

AUGUST 2024 | PROJECT MANAGEMENT CIRCLE

SUSTAINABLE PROJECT MANAGEMENT ARTIFICIAL INTELLIGENCE AND TECHNOLOGY IN PROJECT MANAGEMENT LEADERSHIP AND COLLABORATION RISK MANAGEMENT AND LEGAL CONSIDERATIONS AGILE AND ADAPTIVE PROJECT MANAGEMENT



FROM CONCEPT TO COMPLETION

THE FLAGSHIP MAGAZINE OF PROJECT MANAGEMENT CIRCLE

EXPLORE A WORLD WHERE THE EXTRAORDINARY BECOMES THE NORM. DIVE INTO CAPTIVATING STORIES, INNOVATIVE IDEAS, AND INSPIRING PERSPECTIVES THAT PUSH THE BOUNDARIES OF EVERYDAY LIFE. OUR MAGAZINE IS YOUR GATEWAY TO DISCOVERING THE FASCINATING, THE UNCONVENTIONAL, AND THE TRULY REMARKABLE. JOIN US AS WE JOURNEY BEYOND THE ORDINARY AND INTO THE REALMS OF ENDLESS POSSIBILITIES.

"BEYOND THE ORDINARY"

FROMRURAL ROOTS TO NODERN NARVELS"

MESSAGE FROM THE DEAN FACULTY OF BUSINESS



As the Dean of the Faculty of Business at NSBM Green University, I am delighted to witness the realization of the "Project 360", the new flagship magazine from the Project Management Circle of NSBM Green University. This endeavor showcases our commitment to establishing an innovative learning environment that fosters the exchange of fresh ideas and instigates transformative developments. "Project 360" encapsulates insights, expert knowledge, and practical advice, intending to equip our students and audience with the indispensable expertise required to excel in the complex realm of Project Management.

"Project 360" serves as a testament to the collaborative and rigorous ethos of NSBM Green University. Students, academics, and editors have wholeheartedly contributed their concepts, enthusiasm, and expertise to come up with a timely content in the domain of Project Management. This edition consists of in-depth articles, interviews with industry leaders, and innovative perspectives. "Project 360" provides a comprehensive overview of the prevailing trends and advancements in the field of Project Management.

Congratulations to all those involved in this remarkable publication. I am optimistic about the success of "Project 360" and the ongoing excellence of the Faculty of Business at NSBM Green University.

Ms. Thilini De Silva Dean Faculty of Business

MESSAGE FROM THE HEAD DEPARTMENT OF OPERATIONS AND LOGISTICS



It is with great pride that I extend my best wishes for the inaugural issue of Project 360, the official magazine of the Project Management Circle at NSBM Green University. Over the past year, Project Management Circle has gained a new strength with exceptional enthusiasm and dedication, of lecturers and students alike reaching impressive milestones in the field of project management.

This magazine showcases the successful collaboration between students, lecturers, and industry professionals, all working together to advance project management education. Here's to Project 360, for continuous growth and success in future!

Ms. Maneesha Dias Head Department of Operations and Logistics

MESSAGES FROM THE LECTURERS IN CHARGE



Mr. Maleesha Edirisinghe Master in Charge Project Management Circle

I would like to congratulate the dedicated students who are contributing to Project 360! This magazine, with its diverse range of articles, will showcase the next generation's prowess in project management. With themes ranging from Agile Project Management, Sustainability in Project Management, Artificial Intelligence in Project Management, Project Leadership and Collaboration, to Project Risk Management, Project 360 will create a comprehensive view from concept to completion. Finally, may your journey be filled with discovery and empowerment as you chart the course for the future of project management.

Ms. Lakni Horanage Mistress in Charge Project <mark>M</mark>anagement Circle



Through Project 360, we embark on an extensive exploration of every phase in a project's journey, from the initial spark of an idea to its triumphant completion. This magazine aspires to illuminate the intricate complexities and noteworthy triumphs inherent in each segment, providing valuable insights and inspiration. It is my hope that this publication will serve as a valuable resource for those seeking knowledge, delving into the art and science of Project Management and celebrating each milestone along the way.

MESSAGES FROM THE ACADEMICS OF THE DEPARTMENT



Mr. Shaja Musthaffa Lecturer Department of Operations and Logistic

Congratulations on the inaugural issue of "Project 360" by the Project Management Circle of NSBM Green University. This milestone marks our journey toward excellence and innovation in project management, focusing on the theme "from concepts to completion". I am immensely proud of our team's dedication. "Project 360" will be a beacon of knowledge, fostering learning, idea exchange, and collaboration. My deepest gratitude goes to all contributors. Let's uphold integrity, professionalism, and innovation. May "Project 360" inspire and connect our community.



Congratulations on the successful launch of the inaugural issue of Project 360 magazine! This achievement is a testament to your hard work, creativity, and dedication to the field of project management. This magazine not only showcases your talents but also sets a high standard for future issues. Keep up the great work, and continue to strive for excellence in all your endeavors.

MESSAGES FROM THE ACADEMICS OF THE DEPARTMENT



Mr. Praveen Ranaweera Lecturer Department of Operations and Logistic

I'm excited to announce the debut of "Project 360," the inaugural publication from the Project Management Circle at NSBM Green University. This milestone reflects the commitment to excellence in project management, with a focus on the journey "from concepts to completion." The dedication and hard work of the project management circle and the team have been truly remarkable. With "Project 360," they aim to be a pivotal resource for knowledge, fostering a vibrant exchange of ideas and collaboration. A sincere thank you to all who contributed and let's continue to lead with integrity, professionalism, and innovation. May "Project 360" be a source of inspiration and a bridge for our community's growth and connection.



SCHOOL OF BUSINESS Mr. Sachin Kulandaivel

Mr. Sachin Kulandaivel Lecturer Department of Operations and Logistic

It is with immense pleasure I congratulate the inaugural edition of Project 360, the official student magazine of the Project Management Circle, Department of Operations and Logistics. This magazine is a testament to the dedication and passion of our students and faculty, bringing together a wealth of knowledge and insights from the dynamic field of project management. Project 360 is more than just a collection of articles; it is a platform for learning, exploration, and innovation. Each article and interview featured in this magazine provides high-quality insights and a broader scope for research and learning. I hope that this magazine will serve as a valuable resource for students, researchers, and professionals alike, sparking curiosity and encouraging continuous learning.

MESSAGES FROM THE ACADEMICS OF THE DEPARTMENT



Ms. Hansika Deivendra Lecturer Department of Operations and Logistic

SCHOOL OF BUSINESS

I would like to congratulate the dedicated students who are contributing to Project 360! This magazine, with its diverse range of articles, will showcase the next generation's prowess in project management. With themes ranging from Agile Project Management, Sustainability in Project Management, Artificial Intelligence in Project Management, Project Leadership and Collaboration, to Project Risk Management, Project 360 will create a comprehensive view from concept to completion. Finally, may your journey be filled with discovery and empowerment as you chart the course for the future of project management.

"VILLAGES ARE THE HEARTBEATS OF A NATION, WHERE **TRADITIONS AND** SIMPLICITY BLEND **TO CREATE A** TIMELESS BEAUTY"

CHIEF EDITOR'S NOTE

CO - EDITOR'S NOTE





Greetings from the first edition of Project 360, I am thrilled to share a selection of thoughtprovoking articles that demonstrate our commitment to innovation and professional development in my capacity as Chief Editor and Secretary of the Project Management Circle at NSBM Green University. This publication is an example of the dedication and hard work of our community to further project management.

Every article is written with the intention of inspiring and educating you. I encourage you to interact with the material, get in touch with the writers, and use the knowledge for your own endeavors. Together, we can influence how inventive and effective project management will be in the future.

I invite you to interact with the material, establish a connection with the authors, and take an active role in the exciting world of Project Management. By working together, we may exceed expectations and succeed in all that we try to do.

We appreciate your participation in Project 360. Your suggestions are always appreciated. Greetings from the first edition of Project 360. It gives me great pleasure to deliver a selection of thought-provoking papers that delve into the complex realm of Project Management as the coeditor and academic director.

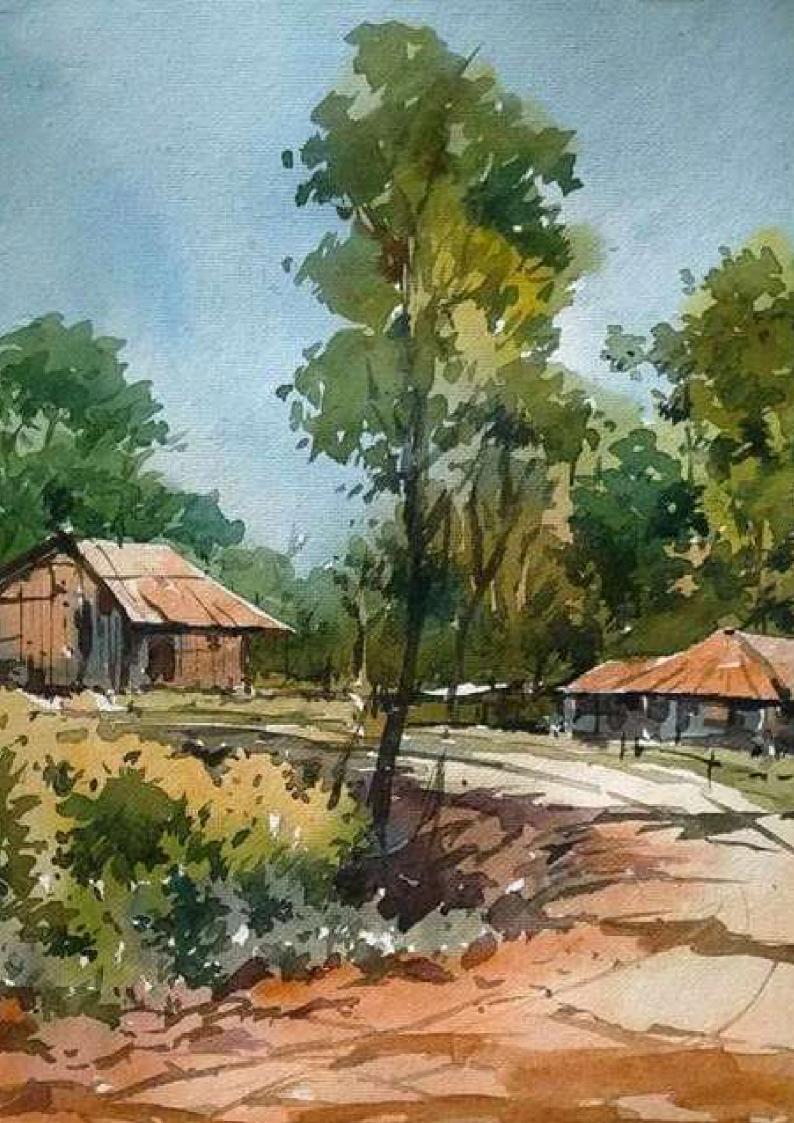
The devotion and enthusiasm of our students and contributors, who have put in endless effort to bring you the newest trends, best practices, and creative ideas in Project Management, is evident in this publication. Our mission is to create a community of project management experts who are prepared to take on the problems of the present and the future by offering a platform for learning and information exchange. This issue includes articles covering a wide range of subjects, including advanced techniques, realworld case studies, and Project Management foundations. Every composition aims to stimulate, instruct, and elicit contemplation, providing insightful viewpoints for experienced experts and novice project managers alike.

We appreciate you coming along for the thrilling ride.

Sasini Madara Herath Editor - in - Chief Secretary Project Management Circle Isuri Prasanthi Bandara Co - Editor Academic Director Project Management Circle

CONTENTS

01	Project Management Circle of 2023 – 2024	01
02	Sustainable Project Management	
	Thinking Beyond the Scope of Project Management: A Sustainable Approach	04
	Symphony of Sustainability: Organizing Green Projects	07
	Project Management Sustainability: Creating a Greener Future	11
03	Interview with Mr. Saman Kandanearachchi	15
04	Artificial Intelligence and Technology in Project Management	
	Artificial Intelligence: The Game Changer in Project Management	20
	Artificial Intelligence in Project Management: Revolutionizing the Way We Work	25
	How AI-Powered Tools are Revolutionizing Project Planning and Scheduling	27
	Revolutionizing Project Management: The Role of Artificial Intelligence	30
05	Leadership and Collaboration	
	Project Leadership and Collaboration	38
2	Alchemy of Leadership and Collaboration	40
06	Agile and Adaptive Project Management	
	Agile Project Management: Transforming Project Dynamics	43
	Navigating Economic Uncertainty: Strategies for Project Managers in Volatile Markets	45
07	Risk Management and Legal Considerations	
	Navigating Leading Landscapes: Mastering Project Management with Legal Acumen	48
	The Growing Significance of Project Risk Management in Today's Dynamic Business Environment	50
	Project Risk Management and Legal Factors	53



PROJECT MANAGEMENT CIRCLE OF 2023 - 2024



We are a dedicated team within the Department of Operations and Logistics in the Faculty of Business at NSBM Green University. Our journey began in May 2022 under the guidance of Senior Lecturer Mr. Sanath Wickramasinghe. His leadership was crucial in shaping our path until his retirement in 2023. During this foundational period, our team was guided by the inaugural board led by President Mr. Themiya Dharmathilaka. Their collective efforts set a strong foundation for our group, establishing a tradition of excellence and community engagement.

Our first significant milestone was the successful organization of our inaugural Project Management Day, named "Manaram." This event showcased our organizational capabilities and provided an enriching experience for all participants. "Manaram" seamlessly combined educational insights with enjoyable activities, making it a memorable occasion for students and faculty. The success of this event set a benchmark for future endeavors and demonstrated our potential to create impactful experiences.

As we transition into the 2023-2024 term, we are proud to announce the leadership of our current President, Mr. Gihan Jayananda. His vision and dedication are pivotal as we continue to build upon the legacy left by our predecessors. We are fortunate to have the valuable support of our new Master in Charge, Lecturer Mr. Maleesha Edirisinghe, and Assistant Mistress in Charge, Ms. Lakni Horanage. Their experience and guidance strengthen our leadership team, ensuring a cohesive and dynamic approach to our activities and initiatives.

Today, we are thrilled to introduce our second Project Management Day, "Project 360." This event represents a new chapter in our journey, symbolizing both continuity and growth. "Project 360" celebrates our collective achievements and sets a forward-looking vision for the future. Through this event, we aim to deepen understanding of project management principles and provide a platform for students to showcase their talents and creativity. It is an opportunity to reflect on our progress, celebrate our successes, and set ambitious goals of the future.

We extend a warm invitation to all members of the NSBM community and beyond to join us in celebrating the accomplishments of our dedicated board members. Our vibrant and dynamic community is the cornerstone of our group's strength, and we are eager to share our enthusiasm and energy with everyone. As we look towards the exciting future ahead, we are committed to fostering a culture of excellence, collaboration, and continuous learning. Together, we will continue to build a supportive and inspiring environment that nurtures the growth and development of all its members.





IT'S YOUR FUTURE MAKE IT COUNT

GRADUATE WITH A 360° DEGREE FROM NSBM GREEN UNIVERSITY

AFTER A/L

BSc in BUSINESS MANAGEMENT PROJECT MANAGEMENT (SPECIAL)

UGC Approved - Offered by NSBM

BUSINESS | COMPUTING | ENGINEERING | SCIENCE | LAW | DESIGN







Affiliated exclusively to top - ranked universities



SUSTAINABLE PROJECT MANAGEMENT

THINKING BEYOND THE SCOPE OF PROJECT MANAGEMENT: A SUSTAINABLE APPROACH

We have made great progress as a society in our sustainability efforts. Utilizing green power, conserving water, eliminating waste, and reusing materials have all increased significantly. The acceptance of our increased responsibility to care for the environment is demonstrated by the adoption of the Sustainability Development Goals (SDGs) by an increasing number of organizations.

Business investment decisions are starting to be impacted by these developments as well. In project management, sustainability qoes beyond the trend. Instead, it modifies the way we choose, carry out, and even consider the value of a project. Project management techniques need become more environmentally to and future-friendly. friendly, Improvement of technology has positively impacted the efficiency of project delivery over time yet the impact of technology towards improvement of sustainability of projects is yet to be discovered.

"Sustainable project management is the planning, monitoring, and controlling of project delivery and support processes, with consideration of the environmental, economic, and social aspects of the life-cycle of the project's resources." or simple terms it can be defined as projects whose strategies include procedures that take environmental and social concerns into account.

During the duration of a project, project managers should oversee the use of resources and take into account how their actions may affect the mitigation of climate change and other sustainable issues, both inside and outside the scope of business. Nowadays businesses give top priority to sustainability considering factors such as customer preferences, negative publicity, and financial savings. A methodology followed in implementing sustainability within an organization is as follows.

There are four elements related to sustainability under this methodology.

Globally, businesses are incorporating ESG (Environmental, Social and Governance) practices into their operations. There are some kev frameworks that have integrated these standards and the PRiSM and P5 standards are the most significant frameworks out of them. The PRiSM Approach is a project management system that prioritizes environmental, social, and economic sustainability. It aims to minimize carbon footprint, reduce resource consumption, and improve social well-being. Kev elements include stakeholder engagement, eco-friendly design, efficient resource management, and continuous monitoring of sustainability performance. There are four delivery PRiSM phases in framework. Definition, Design, Delivery and Handover

The P5 framework involves decision making and foster recourse allocation efficiency.

Expanding upon the old 3Ps, the P5 standard is a redesigned set of project management guidelines that emphasizes the implementation of plans that are socially, environmentally, and economically responsible.

People: The importance of project teams with qualified, dedicated

members who understand and are skilled in sustainability is emphasized in the work. Process: highlights how important it is to develop exact project workflows and methodologies that take sustainability standards into consideration. Progress: It is highlighted how crucial it is to keep an eye on project performance and sustainability commitments at all times. Performance: To ensure all project objectives are achieved. Purpose: То align all project sustainability objectives.



The approach attempts to execute on projects that will be helpful to society for many years while simultaneously enhancing the organization's viability, reputation, profitability, and efficiency. Project managers are the drivers if projects are the vehicles for corporate strategy. Therefore, your project managers need to be change agents if the goal of your organization is to become more sustainable.

However, haphazardly implementing sustainability measures is insufficient. Specialized training is necessary for project managers to fulfil all the demands of their position. When necessary, they must be able to interact directly with stakeholders and speak on behalf of the company in public. Project managers are therefore better equipped to use sustainability concepts in all facets of delivery thanks to training. Many people might be surprised about how initiatives might be effective if sustainability plays a long game because they are temporary. However, initiatives assist businesses in achieving their longterm investment goals. There is greater significance for projects and project management beyond the project itself.

A project can be planned and kept "green" by having a thorough understanding of them. Trade-offs between the economic, social, and environmental aspects of a sustainable project management decision must be made, much like a project manager must balance the economic variables of cost, time, and scope.

By creating plans, goals, and strategies and putting them into action within a specific framework, the project management profession as a whole should support the Sustainable Development Goals. А global organization such as International Project Management Association can offer the profession of project management sustainability its best practices and acknowledge the attainment of sustainability in projects.

When we consider sustainability in construction side there is a significant impact. Construction sustainability can be defined as an ecologically conscious and resource-efficient built environment. It has an impact on the materials and architectural designs of structures. It also affects how the buildina operates and what maintenance it will need in the future. The goal of sustainable building is to reduce or entirely eliminate any negative effects that construction may have on the environment, residents' productivity and health, and operating expenses. We can identify some benefits of construction sustainability as follows. Buildings with sustainable construction have a 7% higher worth, The European Commission estimates that running expenses for sustainable buildings can be reduced by €410 billion annually, public relations benefits greatly from sustainable building, Sustainable construction enhances productivity and well-being in people.

We have benefits from sustainability project Management. The following benefits can be highlighted in integrating sustainability into project management. Cost saving- With managing material use, energy efficiency, and resource consumption, sustainable project management helps to save costs. It minimizes operating expenses, maximizes resource utilization, and decreases waste. This strategy improves operational effectiveness and return on investment (ROI) while ensuring longterm financial stability and reducing Enhanced costs. Stakeholder Relations and Image- Sustainability helps a business position itself in an Eco-aware market by having a beneficial effect on its brand image. Additionally, it improves project support and community involvement. Increased cooperation and project success result from the adoption of sustainable practices, which cultivate and cooperation trust among such stakeholders as workers, investors, and regulators. Enhanced innovation - Project management

techniques are evolving, innovation is encouraged, and creative problemsolving is encouraged when sustainability is incorporated. This dedication pushes the boundaries of conventional thinking and promotes creative answers to difficult problems. Adopting cutting-edge technologies, progressive management techniques, and the investigation of novel paths are all encouraged by sustainable practices. This integration advances the field in addition to improving the project's environmental and social impact. Transparency of reporting and communication- The amount of reporting is frequently limited by traditional project communication. Nonetheless, increased corporate accountability and transparency with regard to both internal and external stakeholders are valued by sustainability considerations. Additionally, reporting occurs more frequently than when it is necessary. Resilience of the Supply Chain - Longterm resilience and the mitigation of supply chain problems are ensured by integrating sustainable suppliers into procurement. Because these suppliers handle social and environmental concerns, they are less vulnerable to interruptions. In addition to reducing short-term procurement difficulties, this proactive strategy lays the groundwork for long-term stability, assisting with project continuation and promoting an ethical supply chain ecology. Impact on environment - An organization's environmental impact is also enhanced via sustainable project Proiects management. activelv contribute to the reduction of carbon emissions, supporting a cleaner and more sustainable energy landscape, by integrating renewable energy sources and using energy-efficient technologies. Reducing environmental impact, promoting biodiversity, and preserving ecosystems are further benefits of sustainable procurement and responsible raw material use. Reuse and recycling initiatives reduce waste and contribute to a circular economy by reducing the amount of waste that ends up in landfills. Projects that implement these

eco-friendly techniques help to significantly reduce their carbon footprint overall, clearing the way for a cleaner, future that benefits greener the participating organizations as well as the entire world population. Project managers are essential in helping organizations move toward a more sustainable future and fostering a sustainable future. Their knowledge of project lifecycles, resource allocation, stakeholder management, and risk mitigation guarantee that sustainability is included into a business's strategic goals. Incorporating environmental issues throughout the project lifecycle is one of the most important tasks that project managers play in promoting sustainability. They are able to evaluate the environmental effects of projects from the outset to the end and spot chances to cut down on waste, save natural resources, and reduce carbon emissions.

> R.A.J. Chanika 22.2 Batch, BSc in Business Management (Project Management) (Special)



SYMPHONY OF Sustainability: Organizing Green Projects

In today's rapidly changing world, sustainability has become a more and more critical consideration across almost every field. Organizations have recognized the interconnection of environmental, economic, and social factors. As a result of it, sustainable project management is more important than ever. Project sustainability involves both individual and organizational responsibility to ensure that outputs, outcomes, and benefits are sustainable over the life cycles and during their creation, disposal, and decommissioning. Sustainability in project management goes beyond being a temporary trend or mere compliance. lt represents а fundamental shift in how projects are approached, focusing on more than just short-term goals. Sustainable project management involves evaluating a project's impact not only in the immediate future but also over the long term, considering the wellbeing of people, environmental health, and economic prosperity. This approach requires a holistic view that integrates social, environmental, and economic considerations into decision-making processes. By doing so, project managers can create lasting value and positive outcomes that benefit both current and future generations, ensuring that projects contribute positively to society and the environment while achieving economic goals. Several sectors have led creative approaches to reduce environmental effect in the field of sustainability. UPS's ORION program, for example, seeks to optimize delivery routes in order to save millions of gallons of gasoline and emissions each year ("UPS's ORION:

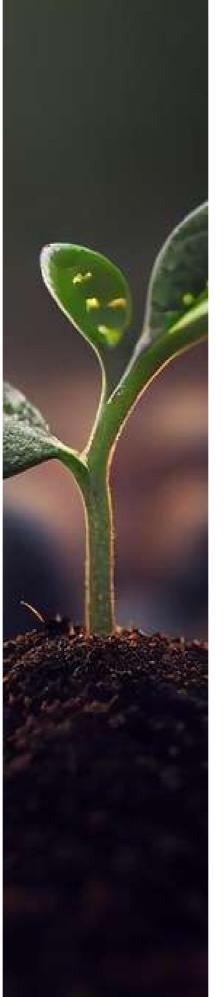
The Algorithm That Will Save 10 million Gallons of Fuel Per Year," UPS Pressroom). Comparably, H&M's "Let's Close the Loop" campaign encourages consumers to recycle their old clothing, reducing waste and promoting sustainable practices ("H&M's Garment Collectina Initiative," H&M Group). This helps to advance a circular economy. These initiatives provide as examples of how businesses can incorporate sustainability into their daily operations, resulting in observable environmental advantages and supporting international sustainability objectives.

Sustainable project management was primarily judged by the sustainability of the project's outcomes. For example, a project was considered sustainable if it resulted in a building that achieved a high Green Star rating, indicating strong environmental performance. However, as the field has matured, there's been a growing recognition that sustainability in project management encompasses more than just the results. The Green organization Project Management highlights that the methods, tools, and techniques used throughout the project lifecycle are crucial determinants of sustainability. This means that sustainable project management involves integrating sustainable practices at every stage of the project, from planning and execution to monitoring and closure. The distinction between "sustainability of the project" and "sustainability by the project" has become more pronounced. "Sustainability of the project" refers to how the project itself



is managed sustainably, considering the processes and practices used to ensure minimal negative impacts and positive contributions to sustainability. On the other hand, "sustainability by the project" focuses on the sustainability of the project's outputs and whether they meet specific sustainable goals. When sustainability is considered across all project areas, it ensures that every decision and action taken contributes to reducing negative environmental impacts. Project managers play a crucial role in this process as they oversee the use of resources throughout the project's lifecycle. They need to consider both internal factors, such as the efficiency of processes and resource allocation within the organization, and external factors, such as the project's impact on the environment and community. This comprehensive approach requires project managers to evaluate sustainability from the initial planning stages through to project completion and beyond.

By adopting a holistic perspective on sustainability, project managers can make informed decisions that balance resource consumption with environmental stewardship. This includes selecting sustainable materials, implementing energyefficient practices, and considering the long-term effects of the project on the environment. Ultimately, this approach aims to create projects that are not only successful in terms of their immediate objectives but also contribute to the well-being of the planet in the long run. Environmental responsibility is increasingly recognized as essential for sustainable development. Bv integrating considerations of energy consumption, waste reduction, and resource conservation into project planning and implementation, organizations can contribute positively to environmental stewardship while meeting their goals and responsibilities. This approach not only benefits the environment but also enhances corporate reputation,



reduces regulatory risks, and often leads to cost savings over the long term. By integrating considerations of social equity into project planning and implementation, organizations can contribute to sustainable development and foster inclusive growth. This approach not only enhances the project's social license to operate but also builds resilient communities, fosters long-term relationships with stakeholders, and contributes to well-being broader societal and prosperity.

Through a number of significant projects, global industries have successfully incorporated the ideals of social fairness and sustainability. For instance, The Coca-Cola Company's 5by20 Initiative seeks to enable 5 million women entrepreneurs by 2020 through the provision of financial services, support networks, and training in business skills.

This will enable the women to establish sustainable enterprises and enhance their standard of living. The three main objectives of Unilever's Sustainable Living Plan are livelihood enhancement, environmental impact reduction, and health and well-being improvement. In order to promote equitable wages, boost productivity, and enhance agricultural methods, the corporation works with smallholder farmers in rural areas. thereby fostering social and economic development.

Furthermore, by providing financing initiatives that leverage for AI technology to improve accessibility and advance inclusion and equal opportunities, Microsoft's AI for Accessibility Program empowers individuals with impairments. These programs show how forward-thinking businesses incorporate social justice and sustainability into their daily operations to create positive change and advance world development.

Economic viability and sustainability are interconnected concepts where

responsible environmental and social practices not only align with long-term profitability but also enhance competitiveness, reduce risks, and create value for stakeholders. Organizations that prioritize economic viability through sustainable practices are better positioned to adapt to evolving market dynamics, regulatory requirements, and stakeholder expectations while driving positive economic outcomes.

By adopting sustainability in project management, organizations play a crucial role in mitigating the environmental impact of human activities. Sustainable project management is a complex endeavor, but it yields significant environmental, social, and economic advantages.

Moreover, sustainability in project management surpasses mere regulatory compliance, it represents a proactive strategy that incorporates environmental, economic, and social goals into every stage of a project's lifecycle. Sustainable projects are efficient, well-managed, and provide lasting benefits.

Looking ahead, the importance of sustainability will only increase. Organizations that implement sustainability initiatives will gain a competitive advantage, create superior products, and foster stronger community relationships. Embracing sustainability in project management is key to contributing to a brighter future and generating value for future generations.

D.H. Dilini Senarath 23.2 Batch BSc in Business Management (Project Management) (Special)







IT'S YOUR FUTURE MAKE IT COUNT

GRADUATE WITH A 360° DEGREE FROM NSBM GREEN UNIVERSITY

AFTER A/L

BSc (Hons)

OPERATIONS AND LOGISTICS MANAGEMENT

ACCREDITED BY THE CHARTERED INSTITUTE OF LOGISTICS AND TRANSPORT (CILT) - INTERNATIONAL

University of Plymouth - United Kingdom







Affiliated exclusively to top - ranked universities



BUSINESS | COMPUTING | ENGINEERING | SCIENCE | LAW | DESIGN

PROJECT MANAGEMENT SUSTAINABILITY: CREATING A GREENER FUTURE



Sustainability has evolved from a catchphrase to a vital aspect of corporate strategy and operations in today's rapidly changing world. Project management is becoming more and more important as businesses work to fulfill the ever-increasing demands of environmental responsibility. The significance of sustainability in project management is examined in this article, along with ways in which project managers apply can sustainable practices to produce longlasting value.

In project management, sustainability refers to a wider range of factors, including social and economic aspects, than just reducing environmental effect. The implementation of sustainable project management guarantees that the current initiatives don't interfere with the ability of future generations to meet their needs. In keeping with the triple bottom line of people, planet, and profit, this all-encompassing strategy encourages a fair and moral approach to project management. For a number of reasons, sustainability is becoming a crucial factor in project management. First of all, companies have been forced to embrace more sustainable practices as a result of growing environmental consciousness and the imperative to combat climate change. Stricter environmental rules also imposed are beina bv governments and regulatory agencies, which forces companies to incorporate sustainability into their operations.

Project managers can actively reduce their projects' environmental footprints by optimizing resource use minimizing waste, and adopting renewable energy sources. This can be achieved through green procurement, energyefficient practices, and sustainable construction methods.

Environmental stewardship entails taking a project's whole lifecycle into account, from start to finish and beyond. With the use of sustainable materials, renewable energy sources, and energy-efficient technology, project managers should concentrate on sustainable design, construction, operation. For example, and employing locally or repurposed materials can greatly lessen the environmental effect of building projects. Additionally, implementing energy-efficient systems, such as LED lighting and HVAC (heating, ventilation, and air conditioning) systems, can lower energy consumption and greenhouse gas emissions.

The financial effects of projects must be carefully considered to practice sustainable project management. This includes profitability and costeffectiveness as well as long-term financial resiliency and stability. The purpose of projects should be to add value without wasting money or resources. Value engineering and lifecycle costing must be given top priority by project managers to be financially responsible. Lifecycle costing is the process of analyzing a project's overall cost across its entire life, which includes the initial capital investment, continuing operating costs, maintenance costs, and final disposal or decommissioning. Project managers can make well-informed decisions that optimize costs and guarantee long-term financial sustainability by taking these aspects into account.

Value engineering is a crucial aspect of economic responsibility. This means dissecting the operation of project systems and components to find areas where costs could be cut without compromising efficiency or quality. This tactic encourages thinking innovative and resource efficiency, which eventually leads to projects that are more financially feasible.

By guaranteeing fair labor practices, community involvement, and beneficial societal impact, projects should promote social well-being. In project teams and stakeholders, this principle highlights the value of moral decision-making, diversity, and inclusivity.

the welfare all Promoting of stakeholders, including workers, local communities, and society at large, is a key component of social justice in management. Fair labor project standards, such as providing all employees with equal opportunities, safe working conditions, and fair

salaries, should be a top priority for project managers. Furthermore, interacting with local people and considering their requirements and worries can boost the project and foster a sense of trust.

In projects like infrastructure development or urban regeneration initiatives that have a big impact on the local population, community engagement is especially crucial. Project managers may build strong bonds and guarantee that projects provide the community with real benefits by including members in the decision-making process and listening to their concerns.

Sustainable project management requires a comprehensive approach that integrates sustainability at every stage of the project lifecycle from initiation to closure. Here's how project managers can embed sustainability into their projects:1. At the outset of the project, sustainability goals ought to be clearly stated and consistent with the organization's strategic objectives. To identify and manage sustainability issues at an early stage, stakeholder participation is vital. Since this aspect of the project establishes the foundation for the others, sustainability needs to be considered from the outset. To guarantee that sustainability objectives are in line with organization's the broader sustainability strategy, project managers should collaborate with stakeholders to clearly define them. Stakeholder consultations, environmental impact evaluations, and feasibility studies may be conducted to determine possible sustainability opportunities and obstacles.

An excellent example of how to incorporate sustainability goals at the start of a product development project is the outdoor apparel company Patagonia. Patagonia set high standards for sustainability early in the planning phase, including making sure that fair labor practices were followed and that all materials were 100%

recycled or obtained responsibly. Patagonia identified important efforts, such using cutting-edge recycled textiles and lowering water usage in manufacturing processes, through thorough stakeholder engagement and environmental impact evaluations. Patagonia makes sure that every new product is in line with its aim to reduce environmental impact and promote social responsibility by including these sustainability goals from the outset. Project managers should create a sustainability management plan that includes detailed activities, measurements, and benchmarks at the planning stage. Risk assessments ought to be a part of this plan to determine possible effects on the environment and society.

The project's integration of sustainable practices is guided by a thorough sustainability management strategy. It should include sustainability objectives, such cutting back on waste, improving social fairness, or lowering carbon emissions. Together with specific steps and deadlines for accomplishing these objectives, the plan should also include metrics and benchmarks for tracking development. Risk assessments play a crucial role in the planning stage by assisting in the identification of any environmental, social, and financial hazards related to the project. Project managers can create mitigation measures to reduce adverse effects and improve project resilience by proactively addressing these risks. The plan should be followed when implementing sustainable practices for the project. This entails keeping a close eye on sustainability performance and adjusting as needed to stay on course. The actual application of sustainable practices described in the sustainability management plan takes place during the execution phase. It is imperative for project managers to guarantee that all project-related actions are carried out in compliance with approved sustainability rules and This could standards. entail encouraging sustainable procurement methods,





reducing waste production, and implementing energy-efficient devices. To make sure that the project stays on course to meet its sustainability objectives, it imperative to is sustainability continuously assess performance. performance Kev indicators (KPIs) are a useful tool for project managers to track their progress and pinpoint areas that need improvement. Frequent inspections and audits can assist guarantee adherence to sustainability requirements and offer insightful input for required modifications. To gauge success and advancement, Project should managers employ sustainability metrics Frequent and audits aid in assessments ensuring adherence to sustainability guidelines pinpointing and opportunities for development.

Throughout the project lifespan, continuous assessment and evaluation of sustainability performance is part of the monitoring and controlling phase. To gauge success and development, project managers ought to employ a variety of sustainability indicators, including waste production, energy usage, carbon emissions, and social impact measurements. Periodic audits and assessments pinpoint areas for improvement and offer insightful information on how well sustainability programs are working. Proiect managers may make well-informed decisions to improve sustainability outcomes and guarantee that the project stays in line with its sustainability objectives by evaluating performance data and doing regular reviews.

To evaluate the overall impact and record lessons gained, a sustainability review should be carried out when the project is closed. This review adds to the organization's body of knowledge on sustainability and offers insightful information for upcoming initiatives. A thorough analysis of the project's sustainability performance and results is conducted at the closure phase. Project managers ought to carry out

an extensive sustainability evaluation to capture lessons learnt and appraise the project's overall impact. Performance in relation to sustainability goals, stakeholder feedback, and sustainability measures should all be analyzed in this assessment. For internal knowledge sharing and ongoing organizational progress, recording lessons learned is essential. Project managers can add to the organization's knowledge base on sustainability and make sure that lessons learned are applied to future projects by documenting insightful observations and best practices.

Projects involving green buildings are excellent examples of sustainable project management. The creation of friendly, resourceecologically efficient, and energy-efficient buildings is the main goal of these initiatives. Green building development is guided by the widely accepted LEED in Energy and (Leadership Environmental Design) certification. Project managers may guarantee that their projects fulfill high sustainability standards and produce healthier living environments and less carbon footprints by following LEED criteria. A variety of sustainable techniques is incorporated into green construction projects, including the utilization of renewable energy sources, efficient water use, and the promotion of indoor environmental quality. One of the greenest business buildings in the world, for instance, is the Bullitt Center in Seattle, Washington . It has a number of environmentally friendly elements, such as geothermal heating and cooling, and

and cooling, solar panels, and rainwater collection systems. The Bullitt Center shows how green buildings may drastically lessen their impact on the environment and acts as a paradigm for sustainable building design.

Solar and wind power installations are examples of renewable energy projects that are at the forefront of sustainable project management. These initiatives help lower greenhouse gas emissions in addition to offering renewable energy options. In the field of renewable energy, project managers have to handle complicated regulatory environments, control stakeholder expectations, and guarantee the projects' long-term profitability. Successful renewable energy projects demonstrate how sustainability can drive innovation and economic growth.

А prominent illustration of а prosperous renewable energy initiative is the Hornsdale Power Reserve located in South Australia. The largest lithium-ion battery storage system in the world is included in this project by Tesla and Neon, which facilitates the grid's integration of renewable energy sources. Reliable and sustainable energy storage is provided by the Hornsdale Power Reserve, which contributes to grid stabilization and a decrease in the need for fossil fuels. his project highlights the potential for renewable energy projects to drive technological innovation and support sustainable development.

There will be an increasing need for project managers with experience in sustainable practices as sustainability becomes a core component of corporate strategy. Project management's future depends on its capacity to strike a balance between social, environmental, and economic factors to produce effective, longlasting initiatives. Implementing the concepts of the circular economy is one new trend in sustainable project management. Reusing, recycling, and repurposing materials are encouraged by the circular economy to reduce waste and increase resource efficiency. By planning projects that prioritize resource efficiency, waste reduction, and the utilization of recycled materials, project managers may put these ideas into practice. This approach improves both long-term economic resilience and sustainability.

Advances in digital technologies like artificial intelligence (AI), big data analytics, and the Internet of Things (IoT) are driving changes in

sustainable project management. With the use of these technologies, project managers may gather and evaluate vast volumes of data, enhance decision-making procedures, and maximize resource utilization. For project managers instance, can identify potential sustainability risks and develop preemptive mitigation plans using AI-driven predictive analytics. Sustainability in project management is now required, not optional. By implementing sustainable practices and incorporating them into all aspects of project management, businesses can achieve long-term success and make a positive impact on the whole community. Project managers are essential to this transition because they are paving the way for a sustainable future where projects benefit people, the environment, and prosperity. The relevance of sustainable project management will only increase as long as the world community struggles with social injustice and environmental issues. By adopting a comprehensive approach to development and integrating sustainability into their initiatives, project managers create significant change. Through prioritizing social equality, economic responsibility, and environmental stewardship, project managers may generate enduring value and help ensure a sustainable future for everybody.

E P Nimna Chamodi 22.2 Batch BSc in Business Management (Project Management) (Special)



"Fail Fast, Learn Fast"



Project Management Institute. Colombo Sri Lanka

Mr.Saman Kandanearachchi President of PMI Colombo Sri Lanka Chapter Deputy General Manager - Program Management at Sri Lanka Telecom PANELIST **PROJECT 360: The Project Management Day**

INTERVIEW WITH MR. SAMAN KANDANEARACHCHI

Could you share with us a bit about your career journey and how you came to be the President of the **Project Management Institute of Sri Lanka?**

I started my career in 1998. I graduated from the University of Moratuwa as an Electrical Engineer. After that, I joined Sri Lanka Telecom as an Electrical Engineer. Initially, I worked there in logistics and engineering stores for two years. Then I changed my career to telecommunication projects, computerizing Sri Lanka Telecom. That was my first ERP project. I worked on it for eight years as an engineer in mature planning at Sri Lanka Telecom.

During that time, we initiated the first electronic tender project in the computerized Sri Lanka Telecom, and now all telecommunication stalls use this logistics with confidence. It marked the first wave of transformation in Sri Lanka Telecom. By 2008, I had gained experience in many projects. I thought about formalizing my Project Management experience with a qualification. So, in 2008, I earned my Project Management Professional (PMP) certification. And it is one of the most prestigious qualifications for Project Management professionals in the world. It is offered by the Project Management Institute (PMI) USA, found at www.pmi.com. In 2010, I began volunteering with the PMI Sri Lanka Chapter. Since then, I have progressed through the ranks at Sri Lanka Telecom, eventually becoming the Deputy General Manager while continuing my volunteer work. Now, I am the Deputy General Manager of Program Management at Sri Lanka Telecom as well as the President of the PMI Sri Lanka Chapter.

What are some of the current trends and emerging practices in Project Management that you believe are shaping the future of the field?

I believe Project Management is not only a profession; it's a career for lifelong learning. As a lifelong journey, it involves continuous growth without a definite start or end. As students at a university, your life itself is a project. Project Management is a profession for everyone, and it evolves with current trends.

Earlier, Project Management relied heavily on traditional methods. However, as the world changes - what we refer to as "VUCA," which stands for Volatility, Uncertainty, Complexity, and Ambiguity – has made detailed planning less feasible. After COVID-19, the business world is rapidly changing, and your plans must adapt accordingly.

Otherwise, whatever you deliver may not be accepted by the customer. Thus, "VUCA" signifies constant change, necessitating a shift from a productive methodology to an adaptive methodology in both technology and Project Management. We now adjust Project Management plans and implementations based on customer needs, which is one of the emerging trends. AI is increasingly integrated into Project Management across various professions. Many AI tools are available, and learning new techniques, tools, and methodologies is essential to becoming a professional in Project Management. Without this, you risk being perceived as just an ordinary individual, with your value not recognized in the industry.

Learning AI, MS Project, and other tools such as Jira, along with concepts like servant leadership, communication skills, and soft skills, are crucial for navigating this complex world, especially from a business mindset.

How important do you think it is for academic institutions to align their curricula with industry trends?

Since I teach at NSBM Green University, I understand that it is crucial to always align with the industry. Academic institutions cannot operate in isolation; they need to keep up with industry trends and integrate them into an open system. We must continuously gather feedback from the industry and adjust the curriculum accordingly. Therefore, it is essential for academia to stay connected with the industry and regularly update curricula. This alignment ensures that graduates are well-prepared for job opportunities. Without this connection, you may find it challenging to secure a good job after graduation.

What do you see as the biggest challenges facing project managers today, both globally and in Sri Lanka specifically?

One challenge we face is thinking we know everything. We need to be open to learning and adapting. This concept is called **"Fail Fast, Learn Fast"**. It means that you try to implement available knowledge, test it, and then learn about the project. You proceed with the project and implement it, sometimes encountering failure. However, once you fail, you need to learn from it and improve your skills. To succeed, embracing the **"Fail Fast, Learn Fast"** approach is crucial.

An important aspect of this approach is risk-taking. You need to be willing to take risks. Without taking risks, you won't be able to move forward. Sometimes, we desire 100% perfection in our world. However, 100% perfection is not achievable because as you aim for perfection, time progresses, and changes occur. Thus, always be willing to take risks and maintain a learning attitude. Learn as much as possible and keep an open mindset.

Conversely, what are some of the most exciting opportunities for project managers in today's dynamic business environment?

The Project Management landscape is changing very rapidly. One thing to understand is that whatever you learn theoretically will not always apply perfectly in practice. Things evolve once you enter the industry. The key is to maintain an open mindset. As the industry progresses, many new developments emerge. AI has significantly transformed this landscape, and there are many new tools available, including those on the internet. Traditional methods of learning are no longer sufficient.

You should be proactive in learning and adapting to future aspects of Project Management. With AI becoming a part of technology, you can integrate AI into Project Management. For instance, you could use AI tools for engineering and designing tasks. This shift is evident in the evolving role of project managers. Additionally, Project Management is increasingly seen at a strategic level; organizations aiming to advance from one step to the next must undertake new actions, which are essentially projects.

By definition, a project is a temporary endeavor undertaken to improve an organization's product or service. Therefore, any new initiative is considered a project. If you are on LinkedIn, you will see numerous opportunities for Project Management interns daily.



In your opinion, what are the most critical skills that project managers need to develop to be successful in their roles?

There are three key areas of knowledge in Project Management: general knowledge, domain knowledge, and Project Management knowledge. Among these, domain knowledge is crucial for a project manager's success. Additionally, project managers must excel in people management, which includes essential soft skills such as communication and the ability to effectively use technology and software.

What are the different professional/academic certifications/qualifications that PM graduates should obtain to excel in this field?

When it comes to certification, as the PMI President, I would highlight the importance of the CAPM certification. CAPM stands for Certified Associate in Project Management. This is an entry-level certification available to degree holders without any professional experience.

Following the CAPM, there is the PMP certification. PMP stands for Project Management Professional and is highly recognized in the industry. To be eligible for the PMP, you typically need about three years of professional experience.

There are approximately 1.4 million PMI members globally. For those interested in Agile methodologies, the certification to consider is the ACP, which stands for Agile Certified Practitioner. Agile certifications are particularly relevant in the software industry. Additionally, there are Discipline Agile Scrum Master certifications. For business analysis professionals, the PBA, or Professional in Business Analysis, is a valuable qualification provided by PMI.

Where do you see the field of Project Management heading in the next five to ten years?

An important factor in Project Management is that failures can occur. Customer expectations often change, so what you plan at the beginning of a project may not align with the customer's final needs. It is crucial to continuously engage with the customer to ensure that their evolving expectations are met. Looking ahead to the next five to ten years, we will see increased integration of AI and dynamic tools in Project Management. Soft skills will become even more important, and the Project Management Office (PMO) will play a critical role. I believe that program management certification will become increasingly valuable in the future. At PMI, we anticipate that the next generation will face significant challenges related to climate change. Sustainable Development Goals (SDGs) will be a crucial strategic initiative, focusing on reducing the planet's temperature. As a result, projects will need to become more environmentally friendly.

Can you share how students can gain practical experience in Project Management while still in university, and what tools or platforms you recommend for building essential skills and potentially earning income?

If you know how to create a project charter, project proposal, and work breakdown structure, you can log in to the Fiverr app. I used it when I was in university and managed to cover some of my expenses through the app. Working on project charters and proposals can provide valuable experience as an intern. It will give you insights into what is happening in the industry and familiarize you with essential tools. As a newcomer, this experience will help broaden your mindset.

Additionally, I recommend exploring entrepreneurship. Using tools like Canva, which offers various templates, can help you prepare business plans and start-ups. Canva can be particularly useful for creating visual presentations and documents for your business ventures.

How can individuals get involved with PMI Sri Lanka and benefit from its resources and network?

PMI India has a student circle associated with their local chapters, which offers special benefits for university students. They provide students with the opportunity to obtain the CAPM certification at a reduced cost.

For PMI membership, the standard fee is \$99, but students pay only \$30 per year. Additionally, the regular membership fee is \$10, while students pay just \$5 per year.

This reduced fee helps students access valuable resources, including the PMI library and various volunteer opportunities. By embracing this network, you can benefit from enhanced networking opportunities, access to a knowledge hub, and potential job prospects.

PMI also offers resources for further academic pursuits, such as MBA or PhD programs.



What message would you like to convey to the readers of PM 360, especially the students and young professionals at NSBM Green University?

I am happy to be involved with the students of Project Management Circle in NSBM Green University. Regarding Project 360, after two years with PMI, I am excited to engage with the project, offer guidance, mentor students, and support them in their Project Management related endeavors. I also want to express my eagerness to help the younger generation in this field. Project Management is a profession that offers great potential for growth, so don't overlook it. It's important to stay active in the field, build your network, and engage with both corporate and professional bodies, such as our PMI chapter or even CILT.

Good luck for your future endeavors with "Project 360"!



ARTIFICATION OF CONTRACT OF CO

ARTIFICIAL INTELLIGENCE: THE GAME CHANGER IN PROJECT MANAGEMENT



In recent years, Artificial Intelligence (AI) has emerged as a game-changer across various industries, including Project Management. As projects grow in complexity and teams become increasingly distributed, AI offers innovative solutions to enhance efficiency, predictability, and decisionmaking.

AI is revolutionizing Project Management by enhancing decisionmaking through predictive analytics, automating routine tasks, and improving team collaboration. Alpowered tools analyze vast amounts of historical project data to identify patterns and predict future outcomes, enabling project managers to foresee potential issues and make informed decisions.

For instance, Microsoft leveraged AI to predict delays and resource shortages, resulting in a 20% improvement in project delivery times. Additionally, AI automates timeconsuming tasks like scheduling, reminders, and report generation, freeing managers to focus on strategic activities. According to McKinsey (2023), this automation can reduce administrative time by up to 20%. Aldriven collaboration tools also suggest optimal meeting times and provide real-time language translation, fostering better communication, especially in global teams. Slack's integration of AI (2022) improved team engagement by 15%.

Moreover, AI significantly enhances resource management and risk analyzing workload mitigation. By patterns and predicting future resource needs, AI ensures optimal resource allocation, maximizing productivity and reducing downtime. IBM's use of AI for resource management (2021) has led to a 40% increase in project efficiency and a 25% reduction in resource costs. AI also continuously monitors project parameters, identifying potential risks early and allowing managers to develop effective mitigation strategies.

NASA's use of AI in risk management for space missions has significantly reduced unforeseen issues, leading to more successful mission outcomes.

However, the adoption of AI in Project Management is not without its challenges. Key issues include data privacy concerns, the potential for bias in AI algorithms, and the significant investment required for AI implementation. Ensuring data privacy is critical, as AI systems often rely on vast amounts of sensitive information. Bias in AI algorithms can lead to inaccurate predictions and unfair outcomes, necessitating rigorous testing and validation. The cost of AI tools and the need for specialized skills can also be barriers for many organizations.

Addressing these challenges is essential to fully realize the benefits of AI. For example, implementing robust data privacy measures, continuously improving AI algorithms to reduce bias, and investing in training programs to build AI expertise within teams can help overcome these hurdles. By addressing these issues, organizations can ensure that AI systems operate efficiently and fairly, enhancing overall service and quality.

Further, Al-driven tools play a crucial role in enhancing customer satisfaction by providing accurate timelines real-time project and updates, fostering transparency and trust. Al-powered chatbots and virtual assistants offer stakeholders instant access to project information, ensuring they are always informed. A marketing agency could use AI to provide clients with real-time updates on campaign performance, resulting in a 25% increase in client retention rates. A PwC survey revealed that 73% of customers are more satisfied when they receive regular updates and transparent communication facilitated by AI. AI also analyzes customer feedback and sentiment, helping organizations identify areas for improvement and enhance overall service and quality.

The integration of Artificial Intelligence into Project Management is not merely a technological advancement but a transformative shift that enhances every facet of the field. By leveraging Al, project managers can make more informed decisions, automate routine tasks, improve team collaboration, optimize allocation, resource proactively manage risks, and enhance customer satisfaction. As AI continues to evolve, its impact on Project Management will only grow, making it an indispensable tool for successful project execution.

R A S Anjani 22.2 Batch BSc in Business Management (Special) (Project Management)





KEY NOTE SPEAKER PROJECT 360: The Project Management Day

Mr. Channa Gunawardana Executive Director / CEO Dankotuwa Porcelain PLC

PANELIST PROJECT 360: The Project Management Day

Ms. Roshani Dharmaratne

Director - Business Development Hayleys Fentons Limited





IT'S YOUR FUTURE MAKE IT COUNT

GRADUATE WITH A 360° DEGREE FROM NSBM GREEN UNIVERSITY

AFTER A/L

BSc in BUSINESS MANAGEMENT INDUSTRIAL MANAGEMENT (SPECIAL)

UGC Approved - Offered by NSBM







Affiliated exclusively to top - ranked universities



BUSINESS | COMPUTING | ENGINEERING | SCIENCE | LAW | DESIGN

ARTIFICIAL INTELLIGENCE IN PROJECT MANAGEMENT: REVOLUTIONIZING THE WAY WE WORK



Technology is changing sectors at a rapid pace, and project management is no different in the modern era. The potential for artificial intelligence (AI) to completely transform project planning, execution, and oversight has made AI a force to be reckoned with. This article examines the ways in which artificial intelligence (AI) is revolutionizing project management, as well as its potential, obstacles, advantages, and applications.

What once felt like science fiction project management - is being turned into our day-to-day reality by AI. We see it everywhere, from smartphone voice assistants and entertainment streaming-service recommendation algorithms, to now in project management. AI tools hold the potential to greatly increase our productivity, accuracy and decisionmaking effectiveness. One application of AI is intelligent planning and scheduling. These are systems that use artificial intelligence algorithms to process historical project data and schedules create detailed and resource assignments. Tools such as Clarizen will help project managers forecast project completion dates and warn about potential bottlenecks, helping them prevent problems, save time and money.

Al's capability to recognize patterns will also be particularly useful in risk management as systems can look at historic project data and current parameters to identify and provide solutions to potential problems, with one paper published in the International Journal of Technology Intelligence and Planning detailing Alaided risk-assessment models that could identify project risks up to 80 per cent of the time – and boosting risk identification ability by the project manager from 40 per cent to 80 per cent.

Real-time resource management is another area AI excellence. AI algorithms can process project demand, resource skills and availability, and AI can calculate of optimal resource allocation. Tools for resource planning, such as Forecast, automate resource scheduling and allocation, reducing overwork and optimizing for work-life balance. Such tools allow systems to use data about people within the organization to allocate work to team members based on factors such as task suitability, past performance and future availability. Al systems can also help to automate reporting. AI algorithms can collect and analyses data, generating realtime performance indicators, as well human-sounding reports via as Natural Language Processing (NLP). For example, Microsoft's Power BI uses AI to create natural language of data visualizations, summaries information about project making performance more digestible for stakeholders. The use of intelligent virtual assistants is aainina prominence in project management, from scheduling meetings to sending reminders and

answering frequently asked questions. Just like chatbots integrated into the project management solution, AIdriven assistants keep the teams updated in real-time about the tasks, deadlines, and progress of a project, vastly improving team productivity and collaboration. Artificial intelligence integration into project management supports accuracy, efficiency, better decision-making, improved productivity, and cost reduction. A PwC poll reported that 54% of CEOs stated their productivity increased after integrating AI, showcasing the real benefits. However, there are also some challenges the to implementation of AI in project management: guaranteeing data quality and availability, integrating AI with other systems, dealing with ethical considerations, closing the skills gap, and overcoming resistance to change.

The trends that are foreseen to shape Al's influence on project management in times to come relate to predictive project management, hyperpersonalization, augmented project managers, ethical AI, and AI-driven agile methodologies. According to a Gartner report, in 2030, AI is going to replace more than 80% of traditional project management tasks, again testifying to the fact that AI has huge potential to transform the industry.

Basically, AI is going to make a difference in the field of project management by providing

opportunities on a totally different level efficiency, for accuracy, and innovation. While there are challenges involved, the potential advantages of incorporating AI into project management are huge. One of the most important things in implementing Al will be the ability to maintain a balanced approach that includes artificial and human intelligence. Only those PMs who will embrace AI as a very powerful tool rather than a replacement can lead their teams and their organizations in the right way toward improved productivity and project success amid an increasingly complex and dynamic world. Inigo integration of AI into project management does not simply involve technologies but adopting new essentially reframes the imagination of how a project was conceptualized, executed, and delivered. New opportunities and challenges will arise as AI continues to grow and develop; the ways in which we are able to adapt from these tools and learn to apply them will be basic to drive project success.

Iyadh Ahmed 21.2 Batch BSc in Marketing Management



HOW AI-POWERED TOOLS ARE Revolutionizing project planning and scheduling

The capacity of a business to successfully plan and schedule projects is essential in today's energetic, dynamic commercial world. The demands of modern enterprises are often too great for traditional techniques of project management due to the growing complexity of projects and the requirement for efficient resource allocation. However, the introduction of artificial intelligence (AI) has changed project planning and scheduling rules by providing creative improve decisionsolutions that making processes, speed up procedures, and maximize resource use.

The way businesses handle project planning and scheduling has completely changed because of Alpowered solutions, which provide them with the ability to leverage automation, predictive modelling, and data analytics to increase productivity and efficiency. This article examines the revolutionary effects of artificial intelligence (AI) on project management, stressing the main advantages, difficulties, and future potential of Al-powered solutions to revolutionize project scheduling and planning. Artificial intelligence (AI) has the potential to improve decisionmaking, automate and streamline various of operations, and increase the overall efficiency of projects. There are many advantages of integrating AI in project management, such as higher output, better accuracy, lower expenses, and improved teamwork. AI has quickly gained popularity in various industries worldwide, and project management is no exception. The same is true for project lt is management. becoming increasingly difficult to find a project management article or program that

does not discuss the impact of AI.

Through several improvements that optimize and streamline the process artificial intelligence overall, has completely changed project planning. Al can allocate tasks to the most appropriate team members automatically, which guarantees effective resource allocation and maximum skill utilization. Furthermore, dynamic scheduling features allow for real-time modification of project schedules in response to shifting priorities and resource availability, improving flexibility and adherence to deadlines. Al's risk assessment and mitigation capabilities help identify potential risks and recommend solutions to minimize their impact. Additionally, resource forecasting accurately anticipates resource requirements, enabling proactive planning and preventing bottlenecks. AI Additionally, makes budget administration, cost estimates, and performance monitoring easier and offers insightful information for datadriven decision-making. Additionally, Al-powered tools for communication and collaboration promote smooth teamwork, and project analysis by AI leads to continual improvement.

In the past, spreadsheets, basic software programs, and manual procedures were largely used for project planning and scheduling. Although these techniques had their uses, they were frequently difficult to open to mistakes, and unable to manage the complexity of contemporary projects. As projects and more complex became interconnected, the need for advanced applications that could analyze large volumes of information, identify trends, and offer useful insights to



optimize project budgets, schedules, and resources increased. With the advent of smart algorithms, machine learning, and statistical analysis, AI has completely revolutionized how projects are planned and scheduled. . Project managers can now predict potential risks, make data-driven decisions, and accurately and rapidly adjust to changing conditions thanks to AI-powered solutions. By using AI, businesses can more accurately predict project deadlines, manage resources more wisely, and remove possible bottlenecks before they become serious problems.

Organizations are managing their projects in new ways because of the many benefits that come with integrating AI into project planning and scheduling. Among the principal benefits are: Al-driven solutions can examine past project information, identify patterns, and make highly accurate predictions about what will happen in the future. This allows project managers to proactively address issues before they arise by potential anticipating delays, overspending, and resource shortages. By utilizing AI algorithms, businesses may accurately match

talent, availability, and workload needs to optimize resource allocation. doing this, efficiency By and productivity are maximized as the appropriate resources are deployed at the appropriate time. Project managers may make well-informed decisions immediately with the help of Al-powered technologies that offer real-time insights and decision support capabilities. This flexibility is essential in dynamic project situations where quick decisions are needed to keep things moving forward. Artificial intelligence (AI) may automate repetitive processes like data entry, report production, and updating schedules, giving project teams more time to concentrate on more strategic efforts. AI helps with proactive risk management by identifying potential issues based on past data and external factors t. This enables businesses to create backup plans and reduce risks before they affect project deadlines or deliveries.

Various industries have a wide range of real-world applications of Project Management tools. Following are some applications, Timeline management and scheduling: Programs like Primavera and Microsoft Project assist in organizing work, setting deadlines, and creating construction schedules. The efficient distribution of resources, such as labor, equipment, and materials. Budget management includes anticipating costs, keeping an eye on spending, and making sure projects stay within allocated funds. To manage phases, monitor progress, promote teamwork, and agile solutions like Jira and Trello are utilized. System implementation involves scheduling, resource management, and risk management in the rollout of new software systems or upgrades. maintenance IT and support include keeping track of help tickets, overseeing IT resources, and making sure problems are fixed quickly. Asana and Monday.com are two tools that may be used to plan and carry out marketing campaigns as well as to organize tasks and monitor results. Content creation includes calendars. overseeing content delegating work to writers and designers, and monitoring the timeline for publishing. Organizing an event involves maintaining vendor relationships, keepina track of attendee registration, and coordinating logistics. Instruments for managing



treatment plans, patient scheduling, and provider communication are included in patient care coordination. Clinical Trials Management: Monitoring the advancement of clinical trials, supervising data gathering, and guaranteeing compliance with legal and regulatory obligations. Facility management includes employee scheduling, inventory control, and maintenance coordination.

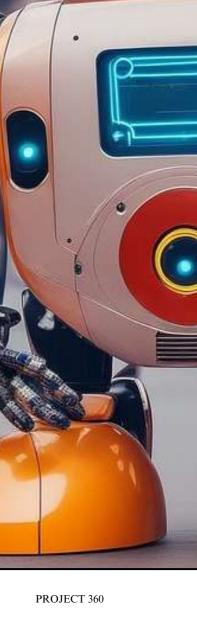
Supply chain logistics are optimized, production runs are scheduled, inventory is managed, and tools such as SAP and Oracle are used. Quality control includes monitoring quality indicators, conducting inspections, and making sure standards are followed. Maintenance management is process of planning the and monitoring the maintenance of machinery to reduce downtime.

While project scheduling and planning are attractive, businesses must also take into consideration some difficulties and issues as they use this technology. Al significantly depends on the availability and quality of data. For organizations to gain valuable insights from Al-powered solutions, their data must be accurate, consistent, and integrated across platforms. Organizational several culture must change for AI-powered tools to be used. Project teams must receive training on how to use these technologies efficiently and must be willing to try out new methods of operation. As artificial intelligence (AI) becomes more widely used in project management, it is important to carefully address issues related to data privacy, bias in methods, and accountability for AI-driven judgments. Putting Al-powered solutions into practice may need a significant initial investment in technical infrastructure, integration, and training. To support these expenses, organizations must carefully assess the possible return on investment (ROI).

The future of artificial intelligence (AI)powered applications for project scheduling and planning appears bright. We could expect more advancements in AI that will result in even higher project management efficiencies. As artificial intelligence (AI) develops further, it will be able to predict more accurately and help enterprises better predict possible problems. By combining artificial intelligence (AI) with Internet of Things (IoT) devices and big data analytics, an abundant amount of real-time data will be available that can be used to improve project scheduling and planning. Artificial intelligence (AI)driven solutions will be able to offer recommendations that are specific to the preferences and methods of operation of each project manager. Autonomous project management systems, based on predefined rules and algorithms, may become more common. These systems could make decisions and adjustments without human intervention.

An important turning point in the development of project management reached with has been the of incorporation Al-powered technologies into scheduling and planning. Organizations may manage their projects more accurately, efficiently, and rapidly by utilizing AI's capabilities. Although there are some difficulties to be solved, the advantages of AI for project management greatly exceed the With AI drawbacks. developing further, we should expect even more revolutionary developments that will change the face of project scheduling and planning and help companies' complete projects more successfully and on schedule.

Pooja Wickramanayake 22.2 Batch BSc in Business Management (Project Management) (Special)



REVOLUTIONIZING PROJECT MANAGEMENT: The role of artificial intelligence



Lately, Artificial Intelligence (AI) has reformed different enterprises, and undertaking the board is no special case. As indicated by a concentrate by Accenture, simulated intelligence can help efficiency by up to 40% by impacting how work is finished. This change is not simply a innovative vision; it's occurring now. Associations that influence manufactured intelligence in their undertaking the board rehearses are seeina extraordinary degrees of productivity, exactness, and key direction. Artificial Intelligence, the reproduction of human knowledge processes by machines, particularly PC frameworks, is reshaping the scene of venture executives. Via computerizing routine assignments, foreseeing project results, and upgrading group cooperation, artificial intelligence is turning into a key device for project directors. Its importance lies in its capacity to deal with immense measures of information, gain from it, and give significant bits of knowledge, in this manner empowering project supervisors to zero in on additional essential parts of their jobs. The reason for this article is to dig into the significant effect of manufactured intelligence on project the executives. We will investigate the key computerbased intelligence advancements that are driving this change, including AI, normal language handling, prescient examination, and mechanization. Also, we will talk about the various advantages simulated intelligence brings to the project the executives,

for example, upgraded independent direction, expanded proficiency, and further developed correspondence. Regardless, the reception of artificial intelligence is not without its difficulties. We will address basic worries like information protection, algorithmic predisposition, and change, and give protection from techniques to conquer these obstacles.

Artificial Intelligence (AI) in project the board addresses а change in perspective, utilizing progressed computational strategies to improve direction, productivity, and venture results. At its center, simulated intelligence includes the utilization of calculations and AI models to examine tremendous measures of information, examples, and recognize make forecasts, in this manner robotizing and streamlining various parts of undertaking the board. The extent of computer-based intelligence in project the board is sweeping, enveloping regions like gamble appraisal, asset distribution, planning, and execution following. By saddling simulated intelligence, project chiefs can anticipate deterrents, designate prominent assets with more exactness, and smooth out correspondence across groups, eventually prompting more fruitful undertaking conveyances.

The excursion of artificial intelligence in project the executives can be followed back to the more extensive advancement of manufactured intelligence innovation. At first during the twentieth considered hundred years, simulated intelligence has gone through huge changes, from straightforward rule-based frameworks to refined AI and profound learning models fit for performing complex undertakings. Key achievements in the reconciliation of artificial intelligence with project the board apparatuses incorporate the advancement of prescient examination, which consider the expectation of undertaking dangers and courses of events, and the approach of regular language handling (NLP), which improves correspondence and information translation. Furthermore, the ascent of computerization and bots has altered routine undertakings, opening project to zero in on essential chiefs preparation and execution. These progressions feature the groundbreaking capability of artificial situating it as intelligence, an imperative apparatus in the innovative project supervisor's arms stockpile.

intelligence innovation. At first considered during the twentieth hundred years, simulated intelligence has gone through huge changes, from straightforward rule-based frameworks to refined AI and profound learning models fit for performing complex undertakings. Key achievements in the reconciliation of artificial intelligence with project the board apparatuses incorporate the advancement of prescient



examination, which consider the expectation of undertaking dangers and courses of events, and the approach of regular language handling (NLP), which improves correspondence and information translation. Furthermore, the ascent of computerization and bots has altered routine undertakings, opening project chiefs to zero in on essential preparation and execution. These progressions feature the groundbreaking capability of artificial intelligence, situating it as an imperative apparatus in the innovative project supervisor's arms stockpile.

The integration of Artificial Intelligence in project management offers a myriad of benefits that significantly enhance efficiency, accuracy, the and effectiveness of project execution. One of the most profound advantages is enhanced decision-making. AI provides data-driven insights bv analyzing vast datasets, uncovering patterns, and generating actionable intelligence that aids in making informed decisions. This capability is crucial for risk management, as AI can identify potential risks early in the project lifecycle and suggest mitigation thereby strategies, safeguarding project success. Increased efficiency and productivity are other key benefits, as AI automates repetitive tasks such as scheduling, tracking progress, and generating reports. This automation frees up valuable time for project managers to focus on strategic activities and innovation. Additionally,

AI optimizes resource allocation by analyzing resource availability and project requirements, ensuring that the right resources are deployed at the right time. Improved communication and collaboration are facilitated through Natural Language Processing (NLP) tools, which enhance team communication by analyzing sentiments and ensuring clarity in interactions. Al-powered virtual assistants further streamline collaboration by managing routine queries, scheduling meetings, and maintaining smooth communication channels within the team. These benefits collectively transform project management, making it more precise, efficient, and collaborative, driving projects to successful and timely completion.

While the advantages of Man-made consciousness in project the board are extraordinary, a few difficulties and moral contemplations should be addressed to guarantee its capable and powerful execution. One of the preeminent worries is information protection and security. Manufactured intelligence frameworks frequently require immense measures of information to work really, raising worries about the insurance of delicate Guaranteeing vigorous data. information encryption, complying to information severe assurance and executing best guidelines, practices for information administration are fundamental to protecting security and security.

Another critical issue is the potential predisposition in artificial intelligence calculations, which can slant project the executives' choices and results. Inclination can emerge from unrepresentative preparation information or defective algorithmic plan, prompting out of line or off base forecasts. Alleviating this requires the utilization of different and thorough preparation datasets, standard reviews of simulated intelligence frameworks, and continuous changes in accordance with guaranteed reasonableness and exactness. Furthermore, the reception of manufactured intelligence in project the executives can confront obstruction from partners who might fear work relocation or doubt new Beating this advances. opposition includes extensive preparation programs that exhibit the worth of artificial intelligence, encouraging a culture of receptiveness to mechanical progressions, and guaranteeing that artificial intelligence increases instead of replaces human jobs. Tending to difficulties these and moral contemplations is essential for utilizing manufactured intelligence's maximum capacity in project the executives while keeping up with trust, decency, and security.

This present reality utilization of Computerized reasoning in project the executives is distinctively shown through various industry models and examples of overcoming adversity across different areas. In the tech business, driving organizations, for Google example, and Microsoft influence Artificial intelligence to smooth out project work processes, advance asset portion, and improve prescient examination for better venture results. These tech goliaths use AI calculations to estimate project courses of events, recognize bottlenecks, and robotize routine assignments, subsequently altogether expanding proficiency and efficiency. Past the tech domain, areas like development, medical services, and money are additionally encountering the extraordinary influence of artificial intelligence in project the board. In development, artificial intelligence driven apparatuses foresee project gambles, oversee plans, and enhancement, guarantee asset prompting ideal and savvy project culminations. In medical care, simulated intelligence upgrades project the board via computerizing authoritative assignments, further developing patient information the executives, and working with powerful correspondence among project groups. In finance, manufactured intelligence apparatuses are utilized to oversee complex undertakings, estimate monetary results, and guarantee consistence with administrative necessities.

Definite examples of overcoming adversity further represent the effect of manufactured intelligence in project the executives. One eminent contextual investigation includes a global development organization that carried out man-made intelligence to deal with enormous scope an framework project. By utilizing Artificial intelligence controlled prescient examination, the organization had the option to expect postponements, enhance asset allotment, and guarantee ideal task finish, eventually saving substantial number of dollars in costs. Another convincing contextual investigation features a medical care association that sent Artificial driven project intelligence the executives' devices to smooth out its task work processes. The simulated

intelligence devices gave ongoing information examination, mechanized revealing, and upgraded group coordinated effort, prompting a 30% expansion in project effectiveness, and fundamentally further developed patient consideration results. These models highlight the significant advantages of Artificial intelligence in project the executives, showing its capability to change how tasks are arranged, executed, and conveyed across different enterprises.

Looking ahead, the future potential of Al in project management is immense. As AI technologies continue to evolve, we can expect even more sophisticated tools that will further revolutionize how proiects are managed. Al's ability to analyze vast amounts of data, learn from past experiences, and make intelligent predictions will continue to drive efficiencies and innovations in project management.

Sasini Madara Herath 22.2 Batch BSc in Business Management (Project Management) (Special)







IT'S YOUR FUTURE MAKE IT COUNT

GRADUATE WITH A 360° DEGREE FROM NSBM GREEN UNIVERSITY

AFTER A/L

BSc in SINESS NAGEMENT TICS MANAGEMENT

ACCREDITED BY THE CHARTERED INSTITUTE OF LOGISTICS AND TRANSPORT (CILT) - INTERNATIONAL

UGC Approved - Offered by NSBM







Affiliated exclusively to top - ranked universities



+94 (11) 544 5000 +94 71 244 5000

OUR VALUED SPONSORS

GOLD SPONSORS

Project Management Institute. Colombo Sri Lanka



BRONZE SPONSORS



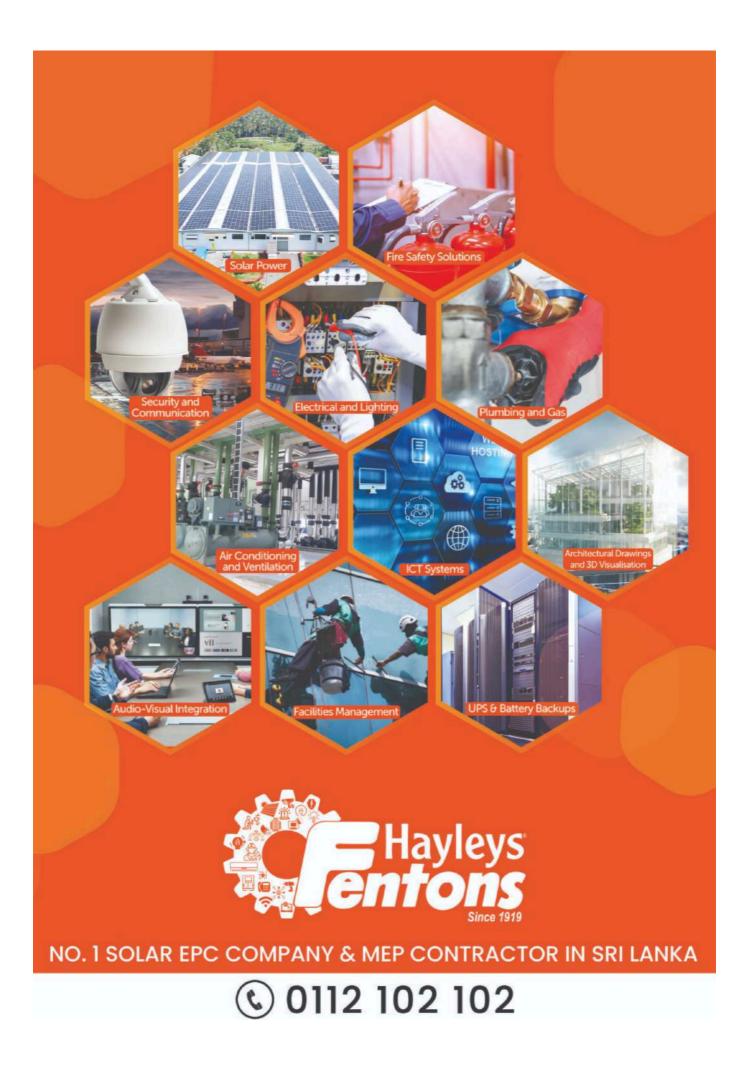


YOUTH SPONSORS









PANELIST PROJECT 360: The Project Management Day

Prof. Asoka Perera Senior Lecturer University of Moratuwa

LEADERSHIP AND COLLABORATION



PROJECT LEADERSHIP AND Collaboration

In the dynamic world of project management, the journey from concept to completion is rarely a solo endeavour. This process can be metaphorically represented as an expedition where each team member holds a crucial piece of the map. The realm of project management is akin to lead a group of diverse individuals towards a common goal. This path is often brimming with challenges, requiring not just individual expertise but a blend of visionary leadership and collaborative spirit. Through this article we would be assessing the intricacies project leadership and of collaboration, from fostering open communication to navigating conflicts we will uncover the keys to unlocking a team's full potential and steering projects to triumphant conclusions. Unlike traditional management which focuses on maintaining the status quo and managing existing processes, project leadership is about change and innovation. Projects nowadays have become interventions delivering outcomes for wider contexts and with the widespread of the project, the capabilities which one may possess to execute such a task have been more defined. When we look into contemporary leadership approaches, it thoroughly stresses over individual potential and it limits to individual radar. However, it can be argued that project leadership is defined as otherwise. In the modern context, projects are delivered in an everchanging environment amidst of complexity and inclusivity of interests. In such an instance, leadership is enacted or rather distributed across organization meaning many the parties would be involved in leading the project. This approach would be often known by the terminology 'socialized leadership' and focuses on the performative effect of leadership.

Understanding project leadership involves recognizing key qualities such as visionary thinking, which is crucial for transformative success. This involves a futuristic aspect where one would see beyond the immediate prospects and envision beyond the horizon. It is integral to the success of any project in terms of clear direction, fostering a collaborative environment and ensuring the project remains aligned with its objectives. Project leadership is a visionary compass charting the course. This compass is not just about pointing north but rather pointing true north. This aids in articulating a clear vision of the final destination while outlining the path. This allows the project to navigate amidst complexities and achieving extraordinary results. Moreover, communication is the cornerstone of effective leadership. Imagine a project as a complex jigsaw puzzle. Each piece represents a task, a team member, or a crucial bit of information. Now consider trying to assemble this puzzle. Communication is the picture on the box that provides a clear vision and necessary context for assembling seamlessly. Connecting ideas, people, and action, is all in one thread connection to project leadership. This aids deeply in providing guidance and avoiding dead ends and to add on, it fosters a collaborative environment where individual stigma is enhanced.

Moreover, understanding and managing one's own emotions and those of others is quite significant in project management. Having an emotionally intelligent leader is crucial for teamwork since it allows all members to be heard and values which ultimately builds trust and respect. When an open environment is created it is more likely for the team to be more intrigued about project activities given that they know they too matter. To add on, the ignition of conflicts is inevitable in any team. In such a situation recognizing underlying emotions that may ignite turbulent situations and finding common ground by mediating is done by a project leader.

In addition, risk management is a crucial skill that is required within this everchanging and uncertain environment that projects are run on. Risk management is a concept widely enacted by project managers since it assists them in evaluating the overall environment and help them with understanding the feasibility and conducting a project as such. This is what distinguishes a project leader from a great project leader when looking into the factors of how project leadership comes into play in a project well as the benefits as of understanding leadership to tackle project uncertainties. With a proper leadership structure and function, project managers can adapt to these changing factors and minimize the impact on the project. Alongside an adaptive project leadership style, another benefit that can be reaped is the benefit of being able to make more informed decisions. As mentioned before, with understanding risks in the ever-changing environment, having an efficient and reliant project leadership style assists project managers with weighing the impact of the risks. Project managers can make a concise decision of what risks require higher priority to invest resources to, in order to mitigate that certain risk and to understand which risks can be avoided to ensure the success of the project. Accordingly, one may realize the significant play of project leadership qualities in managing a project. On the other hand collaboration is known to be cooperative participation. This would be where a group despite comprising of diverse individuals, would work in unity as an alliance. The significance of collaboration would be emphasized based on the fact that it is

essential for the right people to get the right information at the right time. Accordingly, using collaborative project management tools provide high levels of information flow between team members. As most may know management occurs in a cyclic manner and given that traditionally most are adapted to this sequential method, the complexity of vast projects or distributed ones may come as a hurdle. As per the Maurer's project coordination architecture, it is auite apparent that collaborative aspects lend a hand in overseeing such distributed projects bv collectively sharing responsibility. Furthermore, through means of collaboration project one of management's main objectives is achieved. That being optimum utilization of individual expertise. By combining this expertise, team members can deliver high quality results since it leads to more rigorous testing. Thereby one may understand collaboration indeed how is noteworthy in a project context. Project leadership and collaboration form the bedrock of successful project management. They create a sense of purpose and direction, ensuring stakeholders are aligned with objectives, promoting synergy, and fostering a unified effort. When coupled with robust collaboration, these elements create a dynamic environment where diverse skills and perspectives are harnessed to achieve common goals. The integration of modern project execution tools and techniques enhances the ability to superintend operations and navigate the complexities of today's project landscapes more effectively, ensuring risk are managed, stakeholders are engaged and project objectives are met or exceeded. Ultimately synergy between project leadership and collaboration not only boosts team performance and project success rates but also aids to a more cohesive and motivated workforce. Embracing the principles paves the way for sustainable growth and continuous improvement in field practice.



Tharushi Amanda 22.2 Batch BSc in Business Management (Project Management) (Special)

ALCHEMY OF LEADERSHIP AND COLLABORATION

А blend of leadership and collaboration is critical to achieving success in the dynamic field of Project Management where today's dynamic projects are complex and multifaceted, providing clear direction and leading the team with a clear vision and strategic direction, while fostering an environment where collaboration thrives.

As the businesses moves toward increasingly complex challenges, strong leadership and teamwork become essential. This article further explores the synergetic relationship between project leadership and collaboration, leadership traits, and common challenges.

Project leadership is the foundation of successful Project Management and includes guiding the project team to achieve specific goals. According to Harold Kerzner Project Management involves creating a vision, motivating team members, and guiding them through challenges to achieve project goals. lt includes purposeful fostering collaboration, leadership, and focusing on the ultimate goal. Identifying the potential risks formulating mitigating strategies and maintaining the projects efficiently amidst unexpected challenges is also a vital feature of project leadership. Further, project managers they should utilize their experiences and emotional intelligence and create an environment where they can deliver exceptional results together with their teams. An effective project leader embodies several traits to inspire and lead their team to make visionary thinking successful. An excellent project leader sets clear and strong goals working hard to achieve them. Decisiveness could also be considered as an important quality

since leaders must make timely decisions even under pressure and balance the impact of risks and opportunities.

Adaptiveness allows project leaders to respond effectively to changes and challenges throughout the project lifecycle. They also demonstrate problem-solving skills, addressing obstacles with innovative solutions. George Manning and Kent Curtis have pointed out that emotional intelligence is a vital characteristic of an effective project leader since it is crucial for leaders to manage relationships, resolve conflicts and inspire teams (The Art of Leadership, 2018). Successful project outcomes can be achieved by utilizing project leadership traits. SpaceX exemplifies Elon Musk's leadership, visionary thinking and adaptability. Despite facing numerous technical and financial challenges, his ability to inspire his team, take bold decisions and adapt to setbacks has been the key to SpaceX's, successful projects such as the launch of the Falcon Heavy rockets.

Collaboration is also essential in project leadership. Collaboration in Project Management involves working together towards common goals, stimulating each team member's strengths, and ensuring effective communication. Collaboration also creates harmony. According to 'David W. Johnson and Roger T Johnson' "collaboration is the process by which individuals work together to achieve mutual goals and benefits, relying on mutual cooperation, shared resources, and collective problem solving. Collaboration brings many benefits by combining the strengths and talents of individuals to achieve common goals. It also fosters creativity and innovation

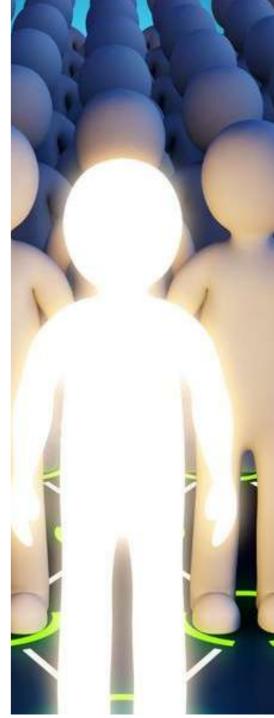


as diverse perspectives lead to better problem solving. Collaboration fosters sense of ownership а and accountability among team members. When everyone is involved in the project, they feel that they are responsible for its success, which motivation creates great and engagement. In addition, it improves the ability to solve problems when cooperatively. When working challenges arise, working together as a team to face the challenge cooperatively will enable us to minimize obstacles and manage projects properly. Working collaboratively in this way contributes to the overall success of a project through creativity, accountability, problem solving and motivation.

Contribution received from each and every segment of the society for preventing the distribution of Covid 19 pandemic and sharing the limited resources such as vaccines and essential equipment with everv country is a wonderful example for cooperation. Further, the contribution of the society to support the people affected by natural calamities such as floods could also be pointed out as an example of cooperation. Effective leadership and collaboration are essential to achieve success in the field of Project Management. In project leadership, leading teams towards common goals, making strategic decisions, and motivating team members to work with maximum contribution in the team, signifies the excellence of the leader Project leadership and collaboration create a dvnamic framework for project success. A leader who supports and encourages collaboration thus improves team cohesion, enhances creativity, and ensures that everyone's contribution to the team is valued. Team members can complete projects on time and within budget when they work together seamlessly under strong leadership. Thus, project leadership and collaboration not only improve team performance but also lead to overall project success.

The project manager acts as a leader to direct the process, coordinate all team members in planning, testing and marketing. Effective project leadership and collaboration are very important for the success of any project, but the project leader has to face many challenges in doing so. Establishing and maintaining clear communication among team members is one of these primary challenges. Also, due to different people in a group, conflicts of opinion occur at different times, where leaders should manage conflicts creatively in order to maintain a positive environment within the group. Another challenge that the leader has to face which affects the cooperation in the project team is the management of resources. Leaders must effectively allocate resources such as time budget and personnel to meet the project needs. Otherwise, due to inefficient management, the team would have to faces numerous problems such as the lack of team members and lack of time. The need to manage remote teams is yet another challenge faced by present day project managers.

This can be attributed to time differences and lack of communication and face-to-face interaction due to distance and this could be successfully managed with the sound use of digital tools. It is extremely imperative that project leaders stay updated with the latest technological trends and apply them for their projects appropriately. Leaders must adapt to these changes and update with technology using modern tools. For effective project leadership in the current environment, collaboration should be done using flexibility and strong communication skills. And this project leadership and collaboration is the grant element that leads to the success of modern projects. Strong leadership backed by flexibility and communication skills guide the team members in the right direction and align the common goals of each member towards achieving the collective strength.



Navodya Dilshani 23.2 Batch BSc in Business Management (Project Management)

<section-header><text>

AGILE PROJECT MANAGEMENT: TRANSFORMING PROJECT DYNAMICS

In the realm of project management, Agile methodologies have revolutionized how teams approach complex endeavors, originally emerging from the software development industry's for need faster, more responsive methodologies. Coined in the 2001 Agile Manifesto by pioneers like Ken Schwaber and Jeff Sutherland, Agile emphasizes iterative development and customer collaboration over rigid planning and processes. At its core, Agile project management revolves around several foundational principles that guide its practices and philosophies, ensuring teams can effectively navigate the complexities of modern project environments.

Customer satisfaction is prioritized through early and continuous delivery to meet demands and achieve faster ROI. Embracing change requests, even late in project stages, ensures adaptability to evolving requirements. Iterative delivery shortens cycle times to market via incremental product feature releases. Daily interactions between developers and stakeholders facilitate continuous collaboration, alignment ensuring and responsiveness. Empowering motivated team members by reducing micromanagement fosters creativity efficiency. Effective and communication, with an emphasis on face-to-face discussions, minimizes response times and enhances clarity, adaptable to remote collaboration. Regular measurement progress against customer expectations Optimizing maintains alignment. workflows for sustainability ensures consistent delivery and adaptability without overburdening teams. A culture of technical excellence and continuous improvement in design and execution is fostered. Striving for

simplicity in processes and product enhances stability design and maintainability. Encouraging selforganization among teams maximizes value delivery through decentralized decision-making. Periodic evaluation of team effectiveness and process adjustments promote ongoing reflective improvement.

Agile methodologies such as Scrum, Kanban, and Lean are pivotal in Agile project management. Scrum utilizes fixed-length iterations, known as sprints, to handle complex projects, emphasizing roles like Scrum Master, Product Owner, and Development Team, along with ceremonies such as Daily Stand-ups, Sprint Planning, Reviews, and Retrospectives, to ensure iterative development and continuous improvement. Kanban visualizes workflow on a board, using cards to represent tasks, optimizing flow and limiting work in progress (WIP) to boost productivity and identify bottlenecks. Lean focuses on minimizing waste and maximizing value through efficient process management, prioritizing customerdefined value, continuous improvement, and the elimination of non-value-adding activities.

These methodologies offer Agile unique approaches to project management. Scrum focuses on structured, time-boxed iterations with clearly defined roles and ceremonies, promoting iterative development and continuous improvement. Kanban emphasizes visual workflow management to optimize productivity and address bottlenecks. Lean aims to enhance efficiency by minimizing waste and focusing on customerdefined value, driving continuous improvement. Together, these methodologies provide versatile tools

to manage complex projects effectively.

The benefits adopting of Agile methodologies include enhanced adaptability, allowing teams to quickly respond to changing customer needs and market conditions. Agile promotes continuous improvement through iterative refinement of processes, boosting quality, efficiency, and client satisfaction. Daily stakeholder interactions facilitate collaboration, ensuring alignment and transparency. This approach accelerates speed to market, enabling the delivery of incremental updates and features faster than traditional methods. Additionally, Agile methodologies foster transparency through open communication and regular progress promoting assessments, client engagement and trust. These benefits collectively empower organizations to stay competitive in a fast-paced market. By fostering a culture of continuous flexibility and enhancement, Agile methodologies help ensure sustained success and growth.

Despite its advantages, Agile adoption comes with several challenges. Overcoming resistance to change is essential, as teams may be reluctant to embrace collaborative practices and transparency. Addressing skill gaps is critical for effectively acquiring and applying Agile practices across teams. a cultural Additionally, shift is necessary to embed Agile values and mindset beyond mere procedural Ensuring effective adoption. communication, particularly in distributed teams, poses another significant challenge. Finally, aligning Agile principles with traditional waterfall methodologies requires bridging gaps and finding common

ground between these different approaches.

Addressing the challenges in Agile adoption requires proactive strategies. Overcoming resistance to change involves fosterina a culture of collaboration and transparency. Bridaina skill gaps necessitates comprehensive training and support for teams to effectively apply Agile practices. Embedding Agile values calls for a holistic cultural shift within the organization. Enhancing communication, especially in distributed teams, can be achieved through robust tools and practices. Aligning Agile with traditional methods involves finding a balanced approach that integrates the strengths of both, ensuring a smooth transition and effective project management. Spotify undertook the development of a new feature for their music streaming platform, facing complex requirements and a tight deadline. Embracing agility, Spotify adopted Scrum with two-week sprints, where a dedicated Scrum Master facilitated daily standups, sprint planning, reviews, and retrospectives, ensurina team alignment and progress tracking. Regular client feedback sessions were integrated into sprints, allowing rapid adjustments to evolving requirements, ensuring the final product aligned closely with user expectations. To enhance workflow visibility, Spotify utilized a digital Kanban board, enabling real-time task visualization, progress tracking, and bottleneck identification, optimizing team efficiency and project focus. This Agile implementation allowed Spotify to manage complex feature development effectively, ensuring timely delivery and continuous improvement. Spotify's Agile implementation yielded several significant benefits. Βv breaking down the project into sprints, Spotify delivered incremental updates faster than planned, accelerating project timelines and improving overall efficiency. Agile practices promoted transparency and client collaboration, with clients participating in sprint

reviews, providing feedback that shaped development priorities and ensured alignment with business goals. Empowered by Agile principles, team members took ownership of tasks and decisions, fostering a collaborative environment.

This autonomy boosted morale and productivity, enhancing team cohesion and project outcomes.

Transitioning to Agile required a shift in mindset and work culture. Some team members initially struggled with the iterative nature of Agile, being accustomed to traditional project management methods. Adopting Agile methodologies necessitated training on new processes and tools like Scrum and Kanban, making proficiency across the organization critical for effective implementation. Agile encouraged client involvement, but managing expectations within cycles posed challenges. rapid Balancing client demands with project scope and timelines required proactive communication and stakeholder management.

Agile project management has changed how teams handle tricky projects. It gives a flexible way to meet today's needs. Its roots lie in making customers happy delivering bit by bit, and working together all the time. Methods like Scrum, Kanban, and Lean give teams clear but flexible ways to manage projects well. Agile has many upsides. It speeds up delivery, makes clients happier, and boosts team spirit. Spotify's success shows this well. But using Agile can be tough too.

Teams might resist change, lack skills, or struggle to talk to each other. To fix these issues, the whole company culture needs to shift. They also need smart plans to make Agile values and practices stick. When companies use Agile, they create a culture that always tries to get better and can change. This helps them do well in a market that's always changing.



Chamithri Nawanga L. Jayasuriya 22.1 Batch BSc in Operations and Logistics Management (Plymouth)

NAVIGATING ECONOMIC UNCERTAINTY: Strategies for project managers in Volatile markets

In today's dynamic global economy, project managers will have to face sudden challenges due to fluctuations in the economy. Market fluctuations, political changes, and technological advancements contribute to a dynamic environment, necessitating that project managers implement strategies in volatile markets. Whether it may be a developing or developed country the situation of economic uncertainty applies in both ways due to the advancements in the world. Economic uncertainty comprises a range of factors that can either negatively impact positively or projects. Currency fluctuations, demand fluctuations, policy changes and changes in inflation rates are some factors that might impact on a Project project. managers must carefully analyze these factors to identify opportunities and risks. PESTEL analysis is ideal for project managers facing economic uncertainty.

Strategic planning in volatile markets is vital to the project's success. Strategic planning involves defining the organizational vision and developing plans to achieve objectives. Strategic planning can be achieved through the points analyzed below. Firstly, risk assessment and management involve conducting assessments to identify potential threats. This involves implementing robust risk management methods to minimize the identified risks. Robust risk management is used to identify the threats beforehand, decide the ones which are in the critical stage and planning mechanism to deal with effectively. Moreover, through it utilizing scenario planning by developing a variety of different scenarios about how economy might fluctuate. For example, they can come up with economic scenarios such as when a country is experiencing an economic growth how the project managers can prepare for it. Whether they will have to experience the economic growth is caused by a demand-pull inflation that might directly affect the resources implemented to the projects and measures to be taken beforehand which might involve in gathering up stocks before the price fluctuation.

Secondly, agile project management is an iterative approach that emphasizes continuous release and incorporates customer feedback in managing software development projects. Through the usage of agile methodologies which is a project

management approach that prioritizes cross-functional collaboration and continuous improvement to improve flexibility and adaptability. Furthermore, this fosters a way of responding to the fluctuations to the changes in market conditions. As agile, project management can help teams stay responsive in a fast-paced market were adapting quickly is essential and innovating rapidly is rewarded. This might enable the projects to strive continuously without any breakdown. The key principles in agile project management are iterative planning and continuous improvement. This involves a process that adapts as the project unfolds by changing plans and continuously incorporates improving its and customer feedback in managing software development projects.

Thirdly, diversifying resources helps reduce dependency on vulnerable markets. Diversifying the supply chain is a crucial part of a project to operate. One of the biggest issues a project manager will have to hold the project is when there is disruption in the supply. Therefore, it is vital to maintain multiple supplier relationships for continuous supply. Example: If it is a construction project where it needs a set of raw materials such as cement



PROJECT MANAGEMENT CIRCLE

and sand. As a supplier contract terminates the projects will have to stop for a while unless they have maintained a good relationship with other suppliers. This might lead the project to operate continuously without delays. By exploring alternative sourcing strategies which might mitigate the costs and supply risks. If the market that the project is operating in is very dynamic having alterative sourcing strategies is vital as it helps discover and utilize different suppliers or sources to obtain the necessary goods and materials.

Fourthly, financial prudence in strategic planning involves managing finances and resources carefully through planned decisions, avoiding unnecessary risks. One of the vital ways of concerning wealth requires effective financial decisions is through using prudent financial management practices (PFMP). Moreover, maintaining adequate reserves will be ideal in economic downturns which might prevent the company leading to a project being disrupted. Lastly through monitoring the project budgets and cash flow closely to ensure financial stability.

For project managers, effective communication, stakeholder management, and strategic planning are vital. Major factors that might contribute to this will be transparent communication and building strategic partnerships. Transparent communication fosters open channels communications with stakeholders that might reduce conflicts and improve the understanding among the parties. Getting stakeholders updated with the project progress and potential risks contributes to the project's overall success. Through soliciting feedback and input from stakeholders which might enhance the decision-making process. On the other side of the spectrum building strategic partnerships which cultivates strategic partnerships with key stakeholders. Enables the clients' requirements that

will align project goals with market conditions. Leveraging partnerships might help in accessing resources and expertise during challenging times.

Innovation and adaptation in a volatile market are steps that project managers should implement. This can be done by embracing technological advancements and continuous learning and development. Firstly, embracing technological advancements is done through leveraging technology to streamline project processes and enhance the efficiency of the project. This involves getting the project completed at the set time. In a volatile market the competition is extremely high so to get a competitive advantage through usage emerging technologies. Another way of differentiating the project is through the investment in innovations. instance, including For AI technologies in software development projects.

As technology evolves continuously, ongoing learning and development are essential for a project. The project manager can enhance project success by encouraging ongoing learning among project teams. For instance, in an agricultural project, teams can learn about new machinery that increases productivity. Staying abreast industry trends and market of developments boosts the likelihood of completing projects that align with current trends and meet clients' requirements. Additionally, project managers should develop adaptive skills to respond to dynamic market Without these conditions. skills, projects may face difficulties and potential delays.

Navigating economic uncertainty requires project managers to adopt a proactive and strategic approach. By involving agile methodologies, transparent communication and leveraging technological advancements, project managers not only minimize the risks but also take advantage of opportunities in dynamic

46

markets. As the global economy evolves the ability to change and innovate will be crucial for a project success amidst the economic uncertainty. In the future there will be technological advancements and changes in global economic policies which will influence volatile markets. So, project managers must stay focused, adaptable to deal with future challenges and get a competitive edge in a dynamic world.

> Nethmi Harindi 22.2 Batch BM in Applied Economics

RISK DAAGEMEENT AND LEGAL CONSIDERATIONS

NAVIGATING LEGAL LANDSCAPES: Mastering Project Risk Management With Legal Acumen



The world of project management is full of unknowns. From tech breakthroughs that can't be predicted to shaky money markets, from how teams work together to nature's whims each project is a one-of-a-kind trip through a scene of possible troubles. Risk management's job is to map out a path through this area spotting possible dangers, looking at how it might affect things, and coming up with plans to go around or through them. The law is a key part of this process. Rules for business don't stay the same; it changes as society, tech, and the world economy shift. This means project managers have to keep up with current laws and try to guess what's coming next. The legal scene is both wide-ranging and tricky. It covers things like contracts, worker rights, patents and copyrights green rules, and more. All these areas have an impact on how projects run and what choices managers make.

The risks are big. Legal mistakes can lead to expensive lawsuits fines from regulators, and harm to a company's image. Can slow down or stop projects wasting team efforts and investors' money. This means that including legal know-how in managing project risks isn't just a good idea it's a must for any business that wants to succeed in today's competitive and rule-heavy world. This article sets out to light the way ahead giving insights on how to bring legal knowledge into project risk management. It will look into the problems and chances that come up when these two key areas meet helping professionals deal with this tricky mix. By taking a close look at legal risks, ways to follow rules, and real-life examples, will uncover the ideas that lead to successful projects even with legal limits in place.

As begin this exploration, ask readers to think about the wider effects of our talk. The ideas of risk management and following the law go beyond single projects. They show an organization's values, its promise to act, and its focus on long-term success. In today's world where people, rule-makers, and society want more openness and responsibility, the skill to handle project risks within the law isn't just a way to beat competitors it's a key part of а company's honesty and trustworthiness.

At its core, project risk management is the systematic process of identifying, analyzing, and responding to project risks. It is a proactive measure, a shield against the slings and arrows of unforeseen fortune that can derail even the most meticulously planned projects. The objective is clear: to minimize the potential for failure and maximize the opportunity for success. The first step in risk management is the identification of potential risks. These risks can be as varied as the projects themselves, ranging from financial technical glitches to shortfalls, organizational from upheavals to external shocks. Each risk carries with it a shadow of

uncertainty, a threat that must be recognized before it can be addressed. Once identified, each risk must be scrutinized, its contours defined by the likelihood of occurrence and the magnitude of its impact. This analysis is both an art and a science, requiring a blend of experience, intuition, and analytical rigor. With risks laid bare, the next step is planning. This involves developing strategies to avoid, mitigate, transfer, or accept risks. It is a delicate balancing act, weighing the cost of against the potential prevention damage of the risk itself. The final step is control. This ongoing process monitors risks, ensuring that mitigation strategies are effective and adjusting them as necessary. It is a vigilant watch, guarding against the chaos of the unknown.

Legal risks are a particular breed of external risks that lurk in the shadows of regulatory changes, contractual disputes, and compliance failures. They are the dragons of the project world, capable of breathing fire on the unprepared, scorching budgets, and reputations alike. Contracts are the lifeblood of business transactions, the agreements that bind parties to their promises. In the realm of projects, they define the scope, deliverables, timelines, and responsibilities. A misstep in contract management can lead to disputes, delays, and financial losses. Regulations are the rules of the game, set by authorities to ensure fairness, safety, and environmental

stewardship. They are a moving target, subject to the whims of legislative change. Failure to comply can result in penalties, project stoppages, and legal entanglements. In knowledge the economy, intellectual property is the treasure trove that companies guard jealously. Projects that involve the creation, use, or modification of intellectual property must navigate the labyrinth of patents, copyrights, trademarks, and trade secrets. Missteps can lead to costly litigation and loss of competitive advantage. Projects often involve a mosaic of workers employees, contractors, consultants each with their own legal rights and protections. Employment laws govern this landscape, covering wages, working conditions, and discrimination. Violations can lead to disputes, strikes, and reputational damage.

The legal frameworks that govern project activities are as diverse as the projects themselves. They vary by industry, region, and the nature of the project, forming a tapestry of laws that must be navigated with care. Contract law is the foundation upon which business transactions are built. It is essential for project managers to understand the principles of contract law, ensuring that agreements are enforceable and protective of the project's interests. Employment law is a complex field that governs the relationship between employers and workers. Project managers must navigate this field with care, ensuring fair treatment of workers and compliance with legal standards.

Intellectual property rights are a critical concern for projects that involve innovation. Project managers must ensure that these rights are protected and that the project does not infringe on the intellectual property of others. Environmental regulations are increasingly important in project management. Projects must be planned and executed in a manner that complies with environmental laws, ensuring sustainability and avoiding legal repercussions.

Case studies provide valuable insights into how projects have successfully navigated legal risks. These real-world examples can serve as a guide for project managers facing similar challenges.

As we draw the curtains on our exploration of risk project management and law, it is clear that the interplay between these two domains is not just a matter of procedural necessity but a strategic endeavor that underpins the very essence of project success. The legal landscape is a minefield of potential risks that can threaten the integrity and viability of any project. Navigating this terrain requires not only legal knowledge but also the wisdom to apply it effectively within the context of risk management.

The role of law in project management extends beyond compliance; it is about creating a framework within which projects can thrive. It is about understanding that each legal requirement, each regulation, and each contractual obligation is a piece of a larger puzzle. When these pieces assembled with care are and precision, they form a protective barrier against the uncertainties that projects inevitably face.

Moreover, the integration of legal considerations into risk management practices speaks to a deeper commitment to ethical conduct and corporate responsibility. It reflects an understanding that the projects we undertake are not isolated endeavors but activities that have far-reaching implications for our teams, our stakeholders, and the broader community. In this light, legal risk management is not just a defensive strategy but a proactive approach to building a legacy of trust and respect. In the final analysis, the synergy between project risk management and law is a testament to the multifaceted nature of project execution. It is a reminder that projects are not merely technical challenges to be overcome but complex social enterprises that

must be guided with care, foresight, and a deep respect for the rule of law. As project managers and legal professionals, our task is to ensure that this respect is woven into the fabric of our projects, creating a tapestry of success that is both legally sound and ethically robust.

As we look to the future, the lessons we have discussed here will only become more relevant. The pace of change in both technology and regulation is accelerating, and the projects of tomorrow will demand an even greater level of legal acuity. By embracing the principles of risk management and legal compliance, we equip ourselves with the tools to not only survive but to excel in this dynamic environment.

In conclusion, the confluence of project risk management and law is a dynamic and ever-evolving field that challenges us to be vigilant, adaptable, and informed. It is a field where success is measured not just by the completion of project milestones but by the adherence to legal and ethical standards. It is our hope that this article has shed light on the importance of this confluence and has provided valuable insights that will aid in the successful management of projects in a legally complex world.

Jeny Anthony LLB in Reading President of Business Law Society



THE GROWING SIGNIFICANCE OF PROJECT RISK MANAGEMENT IN TODAY'S DYNAMIC BUSINESS ENVIRONMENT

Due to a number of significant variables, project risk management has grown in significance in the fastpaced corporate climate of today. Globalization, market volatility, and the rapid growth of technology bring new and complicated risks that need to be managed effectively. The complexity of supply networks and the involvement of several stakeholders in modern projects raise the risk of interruptions. Strong risk management procedures are also necessary because of the strict regulations, high consumer expectations, and little resource availability. Complexity is increased by environmental issues and cybersecurity risks, and the use of agile approaches demands constant risk assessment and adaptability. Organizations can reduce negative effects, seize opportunities, and improve project performance bv managing these risks well.

It is essential for project managers to anticipate hazards and put risk management plans action. into Employers now consider project risk management to be а critical competence when hiring project managers. Everything you need to know about risk management in project management is included in this tutorial. Let's begin by going over the fundamentals of project risk.

Any possible problem that could have an adverse effect on your projects' successful completion is referred to as project risk. Both internal and external variables may present a risk. Project risks include things like a crucial team member quitting or a major supplier going out of business.

Internal Project Risk factors are risks associated with teams, risks associated with resources and organizational risks. External Project Risk factors are market-related Risks, technological risks and environmental.

The process of locating, evaluating, and reacting to unforeseen hazards that could compromise the objectives and advancement of your project is known as project risk management. Its goal is to lower project risks that have happened, are happening, or are probably going to happen in the future. By figuring out the underlying sources of risks and reducing, if not totally eliminating, their impact, the emphasis is on risk reduction. Risk assessment identification are and essential components of a project manager's work. It aids in organizing your project management tasks. You should take the required precautions to prevent or lessen a threat in advance if a risk assessment shows that it will have a significant impact.

Individual project risks, overall project risks, variability risks, and ambiguity risks are examples of common project risk kinds. Certain project risks, including a shortage of resources or staff absence, have an impact on a project's quality, cost, timeliness, and scope. Project risks as a whole affect the project as a whole and include all causes of uncertainty, such as major occurrences like wars or shifts in governmental regulations. Variability hazards stem from variations or inaccuracies in variables including supply, demand, quality, and price; examples include changes in raw material prices and exchange rates. Ambiguity risks result from unclear project requirements, which can lead to misunderstandings or errors. Examples of these include clients providing erroneous requirements or having different ideas about the project's scope.

Several crucial processes are involved in managing project risks. Start by doing an internal scan to find every risk that might have an impact on the deadline or objectives of your project. This entails scrutinizing the project plan in its entirety and detecting any possible problems. Information can be gathered through seminars, risk assessments, brainstorming sessions, one-on-one conversations, and other techniques. Use resources such as a risk matrix and risk register to keep track of hazards and their specifics, including priority, duration, impact, and status. After risks have been discovered, evaluate them to determine the magnitude and manner in which they may affect your project. To evaluate risks, it is important to use both quantitative and qualitative risk analysis, paying particular attention to elements like risk probability (the chance that a risk event will occur), risk impact (the results of a risk event occurring), and risk vulnerability (the amount of damage that the risk event could cause). These elements support the comprehension of the project's overall risk level and the appropriate design of mitigation strategies. Ensure frontline professionals that have access to databases and can set up alerts to be aware of new risks by and utilizing internal external resources to regularly monitor and document concerns. Next, for each high-priority risk that has been identified, develop a reaction strategy. plan This should be realistic. workable, and customized to meet the

unique requirements of your project. Techniques including shifting the responsibility to a third party, reducing the impact or possibility, modifying the project plan to avoid the risk, or taking the risk and choosing to bear the consequences in the event that it materializes should all be taken into account. A stronger risk response plan can be developed by proactively utilizing project management software with risk management features to help create a centralized repository for all project data linked to risks. Coordinating with stakeholders and team members to make sure everyone is aware of the risks and understands their roles in reducing them is a necessary part of putting the response plan into action. Assign a responsible party to oversee every phase to guarantee consistency and prevent misunderstandings. Risk management is a continuous process that needs to be reviewed on a frequent basis. It is not a one-time event. To verify the effectiveness of mitigating measures, assess their progress and make necessary adjustments as needed, monitoring vital. ongoing is Throughout the course of the project, risks are proactively addressed thanks to this constant monitoring.

Understanding the risks associated with your project can help you create a mitigation plan that is specific to your needs and enable you to monitor and adjust to risks proactively. Assign distinct project team members to oversee the management of each risk, making sure that each is appropriately handled and tracked. Make thorough strategies to handle every risk that has been discovered. This will help you on schedule and prevent stav problems later on in the project. Throughout the course of the project, keep an eye out for any dangers and modify your response strategy as necessary. Risk management can be greatly improved by utilizing technology, such as AI capabilities and project management software. Software for integrated risk



management (IRM) can aid in the early identification of possible project hazards, the ranking of high-impact risks, and the enhancement of decision-making. Project management software is crucial for efficient risk management, as evidenced by the fact that 26% of project managers listed tracking and managing risk as their main motivation for adopting it.

Stakeholder communication plays a critical role in response plan implementation for a number of reasons. All stakeholders will be informed about potential hazards, planned responses, and their roles in carrying out these plans if effective communication is maintained. lt encourages cooperation among stakeholders, allowing them to voice concerns, exchange thoughts, and offer insightful feedback that helps develop more thorough and effective response plans. Having clear and consistent communication makes it easier to set expectations, cut down on miscommunication, and make sure that everyone is in agreement. Additionally, it facilitates prompt updates and feedback loops, which let reaction strategies be improved and adjusted in response to new information or developments. Transparent communication also fosters confidence and trust among stakeholders, strengthening their dedication to the project's success and their readiness to back and follow the reaction plans. In conclusion, stakeholder communication is essential to the effective execution of response plans because it promotes cooperation, coordination, and ongoing development over the course of the project.

H.M.I.P.Bandara 22.2 Batch BSc in Business Management (Special) (Project Management)



PROJECT RISK MANAGEMENT AND LEGAL FACTORS

No matter how well your project is planned, there always is a probability of you running into unexpected problems. Thereby managing risk is equally important as identifying risks. It involves providing necessary risk analysis and risk response. Managing risks is an important function in making a project successful. However, within project risks lies another layer of complexity, legal factors. Understanding and effectively managing risks within legal boundaries is a necessity to ensure that a project is carried out with success. Legal considerations add a unique dimension to project risk management. Project risk can be defined as "an uncertain event or condition that, if it occurs, has a positive or negative effect on a project objective."

In simple terms, risk can be considered a factor that can make or break the success of any initiative. Technical risks, cost risks, schedule risks, budget risks, infrastructure risks, operational risks, resource risks, supplier risks etc. can be considered types of project risks. A risk factor can be considered as something that increases risk. Personal shortfall, unrealistic schedule/budget, work functionality (unclear requirements), wrong user interface, gold plating, requirement volatility (too manv requirement changes), bad external components/tasks, insufficient business knowledge etc. can be considered as major risk factors. This risk arises due to a lack of skilled personnel or technical expertise necessary to complete the project successfully. It can lead to delays, errors, or subpar outcomes. These fall under technical risks which are risks

associated with project development for items like scope of work, designing, construction and operation of facilities and processes. Schedule risks are associated with allocating adequate amount of time for each activity in project planning, for activities like regulatory approval, detailed design, construction, startup, operations, and other similar activities. Budget risks are a result of establishing wrong budget estimate for the project. In addition, project scope creep will add additional cost to the budget, resulting in additional project cost risk. This risk may result in further delay of project completion or at times even an incomplete termination of the project. Setting unrealistic deadlines or budgets can lead to stress, quality compromises, or failure to deliver on time and within budget constraints. Unclear or misunderstood project requirements can result in delivering a product which doesn't meet stakeholders' expectations or needs, leading to dissatisfaction with the result. Designing a user interface that doesn't meet the needs of the users can result in low adoption rates, user frustration, and lack of satisfaction with the product.

This refers to adding unnecessary features beyond what was initially agreed on. It can lead to increased costs, and delays in project delivery. Frequent changes to project requirements can disrupt the project schedule, increase costs, and impact team morale due to uncertainty of the Reliance outcome. on external components that are of poor quality can result in project delays, failures, or compromised performance. Outsourcing tasks to external parties who perform poorly too can result in



the effects mentioned above and will have a negative impact on the entire project. Lack of understanding of the business context, market dynamics, or customer needs can result in outcomes not aligned with objectives of the project. According to PMBOK Guild, "project risk management is the systematic process of identifying, analyzing and responding to project risk. Project risk management involves identifying potential risks, assessing their likelihood and impact, and devising strategies to manage them. It includes maximizing the probability and consequences of positive events and minimizing the probability and consequences of adverse effects to objectives. project Project risk management involves recognizing, investigating, and answering project risks. This approach is important in safeguarding project objectives, timelines, and budgets.

The risk management process involves the following steps: risk identification, risk assessment, risk mitigation and management, monitoring and control. This step involves identifying potential risks that could affect the project's objectives or outcomes. Both internal and external factors that may contribute to the risk are analyzed. Brainstorming step involves identifying potential risks that could affect the project's objectives. This includes analyzing both internal and external factors that may contribute to risk. Document reviews involve references to documents of previous projects and their identified risks from their risk registers. Risk records lead to a better understanding of possible hurdles that will arise in the project. This is a brainstorming method where members are kept anonymous to each other.

Interviewing is always helpful when there are experts on the team or team members who were part of previous projects. This process will help capture all project risks. This method revolves around assessing businesses and projects strengths, weaknesses, opportunities, threats, and ways to work around these aspects. When considering the legal factors affecting identification, risk contractual obligations and regulatory compliances are important. Understanding legal commitments and obligations outlined in contracts is crucial. Failure to meet these could result in disputes, penalties, or legal actions. It is important that projects comply with local, national, and international laws and regulations. Non-compliance can lead to fines, project delays, or even project shutdowns.

Once risks are identified, it is important that their potential impact is assessed by multiplying the probability of occurrence by the severity of the consequences. The risk owner should ensure that the planned responses have the desired effect by assessing the severity. In addition, the risk owner should ensure that the proposed risk responses are specific, measurable, actionable, realistic, and time based. In project risk management it is important to consider litigation risk factors and to properly analyze contractual risks. It is essential to assess legal challenges from stakeholders, competitors and regulatory bodies. This includes intellectual property disputes, environmental concerns, or labor law violations. It is also important to evaluate risks associated with contract terms and conditions, ensure alignment with legal standards and protect against liabilities. Qualitative analysis, Quantitative analysis and risk response planning are important in project risk assessment. Qualitative risk analysis is the process of assessing the impact and the likelihood of identified risk. This process prioritizes risks according to their potential effects on project objectives. Quantitative risk analysis aims to analyze numerically the probability of each risk and its consequences on project objectives, and the extent of the overall project risk. This process uses techniques

such as Monte Carlo simulation and decision analysis. Risk response planning is the process of developing options and determining actions to enhance opportunities and reduce threats to the project objectives. It includes the identification and assignment of individuals/parties to take responsibility for each agreed risk response. This process ensures that the risks identified are properly addressed.

Based on the identified risks and their level of exposure, strategies are developed to mitigate/manage them. These strategies may include avoiding the risk altogether, transferring it to another party (such as through insurance or outsourcing), or accepting the risk with contingency plans in place.(avoidance, reduction, sharing, retention). In general, every has developed company and implemented their own project management concepts for executing projects. These concepts help them achieve the objectives of every project on a consistent basis. The four basic functions ofmanagement are Plan, Direct and Organize, Control However, planning is the core area of management. Planningis ongoing, and it forcesthe company management to assess where the company is at present, and where it will be in the future. Based on these assessments an appropriate course of action could be implemented to achieve company goals and objectives. Legal Expertise Contingency planning and are important to ensure that the risk management and mitigation process complies with the legal requirements. Involving legal counselling early on can mitigate risks associated with aspects such as contracts, intellectual property, permits, and regulatory compliance etc. In contingency planning development plans that account for legal risks ensures readiness for unexpected legal challenges or changes occurs.

Finally, the identified risks should be actively managed throughout the

project lifecycle. This involves monitoring, evaluating, and adjusting risk mitigation strategies as needed to minimize their impact on project objectives and ensure successful project delivery.

In this process legal compliance monitoring and adaptive strategies are essential. Regular audits and reviews should be conducted to ensure ongoing compliance with legal requirements and mitigate risks of non-conformance. It is important that risk management strategies adapted are based on legal developments and changes adapted ensure proactive mitigation.

Consider a construction project where zoning laws are critical. Failure to comply could halt construction, resulting in financial losses and legal battles. By integrating legal risk management from the outset, the project team identifies zoning laws as a critical risk. They engage legal counselling to navigate regulations, obtain necessary permits, and address potential preemptively challenges. This proactive approach not only ensures legal compliance but also secures project timelines and budget.

In conclusion, project risk management within legal boundaries is not an option but a requisite for sustainable project success. Bv integrating legal considerations throughout the project lifecycle from inception to completion organizations mitigate uncertainties, protect against liabilities, and enhance the overall success of the project. Collaborative efforts between project managers and legal experts are essential to navigate complexities, ensure compliance, and maximize opportunities. Ultimately, a well-executed approach to project risk management within legal contexts sets the foundation for achieving the strategic objectives of the project while safeguarding organizational interests.



Randev Sapukotanage(editor), Sachini Madushika, Tevini Ediriweera, Udeni Jayawardhana , Business Law Society NSBM

OUR JOURNEY SO FAR AS THE PROJECT MANAGEMENT CIRCLE OF NSBM









IT'S YOUR FUTURE MAKE IT COUNT

GRADUATE WITH A 360° DEGREE FROM NSBM GREEN UNIVERSITY

AFTER A/L

BACHELOR OF BUSINESS DOUBLE MAJOR IN MANAGEMENT AND INNOVATION & SUPPLY CHAIN AND LOGISTICS MANAGEMENT

Victoria University - Australia

BUSINESS | COMPUTING | ENGINEERING | SCIENCE | LAW | DESIGN







Affiliated exclusively to top - ranked universities



"RROM CONCEPTIO CONPLETION"



NSBM Green University Pitipana, Mahenwaththa, Homagama, Sri Lanka

www.nsbm.ac.lk









Affiliated exclusively to top-ranked universities

02