



LUND
UNIVERSITY

The project

MARIA KIHLM



Overall objectives

- Your group has newly formed an engineering consulting company, and you have just signed your first client.
- You have received a design brief from your client organization, and you will design a networking system to meet the requirements of the brief.
- You will pitch your system design to representatives from your client organization.
- At the final presentation, the client organization will hold a meeting where they will decide whether the organization should buy your proposed solution or not 😊.
- Also, your group will act as representatives from a client organization for another group and evaluate their proposed system design.

Project activities

All information about the project can be found in the Project document found on Canvas.

The project includes both **group tasks** and **individual tasks**.

- Group tasks:
 - Project plan and client organization scenario, week 2.
 - Two pitches (short presentations) to your client organization, week 3 and 5.
 - At least one meeting with project supervisor, week 4-5.
 - One report, week 6 and 8.
 - One final presentation to everyone (and the client company), week 7
 - Internal client organization meetings, week 3, week 5, and week 7.
- Individual tasks:
 - Two Readings, week 3 and 5.
 - Peer-review of one project report, week 7.

Supervision and help

- Your group will have a project supervisor:
 - Maria Kihl (maria.kihl@eit.lth.se)
 - Habtegebreil Kassaye Haile (habtegebreil_kassaye.haile@eit.lth.se)
- Your group should meet the project supervisor at least once, in **week 4 or 5**. You and your supervisor agree on the meeting time.
- Also, **you can at any time email and ask questions, or schedule an extra meeting.**

You are all individually responsible for keeping in contact with your group, and actively work with the project. If you do not do your part properly, you will be excluded from the group.

Project time table

Week	Day	Task
1	Thursday	Individual task 0: Scenario selection
2	Friday	Group task 1: Company name, Project plan, and Client scenario
3	Thursday	Group task 2: First presentation for your client organization
	Sunday	Individual task 1: Reading 1
4 - 5		Meeting with supervisor
5	Thursday	Group task 3: Second presentation for your client organization
	Sunday	Individual task 2: Reading 2
6	Friday	Group task 4: First version of the report
7	Wednesday	Individual task 3: Peer review of report
	Friday	Group task 5: Final presentation
	Friday	Group task 6: Client organization meeting
8	Sunday	Group task 7: Final version of the report

Group task 1a: Name and Project plan

- **Assignment:** The group should select a **name of your company**, and write a **Project plan**:
 - A list of group members and their competences.
 - A short introduction to your scenario.
 - A plan for how the group will communicate and collaborate. This can include for example which communications channels will be used (e.g. email, phone, Facebook, Canvas), and what to do if a group member does not respond.
- **Completion:** Your name and project plan must be submitted in Canvas by **Sept 11 (Friday week 2)**.

Group task 1b: Client organization scenario

- **Assignment:** Your group will act as representatives for another scenario. You should submit a short description of this scenario, and some of the challenges that you see with this scenario.
- **Completion:** The client organization scenario description and challenges must be submitted in Canvas by **Sept 11 (Friday week 2)**.

Group task 2a: First meeting with your client organization

- **Assignment:** You will give a short pitch of your project to your client organization. The pitch should be maximum 5 minutes with slides. **Pitch outline:**
 - Explain the scenario you are addressing.
 - Describe the challenges that you see with this scenario.
 - Explain identified requirements on the communication infrastructure
 - Mention any anticipated difficulties for the project.
- **Completion:** Approved pitch during one of the project sessions on **September 17 (Thursday week 3)**. All group members must actively participate in the preparation of the pitch, and you must participate in your pitch session (or get special approval from the course responsible to not participate).

The pitches will be performed on Zoom/Teams. The link will be sent to you from your supervisor.

Group task 2b: First presentation by your consultancy company

- **Assignment:** Your consultancy company will give a short pitch of their project. The pitch should **briefly explain the scenario they are addressing**, the **challenges that they have identified**, their **identified requirements on the communication infrastructure** that they will develop, and any **anticipated difficulties** for the project.
- **Completion:** You will listen to the pitch and give feedback, both after the presentation on **September 17** and in Canvas (with **deadline September 20**). All group members must actively participate in the discussion and feedback.

Group task 3a: Second meeting with your client organization

- **Assignment:** You will give a short pitch of your project to your client organization. The pitch should be maximum 5 minutes with slides. The pitch should include **your proposed system design**.
- **Completion:** Approved pitch during one of the project sessions on **October 1** (Thursday, week 5). All group members must actively participate in the preparation of the pitch, and you must participate in your pitch session (or get special approval from the course responsible to not participate). .

Group task 3b: Second presentation by your consultancy company

- **Assignment:** Your consultancy company will give a short pitch of their project. The pitch should include their **proposed system design**.
- **Completion:** You will listen to the pitch and give feedback, both after the presentation on **October 1** and in Canvas (with **deadline October 4**). All group members must actively participate in the discussion and feedback.

Group task 4: First version of the report

- **Assignment:** Your group should write a report that includes a clear description of your system design. The report should be written as a technical report of at least 6 pages (see template on Canvas), and at least include the following sections:
 - 1. Executive summary
 - 2. Declaration of originality and use of AI tools
 - 3. Introduction (with problem formulation and challenges)
 - 4. Technical background (with relevant work)
 - 5. System design
 - 6. Economy
 - 7. Conclusions
- **Completion:** A report that fulfills the above requirements is submitted in Canvas no later than **October 9** (Friday week 6).

Declaration

The final version of your report **must include a declaration of the originality of the text and the use of AI tools**. Use the following template:

We hereby affirm that this report was composed by us, that the work herein is ours, except where explicitly stated otherwise in the text. Where other people's work has been used (either from a printed source, Internet, or any other source), this has been carefully acknowledged and referenced.

And if you have used any AI-tools:

During the preparation of this report, we have used xx (name of AI tools) to assist us in the writing process to xx (here you list how you have used the AI tools, for example, to improve language, flow, and readability). After using this tool/service, we have reviewed and edited the content as needed, and we take full responsibility for the content of the whole report.

Group task 5: Final presentation

- **Assignment:** Your group will give a final presentation. Other students will listen to your presentation. The presentation should be maximum 10 minutes with slides. All group members must actively participate in the presentation. The presentation should include:
 - Your final proposed system design.
 - An estimate on how much the system will cost.
 - An estimate on how long it will take to implement the system.
 - Any other resources that would be required.
- **Completion:** An approved final presentation during one of the sessions on **October 16** (Friday week 7).

Group task 6: Client organization meeting

- **Assignment:** You will hold an internal meeting in your client organization to decide if your organization should purchase the proposed solution. At the end of the meeting, you should present your decision and give your final feedback to the group that did the system design. See feedback topics in Project description.
- **Completion:** All group members must actively participate in the internal meeting on **October 16** (Friday week 7) and contribute to the decision and feedback to the group.

Group task 7: Final version of report

- **Assignment:** After your presentation, you will submit the final version of your report. In this final version, you should consider all feedback you have received from both the peer review and the presentation.
- **Completion:** Final version of report should be submitted in Canvas no later than **October 25** (Sunday week 8) and then approved.

Individual task 1: Reading 1

- **Assignment:** You should read a scientific article that is relevant for your project. You should answer the following things with 400-800 words (as a quiz in Canvas).
 - Give complete reference to the article you have read
 - Give a short summary of what the article is about.
 - How does this article relate to your project?
 - What did you learn from this article?
 - What are the limitations or weaknesses of this article?
- **Completion:** You must have submitted your answers in Canvas latest **September 20** (Sunday week 3).

Individual task 2: Reading 2

- **Assignment:** You should read a scientific article that is relevant for your project. You should answer the following things with 400-800 words (as a quiz in Canvas).
 - Give complete reference to the article you have read
 - Give a short summary of what the article is about.
 - How does this article relate to your project?
 - What did you learn from this article?
 - What are the limitations or weaknesses of this article?
- **Completion:** You must have submitted your answers in Canvas latest **October 4** (Sunday week 5).

Individual task 3: Peer-review of report

- **Assignment:** You should perform qualified peer review of the first version of the report that your consultancy company has submitted. You should submit an **annotated version of the pdf-file** and a **summary of your peer review** as a **comment in the Canvas assignment**. The review should, for example, include (see full list in Project document):
 - Is the report well-structured and thereby easy to understand?
 - Does the report contain all parts you need to understand the solution?
 - Does the proposed solution meet the requirements outlined in the scenario?
 - What are the strengths and weaknesses of the proposed solution?
- **Completion:** A qualified peer-review is performed and submitted as a comment in the Canvas assignment latest **October 14** (Wednesday week 7).

Some words about the proper use of AI tools

- **You are responsible for all text, images and references.**
- The whole report must have been written by yourselves, with proper use of references.
 - You are allowed to use AI tools to fix grammar and flow of the text, after it has been written by you.
 - You are allowed to prompt an AI tool to make an image. However, the image must be checked by yourselves for correctness afterwards.
 - **You are NOT allowed to prompt an AI tool to write new text.**
- You are allowed to prompt AI tools to search for potential references within a specific area.
 - You are expected to have read all references that you decide to include in the report.
 - ALL references in your report will be checked before approved.
 - **You are NOT allowed to prompt an AI tool to find and add references in suitable places in your text.**

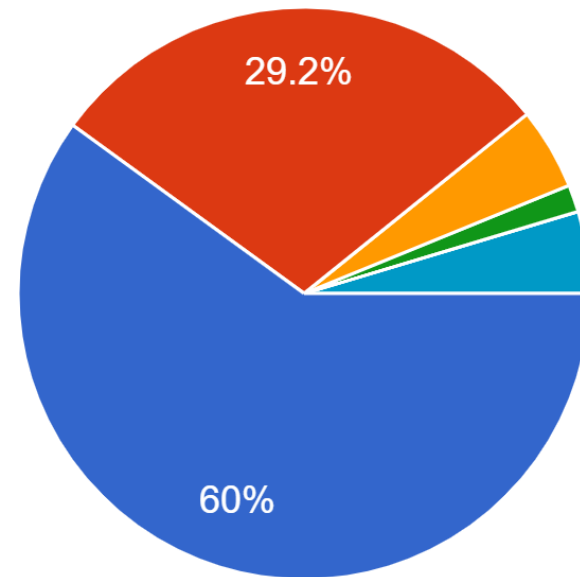
We will report all types of suspicious behavior, results, text, references etc.

Project groups

Students in the course

What program are you studying?

65 responses



- C program at LTH
- D program at LTH
- E program at LTH
- I program at LTH
- Other engineering program at LTH
- Master in Wireless communication at LU
- PhD student
- International exchange student (Erasmus or other)

Project group selection criteria

- Each group should have 3-4 members.
- Your personal choices, including a friend to work with.
- As many different scenarios as possible.

This means that you all have received one of the scenarios that you have chosen, but not always the 1st choice scenario.

Note: To be sure that you are in the same group as the friend you registered, the following must apply:

- You and your friend must have registered each other as friends.
- You and your friend must have registered the same scenarios, in the same priority order.

Group 1

Scenario 2: Battlefield communication

- Muhammad Hilmi
- Neda Chamyani
- Madeleine Wifvesson
- Egil Tordengren

Representatives for H.A.L.O: Group 2

Project supervisor: Habtegebreil Kassaye Haile

Group 2

Scenario 3: Cattle monitoring

- Emma Dahlbom
- Hannes Månsson
- Linnea Nilsson
- William Tengstrand Nugent

Representatives for Maryvale station: Group 3

Project supervisor: Habtegebreil Kassaye Haile

Group 3

Scenario 11: Mobile live streaming

- Abbe Nilsson
- Ella Svensson
- Simon Alm

Representatives for Malmö Arena: Group 4

Project supervisor: Habtegebreil Kassaye Haile

Group 4

Scenario 7: Internet access in rural areas

- John Erlandsson
- John Johansson
- Ida Tahvanainen
- Albin Hugosson

Representatives for UNECA: Group 5

Project supervisor: Habtegebreil Kassaye Haile

Group 5

Scenario 5: Mass surveillance system

- Jonatan Kråkhede
- Carl Levander
- Aksel Sjögård
- Johannes Persson

Representatives for MTB: Group 6

Project supervisor: Habtegebreil Kassaye Haile

Group 6

Scenario 6: Multi-player online game

- Joel Edström
- Loke Bahr
- Gabriel Skog

Representatives for Titanic Inc.: Group 1

Project supervisor: Habtegebreil Kassaye Haile

Group 7

Scenario 3: Cattle monitoring

- Astrid Hammarberg
- Maja Blomgren
- Carl Haggren
- Titan Rama

Representatives for Maryvale station: Group 8

Project supervisor: Maria Kihl

Group 8

Scenario 11: Mobile live streaming

- Anton Strömblad
- Björn Shepard
- Yendi Bou Absi

Representatives for Malmö Arena: Group 9

Project supervisor: Maria Kihl

Group 9

Scenario 7: Internet access in rural areas

- Alexander Hiadan
- Elliot Sjövall
- Linus Sköld
- Nora Eklund

Representatives for UNECA: Group 10

Project supervisor: Maria Kihl

Group 10

Scenario 13: Underwater environmental monitoring

- Signe Davidsson
- Maya Tilda Kllgren Frank
- Sofia Gerholm
- Lisa Almkvist

Representatives for IOC: Group 11

Project supervisor: Maria Kihl

Group 11

Scenario 5: Mass surveillance system

- Oskar Ahlberg
- Olle Någård
- Isac Belfrage
- Samuel Esfandyari

Representatives for MTB: Group 12

Project supervisor: Maria Kihl

Group 12

Scenario 2: Battlefield communication

- Edwin Jönsson
- Tim Johansson
- Ibraheem Madlool
- Milad Ibrahim

Representatives for H.A.L.O: Group 7

Project supervisor: Maria Kihl

Group 13

Scenario 4: High-density Internet access

- Carl Waller Snygg
- Ghaithaa Alshehabi
- Alexander Mamichev
- Mohsin Ahmad

Representatives for Malmö FF: Group 14

Project supervisor: Habtegebreil Kassaye Haile

Group 14

Scenario 8: The Smart city

- Erik Tengström
- David Lomelino
- Saad Kachko
- Andreas Ekner

Representatives for Malmö Stad: Group 15

Project supervisor: Habtegebreil Kassaye Haile

Group 15

Scenario 10: Internet on Mars

- Vidar Rosander Ljungberg
- Jonas Sjölund
- Leo Fjätström
- Viggo ståhlberg

Representatives for ESA: Group 16

Project supervisor: Maria Kihl

Group 16

Scenario 12: Humanitarian Emergencies

- Hannah Normén
- Frida Jönsson
- Hannah Jisland
- Elsa Andersson

Representatives for ETC: Group 17

Project supervisor: Maria Kihl

Group 17

Scenario 1: Drones for Medical transport

- Ebba Söderberg
- Ludwig Jongen
- Melker Petersson
- Carl Jirdén

Representatives for GMC: Group 13

Project supervisor: Maria Kihl

Preliminary schedule for pitches and presentation

- **Pitch 1 on Sept 17 (online)**
 - 10:15-11:30: Group 1-6 (Habte)
 - 10:15-11.30: Group 7-12 (Maria)
 - 13:15-14:30: Group 13-17 (Habte and Maria)
- **Pitch 2 on Oct 1 (online)**
 - 10:15-11:30: Group 1-6 (Habte)
 - 10:15-11:30: Group 7-12 (Maria)
 - 13:15-14:30: Group 13-17 (Habte and Maria)
- **Presentation Oct 16 (On campus)**
 - 09:00-11:30: Group 1-6 in room E:1123
 - 09:00-11:30: Group 7-12 in room E:3319
 - 13:15-15:30: Group 13-17 in room E:1123

You only have to participate in your scheduled sessions.

Group work

- Get in contact with each other (you can always find each other via Canvas)
- Decide when to meet to decide a name of your company and write the project plan (or do this right now).
- Your first group deadline is on Friday 😊.



LUND
UNIVERSITY