



COBIT CONSULTANTS

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COBIT 19

COBIT 19 IS A GLOBALLY RECOGNIZED FRAMEWORK THAT PROVIDES GUIDANCE FOR EFFECTIVELY MANAGING AND CONTROLLING IT RESOURCES IN ORGANIZATIONS.

- ALIGNING INFORMATION TECHNOLOGY (IT) PROCESSES WITH BUSINESS GOALS
- AIDING IN IT AUDITING

CHALLENGES ADRESSED

- CHANGING TECHNOLOGICAL LANDSCAPE
- INCREASING COMPLEXITY OF IT SYSTEMS
- NEED FOR TRANSPARENT AND EFFECTIVE IT GOVERNANCE

PROBLEMS WITH IMPLEMENTING THE COBIT FRAMEWORK



Complexity

The framework is complex and often misunderstood. It is challenging for many organizations to implement and sustain.



Manual Audits

Time-consuming, error-prone, and this may lead to inconsistencies and inefficiencies



High Costs

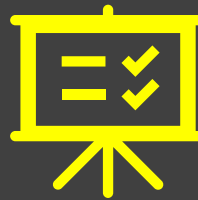
Organizations with limited resources can face a significant burden when it comes to IT audits, as they must consider the costs of personnel with certain expertise.

BUSINESS OPPORTUNITY



Increased IT effectivity

COBIT19 could enable businesses to more effectively align IT Processes with business strategy.



IT auditing compliance

Aligning IT from the ground up to comply with regulatory standards ensuring favorable IT audits and governance compliance.



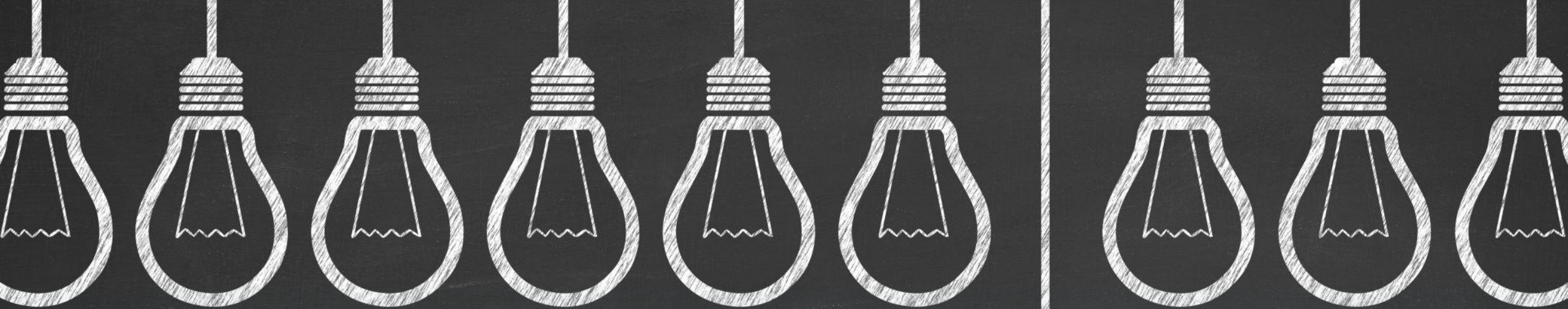
Competitive Advantage

COBIT19 can provide a competitive advantage for businesses by offering unique and innovative software solutions that can differentiate them from competitors and attract customers.

PROJECT MANAGEMENT METHODOLOGY

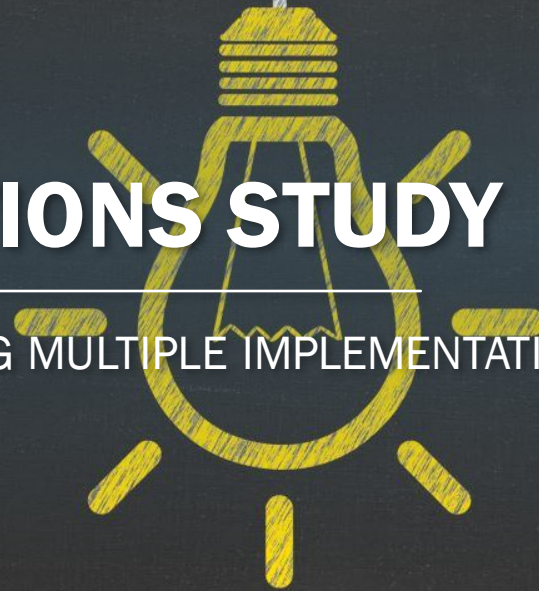
To ensure the success of the project, project management tools will be used. A hybrid of methodologies including the Agile, the Waterfall and the Prototype will be used.

The qualities offered by each methodology to manage resources, save time and effectively allow for the implementation of the project will be adopted.



ALTERNATIVE SOLUTIONS STUDY

EXPLORING THE FEASIBILITY OF THE IDEA BY COMPARING MULTIPLE IMPLEMENTATION SOLUTIONS.



BUSINESS REQUIREMENTS



SIMPLIFY THE
IMPLEMENTATION OF COBIT IN
A BUSINESS ENVIRONMENT



SIMPLIFY ALIGNING IT GOALS
WITH BUSINESS GOALS



STREAMLINING IT AUDITING



EXTENSIVE REPORTING

COMPARISON CRITERIA

Solutions Criteria	
Business Requirements	How close does this solution address all the business requirements?
Schedule	Can this solution be implemented within the timeframe of this project (8 months) ?
Budget	What would be the implementation cost of this solution compared to the other solutions?
Resources	Is this solution feasible with the resources (Man Hours, Technology, ect) allocated to this project?
Practicality	Is this solution realistically implementable or over ambitious?
Marketability	Would the industry be interested in such a product ?

MODIFY : CONTINUE DEVELOPMENT ON CURRENT COBIT SOLUTION

Adding new functionality onto the already existing COBIT-19 solution developed in 2022 by the faculty of Computer Science at the NWU.

Solutions Criteria	Feasibility Score	Motivation
Business Requirements	10	Develop from scratch to conform to business requirements
Schedule	9	Continuation should be faster than starting from scratch
Budget	7	Only minimal costs for hosting but quite an investment into labour
Resources	9	Mostly human resources would be required and sufficient man hours is available
Practicality	9	The first iteration showed that this type of solution could be build and could add value
Marketability	8	The name of the NWU hold weight and few other products and services address this business problem

COST OF CONTINUING DEVELOPMENT ON CURRENT COBIT SOLUTION

Adding new functionality onto the already existing COBIT-19 solution developed in 2022 by the faculty of Computer Science at the NWU.

Expense Category	Expense Description	Expense Value	Expense Type
Cost of labour	Cost of development	450000	Fixed
Cost of equipment	Cost of running solution in cloud environment.	12000 per year	Fixed
Maintenance costs	Maintenance of the solution and keeping it up to date.	R250 per hour per developer	Variable
Total Cost		~ R462000	

CREATE: DEVELOP A NEW SOFTWARE SOLUTION FROM SCRATCH FOR DESKTOP DEVICES

Creating a new native windows solution to address all the issues of the previous solution. With the added ease of use of a native app.

Solutions Criteria	Feasibility Score	Motivation
Business Requirements	10	Develop from scratch to conform to business requirements
Schedule	5	The available man hours could prove to be to little
Budget	6	Only minimal costs for hosting but requires a large investment into labour
Resources	7	Mostly human resources would be required and sufficient man hours is available
Practicality	7	The COBIT solution of last year showed it could be done.
Marketability	8	The name of the NWU hold weight and few other products and services address this business problem.

COST OF CREATING A A NEW SOFTWARE SOLUTION FROM SCRATCH FOR DESKTOP DEVICES

Creating a new native windows solution to address all the issues of the previous solution. With the added ease of use of a native app.

Expense Category	Expense Description	Expense Value	Expense Type
Cost of labour	Cost of development	525000	Fixed
Cost of equipment	Cost of running solution in cloud environment.	5000	Fixed
Maintenance costs	Maintenance of the solution and keeping it up to date.	R250 per hour per developer	Variable
Total Cost		~ R530000	

DISCARD: USING 3RD PARTY SOFTWARE TO PROVIDE CONSULTATION SERVICES

Enter negotiations with 3rd party vendors to use their software product to conduct IT audits and help business strategists align their IT goals with their business goals.

Solutions Criteria	Feasibility Score	Motivation
Business Requirements	7	Not all Business requirements will be met using 3 rd party software.
Schedule	10	As very little work is needed besides integration and negotiations.
Budget	6	Using 3 rd party software will likely be more expensive than the other options.
Resources	9	Once the software is obtained personnel will have to be trained to use the software.
Practicality	2	Using 3 rd party software may lead to constraints by 3 rd party vendors
Marketability	5	Convincing clients to make use of our service rather than just using the software themselves may be a challenge.

COST OF USING 3RD PARTY SOFTWARE TO PROVIDE CONSULTATION SERVICES

Enter negotiations with 3rd party vendors to use their software product to conduct IT audits and help business strategists align their IT goals with their business goals.

Expense Category	Expense Description	Expense Value	Expense Type
Cost of labour	Cost of development	R 0	Fixed
Cost of purchase	Cost of buying software	~ R1.2 mil per year (Rough estimate from RiskOptic)	Fixed
Total Cost		~ R1.2 mil per Year	

CONSTRAINTS OF USING 3RD PARTY SOFTWARE TO PROVIDE CONSULTATION SERVICES

Enter negotiations with 3rd party vendors to use their software product to conduct IT audits and help business strategists align their IT goals with their business goals.

- Contractual obligations: The use of third-party software may be subject to licensing agreements that impose specific terms and conditions, such as limitations on the number of users, restrictions on the use of the software for commercial purposes, and requirements for regular updates and maintenance.

COMPARISON TABLE

	Modify current solution			Implement new solution			Purchasing an existing solution		
Criteria	Score	Weight	Total	Score	Weight	Total	Score	Weight	Total
Business Requirements	10	0.35	3.5	10	0.35	3.5	7	0.35	2.45
Schedule	9	0.2	1.8	5	0.2	1	10	0.2	2
Budget	7	0.15	1.05	6	0.15	0.9	6	0.15	0.9
Resources	9	0.1	0.9	7	0.1	0.7	9	0.1	0.9
Practicality	9	0.1	0.9	7	0.1	0.7	2	0.1	0.2
Marketability	8	0.1	0.8	8	0.1	0.8	5	0.1	0.5
Totals			8.95			7.6			6.95

SUGGESTED SOLUTION

Modification of current COBIT
software solution

The COBIT software solution was developed in 2022 although functional still needs a lot of work before it is ready to be used in a production environment.

- Addition of new user-requested functionality
- Addition of new reporting functionality
- Addition of new modules tailored for use at the NWU
- Enhancing User Experience
- Extensive bug fixing

After this round of development, the solution should be in a state where it could be released and used in a production environment.