

Meeting Minutes For Group 2

Meeting Minutes 13/11/2022

Times recorded in GMT

9:00 Team meeting starts

9:55 Everyone's area of focus:

- Lee: Bayes' Theorem + CVSS based on CAPEC
- James + Celine: Explore Monte Carlo Simulation + align to effects of digitalisation changes
- Marios + Mbali: Business strategy - including supply chain, DR, legal aspects

10:14 Next team meeting tentatively same time on Sunday

10:15 Arrange next meeting with Doug in 2 weeks to discuss if we're on the right direction

10:16 Meeting adjourned

Meeting Minutes 20/11/2022

Times recorded in GMT

10:00 Team meeting starts

10:15 Team discusses about using diagrams, more technical and implementation details

10:20 Monte Carlo Simulation (MCS) sample run through by James, mentions consider risk matrix

10:28 From Lee - Doug recommends use Topsis as Bayes' only limits to 2 hypotheses

10:35 Topsis run through by Lee, from CAPEC vulnerabilities, focus is on supply chain

11:20 Decide on group check-in meeting date-time with Doug - lock in Tuesdays for the next 2 weeks at 11am GMT

11:27 From generic to specific for MCS - includes overall, more than just supply chains

11:41 MCS focuses on financial justification, i.e. profits/risk of loss, TOPSIS focuses on ranking best implementation

11:46 Discussion and mapping Executive Summary checklist requirements to Module Units learnings

11:48 A few of us reflect on module content

11:57 Meeting adjourned

Meeting Minutes 24/11/2022

Times recorded in GMT

11:30 Team meeting starts

11:33 Doug joins - Group 1's meeting with Doug officially starts

11:35 Our raised question: How can we justify the quantitative data from qualitative resources in Monte Carlo Simulation (MCS)?

11:36 Doug: MCS uses widely available probability distributions to get a prediction, there is an equation, neutron releases represent a random event. Establishing the type of probability distribution that fits our situation. Example in lecturecast - inventory using Yasai. Gives you the probability that a certain event will happen with a certain quantity - e.g. minimise the number of reordering/stock.

eckstein.rutgers.edu/om/word-problems/inventory.html

"Dynamic" Simulation Example: Inventory

You sell a product for which monthly demand is Poisson with a mean of 400. The units cost you \$1,500 each, and you sell them for \$2,800. You can carry inventory from month to month, and estimate your inventory holding cost as \$10 per unit left in inventory at the end of a month.

Every time you order, there is a fixed cost of \$600, plus the \$1,500 per unit cost of the products ordered.

You want to simulate a 24-month period, at the outset of which you have 700 units in stock. For every unit in stock at the end of this period, you assess a "salvage" credit of \$1,500.

You are considering ordering policies of the following form: if the ending inventory for a given month is less than or equal to some "threshold" value R , immediately order another Q units. For simplicity, assume that these units become available immediately at the beginning of the next month.

Your boss asks you to evaluate the following possible combinations of R and Q . Which one seems to yield the highest expected profit over the 24 month period?

Policy	R	Q
1	400	800
2	400	1000
3	400	1200
4	500	1000
5	500	1200
6	600	1000
7	600	1200

For each policy, you also wish to estimate the probability of having a "stockout" at some time during the 24 month period. A "stockout" means that there is insufficient stock to meet customer demand.

This example uses the Poisson model, and has 2 variables (R , Q).

MCS is meant to give you the probabilities for you to use them elsewhere, not constructing the probabilities. We should look at the variables and map them.

Possible variables:

- Location - where Pampered Pets places new factories
- Production
- Deliver
- Number of years/days

11:48 Question on RPO/RTO and DR, design diagram for cloud model.

Doug: Yes, good for discussion. Get an **idea on indicative and relative costs**. When you go for a cloud alternative - it's not Nirvana, there's tradeoffs. How to choose solutions (if there's no need for one, not just choose the easiest to build solution) - vendor lock-in, flexible system, real-world proposal, put into business terms. Consider financial implications, no need to give a cost, bear in mind the implications.

11:50 CAPEC, TOPSIS question. Doug: No need to go into maths.

11:54 Question on report layout. Doug's suggestion: main body of report 2k words - exec summary. Addresses questions (inc. any data needed), present results - details in appendix. Bullet points are fine. Use tables.

11:58 Final seminar is a group presentation.

12:00 e-portfolio question - what is needed to get a distinction. Doug: If you did all the activities - max of 20 marks, roughly 20% of the e-portfolio. 20% on collaboration - discussions, dedicated activities for e-portfolio that counts for participation, seminars. Reflection which is in the last seminar. Other % such as the use of references.

12:10 Group meeting with Doug adjourned

12:34 Team meeting adjourned

Meeting Minutes 27/11/2022

Times recorded in GMT

9:00 Team meeting starts

9:10 Discussion about DR solution architecture - NetApp + VMware likely too costly (150k) compared to AWS + VMware

9:15 Include Business Impact Analysis (BIA) for Business Continuity (BC) Plan along with DR solution

9:20 Discussion about MCS Inventory and stock cost/profit

9:48 Discussion about executive summary outline

10:01 Team meeting adjourned

Meeting Minutes 1/12/2022

Times recorded in GMT. Note that the following minutes are not exhaustive.

11:30 Team meeting with Doug starts

11:32 Mention of DR discussion

11:35 Discussion on TOPSIS, relating to Bayesian probability with supply chains - conditional probability change, how it affects product quality

11:37 Yasai, inventory problem

11:39 MCS is a modelling tool

11:50 Link to spreadsheet or in Appendix, include YT videos.

11:52 If we are too limited by words, DR diagram and some comments on it. Glossary in Appendix.

12:00 Team meeting adjourned

Meeting Minutes 2/12/2022

Times recorded in GMT

10:30 Team meeting for DR Diagram peer review starts

11:00 Discuss executive summary outline

11:40 Team meeting adjourned

Meeting Minutes 4/12/2022

Times recorded in GMT

9:00 Team meeting starts

9:20 Discuss overall executive summary references, appendix, DR components

10:00 Team meeting adjourned

Meeting Minutes 6/12/2022

Times recorded in GMT

9:00 Team meeting starts

9:05 Reflect on assignment 2 executive summary submission

9:15 Unit 12 Seminar 6 Presentation Discussion

9:50 Team meeting adjourned