# Digital Transformation Strategy Roadmap For Daimler-Benz

# Applied Project Final Report

By

Priyanka Mahesh Semester 4, 2021

A paper submitted in partial fulfillment of the requirements for the degree of Master of Science in Management and Systems at the

> Division of Programs in Business School of Professional Studies New York University

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# Declaration

I, Priyanka Mahesh, confirm that this project study, which I submitted to the School of Professional Studies at New York University in partial fulfillment of the prerequisite for the award of the Master of Science in Management and Systems. This paper is a record of project work that I completed under Dr. Andres Fortino, NYU Clinical Assistant Professor of Management and Systems. I authorize the Division of Programs in Business, School of Professional Studies, and New York University to copy this report in part or whole without further reference. The permit only applies to copies produced for study purposes or inclusion in the Division of Business, School of Professional Studies, and New York University review publications, subject to customary acknowledgment conditions. I further confirm that the thesis described in this project has not been and will not be applied, in whole or in part, for the award of any other degree or diploma at this institute or any other institute or university.

# Acknowledgments

I sincerely thank Mr. Chulanga Perera for his contribution as the sponsor of this project and as a mentor. I would also like to thank all of the mentors in the Management and Systems program I have taken courses with and learned a great deal.

# Abstract

To become a digital enterprise - and organization that continually uses technology to evolve all facets of its business models. Using technologies to increase business performance, whether through the creation of innovative goods or the reimagining of existing processes, lays out an organization's strategy for using technology to gain new strategic advantages and the method it would use to make these improvements.

*Keywords:* Digital Strategy, Digital Transformation, Discovery-Driven Digital Transformation Course

# Introduction

## **Background information**

Within Daimler, digitalization is resulting in the development of new mobility models and business areas. As part of this project, we will aim to enhance DICV's digital capabilities by identifying new technology-enabled use-cases to improve the customer experience and marketing verticals. Data serves as a foundation for this by enabling new services that provide consumers with added value. At the same time, the solutions are to be secure by design.

## **Company Background**

<b>Company Name:</b>	Daimler India Commercial Vehicles Pvt Ltd			
Head Office:	Oragadam, Mathur Post, Sriperumbudur Taluk, Kancheepuram District,			
	SIPCOT Industrial Growth Centre- 602105 Tamil Nadu, India			
Managing Director	Satyakam Arya			
& CEO:				
Investment:	More than INR 9500 Crores			
Established:	2009			
Employees:	4,000 +			
Major	100 % subsidiary of Daimler AG			
shareholder:				

Table 1

Daimler India Commercial Vehicles (DICV), a wholly-owned subsidiary of Daimler AG, Germany, is a full-fledged commercial vehicle player in India and the only Daimler entity worldwide, a brand committed to its home country: BharatBenz. A unique combination of Indian engineering with German DNA, tailored to local customer requirements, BharatBenz delivers on total-cost-of-ownership, safety, reliability, and comfort.DICV manufactures and sells trucks weighing from 9 to 55 tons in India, as well as BharatBenz buses and Mercedes-Benz coaches through its bus division.

DICV's cutting-edge manufacturing plant in Oragadam, near Chennai, spans 400 acres (160 hectares) and has a cutting-edge test track. It also serves as the company's headquarters and R&D facility. It also manufactures Daimler Trucks' brands FUSO, Mercedes-Benz, and Freightliner under one global quality level. Its vehicles are exported to more than 50 countries in the Middle East, Africa, Asia, and Latin America. DICV represents a total expenditure of over INR 9,500 crores.

Under the umbrella of Daimler Trucks Asia, DICV and MFTBC (Mitsubishi Trucks and Bus Corporation) collaborate on various topics ranging from product development, production, and R&D to Sales and market development activities.

#### **Sponsor Information**

Sponsor Name: Chulanga Perera, Chief Information Officer, Chennai, India

Responsible for the creation of Daimler Trucks Asia's Big Data unit. In terms of use case onboarding, strategically establish the working model (internal & external), operations (platform & service delivery), vendor management, governance & security, the business case & demand management.

# **Problem Description/Opportunity**

The COVID-19 crisis seems to provide a window into the future, one in which digital has become integral to all interactions, prompting both businesses and individuals to accelerate their adoption curves almost overnight. In a world where digital networks are the primary (and in some situations, the only) means of customer engagement and automated processes are the primary source of efficiency and the basis for flexible, reliable, and stable supply chains. An environment where agile working methods are needed to keep up with seemingly daily shifts in consumer behavior. Companies must make bigger bets and reallocate money and people more efficiently as the speed of digital-related transition begins to intensify. These tactical improvements to the development, implementation and ongoing adjustment of digital strategies allow businesses to adopt a "fail fast" approach and become stronger at identifying new trends and minimizing obsolescence losses.

All of this is particularly important in the case of digital strategy, which necessitates careful consideration. Most business leaders are unsure what "digital" entails in terms of the policy. They underestimate the extent to which digital is undermining their companies' economic foundations. They still fail to recognize how quickly emerging economies are blurring market lines and changing the competitive landscape. Furthermore, responding to digital by creating new companies and diverting money away from existing ones may be risky for individual executives, who may be unable to accept (much less drive) the necessary transition. The ability to digitally reimagine the industry is primarily defined by a robust digital vision supported by executives cultivating a tradition of reinventing and inventing the modern. While these findings are consistent with past technological evolutions, digital transformation is unique in that risk-taking is becoming a cultural norm as technology becomes more sophisticated.

The following are highlights:

- Digital maturity is guided by digital strategy. Only 15% of businesses in the early stages
  of what we call digital maturity where digital has changed operations, talent
  engagement, and business strategies claim they have a straightforward and clear
  digital strategy. More than 80% of those that are technologically mature do
- From the top-down, the digital agenda is being guided. A single individual or collective heading the campaign is almost twice as likely in maturing organizations in less technologically advanced organizations. Furthermore, workers of technologically mature organizations have a high level of confidence in their leaders' technical proficiency. Digital fluency, on the other hand, does not necessitate a thorough understanding of the technology. Instead, it necessitates the need to express the importance of emerging technology to the success of the company.
- Growing digital organizations develop the skills needed to carry out the plan.
   Organizations at the higher end of the digital maturity continuum are four times more likely to provide workers with the required expertise than organizations at the lower end of the spectrum. Consistent with our overall results, the desire to conceptualize how emerging technology can affect the industry is a capability that many early-stage businesses lack.

### Importance of the project

It's common to use the terms "digital transition" and "digital strategy" interchangeably. The two words are related but have different meanings. Customer engagement, organizational procedures, and corporate models are also impacted by digital transformation. Digital transition necessitates cross-organizational collaboration and entails shifts in corporate culture. The emphasis of digital strategy, on the other hand, is on technologies rather than history. Changes in business models are especially relevant in digital marketing, which employs technology to develop the capabilities required for a company to become a digital business. Setting a plan is an integral aspect of the integration phase, and it ensures that technology is used in a way that benefits the company's objectives.

Five Reasons why digital transformation is essential for business growth:

Businesses are demanding more agile hybrid IT services and agile networking
capabilities, and the customer interface is a vital component of business transformation.
This project gives the experience of working with the IT team and software and app
compatibility for employees or external c

ustomers.

- Finance and human resources would benefit from digital innovation by transitioning away from manual procedures and automating core fields such as payroll, enabling executives to focus on more important market opportunities.
- One of the most difficult problems for many IT executives is determining how to move more data to the network's edge while keeping it stable. This is becoming a more difficult challenge, demanding strict control of entry, data compliance, and attack security. Also, the most exacting compliance protocols are rendered worthless if an underperforming network causes employees to seek flexibility elsewhere.
- Businesses will keep ahead of the game and make themselves more accessible to
  potential partners by developing a digital process early on and combining it with the rest
  of the organization. Internal systems can become more productive and agile as the

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company expands, with the potential to scale. With time, digital transformation develops the technologies needed to acquire time and resources.

• Because of the Internet of Things, businesses now have access to larger quantities of data than ever before (IoT). This data can be transformed into practical strategic knowledge with the proper collection of analytical methods, allowing you to make better, faster decisions. The integration and impact of analytical methods in business processes, the more they can be used. Using AI-based technology to unlock the promise of big data may be the answer. Data and analytics innovations are increasingly surfacing. Many have advanced AI capabilities that both modernize traditional systems and sift through data at a quicker and more accurate pace, all assisting leaders in their efforts to make better, faster choices that result in better, more immediate results.

The restructuring of work and market ecosystems necessitated digital transformation, and most companies stepped up their efforts to address this sudden transition. According to Dell's Digital Transformation Index 2020, which polled over 4000 industry leaders worldwide, eight out of ten organizations accelerated their digital transformation programs in 2020.

# **Alternate Solutions Evaluated**

**Current Proposed Solution**: Use PowerBI to perform business analytics and data visualization The manufacturing industry today stands apart in its drive towards digital transformation through Power BI. Modern data analysis technologies and strategies have created immense opportunities to move away from the traditional manual approach and automate critical processes to understand which KPIs are influencing business revenue and profit. With this in mind, manufacturing companies have seen increased production, competitiveness, and profitability as a result of digital transformation facilitated by BI. It has also reduced the costs of company data collection activities by allowing creativity. The apparent effects on company competitiveness have aided in the making of quicker, data-driven decisions to better prepare businesses to succeed in today's market.

Alternate Proposed Solution: Use Tableau to perform business analytics and data visualization Tableau has developed a guide to assist organizations in implementing data analytics at scale. This "blueprint" will be handy for manufacturing organizations searching for guidance about using the Tableau tool to achieve the goals of their digital transformation plan.

#### **Solution Evaluation Criteria**

Criteria	PowerBI	Tableau
Overview	Power BI uses current Microsoft	Tableau is known for its
	frameworks like Azure, SQL, and Excel	stunning visualizations, but its
	to create cost-effective data visualizations.	marketing is geared toward
	For those already familiar with Microsoft	companies with computer
	products such as Azure, Office 365, and	developers and larger budgets.
	Excel, this is an excellent option.	The tool is available in the
		public (free) version, but it has
		limited functionality. Tableau
		gives you more access the more
		you spend, like benchmarked
		results from third parties.
Cost	Overall, Power BI is less expensive than	Tableau's pricing is a bit more
	Tableau, with a free edition, a paid	perplexing, most likely due to
	subscription, and a more expensive	the company's recent transition
	scalable paid option. Despite being a	from a mass buy to a
	Microsoft utility, Power BI users do not	subscription model. The new
	need to pay for Office365 to gain access	price structure is a tiered scheme
	to the tool's admin center GUI.	that differentiates between file
		links and third-party
		applications.

Deployment	Power BI is available in many variants,	Tableau is also available in
Options	including standard, pro, premium, web, embedded, and report server. You could employ one or more of these services to create and publish visualizations and representations, depending on your position and needs.	many variants, including individual, team, and embedded analytics plans that can be accessed on-premises, through a public cloud server, or via a private cloud server.
Integrations	Power BI provides API access as well as pre-built dashboards for some of the most commonly used technologies, such as Salesforce, Google Analytics, email marketing, and, of course, Microsoft items, for fast insights. To create your visualizations, you can also link to utilities within your company or import files. Use the "Get Data" button to connect some data to Power BI. To completely associate, you'll need to go through a brief authorization process	Tableau has made significant investments in integrations with common business software and commonly used links. When you log into the computer, you can see all of the references associated with your account rank. Tableau's link interface is a little more complicated than Power BI's because you must choose which data to bring into the tool when you connect. Before you start making those

		correlations, it can be useful to
		consider what data you want to
		look at and why.
Dashboards	Power BI provides real-time data access	Tableau's features are just as
	as well as drag-and-drop functionality.	effective, but some of them are
	The whole tool is designed to reduce the	more difficult to use because
	time it takes to create visualizations. It	they are locked behind menus.
	provides even the most inexperienced	Use the dashboards and analyses
	consumers with access to effective data	to predict sales based on
	analytics and exploration without	previous consumer activity, and
	requiring a great deal of advanced	use estimates to convert current
	expertise and experience.	data to meet the needs. Tableau
		provides live query functionality
		and excerpts, which is
		particularly useful for data
		analysts who are accustomed to
		stopping and starting.

Table 2

Considering the whole project and future scalability options, PowerBI would be the right tool as it supports real-time data access and can be easily integrated with Azure cloud services.

#### **Selection Rationale**

By making it easier for companies and their employees to draw knowledge from transactional and analytical evidence, Power BI elevates customer empowerment to new heights. It aids in the development of a data culture in which workers can make choices based on reality rather than opinions. When combined with Azure Data Services, it also aids firms in making use of big data, which is one of the most daunting objectives for the majority of companies.

The following reasoning was used to choose PowerBI over Tableau:

- Formulating clear KPI's A successful report has a simple objective, which is why it's critical to create KPIs to ensure that your report is displaying the correct data. The easiest way to create these KPIs is to work with the end-user. If that is not the case, it is a smart idea to speak with them and learn what they want to see on the dashboard.
- Prioritize business teams and audience Keep in mind who will be seeing your Power BI report. Likely, the knowledge you find valuable or interesting isn't what they're looking for. If you can, talk with them, as previously said. If not, try to figure out what detail will be more useful to them. This way, you will be confident that the information you provide them with can be put to good use.
- Less is More Power BI keeps adding new features, and the design possibilities are endless. While the software's abundance of functionality, keep in mind that often the simplest and most concise approach is the easiest. It is possible to produce informative reports of material that is both available and digestible. To view data in the best possible manner, sometimes all you need is a dull map.

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- Convey the story When presenting your data, keep the story in mind and not just the numbers. You are trying to communicate the main takeaways from the data into one screen. So, make sure the information you are presenting is clear and easy to digest.
- Provide context Don't make the mistake of creating data files that are devoid of meaning. You must explain why the information you have given is valuable to all. This can be accomplished by including actionable points and questions that enable you to get the most out of each data visualization. You may also add detail by including an introduction with more details.

•

# Approach and Methodology

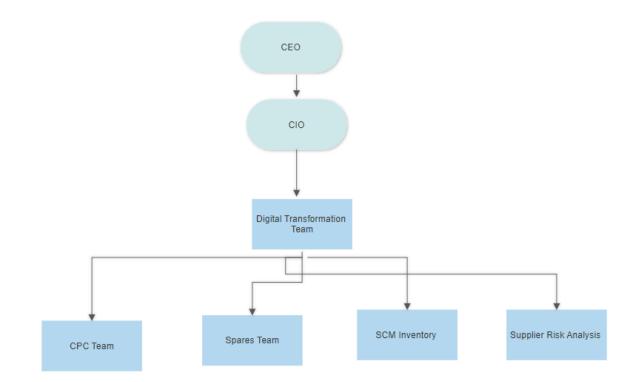
A digital transformation strategy is a course of action for launching, assessing, and advancing a digital transformation program. Your plan will specify the market objectives you want to accomplish by digital transformation.

A successful digital transformation plan will provide you with a roadmap to guide you in this ever-changing phase. But, before you start, you should know what you want to accomplish so that you can set KPIs to track along the way.

- Image: Section of the section of th
- 1. Identify **all** digital Initiatives at DICV.

Figure 1

 Create a digital transformation center of excellence team with defined roles and responsibilities; this committee will set missions, review progress, secures and allocates budget, and ensures adoption.



## Figure 2

3. Time to implement

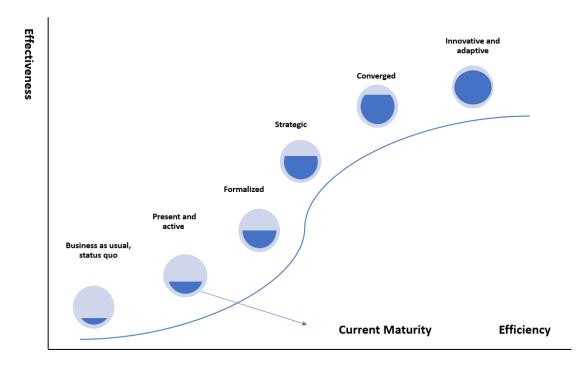
Organizations with world-class digital capabilities release and refresh digital applications much faster than competitors.

	Traditional	Leading	World-class	Why it matters
Time to market	<b>1–2</b> years	2-6 months	8-12 weeks	To compete for consumers on the basis of new tech functionality
Release	1–4 per year	1-4 per month	10–50 per day	To test and refine the customer experience

## Figure 3

- 4. Perform a risk analysis for IT investments and initiatives. Identify any inherent risks of implementing the digital initiatives.
- 5. The Digital Transformation team should measure the state of maturity every quarter.

Maturity model :



## Figure 4

- Business as usual, status quo The organization's present condition
- Present and active A period of experimentation around the organization during which you promote ingenuity and enhanced digital literacy skills.
- Formalized As experimentation becomes more deliberate, initiatives become stronger, and you begin to seek leadership buy-in.
- Strategic When groups begin coordinating and exchanging analysis to develop concrete plans for the transition.
- Converged The establishment of a dedicated digital transformation team that will lead the process, set targets, and implement programs to support the

change.

- Adaptable and innovative When digital transformation is integrated into the organization and leadership creates a framework for tracking technologies and industry dynamics so that the enterprise can continue to grow.
- Define and develop KPI's and metrics to measure the success of each digitalization program
- Identify stakeholders in each digitization program Deploy a lead digital adoption manager to track the progress
- Maintain a record of all the programs within the Digital Transformation domain and collate requirements - Infrastructure Components, resource allocation, buy-in from various business teams, vendor requests

# **Project Objectives and Metrics**

#### The goal of the project

Within Daimler, digitalization is resulting in the development of new mobility models and business areas. As part of this project, we will aim to enhance DICV's digital capabilities through the identification of emerging technology-enabled use-cases targeting Customer experience and marketing verticals. Data serves as a foundation for this by enabling new services that provide consumers with added value. At the same time, the solutions are to be secure by design.

#### **Project Deliverables and Metrics**

- Project Objective 1 Develop Proof of Concept (where required), detailing out the business requirements and specifications
   Metric: No of KPI's per business unit
- Project Objective 2 Develop use cases for automation of work processes
   Metric: Total automated processes
- Project Objective 3 Develop a strategy to implement digitalization across DICV by liaising with various departments.

Metric: Measure Digital maturity

Project Objective 4 – Develop pilot dashboard using Power BI (dashboards, via alerts, etc.) to help stakeholders see and understand data while enabling self-serve program analytics

Metric: No of dashboards developed for each business unit

# **Risk Analysis**

A project's risk analysis is important because, in order to evaluate each possible risk and classify and prioritize risks, all risks should be calculated by evaluating the risk incident in terms of probability of occurrence and impact on project goals if the risk event occurs.

The impact score contains the following values:

- Marginal (1 score): The hazard may either be controlled or would commonly result in less than minor illness, injury, or system damage.
- Moderate (2 scores): The hazard may commonly cause severe injury or illness or major system damage, requiring immediate corrective action.
- Critical (3 scores): The hazard may commonly cause significant or death system loss, requiring immediate cessation of the hazardous activity or operation.

The probability score contains the following values:

- Improbable (1 score): Unlikely but possible to occur.
- Occasional (2 scores): Likely to occur sometime.
- Probable (3 scores): Likely to occur often.

The risk likelihood score and impact assessment score will be entered behind each risk, and the total risk score will be determined by multiplying the risk probability score by the impact assessment score.

#### Risks List

		Probability	Impact
Number	Risk	Score	Score
		(1,2 or 3)	(1,2 or 3)
1	Delay in gathering requirements for the	2	3
	dashboard in the required detail		
2	Delay in data integration support from IT	2	2
	application teams		
3	Availability of infrastructure components	3	2
4	Availability of Project Sponsor – Going on PTO	3	3
Table 3		1	I]

Table 3

## **Risk Matrix**

	RISK (exposure)				
ce)		1.Slight	2. Moderate	3. High	
f occurren	1. Very Unlikely				
Probability (of occurrence)	2. Possible		(2)	(1)	
OL Table 4	3. Expected		(3)	(4)	

# **Contingency Plan**

Risk	Description	Probability (1-3)	Exposure (1-3)	Contingency Plan
1	Delay in gathering requirements for the dashboard in the required detail	2	3	Follow up with business teams to provide detailed KPI logic in the requested format, along with source tcodes/report names/sample outputs to kickstart the development
2	Delay in data integration support from IT application teams	2	2	Provide a quick turnaround for required data sets to be integrated with the data warehouse and identifying additional budget required for new developments to facilitate the same
3	Availability of infrastructure components	3	2	Prioritize the deployment of required servers with appropriate compute and storage capacity
4	Availability of Project Sponsor – Going on PTO	3	3	Setup final meeting with Project Sponsor in advance

Table 5

#### **Issues Encountered**

The team ran into some problems whilst working on the launch. Many of the problems that the group encountered were insignificant and had no significant effects on the project. All issues were solved immediately once indicated so that the project was able to finish on time with high quality. Here is all type of issues project team faced in the duration of the project.

The team's first challenge was that digital transition necessitates drastic systemic and process improvements. Traditional incumbents, on the other hand, have a deep corporate culture and will face opposition to introducing new workflows. Several cultural considerations will stymie digital projects, ranging from long-term hires to risk-averse bosses to corporate politics.

The second issue was the inflexible technology stack that supports monolithic applications. This is a barrier to transitioning technologies because it complicates application release dependencies and adopting Agile+DevOps methodologies. At the same time, employees may not have the experience with new technologies required to transition IT infrastructure and applications and use those new technologies.

# Project Chronology and Critique

Milestone	Task	Reporting	Plan Deliver Date	Actual Delivery Date
1	Digitization using Power BI	All efforts are being made to put in place a new widget management scheme.	05/05/2021	05/05/2021
1.1	Requirements gathering	The work to initiate the project.	02/01/2021	02/01/2021
1.1.1	Identify Business Teams	Working group to evaluate teams to deploy dashboards	02/02/2021	02/02/2021
1.1.2	Send requirement gathering template	Send requirement gathering template to all business teams	02/15/2021	02/15/2021
1.1.3	Submit the Project Charter as a deliverable.	The Project Charter is handed over to the Project Sponsor.	03/15/2021	03/15/2021
1.1.4	Setup workshops with Business teams	The preliminary round of discussions	02/24/2021	02/24/2021
1.1.4	Project Sponsor Reviews Project Charter	The project sponsor reviews the Project Charter.	03/21/2021	03/21/2021
1.1.5	Project Charter Has Been Signed/Approved	The Project Sponsor signs the Project Charter, allowing the Project Manager to begin the Planning Process.	03/21/2021	03/21/2021
1.1.6	Determine detailed KPI logic	Understand from business teams what metrics are used to measure the success	03/08/2021	03/08/2021
1.2	Preparation	The work with the project's planning process.	03/02/2021	03/08/2021
1.2.1	Produce a Preliminary Scope Statement.	A Preliminary Scope Statement is created by the Project Manager.	03/02/2021	03/08/2021
1.2.2		The Project Manager selects the project staff and makes resource demands.	03/02/2021	03/08/2021
1.2.3	Form a Project Team Meeting of the Project Team	The project kickoff conference, which involves the Project Manager, Project Team, and Project Sponsor, formally kicks off the	03/08/2021	03/08/2021

		preparation process		
		(optional).		
1.2.4		The team creates the	03/02/2021	03/08/2021
		project schedule		
		under the		
		supervision of the		
	Create a Project Plan	Project Manager.		
1.2.5		The project	03/02/2021	03/02/2021
		Manager submits		
		the project plan for		
1.2.6	Submit Project Plan	approval.	00/00/2021	02/00/2021
1.2.6		The project plan has	03/08/2021	03/08/2021
		been authorized,		
		and the Project		
		Manager has been		
	Approval of the Project	given the approval		
	Approval of the Project Plan is a significant	to carry out the project according to		
	milestone.	the project plan.		
1.3		Work involved	03/15/2021	03/15/2021
1.5		executing the	05/15/2021	03/13/2021
	Execution	project.		
1.3.1		The Project	03/15/2021	03/15/2021
1.011		Manager conducts a	00/10/2021	00/10/2021
		formal kickoff		
		meeting with the		
		project team, project		
		stakeholders, and		
	Project Kickoff Meeting	project sponsor.		
1.3.2		The project	03/15/2021	03/15/2021
		manager and staff		
		study the initial user		
		specifications,		
		which are then		
		checked with the		
		users/stakeholders.		
	Verify & Validate User	This is where more clarity could be		
	Requirements	needed.		
1.3.3		The new widget	03/29/2021	03/29/2021
1.J.J		management	0512712021	05/27/2021
		framework is		
	System	designed with		
	of Design	technical tools.		
1.3.4	Ŭ	The acquisition of	03/29/2021	03/29/2021
		all infrastructure,		
		software, and		
		facilities		
	Obtain	requirements for the		
	Hardware/Software	project.		
1.3.5		The team installs a	03/08/2021	03/08/2021
		development system		
	Install Power BI Desktop	for deploying		
	Application	dashboards and		

		customizations of		
		user interfaces.		
1.3.6		The technology is	04/05/2021	04/05/2021
1.3.0		being checked with	04/05/2021	04/05/2021
		a small group of		
	Phase of Testing	participants.		
1.3.7		The actual system is	04/05/2021	04/05/2021
		installed and		
	Install Live System	configured.		
1.3.8		, Each user receives	04/08/2021	04/08/2021
		a four-hour training		
		session. Managers		
		are also given an		
		extra two-hour class		
		to cover specialized		
	User Training	news.		
1.3.9		The system goes	04/15/2021	04/15/2021
	Go Live	live with all users.		
1.4		The work involved	04/19/2021	04/19/2021
		the control process		
	Control	of the project.	0.4/00/2001	0.1/22/2021
1.4.1		Overall project	04/23/2021	04/23/2021
	Decision	management for the		
1.4.2	Project Management	project.	05/05/2021	05/05/2021
	Drainet Status Mastings	Weekly team status meetings.	03/03/2021	03/03/2021
1.4.3	Project Status Meetings	Efforts to mitigate	05/05/2021	05/05/2021
1.4.3		risks as described in	03/03/2021	03/03/2021
		the Risk		
	Risk Management	Management Plan		
1.4.4		The project	05/05/2021	05/05/2021
1.7.7		manager updates the		
		Project		
		Management Plan		
	Update Project	as the project		
	Management Plan	progresses.		
1.5		The work to close	05/05/2021	05/05/2021
	Closeout	out the project.		
1.5.1		An audit of all	05/05/2021	05/05/2021
		hardware and		
		software procured		
		for the project		
		ensures that all		
		procured products		
		are accounted for		
		and in the asset		
	Audit Programment	management		
152	Audit Procurement	system.	05/05/2021	05/05/2021
1.5.2		The project	03/03/2021	05/05/2021
		manager, along with the project team,		
		performs a lesson		
	Document Lessons	learned meeting and		
	Learned	documents the		
	Louinou			

		lessons learned for the project.		
1.5.3	Update Files/Records	All files and records are updated to reflect the widget management system.	04/28/2021	04/28/2021
1.5.4	Gain Formal Acceptance	The Project Sponsor formally accepts the project by signing the acceptance document included in the project plan.	04/28/2021	04/28/2021
1.5.5	Archive Files/Documents	All project-related files and documents are formally archived.	04/28/2021	04/28/2021

Table 5

## Lessons Learned

The whole project was able to deliver as planned with expected quality and in time, and this could not have been done without contribution and help from all team members and sponsors. In our view, the best way for leaders to crack beyond inertia and incrementalism is to take brave measures to combat and conquer on four fronts: You must fight prejudice by using experiential tactics including "go-and-sees" and wargaming to break leaders out of old forms of thinking and through today's new realities. You must combat anxiety by implementing top-team effectiveness programs that motivate senior executives to act. Pilots and formal usage case analysis must be used to combat guesswork. And you must battle initiative diffusion, which is a relentless challenge considering the need to digitize the heart while still innovating with new business models.

The companies that outperform on revenue and EBIT also differ from the rest in their embrace of the economic changes that digital technologies have wrought. Based on the results, they have done so in three specific ways: taking advantage of new digital ecosystems, focusing product-development efforts on brand-new digital offerings, and innovating the business model. We know that digital platforms have enabled the creation of new marketplaces, the sharing of data, and the benefits of network effects at a scale that was impossible just a few years ago. As these factors have converged, the digital ecosystems created by these platforms are blurring industry boundaries and changing the ways that companies evaluate the economics of their business models, their customers' needs, and who their competitors—and partners—are.

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# **Conclusion and Summary**

This project enables Digital Transformation that is much more than just sticking a few Virtual Machines in the cloud; it is the real, transformative, long-term change that benefits and impacts the whole organization. Digital Transformation is a hot topic with CEOs and the C-level suite, renewing their interest in data and what it can do to empower the organization. With the right metrics and data visualization, Power BI can help to bring clarity and predictability to the CEO to make strategic decisions, understand how their customers behave, and measure what matters to the organization. This session is aimed at helping you to please your CEO with insightful dashboards in Power BI that are relevant to the CxO in your organization or your customers' organizations.

Using data visualization principles in Power BI, we will demonstrate how you can help the CEO by giving them the metrics they need to develop a guiding philosophy based on datadriven leadership.

# Limitations, Recommendations, and Scope for Future Work

Even this project was able to deliver as excepted, there are still some limitations within this project, and some of the limitations may be improved in the future similar projects in NYU MASY.

- Building capabilities for the workforce of the future
  - Redefining individuals' roles and responsibilities, so they align with a transformation's goals
  - Technology-innovation managers to bridge gaps between the traditional and digital parts of the business
  - Translate and integrate new digital methods and processes into existing ways of working
- Measure the success of Digital Initiatives using metrics
  - Percentage increase in engagement using digital channels
  - Percentage time saved required to build dashboards
  - Track growth efficiency and rate of innovation

# **Literature Survey**

### Introduction:

DICV designs, manufacture, and sell commercial vehicles such as Trucks and Buses to serve the Indian market, along with the sales and service network (Wikipedia Contributors, 2020). DICV wishes to adopt digital technologies, which can transform the end-to-end business model. To enable DICV to successfully manage this digitalization initiative, this literature review focuses on understanding the organizational culture, level of digitalization, and integrations with supporting technologies (Isensee et al., 2020). Digitalization within manufacturing has proven to produce both decreased production costs and increased flexibility as per research conducted by Lorenz et al.. However, they also observed that to implement digitalization, an organization is required to have in-depth technical knowledge that may be absent or exist only at a rudimentary level within the firm (Lorenz et al., 2020).

Business Intelligence forms the backbone of digitalization; it's paramount to be able to transform raw, conventional data into logical business insights. This would help supervisors and managers within the firm to make informed data-driven decisions. BI paves the path for business stakeholders to understand trends and deriving insights from numerous data points – Manual and System generated data. One major issue among such large organizations is that they have innumerable data sources, and it becomes a challenge to streamline data. This is where we introduce Power BI to ensure that all data sources are identified and all data is represented in a manner that fulfills the business demands.

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Power BI is a tool that the organization can leverage to deploy phase 1 of digitalization within the firm. As it's a collection of software services, apps, and connectors that work together to turn your unrelated sources of data into coherent, visually immersive, and interactive insights, this would be s stepping stone in making data-driven decisions within the firm (mihart, 2020). In the following literature review, the focus will be on the benefits of digitalization in section 1, followed by section 2 that describes how business intelligence tools support digitalization in large-scale organizations.

#### **Digitalization:**

In the last decade, we observed a huge demand for automation within the manufacturing sector and a much closer integration of operation technology and information technology (Isaksson et al., 2018). Internet of things, cloud, and blockchain technology is transforming how the manufacturing industry conducts its business in the future (Isaksson et al., 2018). Industry 4.0 is also a term coined in 2011 that signifies the fourth industrial revolution, supported by advanced automation, robotics, and increased connectedness across machines(Lee et al., 2019). Industry 4.0 introduced the possibility of major change in how manufacturing industries operate, creating new opportunities and threats, for instance, Digital Twin (Lee et al., 2019). A Digital Twin connects the real and virtual world by collecting real-time data from installed sensors; the collected data is either locally decentralized or centrally stored in a cloud (Lee et al., 2019).

However, with large-scale businesses, data can often be integrated from various sources; it's not as simple as collecting data from a single sensor. A huge amount of time could be lost on data discrepancies; hence a streamlined approach would be the need of the hour (Sindhu et al., 2017). There are some challenges businesses face before digitalization (Sindhu et al., 2017):

- 1. Inconsistency in reports generated
- 2. Data discovery
- 3. Understanding the requirements and KPI's that need to be reported

Digitalization can be deployed across three major areas: Technology, Society, and People (Wu et al., 2021). The trend of digitalization is the ubiquitous convergence and interoperability of everything (Wu et al., 2021).

### **Business Intelligence:**

To marry business intelligence with digitalization, it's important to perform visual analytics of unstructured and structured data(Bringing AI to BI | Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems, 2018). By definition, Business Intelligence platforms allow the firm to easily connect data sources, visualize and discover what's important, and share that with anyone or everyone you want(mihart, 2020). Representing the varying quality of inferred data structures is crucial for making informed decisions within a firm. Deploying business intelligence tools is the first step toward implementing digitalization within an organization.

### Conclusions

Based on the literature review performed, we can summarize the marriage of digitalization with Business Intelligence platforms would benefit organizations to reimagine business models (Ibtissame Abaidi & Vernette, 2018). Growing competition and consumer power have eroded traditional product-based advantages, forcing companies to shift to a new battlefield: Customer Experience. This requires integrating the entire business to demonstrate the value at every customer touchpoint. Digitally maturing organizations have organizational cultures that share common features: The Digital DNA. All successful digital transformations were driven by strong top-down digital **leadership** (*The digitalization of micro, small, and medium-sized enterprises* (*MSMEs*): An institutional theory perspective, 2020). For most companies, getting everyone pulling in the same direction is the real challenge. Digital DNA fosters **data-based decisionmaking**, opposed to decision-making based on intuition or common practice. This can be achieved by using Business Intelligence platforms like PowerBI.

The future research question should be focused on identification various data sources that exist. Successful digital companies require a digital platform that is well structured, that can only be established and sustained with the mindset of rigorously **driving down complexity**.

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# Appendix A

### **Project Acceptance Document**

	Sponsor's Project	Acceptance Document
that the g the p input	it meets the project goal and objectives that were set at goal, objectives, and related metrics in the appropriate sec project and the "RESULTS" and "ACCEPTANCE" sections a	maily agrees that your project has been satisfactorily completed and the onset of the project. It is therefore important that you describe tion below. The "PLAN" section is to be prepared at the beginning of fiter your project has been completed. Your sponsor should provide be a required section in your Project Final Report. This document is a
	Project Name: Digital Transformation Strate Student Name: Priyanka Mahesh Sponsoring Organization: Daimler India Co	5, 1
	Project Sponsor Name and Title: Chulanga Project Sponsor Contact Information (en	a Perera nail and phone): chulanga.perera@daimler.com
PLAN	show successful project completion. Sponsor : Project Goal : Enhance DICV's digital cap: technology enabled use-cases targeting c Objective #1 Develop Proof of Concept (whe and specifications Objective #2 Develop use cases for automat Objective #3 Develop a strategy to impleme departments. Objective #4 Develop pilot dashboard using stakeholders see and understand data while e	abilities through identification of emerging ustomer experience and marketing verticals. ere required), detailing out the business requirements tion of work processes ent digitalization across DICV by liaising with various Power BI (dashboards, vizalerts, etc.) to help enabling self-serve program analytics
	I agree with the above planned project g	oal, project objectives, and related metrics.
	Chuli	03/08/2021
	Project Sponsor Signature	Date:
	PROJECT RESULTS Planned Start Date: 01/28/2021 Actual Start Date: 01/28/2021	Planned End Date: 03/31/2021 Actual End Date: 04/29/2021
ν	If actuals differ from planned dates, the revise initialed here: <b>Sponsor Initials</b>	ed dates (Actual) are accepted by the sponsor if
RESULTS	Project Goal	
REG	Was the project goal achieved as plan If NO, please explain why this is an ac	ned?
	requirements and specifications Did the student's project meet this objective at project inception? <b>Objective#1</b> □ has or □ If not met please explain why this is or is not <b>Objective #2</b> Develop use cases for automat Did the student's project meet this objective i	an acceptable deviation.

07SponsorsProjectAcceptanceDocumentV2.5.docx

1

### **Appendix B**

### **Project Sponsor Agreement**

### New York University MS in Management and Systems Applied Project Project Sponsor Agreement

#### 1. Goals of the Program

- For Participating Organizations
   Begin relationship with New York University
   Receive help from highly trained NYU graduate student
   Provide internship opportunity for NYU graduate student
   Receive assistance at no cost

#### For NYU Graduate Students

- Manage and implement a meaningful project aligned with their professional and educational goals Hands-on experience interacting with a start-up or operational small business or .
- organization
- Earn credit toward completion of graduate degree by conducting an unpaid Applied Project under the mentorship of an NYU-SCPS professor.

#### 2. Project Sponsor and Student Responsibilities

- Student prepares project planning documents Sponsor reviews and approves student's project plan Student submits project plan to faculty supervisors for approval Student conducts project according to plan At predetermined milestones sponsor reviews and approves status reports submitted by student Status reports reviewed and evaluated by faculty supervisors to assure student effort
- .
- and project meet course requirements Project sponsor and student participate in periodic project reviews with NYU At project completion project sponsor completes evaluation forms
- Student prepares final report

#### 3. Project Selection Process

- Project Evaluation Committee reviews proposed projects Projects are: Relevant to MS degree course content

  - \_
  - Significant to the participating organization Substantial in terms of duration and scope Challenging to the student \_

  - Capable of being measured against predetermined goals
- 4. The MS in Management and Systems

- Concentrations in: Strategy and Leadership Systems Management Database Technologies
- Enterprise Risk Management

# Students Study Courses in: Business Management Marketing

- Information Technology
- Database Development Financial Management Project Management

04 Project\_sponsor\_Agreement\_v3.3.docx

Page 1 of 4

## **Appendix C**

### **Project Charter**

### Digital Transformation Strategy Roadmap Project Charter

Program Manager: Ganesh Radhakrishna Project Manager : Priyanka Mahesh Sponsor: Chulanga Perera Prepared by Priyanka Mahesh

Name and Location of Client Organization:

#### **Revision History**

<b>Revision date</b>	Revised by	Approved by	Description of change
3/9/2021	Priyanka Mahesh	Ganesh	Include a representation for the
		Radhakrishna,	digitalization process
		Chulanga Perera	

#### **Project Goal**

#### Problem/Opportunity Definition

In order to digitize business workflows, we can use Power BI gaining insights from both automated systems and manual data inputs

#### **Proposed Project Description**

- 1. Collaborate with crossfuntional teams to understand business processes
- 2. Identify trends on raw data and foster data-based decision making

Daimler India Commercial Vehicles Filename: Priyanka Mahesh- ProjectCharter. docx

1 of 12

The vision of corporate performance center is to digitize, connect and centralize business performance data to enable intelligent insights at central level and improve overall efficiency.

### **Appendix D**

### **Project Plan**



**Applied Project Capstone** MASY GC- 4100

#### MEMORANDUM

TO: Dr. Andres Fortino FROM: Your Name DATE: February 12, 2020

Assignment 3B - Work Breakdown Structure and Schedule

#### **Project Tasks Outline**

RE:

1. Digitalization using Power Bi

- 1.1 Requirements gathering 1.1.1 Identify Business Teams

  - 1.1.2 Send Requirements Gathering Template 1.1.3 Submit Project Charter 1.1.4 Setup workshops with Business Team
  - 1.1.5 Project Sponsor Reviews Project Charter
  - 1.1.6 Project Charter Signed/Approved 1.1.7 Determine detailed KPI logic
- 1.2 Planning
  - 1.2.1 Create Preliminary Scope Statement 1.2.2 Determine Project Team
  - 1.2.3 Project Team Kickoff Meeting

  - 1.2.4 Develop Project Plan 1.2.5 Submit Project Plan
- 1.2.6 Milestone: Project Plan Approval
- 1.3 Execution

  - Execution 1.3.1 Project Kickoff Meeting 1.3.2 Verify & Validate User Requirements 1.3.3 Design System 1.3.4 Procure Hardware/Software 1.3.5 Install Power BI

  - 1.3.6User Training
  - 1.3.7 Go Live

1.4 Control

# Appendix E

## Situational Analysis

	ų į	NYU	SCHOOL OF PROFESSION	IAL STUDIE	s
	MASTER O	Applied	N MANAGEMEN Project Capstone SY GC- 4100		fems
		MEN	IORANDUM		
TO: FROM: DATE:	Dr. Andres F Your February 18,	Name			
RE:	Assignment	3A – Situationa	al Analysis		
Industry: Daimler is Stuttgart, C automotive commercia Vehicles is Contributor (Mitsubish product dev	Germany. The fou e engineering (Wi Il vehicles like tru based in Chenna rs, 2020). Under i Trucks and Bus velopment, produ	ational automoti nders of Daimle kipedia Contribu icks and buses. 1 i, the capital of t the umbrella of I Corporation) are ction, and R&D	ive engineering cor r Gottlieb Daimlet utors, 2021). Daim The headquarters o the southern Indian Daimler Trucks As e collaborating on to Sales and mark	and Carl Ben ler is the bigg f Daimler Indi a state Tamil N sia, DICV and a range of top	z are pioneers of est manufacturer ia Commercial Vadu (Wikipedia MFTBC ics ranging from
Industry: Daimler is Stuttgart, C automotive commercia Vehicles is Contributor (Mitsubish product dev <i>India Comm</i> Products: H <b>Competito</b> DICV's top Mahindra & <i>News &amp; Co</i>	a German multin Germany. The fou e ngineering (Wi l vehicles like tru based in Chenna rs, 2020). Under ti i Trucks and Bus velopment, produ <i>mercial Vehicles</i> , Heavy duty truck, ors: o competitors are & Mahindra, and <i>papetitors</i>   Zoom	ational automoti nders of Daimle kipedia Contribu icks and buses. 1 i, the capital of t the umbrella of I Corporation) are ction, and R&D 2019). medium-duty tr as follows: Ashd Eicher Motors ( <i>ulnfo.com</i> , 2019)	er Gottlieb Daimler utors, 2021). Daim The headquarters o the southern India Daimler Trucks As e collaborating on to Sales and mark rucks, and light-du bk Leyland, Nissan Daimler India Con	and Carl Ben ler is the bigg f Daimler Indi state Tamil N sia, DICV and a range of top et developmen ty trucks	z are pioneers of est manufacturer la Commercial Nadu (Wikipedia MFTBC ics ranging from at activities ( <i>Dain</i> Motors, Hyunda <i>cles Pyt - Overvia</i>
Industry: Daimler is Stuttgart, C automotive commercia Vehicles is Contributor (Mitsubish) product dev <i>India Comm</i> Products: H Competito DICV's top Mahindra & <i>News &amp; Cc</i> DICV Reve	a German multin Germany. The fou e ngineering (Wi l vehicles like tru based in Chenna rs, 2020). Under ti i Trucks and Bus velopment, produ <i>mercial Vehicles</i> , Heavy duty truck, ors: o competitors are & Mahindra, and <i>papetitors</i>   Zoom	ational automoti nders of Daimle kipedia Contribu icks and buses. 1 i, the capital of t the umbrella of I Corporation) are ction, and R&D 2019). medium-duty tr as follows: Ashd Eicher Motors ( <i>ulnfo.com</i> , 2019)	er Gottlieb Daimler tutors, 2021). Daim Che headquarters o the southern Indiat Daimler Trucks As e collaborating on to Sales and mark tucks, and light-du ok Leyland, Nissar Daimler India Cor D.	and Carl Ben ler is the bigg f Daimler Indi state Tamil N sia, DICV and a range of top et developmen ty trucks	z are pioneers of est manufacturer la Commercial Nadu (Wikipedia MFTBC ics ranging from at activities ( <i>Dain</i> Motors, Hyunda <i>cles Pyt - Overvia</i>
Industry: Daimler is Stuttgart, C automotive commercia Vehicles is Contributor (Mitsubishi product dev <i>India Comm</i> Products: H Competito DICV's top Mahindra & <i>News &amp; Cc</i> DICV Reve	a German multin Germany. The fou e ngineering (Wi e vehicles like tru based in Chenna rs, 2020). Under t i Trucks and Bus velopment, produ <i>mercial Vehicles</i> , Heavy duty truck, ors: o competitors are & Mahindra, and <i>ompetitors</i>   Zoon enue (Daimler Tr	ational automoti nders of Daimle kipedia Contribu icks and buses. 1 i, the capital of t the umbrella of I Corporation) are ction, and R&D 2019). medium-duty tr as follows: Ashd Eicher Motors ( <i>ulnfo.com</i> , 2019)	er Gottlieb Daimler tutors, 2021). Daim Che headquarters o the southern Indiat Daimler Trucks As e collaborating on to Sales and mark tucks, and light-du ok Leyland, Nissar Daimler India Cor D.	and Carl Ben ler is the bigg f Daimler Indi state Tamil N sia, DICV and a range of top et developmen ty trucks	z are pioneers of est manufacturer la Commercial Nadu (Wikipedia MFTBC ics ranging from at activities ( <i>Dain</i> Motors, Hyunda <i>cles Pyt - Overvia</i>

# Appendix F

### Risk Management Plan

	🕴 NYU	SCHOOL C	OF ONAL STUD	150	
		MANAGEMEN Project Capsto SY GC- 4100		i	
	MEN	IORANDUM			
TO:	Dr. Andres Fortino				
FROM:	Priyanka Mahesh				
DATE:	April 12, 2021				
RE:	Assignment 7 – Risk Mana	gement Plan			
you hand it submission. Project		at to write and co	over and are not	needed in yo	our
you hand it submission. Project Digital Tra itself strate Risks Make sure	in. The italics are guidance as to who insformation Strategy Roadmap igically in the digital economy to list all risks of not completing i	nt to write and co	over and are not	: needed in yo v DICV can	our reposition
you hand it submission. Project Digital Tra itself strate Risks Make sure	in. The italics are guidance as to who unsformation Strategy Roadmap gically in the digital economy	nt to write and co	over and are not n outlining how ime, on budget	needed in yo y DICV can , and with hi	our reposition
you hand it submission. Project Digital Tra itself strate Risks Make sure	in. The italics are guidance as to who insformation Strategy Roadmap igically in the digital economy to list all risks of not completing i	nt to write and co	over and are not	: needed in yo v DICV can	our reposition
you hand it submission. Project Digital Tra tiself strate Risks Make sure Add rows i	in. The italics ore guidance as to who unsformation Strategy Roadmap egically in the digital economy to list all risks of not completing to to the table for all identified risks.	at to write and co A plan of action the project on to	over and are not n outlining how ime, on budget Probability Score	v DICV can and with hi Impact Score	our reposition
you hand it submission. Project Digital Tra- itself strate Risks Make sure Add rows i Number	In. The italics are guidance as to who ansformation Strategy Roadmap - egically in the digital economy to list all risks of not completing to to the table for all identified risks. Risk Delay in gathering requirements	A plan of action he project on the p	n outlining how moutlining how ime, on budget Probability Score (1,2 or 3)	v DICV can and with hi Impact Score (1,2 or 3)	our reposition

### Appendix G

### **Change Management Plan**

Project Change Management Plan Template **Daimler India Commercial** Vehicles **PROJECT CHANGE MANAGEMENT PLAN** Digital Transformation Strategy Roadmap Project Name: Prepared by: Priyanka Mahesh Date (MM/DD/YYYY): 03/29/2020 1. Purpose The purpose of this Change Management Plan is to: · Ensure that all changes to the project are reviewed and approved in advance All changes are coordinated across the entire project. All stakeholders are notified of approved changes to the project. All project Change Requests (CR) must be submitted in written form using the Change Request Form provided. Link\_To\_Project Change Request Form The project team should keep a log of all Change Requests. Link To Project Change Request Log 2. Goals The goals of this Change Management Plan are to: • Give due consideration to all requests for change Identify define, evaluate, approve, and track changes through to completion Modify Project Plans to reflect the impact of the changes requested Bring the appropriate parties (depending on the nature of the requested change) into the discussion Negotiate changes and communicate them to all affected parties. 3. Responsibilities Those responsible for Change Management Their Responsibilities Developing the Change Management Plan • Project Manager (with the Project Team) Facilitating or executing the change management process. This process may result in changes to the scope, schedule, budget, and/or quality plans. Additional resources may be required. Project Manager Template source: http://www.cvr-it.com

Page 1

# Appendix H

### Status Reports

	Digital Tra	nsformation	Strategy Ro	admap		
	Stat	us Report ·	-April 202	1		
То:	Prof Andres Fortino	C	c:			
From:	Priyanka Mahesh					
Date:	04/12/2021					
YOUR A	NTICIPATED COMPLETION	DATE: 05/05	/2021			
COMPL	ETION SEMESTER: Summer,	2021				
	Project Status Areas:		Execu	ition Week	<x></x>	
			Green	Yellow	Red	
	1. Overall Brainet Status		Green	Yellow	Red	
	1. Overall Project Status		Green	Yellow	Red	
	1. Overall Project Status 2. Project Schedule		Green	Yellow	Red	
	2. Project Schedule		Green	Yellow	Red	
			Green	Yellow	Red	
	2. Project Schedule		Green	Yellow	Red	
	2. Project Schedule 3. Project Deliverables 4. Issues		Green	Yellow	Red	
	2. Project Schedule 3. Project Deliverables		Green	Yellow	Red	
	2. Project Schedule 3. Project Deliverables 4. Issues		Green	Yellow	Red	
	2. Project Schedule     3. Project Deliverables     4. Issues     5. Project Risks     6. Resources & Collaboration	on	Green	Yellow	Red	
	2. Project Schedule 3. Project Deliverables 4. Issues 5. Project Risks	on 1	Green	Yellow	Red	

### Project Status Report

#### Digital Transformation Strategy Roadmap

### Status Report –March 2021

cc:

To: Prof Andres Fortino	
-------------------------	--

From: Priyanka Mahesh

Date: 03/29/2021

#### YOUR ANTICIPATED COMPLETION DATE: 05/05/2021

#### COMPLETION SEMESTER: Summer, 2021 (e.g., Summer, 2025)

Project Status Areas:	Exe	cution Week	<x></x>
	Green	Yellow	Red
1. Overall Project Status		<b></b>	
2. Project Schedule			
3. Project Deliverables			
4. Issues			
5. Project Risks		<u></u>	
6. Resources & Collaboration			
7. Change Status			

\*\*see Assessment Guidelines on the last page of this doc.

Page 1 of 4

# Appendix I

## Annotated Bibliography

	🌾 NYU	SCHOOL OF PROFESSIONAL STUDIES
	Applied I	I MANAGEMENT AND SYSTEMS Project Capstone SY GC- 4100
	MEN	IORANDUM
TO: FROM: DATE:	Dr. Andres Fortino Student Exemplar Fall 2019	
RE:	Assignment 2A – Ten Refe	rences
	R	leferences
1		
		of the 2018 CHI Conference on Human Easters in
Ŭ		of the 2018 CHI Conference on Human Factors in
Comp	uting Systems. (2018). Acm.org. <u>h</u>	ttps://dl.acm.org/doi/abs/10.1145/3170427.3174367
Comp a) A	<i>uting Systems</i> . (2018). Acm.org. <u>h</u> bstract: The Business Intelligence	ttps://dl.acm.org/doi/abs/10.1145/3170427.3174367 ce (BI) paradigm is challenged by emerging use
Comp a) Ai	uting Systems. (2018). Acm.org. h hstract: The Business Intelligence uses such as news and social me	ttps://dl.acm.org/doi/abs/10.1145/3170427.3174367
Comp. a) Ai ca u	<i>uting Systems</i> . (2018). Acm.org. <u>h</u> <i>bstract</i> : The Business Intelligence uses such as news and social me nstructured, the analysis metrics	ttps://dl.acm.org/doi/abs/10.1145/3170427.3174367 ce (BI) paradigm is challenged by emerging use edia analytics in which the source data are
Comp a) A ca u re	uting Systems. (2018). Acm.org. h bstract: The Business Intelligence uses such as news and social me nstructured, the analysis metrics presentations are unsupported b	ttps://dl.acm.org/doi/abs/10.1145/3170427.3174367 ce (BI) paradigm is challenged by emerging use edia analytics in which the source data are s are unspecified, and the appropriate visual
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