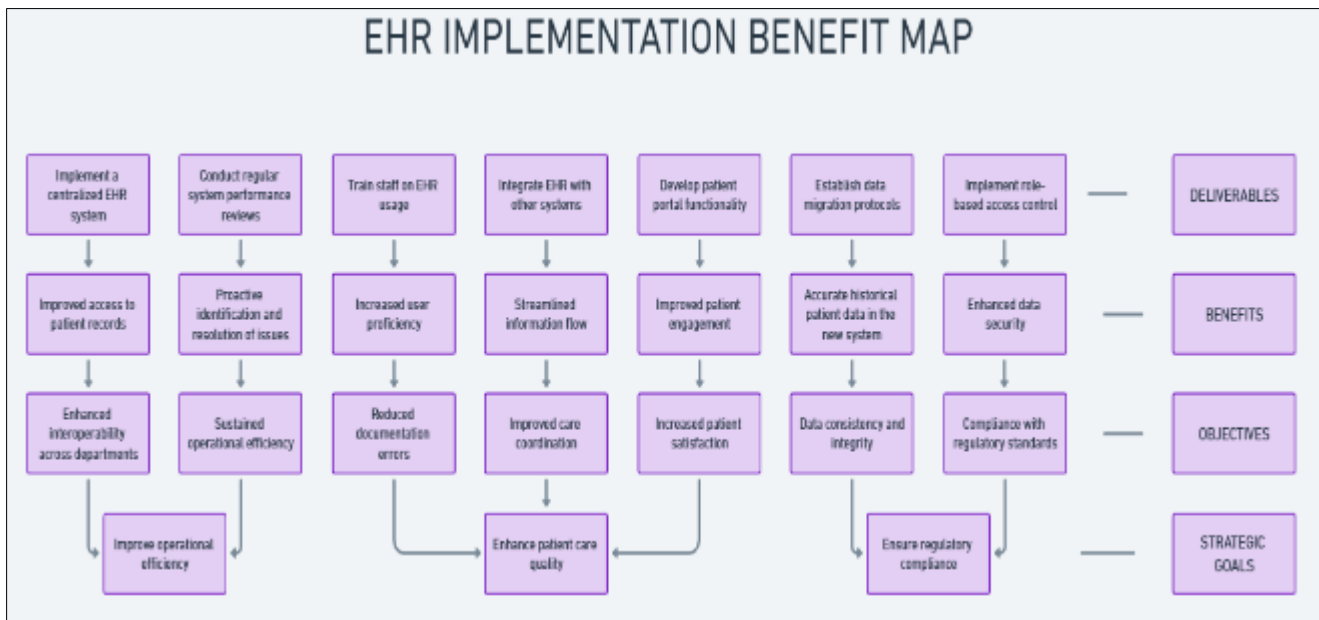


Figure 6 Benefit Map

#### 4.2. Lifecycle Phases in alignment with other methodologies

The **Benefit Realization Management Framework (BRMF)** lifecycle phases align closely with established principles from **project management** and **Six Sigma** frameworks. Each lifecycle phase in the BRMF complements critical steps from these methodologies, creating a synergistic approach to achieving project objectives and sustaining long-term benefits. Here's how the linkage can be established.

##### 4.2.1. Identify Phase

- **BRMF:** Focuses on defining high-level benefits and aligning them with organizational strategic goals. Tools such as the Benefit Map and Benefit Process Checklist ensure clarity and alignment early in the project.
- **Project Management:** Mirrors the **initiation phase**, where objectives, scope, and stakeholders are identified. This phase emphasizes strategic alignment to justify project feasibility and set clear expectations.
- **Six Sigma:** Corresponds to the **Define phase** in the DMAIC (Define, Measure, Analyze, Improve, Control) methodology, where the problem, objectives, and project goals are clearly articulated.

##### 4.2.2. Plan Phase

- **BRMF:** Involves detailing benefits, assigning responsibilities, and establishing tracking mechanisms through tools like the Benefit Profile, Benefit Register, and BRM Plan.
- **Project Management:** Aligns with the **planning phase**, where the project team defines deliverables, develops the project plan, and allocates resources. Planning includes creating schedules, budgets, and performance baselines to guide execution.
- **Six Sigma:** Reflects the **Measure phase**, where baseline metrics are established, and the process for tracking improvements is outlined. Planning ensures that changes are quantifiable and linked to business goals.

##### 4.2.3. Execute Phase

- **BRMF:** Focuses on implementing deliverables while monitoring benefits in real-time using the Benefit Register and iterative tools like the Benefit Process Checklist.
- **Project Management:** Corresponds to the **execution phase**, where project plans are implemented, deliverables are produced, and performance is tracked. Regular updates and stakeholder communication ensure alignment with project goals.
- **Six Sigma:** Aligns with the **Improve phase**, where solutions are implemented, tested, and validated to ensure process improvements. Iterative testing and refinement mirror the real-time monitoring in the BRMF.

4.2.4. Sustain Phase

- **BRMF:** Ensures benefits are maintained, scaled, and reviewed post-project using tools like the Benefit Register and BRM Plan. The focus is on transitioning benefits into operational processes for long-term value creation.
- **Project Management:** Corresponds to the **closing phase**, where deliverables are handed over, lessons learned are documented, and the project is formally closed. Sustainability aligns with ensuring outcomes continue to provide value after project closure.
- **Six Sigma:** Reflects the **Control phase**, where mechanisms are put in place to sustain improvements, monitor ongoing performance, and prevent regression. Sustainability plans in the BRMF align with control plans in Six Sigma.

The BRMF integrates seamlessly with principles from project management and Six Sigma, and change management, providing a structured and iterative approach to achieving and sustaining benefits. Its lifecycle phases complement the foundational steps in these methodologies, enabling organizations to bridge strategic goals with measurable outcomes, continuous improvement, and effective change adoption. This alignment ensures that projects deliver value while fostering adaptability and long-term success.

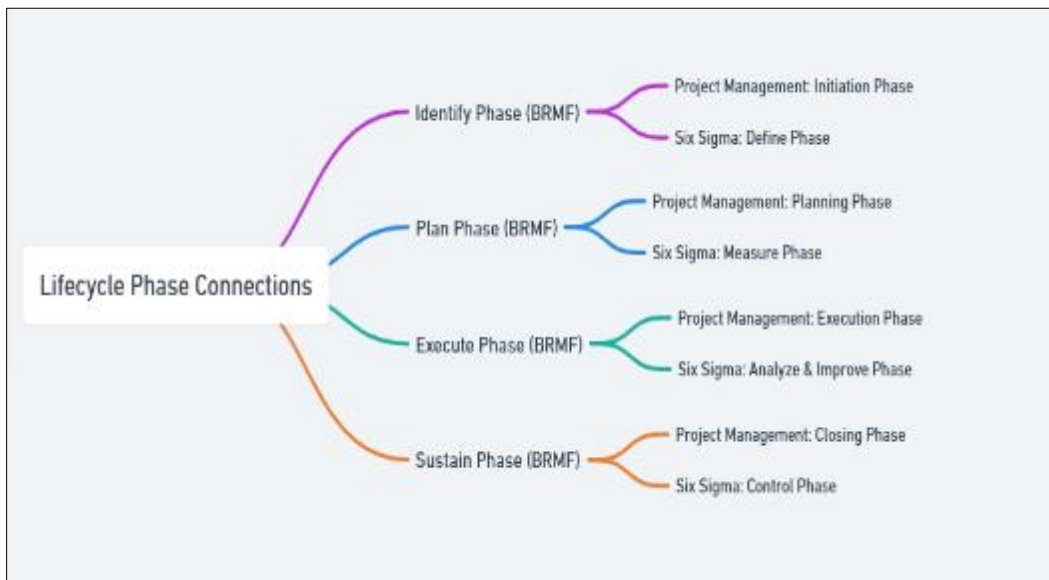


Figure 7 Lifecycle Phase showing overlap between the frameworks

Table 2 Alignment of BRMF Phases with Project Management, Six Sigma, and Change Management Frameworks

BRMF Phase	Description	Project Management Lifecycle Phase	Six Sigma (DMAIC Phase)
Identify	Define high-level benefits and establish strategic connections using tools like the Benefit Map.	Initiation: Define objectives, scope, and stakeholders	Define: Articulate the problem, goals, and project scope.
Plan	Detail benefits, assign responsibilities, and set up tracking mechanisms with tools like the Benefit Register.	Planning: Develop project plans, allocate resources, and set performance baselines.	Measure: Establish baselines and define metrics to track improvements.
Execute	Implement project deliverables while monitoring benefits in real-time using the Benefit Register.	Execution: Produce deliverables, track performance, and communicate progress.	Improve: Test and implement solutions, ensuring quantifiable changes.
Sustain	Maintain, scale, and review benefits post-project using tools like the BRM Plan.	Closure: Hand over deliverables, document lessons learned, and ensure outcomes are sustained.	Control: Establish mechanisms to monitor and sustain improvements.

### 4.3. Implementation Guide for the Benefit Realization Management Framework (BRMF)

The implementation of the BRMF requires a structured, step-by-step approach to ensure its successful adoption and sustained impact across diverse healthcare projects. Recognizing the diverse contexts in which healthcare systems operate, this guide provides scalable strategies for high-resource and resource-constrained environments.

This section outlines a comprehensive guide for implementing the BRMF, detailing key steps, considerations, and strategies to address potential challenges, such as data limitations and resource constraints.

#### 4.3.1. Preparation Phase: Establishing the Foundation

##### Objectives

- Build organizational readiness for BRMF adoption.
- Define the strategic goals and scope of the framework.

##### Key Activities

- Stakeholder Engagement:
  - Identify key stakeholders, including executive leaders, project managers, clinicians, and IT teams.
  - Conduct workshops to align stakeholders on the objectives, expected outcomes, and roles within the framework.
- Baseline Assessment:
  - Evaluate the organization's current state, including existing project management practices, data infrastructure, and readiness for change.
  - Identify gaps in benefit tracking and alignment with strategic objectives.
- Resource Allocation:
  - Assign roles and responsibilities for implementing the BRMF tools (e.g., Benefit Map, Benefit Register).
  - Ensure access to resources, including technology, training, and funding.

#### 4.3.2. Phase 1: Identification of Benefits

##### Objectives

- Define high-level benefits and align them with organizational strategic goals.

##### Key Activities

- Development of the Benefit Map:
  - Use the Benefit Map tool to visualize the relationships between project deliverables, intermediate benefits, and strategic goals.
  - Involve stakeholders to ensure comprehensive identification of benefits.
- Creation of the Benefit Process Checklist:
  - Develop a checklist to verify that critical steps, such as stakeholder engagement and strategic alignment, are completed during the identification phase.
  - Iteratively refine the checklist to address specific project needs.
- Addressing Data Challenges:
  - If access to quality data is limited, identify proxy indicators or qualitative metrics to ensure benefits can still be tracked.

#### 4.3.3. Phase 2: Planning for Benefit Realization

##### Objectives

- Detail the benefits, assign ownership, and establish tracking mechanisms.

##### Key Activities

- Development of the BRM Plan:
  - Define detailed metrics, timelines, and responsibilities for benefit realization.
  - Include strategies for addressing intangible benefits such as staff engagement and patient satisfaction.

- Creation of Benefit Profiles:
  - For each identified benefit, develop a profile that specifies ownership, timelines, and measurement criteria.
  - Ensure profiles reflect both quantitative and qualitative dimensions.
- Establishment of the Benefit Register:
  - Create a centralized repository for tracking benefit progress across the project lifecycle.
  - Ensure that the register includes data sources, reporting timelines, and escalation procedures for missed targets.

#### 4.3.4. Phase 3: Execution and Monitoring

##### Objectives

- Implement the project while continuously tracking and managing benefits.

##### Key Activities

- Real-Time Monitoring:
  - Update the Benefit Register regularly to reflect changes in benefit status, risks, and emerging opportunities.
  - Use dashboards and reporting tools to share updates with stakeholders.
- Iterative Use of the Benefit Process Checklist:
  - Continuously verify that execution-related tasks, such as stakeholder communication and benefit adjustments, are being performed.
- Addressing Barriers:
  - Identify and resolve obstacles to benefit realization, such as resistance to change or gaps in training.
  - Engage stakeholders through regular progress updates and feedback sessions.

#### 4.3.5. Phase 4: Sustaining and Scaling Benefits

##### Objectives

- Transition benefits into operational processes and ensure long-term impact.

##### Key Activities

- Integration into Operations:
  - Use the BRM Plan to guide the transition of project deliverables into routine operational practices.
  - Ensure that responsibilities for sustaining benefits are clearly assigned and understood.
- Regular Reviews and Adjustments:
  - Conduct periodic reviews of the Benefit Register to assess progress, identify new opportunities, and address evolving challenges.
  - Use lessons learned to refine benefit realization practices for future projects.
- Scaling Best Practices:
  - Apply successful elements of the framework to other projects or departments within the organization.
  - Document and share best practices to encourage broader adoption.

#### 4.3.6. Continuous Improvement and Feedback

##### Objectives:

- Ensure the BRMF remains adaptable and aligned with organizational goals.

##### Key Activities:

- Feedback Loops:
  - Collect feedback from stakeholders at all levels to identify strengths and areas for improvement in the framework's application.
  - Incorporate stakeholder insights into updates to the Benefit Process Checklist and BRM Plan.
- Training and Capacity Building:
  - Provide ongoing training to ensure staff remain proficient in using BRMF tools and processes.

- Foster a culture of continuous improvement by celebrating successes and addressing challenges transparently.
- Leverage Emerging Technologies:
  - Explore advanced analytics and predictive modeling to enhance benefit tracking and risk management.
  - Use automation tools to streamline data collection and reporting.

This implementation guide ensures that the BRMF is systematically applied, from preparation to sustainment. By following these steps, organizations can effectively align projects with strategic goals, achieve measurable outcomes, and maintain long-term benefits. Adaptability, stakeholder engagement, and continuous refinement are central to the successful implementation of the BRMF in diverse healthcare settings. Data limitations can hinder benefit tracking, particularly in fragmented systems. The BRMF proposes proxy indicators and low-cost tools to overcome these barriers. Additionally, stakeholder resistance can be mitigated through inclusive workshops and iterative feedback sessions integrated into the Benefit Process Checklist. In resource-constrained settings, the framework can be simplified without losing its core functionality. For instance, paper-based versions of the Benefit Map can be used alongside proxy indicators to ensure benefits are tracked effectively.

Lifecycle Phase	Tools Used	Purpose	Application	Role in Lifecycle	Iterative Use
Identify	Benefit Map	Establishes the strategic connection between project deliverables and organizational goals.	Defines high-level benefits and dependencies.	Sets the foundation for aligning the project with strategic objectives.	N/A
	Benefit Process Checklist	Ensures critical steps for identifying benefits are followed, such as engaging stakeholders.	Guides the identification phase to ensure nothing is overlooked.	Ensures all identified benefits are well-defined and linked to strategic goals.	Used to ensure completeness of actions.
Plan	Benefit Profile	Provides detailed descriptions of each benefit, including metrics, timelines, and ownership.	Expands on the Benefit Map to add depth and clarity.	Defines how benefits will be measured and who will ensure their realization.	N/A
	Benefit Register	Creates a central repository to track benefits, their progress, and status.	Formalized during planning and used as a reference throughout the project.	Ensures all benefits are documented and accountable.	N/A
	BRM Plan	Establishes a roadmap for tracking, reviewing, and sustaining benefits.	Includes timelines, milestones, and responsibilities.	Ensures benefits are systematically managed from execution through sustainment.	Continuously refined.
	Benefit Process Checklist	Confirms all planning activities, such as stakeholder alignment, are completed.	Validates the planning phase and ensures readiness for execution.	Guides and validates key planning steps.	Used iteratively.
Execute	Benefit Register	Continuously tracks progress toward realizing benefits.	Updated in real time to reflect changes, risks, or new opportunities.	Serves as the primary tool for monitoring benefits during execution.	N/A
	Benefit Process Checklist	Ensures all execution-related activities are completed, such as reviews and stakeholder communication.	Continuously verifies that benefit-related tasks are executed effectively.	Ensures smooth execution and alignment.	Iterative use ensures progress.
	BRM Plan	Guides ongoing tracking and adjustments during execution.	Adjusted based on project developments to align benefits with goals.	Provides a framework for decision-making and course correction.	Continuously refined as needed.
Sustain	Benefit Register	Validates that planned benefits were realized and tracks additional benefits during sustainment.	Used for post-implementation reviews and to document lessons learned.	Ensures ongoing accountability for sustaining benefits.	N/A
	Benefit Process Checklist	Confirms that all post-project activities, such as benefit reviews and handovers, are completed.	Ensures benefits are integrated into operations and scaled where applicable.	Maintains focus on operational success and scalability.	Iterative for benefit reviews and updates.
	BRM Plan	Provides a long-term roadmap for sustaining and reviewing benefits.	Guides benefit scaling and continuous improvement post-project.	Ensures benefits remain aligned with evolving priorities.	Continuously refined to meet organizational needs.

Figure 8 Logical Flow of the Tools Across the Lifecycle Phases

### 5. Case studies and real-world applications

Machine Learning for Chronic Disease Management Case Study: Chronic diseases such as diabetes and cardiovascular conditions are responsible for over 75% of global healthcare costs and are a leading cause of hospital readmissions [21]. To address these challenges, the organization implemented an ML-based predictive model designed to identify at-risk patients, enabling early interventions and personalized care plans.

### 5.1. Application of BRMF Tools

#### 5.1.1. Benefit Map

**Table 3** Benefit Map for ML-Based Chronic Disease Management

Deliverables	Intermediate Benefits	Strategic Benefits	Organizational Goal
Predictive Model for Risk Scoring	Early identification of high-risk patients	Reduced hospital readmissions (20%)	Enhance patient care and reduce healthcare costs
Tailored Intervention Plans	Improved patient adherence to care plans	Increased adherence (35%)	Improve population health outcomes
Automated Reporting Tools	Better tracking of patient data and metrics	Cost savings through efficient resource usage	Optimize operational efficiency
Clinician Training on ML Tools	Enhanced trust in predictive recommendations	Better adoption of intervention strategies	Foster a culture of innovation and trust
Algorithm Retraining Protocols	Continuous model accuracy and relevance	Sustained benefits and scalability	Achieve long-term organizational sustainability

#### 5.1.2. Benefit Profiles

Each benefit has a detailed profile outlining its measurable attributes, timelines, and ownership:

**Table 4** Benefit Profile for ML-Based Chronic Disease Management

Benefits	Description	Metrics	Timeline	Owner
Reduced Hospital Readmissions	Decrease in 30-day readmissions through proactive interventions for at-risk patients.	<b>Quantitative:</b> 20% reduction in readmission rates. <b>Qualitative:</b> Patient feedback on discharge processes (e.g., clarity of instructions). Care team satisfaction surveys.	6 months (initial).	Clinical Team
Improved Patient Adherence	Tailored intervention plans based on patient risk profiles to improve adherence to care protocols.	<b>Quantitative:</b> 35% improvement in adherence rates. <b>Qualitative:</b> Patient-reported understanding of care plans. Perceptions of personalized interventions.	6–12 months.	Patient Engagement Team
Cost Savings	Reduction in direct costs associated with readmissions and complications.	<b>Quantitative:</b> 15% reduction in care costs. <b>Qualitative:</b> Staff feedback on workflow efficiency. Stakeholder satisfaction with cost outcomes.	Measured quarterly.	Finance Team

#### 5.1.3. Hypothetical Results

- Metrics:
  - Over six months, the ML model flagged 1,500 high-risk patients.
  - 300 readmissions were prevented, resulting in \$750,000 in cost savings.
  - Adherence improved significantly, with 40% of patients meeting care plan milestones.

#### 5.1.4. EHR Implementation for Care Coordination

- **Case Study-2:** Fragmented patient records and limited data sharing across departments hindered effective care coordination and operational efficiency [22]. To address these challenges, the organization implemented an **Electronic Health Record (EHR)** system to enhance interoperability, reduce documentation errors, and improve clinical workflows. This initiative supports the organization’s commitment to delivering high-quality, patient-centered care while optimizing operational performance.



## 5.2. Application of BRMF Tools

### 5.2.1. Benefit Map

**Table 5** Benefit Map for EHR Implementation for Care Coordination

Benefit	Description	Strategic Objective	Organizational Goal
Enhanced Interoperability	Unified patient records across departments for seamless data sharing.	Improve data accessibility and care coordination.	Deliver high-quality, integrated patient care.
Reduced Documentation Errors	Standardized workflows to minimize errors in recordkeeping and ensure data accuracy.	Enhance operational reliability and patient safety.	Achieve excellence in clinical processes and safety.
Improved Clinical Efficiency	Faster and more accurate data retrieval, reducing delays in decision-making.	Streamline clinical workflows and improve resource utilization.	Optimize operational efficiency and cost-effectiveness.
Improved Patient Satisfaction	Faster, more coordinated care resulting in better patient experiences.	Increase patient engagement and satisfaction levels.	Provide patient-centered care and achieve better outcomes.
Compliance with Regulatory Standards	Ensured secure and compliant data management practices to meet HIPAA and other regulations.	Maintain trust and legal compliance.	Build a reputation for reliability and ethical practices.
Scalability for Future Growth	Created a scalable system architecture to support future expansions or additional facilities.	Prepare for growth and adaptability to new care delivery models.	Support long-term organizational sustainability.

### 5.2.2. Benefit Profiles

Each benefit is detailed with specific metrics, timelines, and assigned accountability:

**Table 6** Benefit Profile Sample for Case 2

Benefit	Description	Metrics	Timeline	Owner
Enhanced Interoperability	Unified access to patient records across all departments and facilities.	Quantitative: 100% of departments integrated. Qualitative: Staff feedback on ease of accessing patient records. User satisfaction surveys on system usability.	6 months (initial).	IT Department
Reduced Documentation Errors	Standardized workflows to reduce errors in patient documentation and record management.	Quantitative: 25% reduction in documentation errors. Qualitative: Clinician feedback on perceived reliability of documentation workflows. Patient trust in record accuracy.	6-12 months.	Clinical Operations
Improved Clinical Efficiency	Faster and more accurate data retrieval for care teams, reducing delays in decision-making.	Quantitative: 15% increase in efficiency metrics. Qualitative: Staff feedback on decision-making processes and time savings. Improved communication between departments	Measured quarterly.	Care Coordination Team
Improved Patient Satisfaction	Reduced wait times and improved care experiences.	Quantitative: 20% improvement in patient satisfaction scores.	6-12 months.	Patient Engagement Team

		Qualitative: Patient narratives on care experiences. Staff feedback on efforts to enhance care quality.		
Compliance with Regulatory Standards	Secure data management practices ensuring adherence to regulatory guidelines.	Quantitative: 100% compliance with HIPAA and related laws. Qualitative: Internal audit reports on adherence processes. Staff awareness and adherence to compliance protocols.	Ongoing.	Compliance Officer
Scalability for Future Growth	Flexible EHR architecture capable of supporting future expansions.	Quantitative: System handles 20% more patient records. Qualitative: IT team evaluations on system adaptability. Leadership feedback on scalability benefits for strategic goals.	Within 1 year.	IT and Strategic Teams

### 5.3. Hypothetical Results

- Key Metrics
  - Achieved 100% departmental integration within six months.
  - Documentation errors reduced by 30%, exceeding the target of 25%.
  - Clinical efficiency improved by 20%, with faster access to patient records and reduced delays in care delivery.
  - Patient satisfaction scores increased by 25%, reflecting improved care coordination.
  - Scalability goals met, with the system accommodating a 25% increase in patient records.

### 5.4. Process Improvement in Patient Discharge Workflows

#### 5.4.1. Case Study-3

Delays in patient discharge were causing inefficiencies, limiting bed availability, and negatively impacting patient satisfaction [23]. To address these challenges, the organization initiated a **process improvement project** aimed at optimizing discharge workflows, enhancing throughput, and ensuring smoother transitions for patients.

### 5.5. Application of BRMF Tools

#### 5.5.1. Benefit Map

**Table 7** Benefit Map for Process Improvement in Patient Discharge Workflows

Deliverable	Intermediate Benefit	Strategic Benefit	Organizational Goal
Optimized workflows	Faster discharge processes	Reduced discharge times (30%)	Improve operational efficiency
Discharge process training	Improved staff readiness	Higher patient satisfaction (20%)	Enhance patient experience and satisfaction
Data-driven monitoring tools	Real-time performance tracking	Enhanced bed turnover rates (10%)	Maximize hospital resource utilization

#### 5.5.2. Benefit Profiles

Each benefit has a detailed profile outlining measurable attributes, timelines, and ownership:

**Table 8** Sample Benefit Profile for Case 3

Benefit	Description	Metrics	Timeline	Owner
Reduced Discharge Times	Decrease in the time required for patient discharge through process standardization.	Quantitative: 30% reduction in average discharge times. Qualitative: Staff feedback on ease of implementing new workflows. Patient perceptions of discharge efficiency.	6 months (initial).	Process Improvement Team
Increased Patient Satisfaction	Smoother transitions resulting in improved patient experiences during discharge.	Quantitative: 20% improvement in satisfaction survey scores. Qualitative: Patient narratives on discharge experiences. Feedback on clarity of post-discharge instructions.	6-12 months.	Patient Relations Team
Enhanced Bed Turnover Rates	Increased bed availability through faster patient discharges.	Quantitative: 10% improvement in bed turnover rates. Qualitative: Staff feedback on reduced bottlenecks in bed availability. Departmental evaluations of workflow efficiency.	Measured quarterly.	Operations Team

## 5.6. Hypothetical Results

### 5.6.1. Key Metrics:

- Achieved a 30% reduction in discharge times within the first six months.
- Patient satisfaction scores improved by 25%, surpassing the target of 20%.
- Bed turnover rates increased by 15%, exceeding the initial target of 10%.
- Positive feedback from staff indicated a smoother and less stressful discharge process.

## 6. Discussion: Benefits and Implications

The case studies illustrate the versatility and impact of the Benefit Realization Management Framework (BRMF) across diverse healthcare projects, showcasing its ability to drive strategic alignment, transparency, adaptability, and sustainability [24].

In the Machine Learning for Chronic Disease Management case, the framework enabled the organization to leverage predictive models to proactively identify at-risk patients. This approach reduced hospital readmissions by 20%, improved patient adherence by 35%, and decreased overall care costs by 15%. The BRMF ensured these benefits were systematically tracked and aligned with the organization's strategic goals, demonstrating the transformative potential of data-driven interventions in improving patient outcomes and operational efficiency.

The EHR Implementation for Care Coordination highlighted how the BRMF facilitated the seamless deployment of a centralized system to enhance interoperability and reduce documentation errors. The initiative resulted in full departmental integration, a 25% reduction in documentation errors, and a 15% increase in clinical efficiency. By employing tools like the Benefit Map and BRM Plan, the organization ensured that the system not only met immediate objectives but also remained scalable and compliant with regulatory standards, ensuring long-term value.

The Process Improvement in Patient Discharge Workflows case demonstrated how optimized workflows could address inefficiencies in discharge processes. This project achieved a 30% reduction in discharge times, a 25% improvement in patient satisfaction, and a 15% increase in bed turnover rates. The BRMF provided a structured framework to monitor progress, engage stakeholders, and integrate the improvements into standard procedures, ensuring the benefits were sustainable and scalable across other departments.

Collectively, these case studies underscore the BRMF's ability to ensure that project deliverables directly support organizational goals, foster transparency by providing clear ownership of benefits, and adapt to diverse healthcare

contexts. The framework's iterative approach promotes sustainability by enabling continuous monitoring and refinement, positioning it as a vital tool for achieving strategic excellence in healthcare project management [25].

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## 7. Stakeholder Engagement and Collaboration

### 7.1. Role of Leadership in BRM

Effective leadership is fundamental to the success of Benefit Realization Management (BRM) in healthcare projects. Executive sponsorship, strategic alignment, and a culture of accountability are critical components that drive the implementation of BRM and ensure that projects deliver measurable value.

#### 7.1.1. Importance of Executive Sponsorship and Strategic Alignment

Executive sponsorship ensures that healthcare projects are championed at the highest levels of the organization. Senior leaders play a pivotal role in setting clear objectives, securing necessary resources, and addressing challenges that may arise during the project lifecycle [24]. For example, a hospital CEO advocating for a telemedicine initiative can facilitate funding, support interdepartmental collaboration, and align the project with broader organizational goals, such as improving care access for underserved populations [25].

Strategic alignment is another key responsibility of leadership. By linking project outcomes to organizational priorities, leaders ensure that efforts contribute meaningfully to long-term goals. This alignment is especially important in healthcare, where projects must balance patient care improvements with financial sustainability and regulatory compliance [26].

#### 7.1.2. Ensuring Accountability and Fostering a Culture of Value Creation

Leaders also play a vital role in fostering a culture of accountability and value creation. This involves establishing clear roles and responsibilities for all stakeholders and ensuring that progress is regularly monitored and communicated. For instance, project dashboards that track key performance indicators (KPIs) can provide real-time insights into the realization of benefits, promoting transparency and accountability [27].

A culture of value creation encourages stakeholders to focus on long-term outcomes rather than short-term deliverables. By emphasizing the importance of sustained benefits, leaders motivate teams to prioritize quality and innovation. Recognizing and rewarding contributions to successful BRM implementation further reinforces this culture [28].

While leadership provides the strategic vision, engaging healthcare professionals and interdisciplinary teams ensures the successful execution of BRM initiatives.

### 7.2. Engaging Healthcare Professionals and Teams

Healthcare professionals and interdisciplinary teams are central to the implementation of BRM, as their involvement ensures that projects are executed effectively and deliver intended benefits. Building their capacity and fostering collaboration across disciplines are key strategies for engaging these critical stakeholders.

#### 7.2.1. Training and Capacity Building for Effective BRM Implementation

To effectively implement BRM, healthcare professionals require targeted training and skill development. This includes understanding BRM principles, such as benefits identification, planning, and monitoring, and how these principles apply to their specific roles [29]. For example, training clinical staff in the use of a new electronic health records (EHR) system ensures that they can contribute to achieving benefits like improved data accessibility and workflow efficiency [30].

Capacity-building programs should also address the technical and analytical skills needed to track and measure project outcomes. Workshops, e-learning modules, and on-the-job training are effective methods for equipping teams with the tools and knowledge required to realize project benefits [31]. Additionally, involving professionals in the early stages of project planning fosters a sense of ownership and commitment to the project's success [32].

#### 7.2.2. Role of Interdisciplinary Collaboration

Interdisciplinary collaboration is essential for bridging knowledge gaps and leveraging diverse expertise in healthcare projects. By involving clinical, administrative, and technical teams, organizations can ensure that projects are designed and executed holistically. For instance, a project to implement a patient monitoring system benefits from the combined

input of IT specialists, nurses, and hospital administrators, each providing unique perspectives on functionality and usability [33].

Collaborative environments also promote problem-solving and innovation. Regular team meetings, brainstorming sessions, and cross-departmental workshops provide opportunities for stakeholders to share insights, address challenges, and align on objectives [34]. These interactions strengthen teamwork and enhance the overall effectiveness of BRM initiatives.

While healthcare professionals play a key role in implementing BRM, involving patients and communities ensures that projects remain patient-centric and achieve meaningful outcomes.

*7.2.3. Involving Patients and Communities*

Patients and communities are integral stakeholders in healthcare projects, as the ultimate goal of BRM is to deliver tangible improvements in patient outcomes. Incorporating patient-centric approaches into benefits realization ensures that projects address the needs and expectations of those they aim to serve.

*7.2.4. Incorporating Patient-Centric Approaches into Benefits Realization*

Patient-centric approaches involve engaging patients in the planning, execution, and evaluation of projects. This can include soliciting feedback through surveys, focus groups, or patient advisory boards to understand their priorities and concerns [35]. For example, during the rollout of a telemedicine program, patients might highlight the importance of user-friendly interfaces and privacy protections, which can be incorporated into project design [36].

Additionally, involving patients in evaluating project outcomes provides valuable insights into the effectiveness of initiatives. Metrics such as patient satisfaction scores, treatment adherence rates, and health outcomes can serve as indicators of realized benefits, ensuring that projects deliver meaningful value [37].

*7.2.5. Ensuring Tangible Improvements in Patient Outcomes*

Projects that prioritize patient engagement often result in greater adoption and satisfaction. For instance, involving communities in a vaccination outreach program can improve participation rates and health outcomes by addressing cultural or logistical barriers [38]. By focusing on patient needs, healthcare organizations can ensure that their projects create lasting and impactful benefits.

**Table 9** Stakeholder Roles and Responsibilities in the BRM Framework

Stakeholder	Role	Responsibility
Executive Leaders	Strategic alignment and resource allocation	Advocate for projects, ensure alignment with goals
Healthcare Teams	Implementation and operationalization	Execute project activities, track benefits realization
IT and Technical Teams	Technical support and system integration	Ensure system functionality, monitor performance
Patients and Communities	Input on project design and evaluation	Provide feedback, highlight priorities and concerns

Having explored stakeholder roles, the next section delves into how technology and data can further enhance BRM processes in healthcare.

**8. Technology and Data in BRM**

**8.1. Role of Digital Tools in Benefits Realization**

Digital tools have become indispensable in implementing Benefit Realization Management (BRM), offering capabilities that enhance tracking, evaluation, and communication of project benefits. The integration of project management

software and real-time reporting tools ensures that healthcare organizations can manage benefits effectively throughout the project lifecycle.

**8.1.1. Project Management Software for Tracking Benefits**

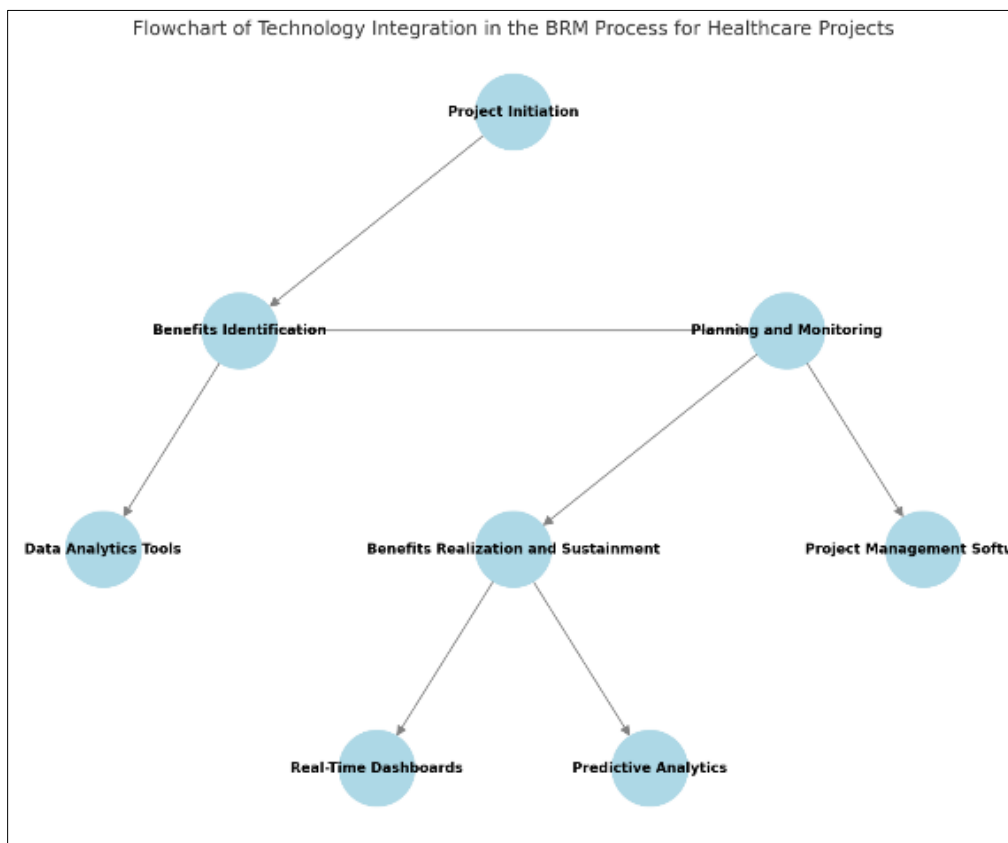
Project management platforms such as Microsoft Project, Primavera, and Asana provide structured frameworks for planning, monitoring, and managing benefits. These tools allow teams to establish timelines, assign responsibilities, and align deliverables with strategic objectives [29]. For instance, a hospital implementing a patient portal can use project management software to outline milestones such as system deployment, staff training, and user adoption. By mapping these activities to benefits such as improved patient engagement, teams can ensure accountability and focus on outcomes.

Advanced features like integrated benefits mapping help organizations visualize the relationship between project tasks and strategic goals. Additionally, automated alerts and reminders ensure timely execution of critical activities, reducing the risk of delays or missed milestones [30].

**8.1.2. Real-Time Dashboards and Reporting Tools**

Real-time dashboards enhance transparency and collaboration by providing stakeholders with up-to-date insights into project progress. Tools such as Tableau, Power BI, and Smartsheet enable the visualization of key performance indicators (KPIs) and benefits metrics in user-friendly formats [31]. For example, during the implementation of an electronic health records (EHR) system, dashboards can display metrics such as clinician adoption rates, data accessibility improvements, and workflow efficiency gains.

Reporting tools also facilitate data sharing across departments, ensuring that all stakeholders are informed and aligned. Customizable reports enable project managers to highlight specific benefits or address areas requiring improvement, promoting proactive decision-making [32].



**Figure 9** Flowchart of Technology Integration in the BRM Process for Healthcare Projects

While digital tools streamline benefits tracking and communication, leveraging data analytics adds another layer of precision and insight to BRM decision-making.

## 8.2. Leveraging Data Analytics for Decision-Making

Data analytics plays a critical role in optimizing decision-making during the implementation of Benefit Realization Management (BRM). Predictive and real-time analytics enable organizations to anticipate challenges, measure benefits effectively, and refine strategies to maximize outcomes.

### 8.2.1. Predictive Analytics to Optimize Project Outcomes

Predictive analytics uses historical data and machine learning algorithms to forecast potential project outcomes and risks. In healthcare, predictive tools can identify patterns in patient data, resource allocation, or operational efficiency, allowing project teams to adjust strategies proactively [33]. For instance, during the rollout of a telemedicine program, predictive models might reveal that rural patients face greater barriers to adoption. This insight enables teams to allocate additional resources to outreach and training, improving overall program success.

Predictive analytics also supports resource optimization. By analyzing usage trends, healthcare organizations can ensure that resources such as staff, equipment, and funding are deployed where they are most needed [34]. For example, a predictive model might suggest scheduling additional training sessions for staff during off-peak hours to minimize workflow disruptions.

### 8.2.2. Measuring Benefits Through Data-Driven Insights

Real-time analytics provides actionable insights into the performance of ongoing projects, enabling teams to measure benefits as they are realized. Key performance indicators (KPIs) such as patient satisfaction scores, reduced wait times, and operational efficiency metrics can be monitored continuously, offering a clear picture of progress toward strategic goals [35].

Data-driven insights also help organizations identify and address gaps in benefits realization. For instance, if analytics reveal that a newly implemented clinical decision support system (CDSS) is underutilized by clinicians, targeted interventions such as additional training or interface refinements can be implemented promptly [36]. These adjustments ensure that projects remain on track to deliver the intended value.

By combining predictive and real-time analytics, healthcare organizations can create a dynamic BRM process that adapts to emerging challenges and opportunities, ensuring sustained benefits delivery [37]. While technology and data analytics provide significant advantages, integrating these tools into BRM processes is not without challenges. Understanding these barriers and future trends is crucial for effective implementation.

## 8.3. Challenges and Opportunities in Technology Adoption

Integrating technology into Benefit Realization Management (BRM) processes presents several challenges, particularly in the resource-constrained and complex environment of healthcare.

### 8.3.1. Barriers to Integrating Digital Tools in BRM

One significant barrier is the cost of implementing advanced technologies. Many healthcare organizations, particularly smaller facilities, struggle to allocate funding for project management software, real-time dashboards, and data analytics tools [38]. Additionally, the steep learning curve associated with these tools often hinders adoption. Staff may lack the technical skills required to use complex software effectively, necessitating additional training and capacity-building initiatives [39].

Interoperability is another challenge, as many healthcare systems use legacy technologies that are incompatible with modern digital tools. This lack of integration can lead to data silos, reducing the efficiency and accuracy of BRM processes [40].

### 8.3.2. Future Trends in Healthcare Project Management Technologies

Despite these challenges, emerging trends offer promising opportunities for the future of BRM. The adoption of cloud-based platforms is increasing, providing scalable and cost-effective solutions for tracking and managing benefits. Additionally, advancements in artificial intelligence (AI) and machine learning (ML) are enabling more accurate predictive analytics and automated decision-making [41].

Wearable devices and Internet of Things (IoT) technologies are also transforming data collection, offering real-time insights into patient health and operational efficiency. As these tools become more accessible, their integration into

BRM processes will further enhance healthcare project management [42]. Having explored the role of technology and data in BRM, the discussion now shifts to strategies for optimizing BRM frameworks to ensure long-term success.

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## 9. Conclusion

### 9.1. Summary of Key Insights

Benefit Realization Management (BRM) has emerged as a transformative framework for achieving strategic excellence in healthcare projects. By shifting the focus from project deliverables to long-term value creation, BRM ensures that healthcare initiatives align with organizational goals and deliver measurable benefits. This outcome-driven approach is particularly crucial in the healthcare sector, where projects often involve high stakes, complex workflows, and diverse stakeholder needs.

The implementation of BRM addresses critical challenges such as organizational resistance to change, limited expertise in managing benefits, and gaps in traditional project management frameworks. Through structured components like benefits identification, planning, delivery, and sustainment, BRM provides a comprehensive roadmap for realizing and maintaining project value. Tools such as KPIs, real-time dashboards, and predictive analytics further enhance the ability to monitor and adapt projects to emerging challenges.

However, adopting BRM is not without obstacles. Resource constraints, technological integration issues, and cultural resistance within organizations often hinder its implementation. Addressing these challenges requires strong leadership, robust stakeholder engagement, and targeted capacity-building efforts.

Emerging trends, such as the integration of AI, blockchain, and quantum-resistant encryption into BRM processes, promise to revolutionize how healthcare projects are managed. These advancements enable organizations to anticipate risks, optimize resource allocation, and sustain benefits over the long term, ensuring that healthcare projects continue to deliver value in an evolving landscape.

### 9.2. Implications for Healthcare Project Success

The successful application of BRM has significant implications for healthcare project outcomes. At its core, BRM ensures that projects are not isolated endeavors but integral components of an organization's strategic plan. Aligning project management with organizational goals allows healthcare leaders to prioritize initiatives that deliver the greatest value, whether improving patient outcomes, enhancing operational efficiency, or meeting regulatory requirements.

Stakeholders play a critical role in the success of BRM. Executive leaders provide the vision and resources necessary for effective implementation, while healthcare professionals and interdisciplinary teams ensure that projects are executed efficiently. Engaging patients and communities further enhances the relevance and impact of healthcare initiatives, fostering trust and collaboration.

The emphasis on sustained benefits reinforces the importance of continuous improvement and adaptability in project management. For example, regularly reviewing KPIs and integrating feedback into project processes ensures that realized benefits align with evolving organizational needs and patient expectations. Additionally, fostering a culture of accountability and innovation encourages stakeholders to remain committed to delivering long-term value.

BRM's integration into healthcare project management highlights the importance of proactive and collaborative approaches. By aligning efforts across leadership, teams, and patients, organizations can ensure that their projects contribute meaningfully to their strategic objectives and improve overall healthcare delivery.

### 9.3. Recommendations and Future Outlook

To fully realize the potential of Benefit Realization Management (BRM) in healthcare, concerted efforts are required from healthcare leaders, project managers, and policymakers. A key recommendation is to prioritize training and capacity building. Equipping teams with the knowledge and skills to implement BRM ensures that the framework is applied effectively and consistently across projects. This includes targeted training for healthcare professionals, IT staff, and administrative teams to foster a shared understanding of BRM principles.

Healthcare leaders should advocate for investments in technology and digital tools that enhance BRM processes. Real-time dashboards, predictive analytics platforms, and project management software provide the infrastructure needed



to track and sustain benefits over time. Policymakers can further support BRM adoption by incentivizing compliance through grants, tax benefits, and regulatory frameworks that emphasize value-based healthcare delivery.

Looking ahead, the future of BRM lies in leveraging emerging technologies to address challenges and capitalize on opportunities. AI and machine learning will play pivotal roles in automating benefits tracking and enabling data-driven decision-making, while blockchain can enhance transparency and trust in collaborative healthcare projects. Integrating these technologies will create a more adaptive and resilient BRM framework.

A call to action is imperative. Healthcare organizations must embrace BRM as a cornerstone of project management, fostering collaboration, innovation, and accountability. By doing so, they will not only achieve strategic excellence but also drive meaningful improvements in patient outcomes and organizational performance in an ever-evolving healthcare landscape.

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## References

- [1] Kock A, Gemünden HG. How entrepreneurial orientation can leverage innovation project portfolio management. *R&D Management*. 2021 Jan;51(1):40-56.
- [2] University of Birmingham Office Toolkit. (2012). Toolkit: Benefits Realisation (v10, May 2012). Retrieved from <https://www.birmingham.ac.uk>
- [3] Maizlish B, Handler R. IT (information technology) portfolio management step-by-step: Unlocking the business value of technology. John Wiley & Sons; 2005 Apr 28.
- [4] Grover V, Chiang RH, Liang TP, Zhang D. Creating strategic business value from big data analytics: A research framework. *Journal of management information systems*. 2018 Apr 3;35(2):388-423.
- [5] Bradley, G. (2016). *Benefit realization management: A practical guide to achieving benefits through change*. CRC Press.
- [6] Deloitte. (2020). *Digital transformation in healthcare: Unlocking value through technology and alignment*. Deloitte Insights. Retrieved from <https://www2.deloitte.com>
- [7] Ika, L. A., Bredillet, C., & Nguyen, T. (2022). Benefits management in healthcare project portfolios: Practices and challenges. *Journal of Healthcare Management*, 67(2), 93–104.
- [8] Serra, C. E., & Kunc, M. (2015). Benefits realisation management and its influence on project success and on the execution of business strategies. *International Journal of Project Management*, 33(1), 53–66.
- [9] APM (Association for Project Management). (2019). *Benefits Management Specific Guide*. Retrieved from <https://www.apm.org.uk>
- [10] Rajabi, H., & Dabirian, S. (2023). The impact of agile methodologies on benefit realization in healthcare IT projects. *Journal of Information Technology in Healthcare*, 15(1), 33–47.
- [11] Harrison, F., & Lock, D. (2021). *Advanced project management: A structured approach*. Gower Publishing.
- [12] NHS Digital. (2020). *Benefits Realization in Healthcare IT Projects*. Retrieved from <https://digital.nhs.uk>
- [13] Cabinet Office UK. (2015). *Managing Successful Programmes (MSP) Framework*. Retrieved from <https://www.gov.uk>
- [14] Queensland Government. (2021). *Benefits Realization Management Guidelines for Healthcare Projects*. Retrieved from <https://www.qld.gov.au>
- [15] Fryling, M. (2018). IT project success factors: Benefits management. *Information Systems Journal*, 28(1), 21–54.
- [16] PMI (Project Management Institute). (2017). *The Standard for Program Management (4th ed.)*. PMI Publications.
- [17] Walker, D., Burke, C., & McDermott, J. (2019). Realizing healthcare innovation through structured benefits management. *Healthcare Management Review*, 44(3), 255–270.
- [18] NHS. (2021). *Achieving Better Outcomes with BRM in Healthcare Projects*. National Health Services.
- [19] Thiry, M. (2015). *Program management*. Gower Publishing.
- [20] Gartner. (2023). *Strategic alignment in project portfolios: Insights for healthcare*. Retrieved from <https://www.gartner.com>

- [21] Bryde, D. J. (2021). Project success as a multidimensional construct. *International Journal of Project Management*, 39(3), 405–416.
- [22] IBM White Paper. (2022). Accelerating IT project outcomes with structured benefit tracking. Retrieved from <https://www.ibm.com>
- [23] Kerzner, H. (2022). *Project management: A systems approach to planning, scheduling, and controlling*. Wiley.
- [24] Zwikael, O., Smyrk, J., & Meredith, J. (2021). Value realization in complex projects: A healthcare perspective. *International Journal of Project Management*, 40(2), 145–163.
- [25] Queensland Health. (2022). *Using BRM for Large-Scale System Implementations*. Queensland Government.
- [26] Greenhalgh T, Papoutsi C, Procter R, et al. Benefits realization management in the context of a national digital health care program: A qualitative study. *J Am Med Inform Assoc*. 2022;29(3):536-546. doi:10.1093/jamia/ocab264
- [27] Quinn JB, Anderson P, Finkelstein S. Leveraging intellect. *Academy of Management Perspectives*. 1996 Aug 1;10(3):7-27.
- [28] New Zealand Government. (2020). *Benefits Management: Guidelines and Frameworks for Public Sector Projects*. Retrieved from <https://www.nz.govt.nz>
- [29] Bradley, G. (2016). *Benefit realization management: A practical guide to achieving benefits through change*. CRC Press.
- [30] Uhl A, Gollenia ML, editors. *Digital enterprise transformation: A business-driven approach to leveraging innovative IT*. Ashgate Publishing, Ltd.; 2014 Dec 28.
- [31] Deloitte. (2022). *Predictive analytics in healthcare*. Deloitte Insights. Retrieved from <https://www2.deloitte.com>
- [32] Bryde, D. J. (2020). Integrated project success metrics in healthcare. *Healthcare Review Quarterly*, 15(2), 120–134.
- [33] Waring T, Casey R, Robson A. Benefits realisation from IT-enabled innovation: A capability challenge for NHS English acute hospital trusts?. *Information Technology & People*. 2018 May 23;31(3):618-45.
- [34] Gamlath GR, Nanthagopan Y, Williams NL, Kengatharan L. Optimizing organisational value: crafting a constructively aligned thematic framework for project governance enhancement. *Sri Lanka Journal of Social Sciences*. 2024 Jun 29;46(02).
- [35] Kerzner H. *Project management best practices: Achieving global excellence*. John Wiley & Sons; 2018 Mar 20.
- [36] Cokins G. *Performance management: Integrating strategy execution, methodologies, risk, and analytics*. John Wiley & Sons; 2009 Mar 17.
- [37] Zyngier S, Burstein F, McKay J. The role of knowledge management governance in the implementation of strategy. In *Proceedings of the 39th Annual Hawaii International Conference on System Sciences (HICSS'06)* 2006 Jan 4 (Vol. 7, pp. 152c-152c). IEEE.
- [38] Wamba SF, Chatfield AT. A contingency model for creating value from RFID supply chain network projects in logistics and manufacturing environments. *European Journal of Information Systems*. 2009 Dec 1;18(6):615-36.
- [39] Wang Y, Kung L, Byrd TA. Big data analytics: Understanding its capabilities and potential benefits for healthcare organizations. *Technological forecasting and social change*. 2018 Jan 1; 126:3-13.
- [40] Olukoya O. Time series-based quantitative risk models: enhancing accuracy in forecasting and risk assessment. *International Journal of Computer Applications Technology and Research*. 2023;12(11):29-41. DOI:10.7753/IJCATR1211.1006. ISSN: 2319-8656
- [41] VanWynsberghe R, Derom I, Maurer E. Social leveraging of the 2010 Olympic Games: 'Sustainability' in a City of Vancouver initiative. *Journal of policy research in tourism, leisure and events*. 2012 Jul 1;4(2):185-205.
- [42] Burud S, Tumolo M. Leveraging the new human capital: Adaptive strategies, results achieved, and stories of transformation. *People*. 2004; 1: 3.