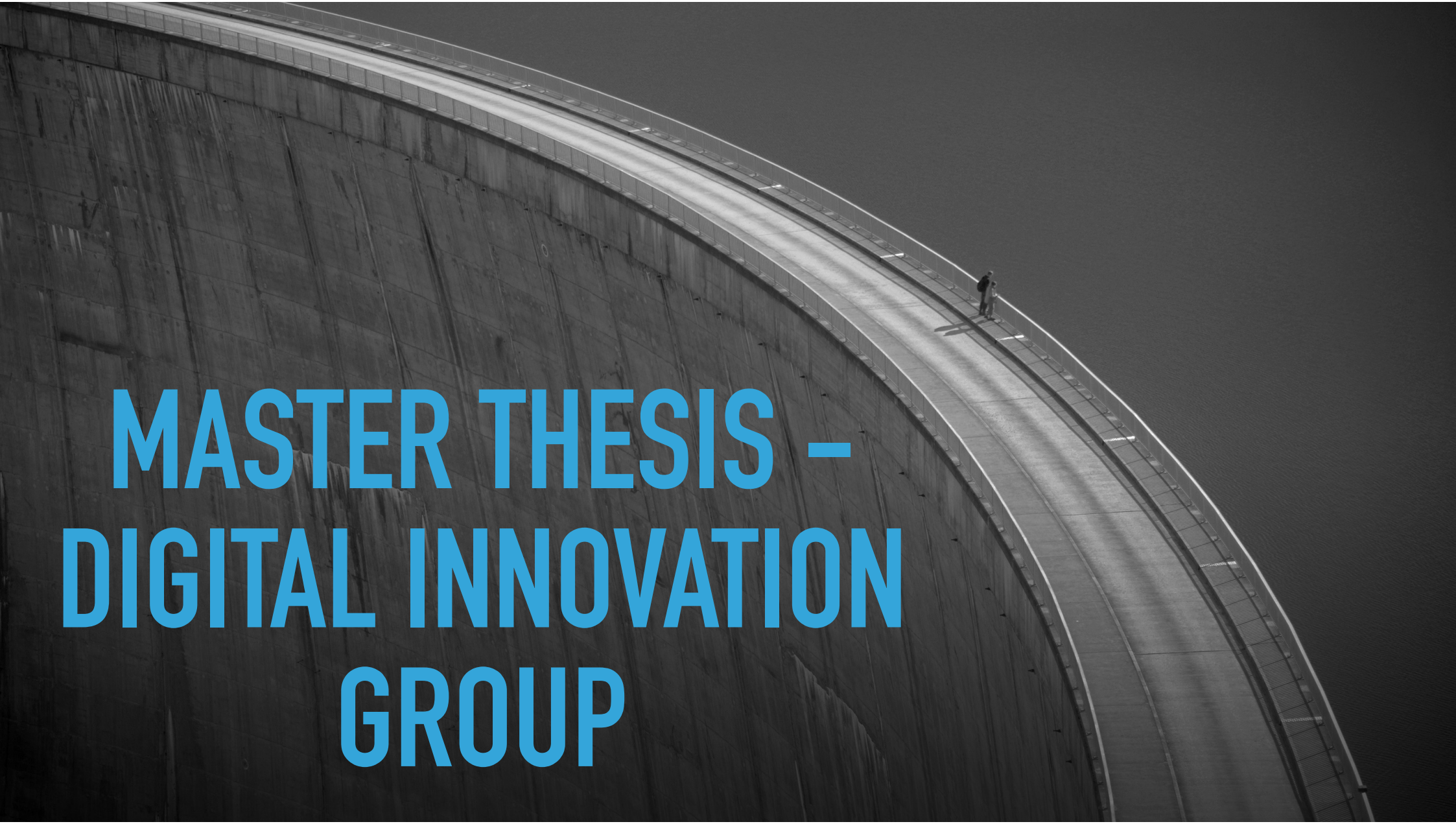

MASTER THESIS –
DIGITAL INNOVATION
GROUP

GROUP MEMBERS OF THE DIN-GROUP

Faculty

Sundeep Sahay

Margunn Aanestad

Egil Øvrelid

Katja Hydle

Miria Grisot

Raissa Pershina

Lena Hylving

Proff II/Adj Prof

Tor Morten Grönli

Espen Andersen

Jon Grov

PostDoc

Andreas Ulfsten

Dragan Paparova

Urszula Ayache

Daniel Stedjan Svendsrud

PhDs

Barbro Renland Haugjord

Åsmund Dahlen

Paul Gude Deberitz

Maryam Washik

Mali Konstad Brödre Skift

Esli Soetens

SUPERVISORS OF THE DIN-GROUP

Faculty

Sundeep Sahay

Margunn Aanestad

Egil Øvrelid

Katja Hydle

Miria Grisot

Raissa Pershina

Lena Hylving

PostDoc

Daniel Stedjan Svendsrud

EXAMPLES OF RESEARCH QUESTIONS WE ASK IN THE GROUP

What are the consequences of datafication?

How are digital platform ecosystems established and developed?

How and why do digital infrastructures evolve and change?

How does the Human-AI collaboration work?

What are data strategies and how are they implemented?

What is the role of the IT architecture?

How to design digital infrastructures that scale?

How can digital systems be designed, implemented, and used in different applications?

How can organizations manage digital transformation?

How to implement AI?

What are the ethical consequences of digitalization?

What are the organizational consequences of AI?

How can digital systems address societal challenges?

How to innovate through data?

In what ways can digital innovation be encouraged?

How should data be governed?

OUR RESEARCH APPROACH

- Sociotechnical
- Empirical
- Engaged
- Qualitative



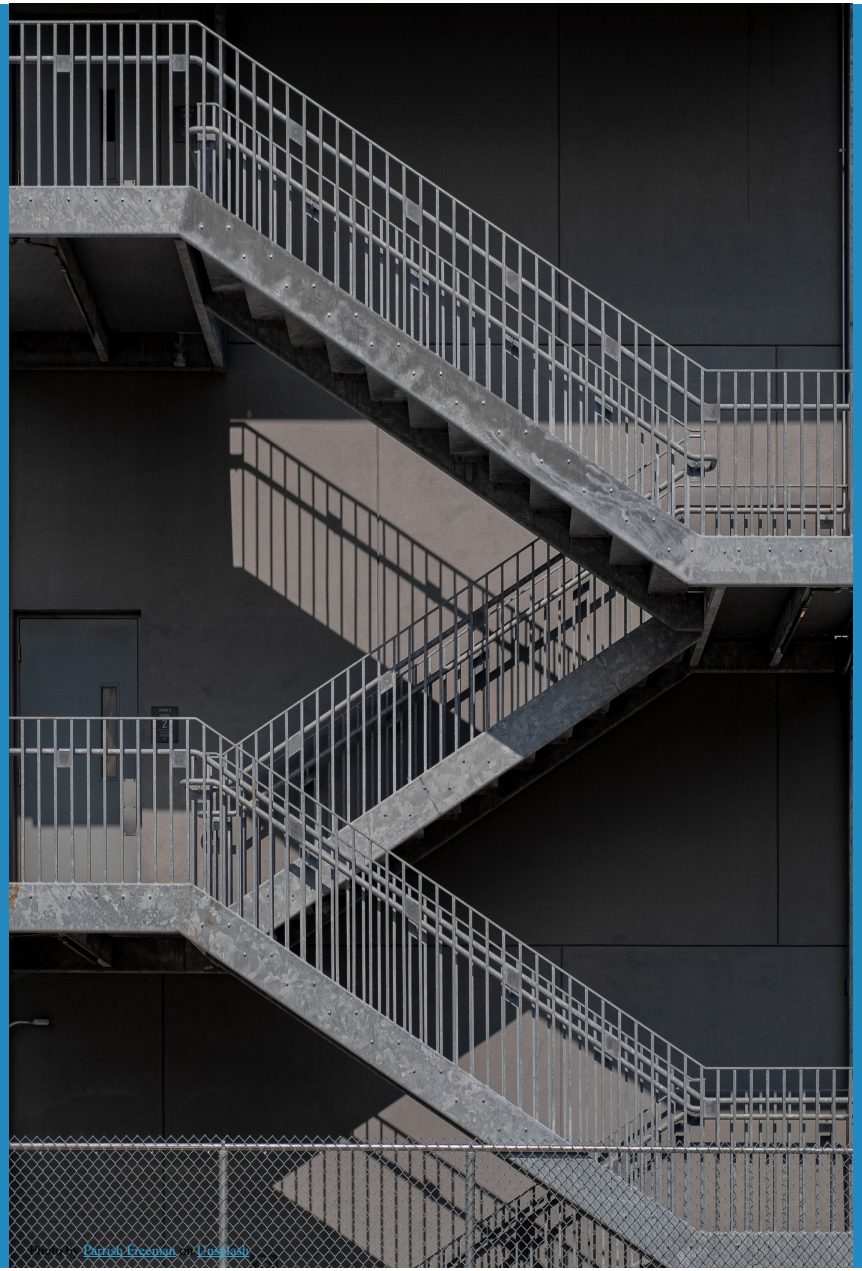
HOW TO DO A MASTER'S THESIS WITH THE DIGITAL INNOVATION GROUP

Sending out information about supervisors to student/s

(October 31st)

Submit a first idea (15th of October)

Fill in nettskjema

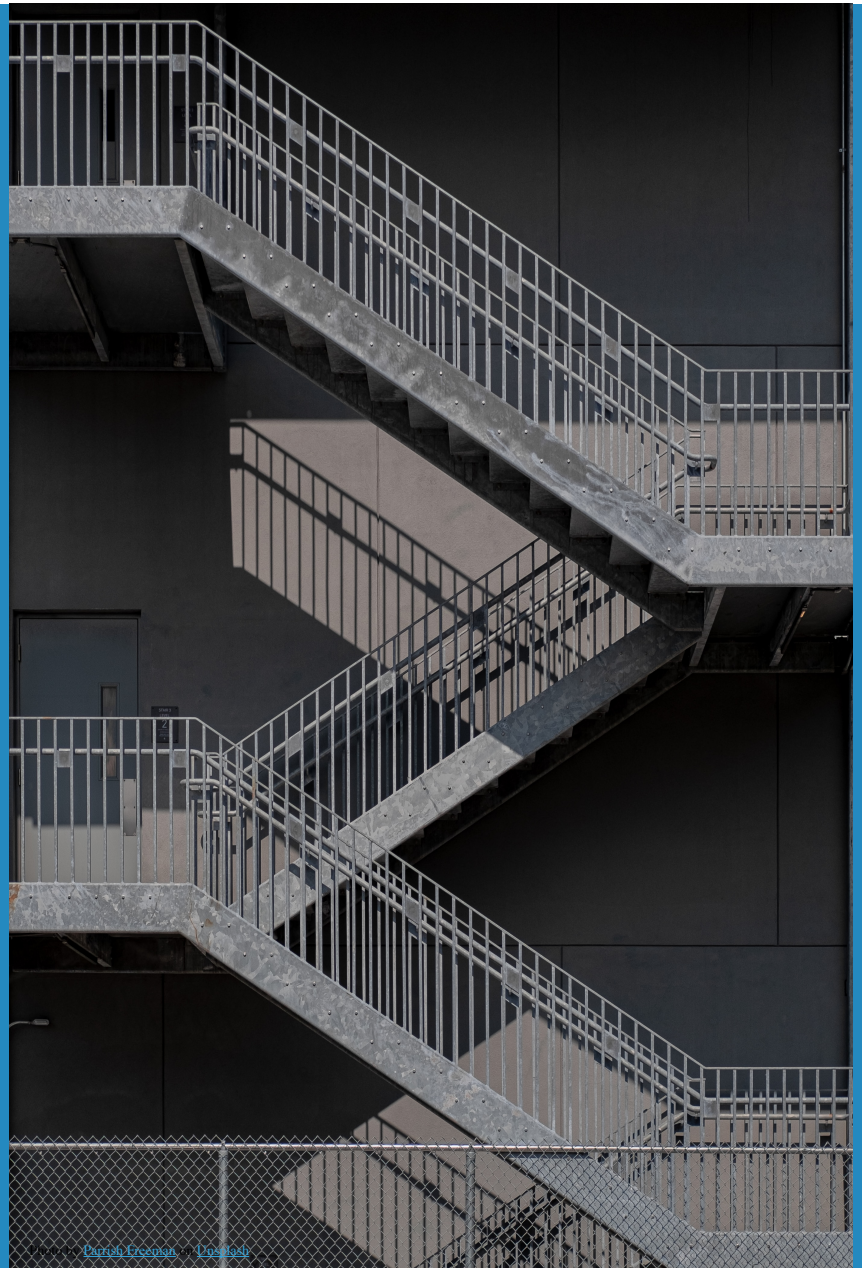


Supervisors go through the ideas and distribute the ideas

Course introduction day (Today)

Supervisor-thesis team second meeting and start of work!

Deadline for submitting study plan with the supervisors acceptance (1st of December)



Supervisor - thesis team decided!

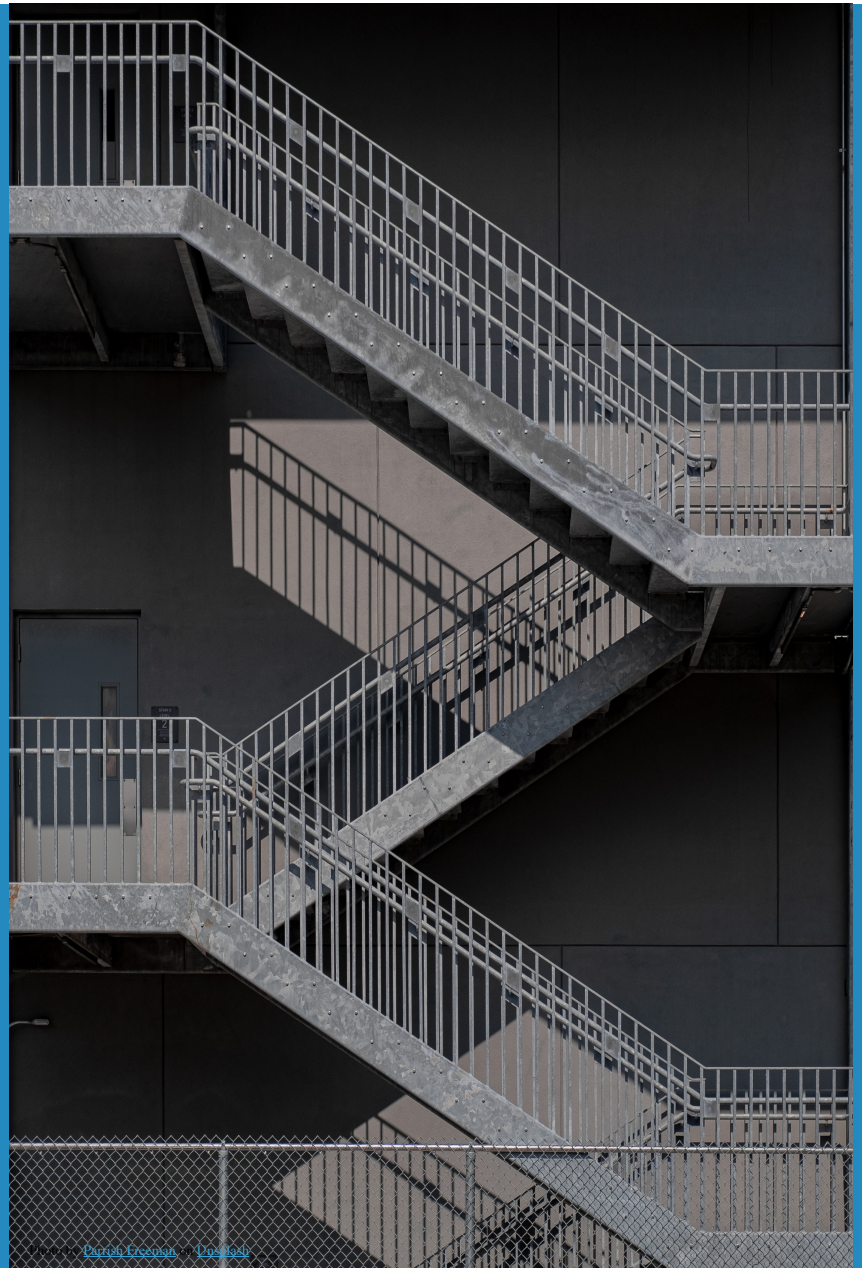
Establish connection with supervisor

Final version submitted

30 credits Monday week 51/**Monday week 21**

60 credits 15th of November/**15th of May**

Supervision sessions



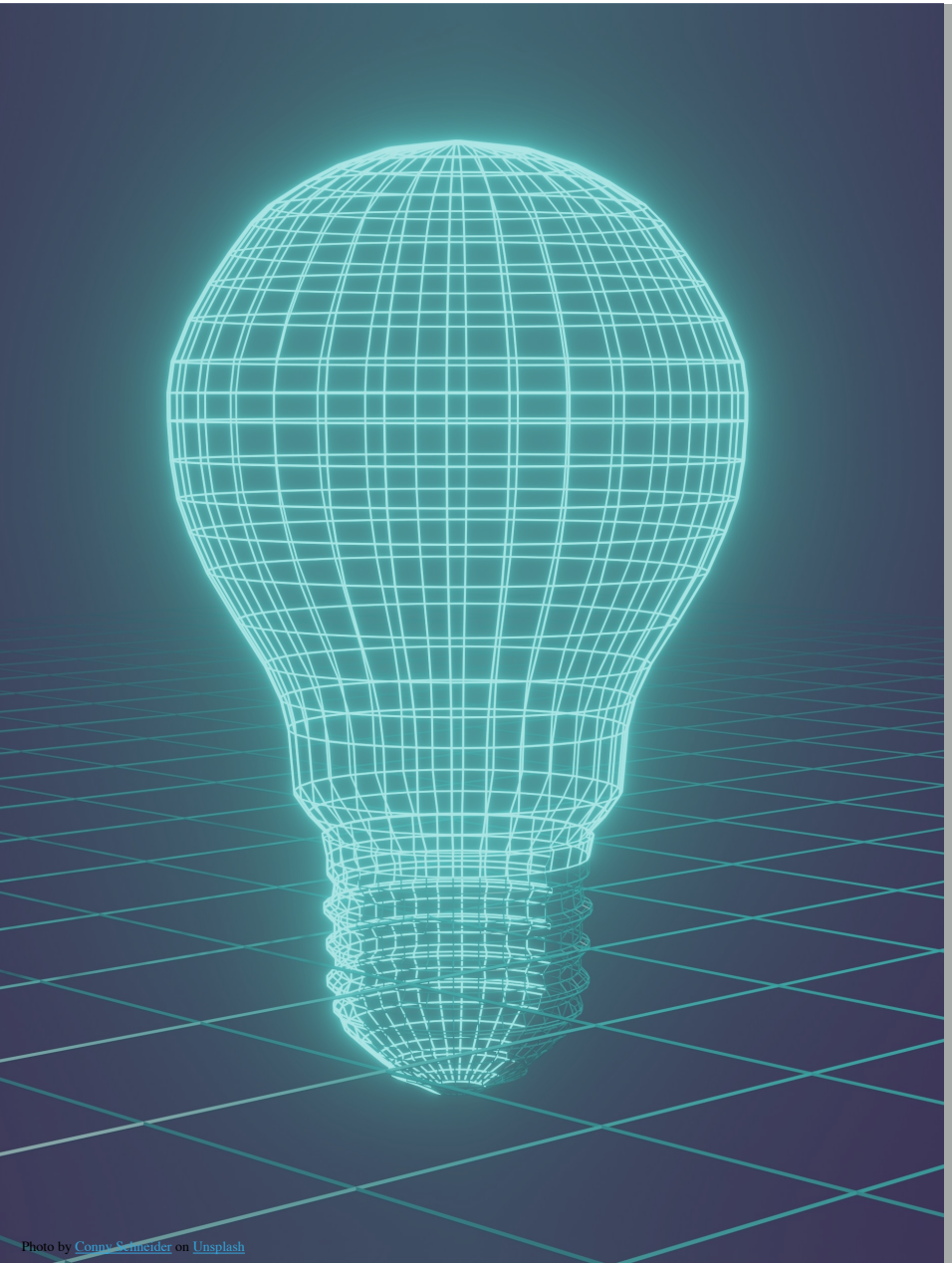
Mid-seminar

(If you want. Talk to supervisor)

Start working on the thesis

30 credits - 2027 January

60 credits - 2026 August



YOU WILL GAIN A DEEP UNDERSTANDING OF TECHNOLOGY, WHILE SIMULTANEOUSLY LEARNING HOW DIGITALISATION CHANGES BUSINESS MODELS, ORGANISATIONS AND SOCIETY.



Photo by Conny Schneider on Unsplash

WHAT WILL YOU DO?

PRODUCING AND DISSEMINATING NEW KNOWLEDGE ON DIGITAL TRANSFORMATIONS AND ITS CONSEQUENCES FOR INDIVIDUALS, ORGANIZATIONS, OR SOCIETIES.



DIGITAL ECONOMY AND LEADERSHIP EXPLORE THE INTERPLAY BETWEEN HIGH-TECH SOLUTIONS AND INNOVATION.

- PREFERABLY CARRIED OUT IN COLLABORATION WITH A COMPANY OR ORGANIZATION.
- AN INDEPENDENT RESEARCH WORK CARRIED OUT UNDER SUPERVISION
- WE SUGGEST THAT YOU WORK IN PAIRS



METHOD

IN4340 – You are guaranteed a spot

This course offers an introduction to engaged research methods, with a focus on the application of such methods to students' MSc thesis. The course begins with an introduction to the concept of engaged research, meant as a participatory form of research for studying complex real-world problems from the perspectives of key stakeholders. The course then offers a focus on different methods of engaged qualitative research, equipping students with the epistemological and methodological skills needed to complete MSc work.

30 CREDITS – STARTS IN JANUARY

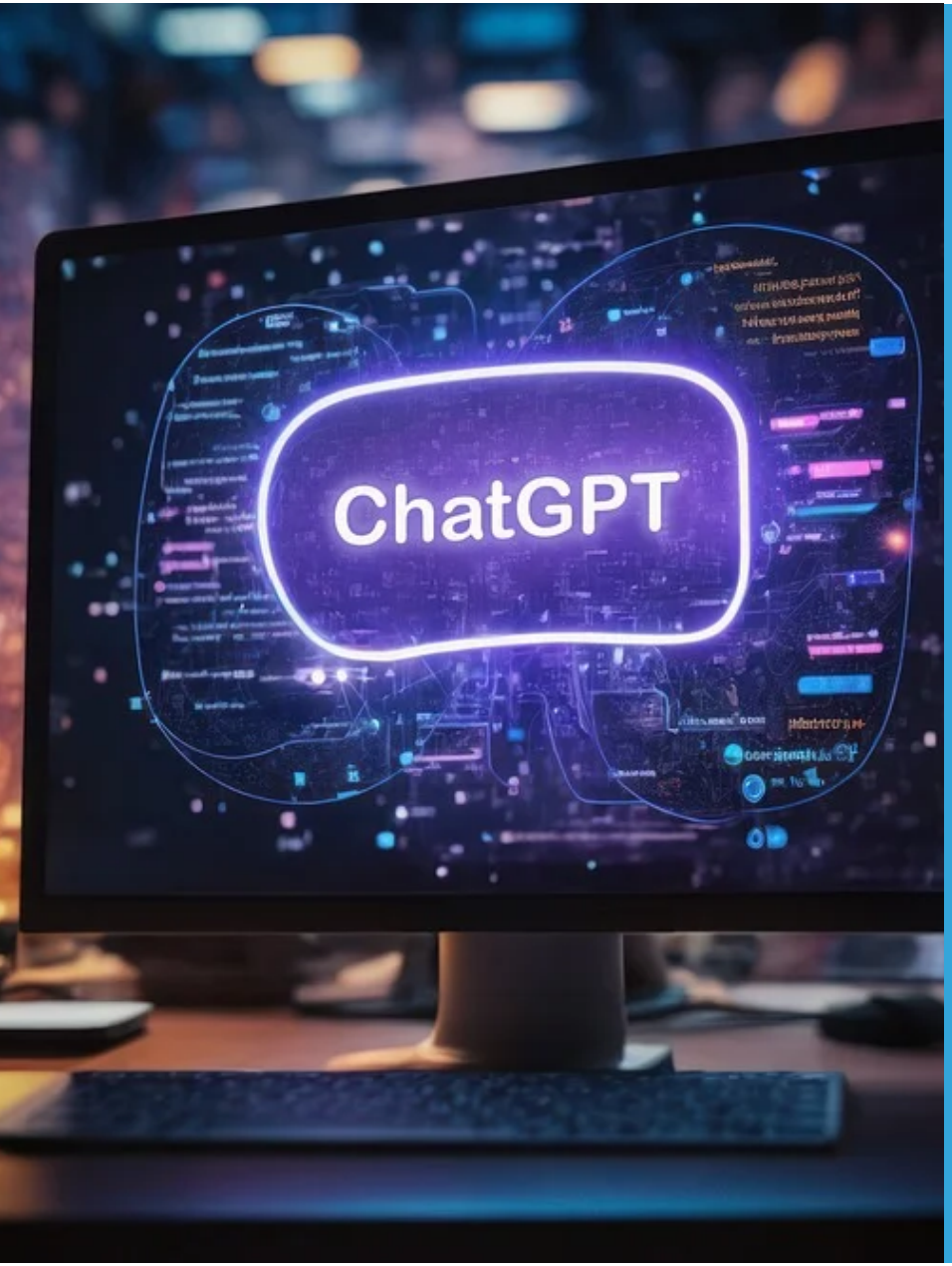
4th semester	Master's thesis	Master's thesis	Master's thesis
3rd semester	IN5210 – Information Systems	Elective master course	Elective master course
2nd semester	IN5160 - Digital leadership	IN5430 – IT and Management (continued)	Elective master course
1st semester	IN4150 - Digital ecosystems	IN4270 - Digital business	Elective master course
	10 ETCS credits	10 ETCS credits	10 ETCS credits

60 CREDITS – STARTS IN AUGUST

4. semester	Master's thesis	Master's thesis	Master's thesis
3. semester	Master's thesis	Master's thesis	Master's thesis
2. semester	IN5160 - Digital leadership	IN5430 – IT and Management (continued)	Elective master course
1. semester	IN4150 - Digital ecosystems	IN4270 - Digital business	IN5210 – Information Systems
	10 ECTS credits	10 ECTS credits	10 ECTS credits

BOTH SUBMIT THEIR STUDY PLAN 1ST OF DECEMBER


YOU HAVE REACHED THE TOP
PRESENT YOUR WORK IN JUNE
Photo by Joshua Earle on Unsplash



USAGE OF AI IN YOUR THESIS

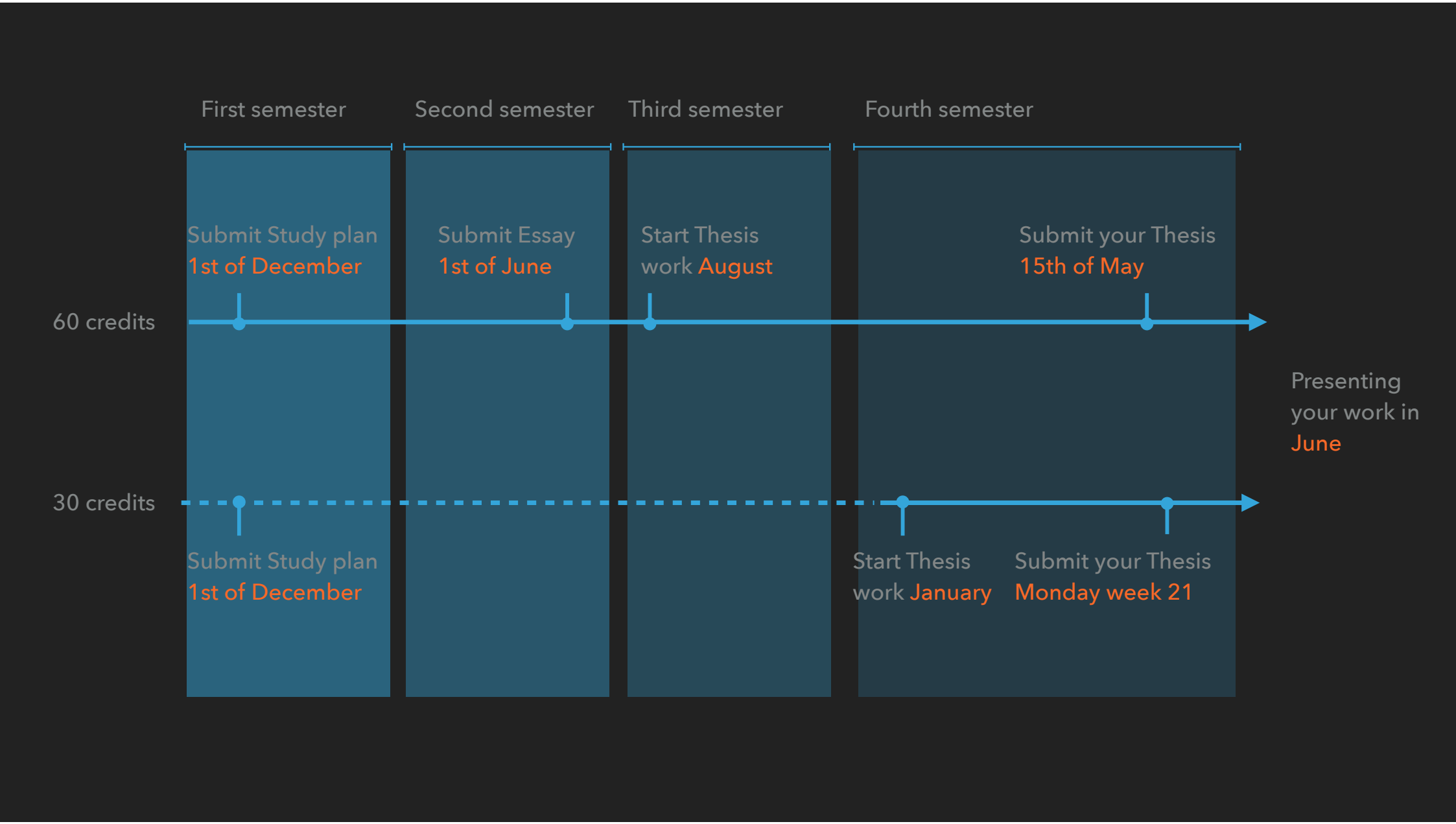
https://www.mn.uio.no/kurt/universitet/kunstig-intelligens/

EXAMINATION

PRESENTING THE MASTER'S THESIS PUBLICLY AT THE END OF THE SEMESTER.

FOLLOWING THE PRESENTATION IS AN ORAL EXAMINATION WITH INTERNAL AND EXTERNAL SENSORS.




First semester
Second semester
Third semester
Fourth semester
Submit Study plan
1st of December
Submit Essay
1st of June
Start Thesis
work August
Submit your Thesis
15th of May
60 credits
Presenting
your work in
June
30 credits
Submit Study plan
1st of December
Start Thesis
work January
Submit your Thesis
Monday week 21

WHAT ARE EXPECTED FROM STUDENTS

- Writing a master's thesis is an independent work where the students show that they have achieved the level of knowledge that a Master's degree represents.
- This means that the student(s) must independently prepare, plan, implement and report a scientific study.
- The student(s)'s tasks are to:
  - Independently run the thesis process.
  - Prepare for supervision and seminars in accordance with the instructions for each occasion.
  - Prepare questions to raise with the supervisor, and be the driving force in the conversation with the supervisor.
- When contacting the supervisor, clearly summarize which questions and concerns you want answered, and clearly summarize any written documentation that these questions concern (this means, for example, specifying which page(s) or paragraphs affected).
- Plan and clearly communicate the progress of the thesis process with the supervisor.
- Get in touch with the supervisor well in advance (whether it concerns booking supervision or questions).

BE PICKY WITH THE ORGANIZATION YOU COLLABORATE WITH

- Not a consultancy report, the thesis is a scientific text
- More difficult if organizations have many restrictions
- Make sure you have a sponsor



MID SEMINAR

- Dates will be decided and announced in due time
- Groups of 3 thesis present and discuss
- Supervisors attend

- All texts need to be distributed five workdays before the seminar



STRUCTURE FOR SEMINARS

- Everyone must have read all texts in advanced
- Everyone should comment on all texts

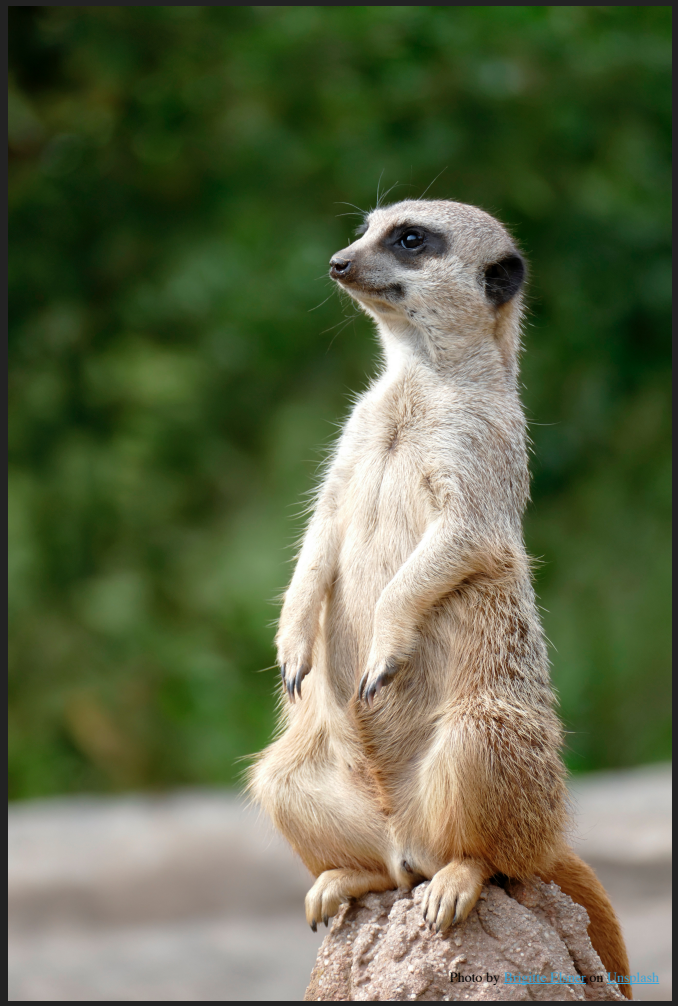
Presenter	Discussant
Thesis 1	Thesis 3
Thesis 2	Thesis 1
Thesis 3	Thesis 2

- 10 minute presenting
- 10 min feedback from discussant
- Feedback from supervisor
- Open discussion



SUPERVISORS AND SUPERVISION

- Supervisors supervise differently
- All supervisors are IS researchers
- Be prepared, be proactive (i.e. send questions and text in advance)
- It's YOUR thesis



WHAT TO EXPECT FROM THE SUPERVISOR

- Assist the student(s) in defining the research question and designing the study.
- Support the progression of the thesis process.
- **One** of the supervision sessions should be based on a close reading of the thesis before final submission.
- Having discussions with the student(s) about the scientific aspect of the study, such as the choice of theory, method, analysis, etc.
- Recommend the student not to submit the thesis when the work is considered insufficient
- Handle shorter questions via email



SPEEDPRESENTATIONS OF TOPICS BY SUPERVISORS

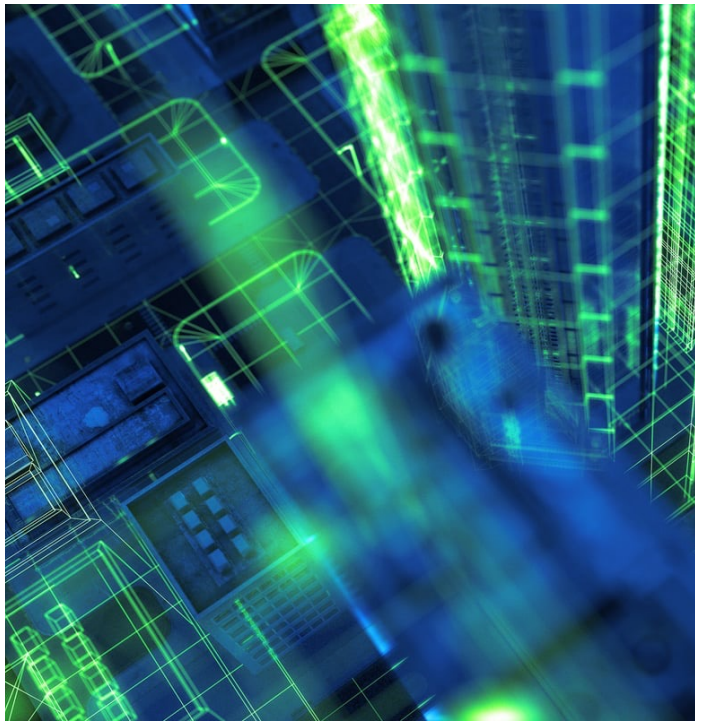
- Egil Øvrelid - IT architecture, Digital innovation
- Katja Hydle - Strategy, Digitalization
- Raissa Pershina - Platform ecosystems, Grand challenges
- Miria Grisot - Digitalization and Work
- Sundeep Sahay - Climate/Health technology and development
- Lena Hylving - Digital transformation, Ethics, Digital Innovation
- Margunn Aanestad - Data infrastructures
- Daniel Stedjan Svendsrud -



EGIL

Transformasjon av IT-Arkitektur

- Fokus 1: **Digital transformasjon:** Prosessen med å transformere fra fra monolitt til modulær arkitektur, og hvilke sentrale mekanismer som fasiliterer denne transformasjonen. Eksempler er API strategier, digitale tjenester, tettere samarbeid mellom IT og forretning, og agile arbeidsmåter (DevOps)
- Fokus 2: **Prosessinnovasjon**: Velge ut en bestemt verdikjede (feks payment eller innleggelse) og vise hvordan den endrer seg når den implementeres på ny plattform.
- Fokus 3: **Governance**: Hvilke styringsmekanismer blir sentrale i å binde sammen arkitektur og forretning/samfunnsoppdrag i heldigitaliserte infrastrukturer.



Katja: B2B plattform økosystemer og digital transformasjon

Organisering:

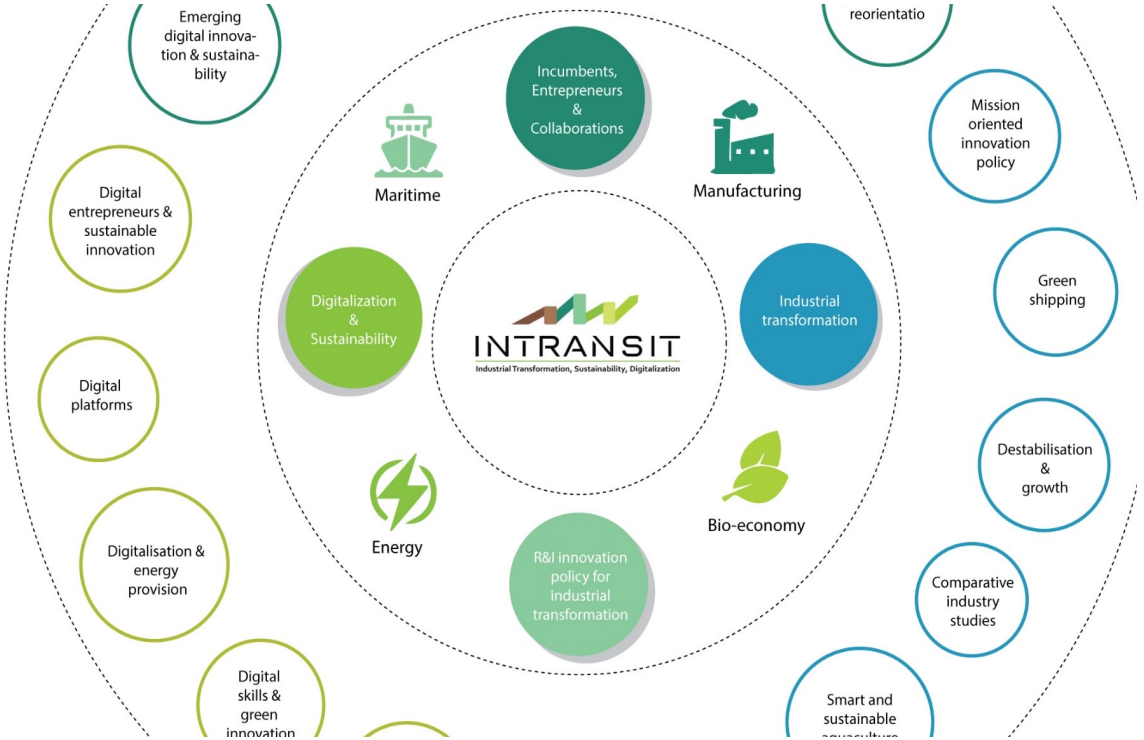
- Hvordan påvirker digital transformasjon organisering, organisasjoner og økosystemer?
- Hvordan lede/orkestrere ulike B2B plattform økosystemer?

Plattformer:

- Hvordan fasilitere økosystem?
- Hvordan bidra til bærekraft?

Praksisteori:

- Digital transformasjon og praksisteori



Raissa

- Research interests: Platform ecosystems, generative AI, grand challenges.
- Possible project to join: Wikimedia foundation and its digital ecosystem:
  - Governance mechanisms and strategies in the context of platforms “for good”.
  - AI in platform governance.





Miria Grisot – master thesis topics

I am interested in supervising theses in the healthcare domain (I am currently conducting research in healthcare), but I am also open to other cases.

I prefer to supervise long theses.

1. Digitalization and Data work

- How do organizations become data driven?
- Which novel competences and roles emerge in digitalization processes?
- Which forms of data work emerge in organizations?
  - Thesis topic1: interdisciplinary competence in the digitalization of healthcare.

2. Adoption and use of AI

- What are the concerns, strategies, challenges to AI adoption?
- How is AI introduced into organizations?
- What are the consequences of using AI in organizations?

3. Digital Infrastructures design and development

- Strategies for the design and development of digital infrastructures.
- User participation in the design of large-scale digital infrastructures.
- How to deal with the installed base in digital infrastructures.
- The relation between technical and organizational development.
  - Thesis topic2: scaling of digital infrastructure in healthcare.
  - Thesis topic3: strategies for data infrastructure in healthcare.

MY EMPIRICAL CASES:

Oslo Kommune

Continuous design, implementation and scaling of a digital infrastructure for patient handover in primary care

Hospital

Implementation and use of AI

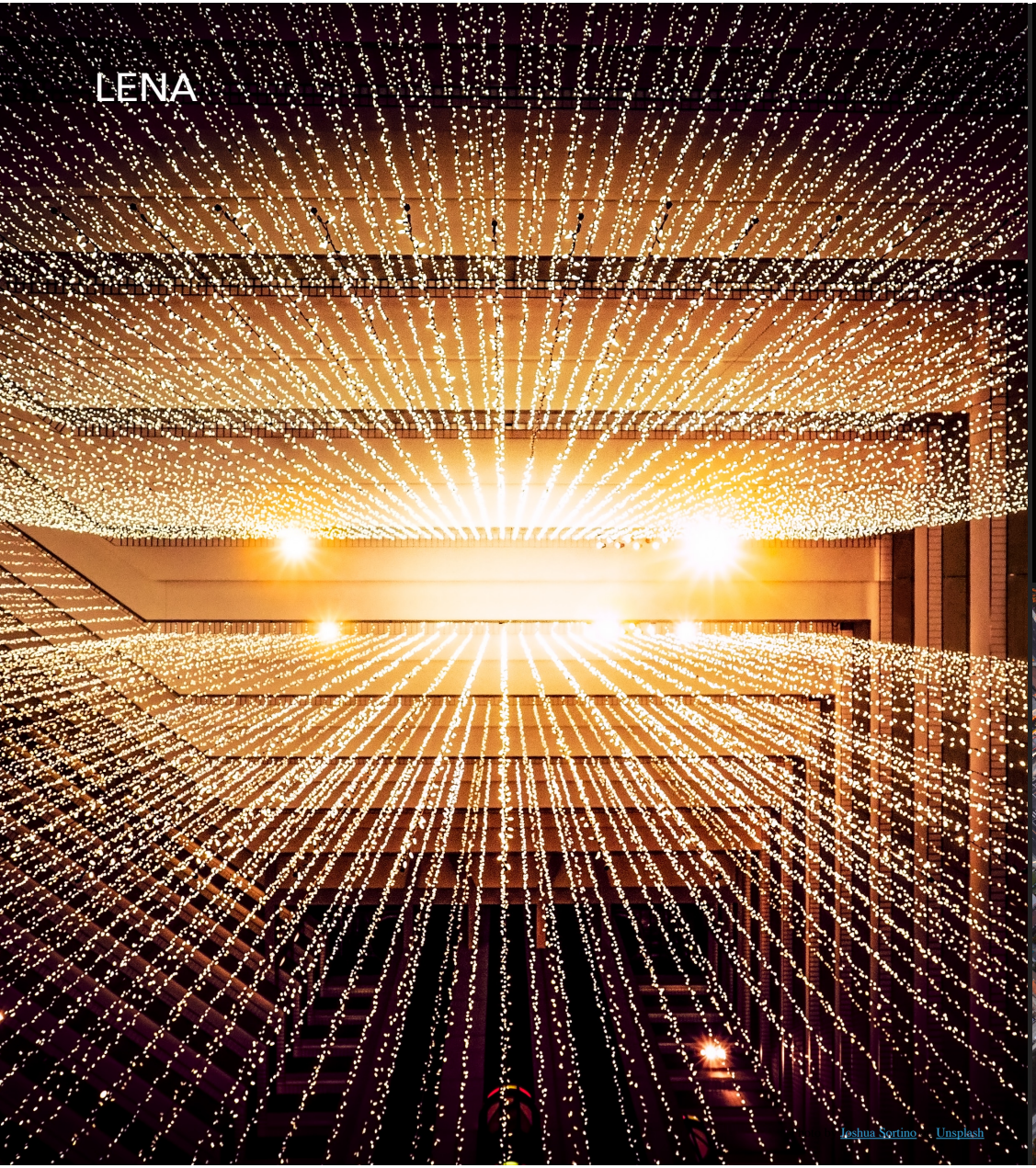
Margunn Aanestad - Establishing sector-wide data sharing platforms

Sharing of data via dedicated data platforms has many benefits but is also difficult to achieve. Especially the sharing of potentially sensitive or valuable data requires a suitable design of data management mechanisms.

I can supervise studies of these issues related to **data sharing platforms in the public sector** in general, and below I also propose some possible topics focused on the food sector.

The topics and cases can be designed to fit either short (30 ECTS) or long theses (60 ECTS), for single students or a pair. It is probably difficult to do data collection without knowledge of Norwegian.

LENA



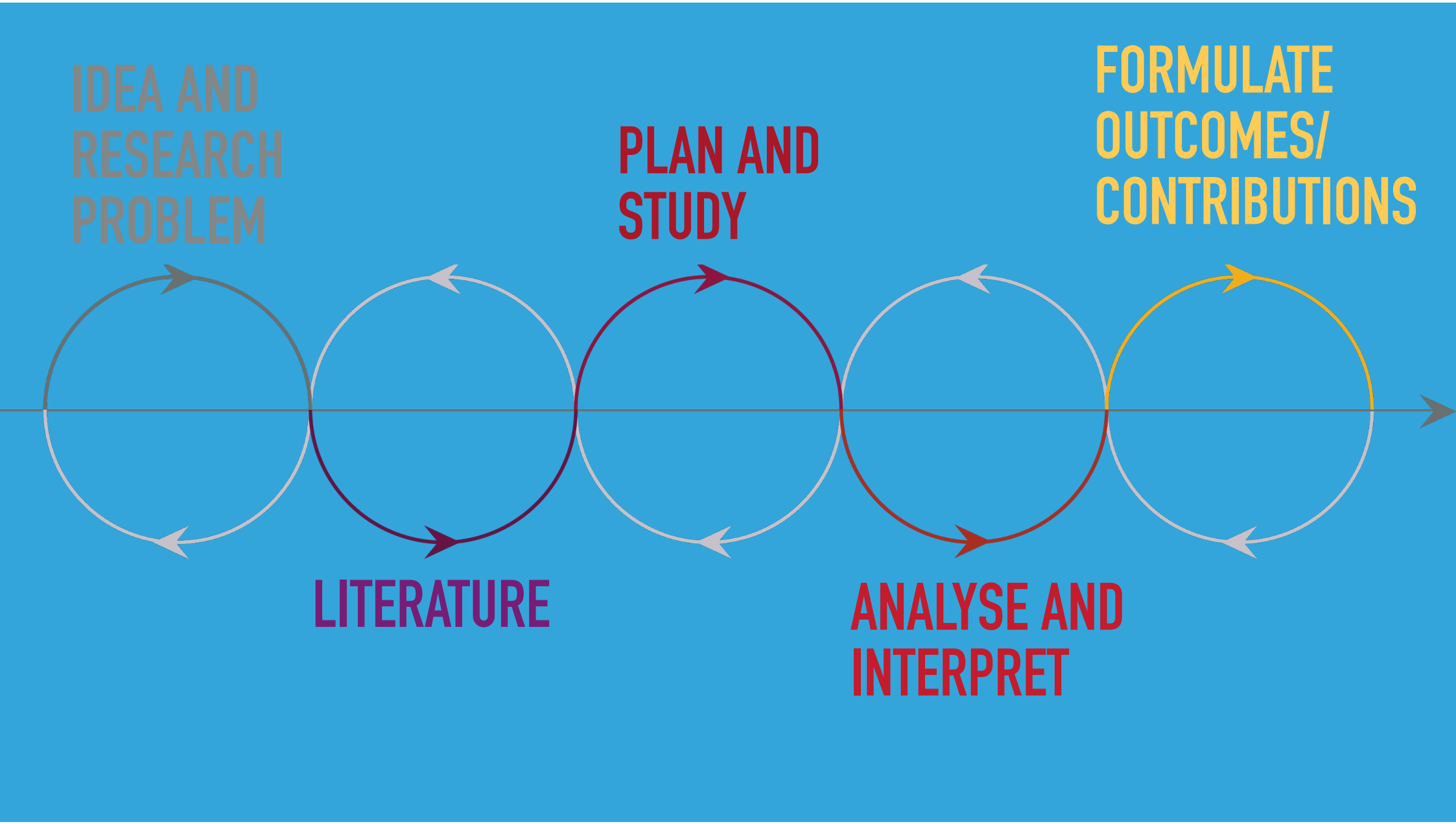
Joshua Sortino on Unsplash



Photo by Petri Heiskanen on Unsplash



Photo by Alexis Nevozhai on Unsplash


IDEA AND RESEARCH PROBLEM
PLAN AND STUDY
FORMULATE OUTCOMES/ CONTRIBUTIONS
LITERATURE
ANALYSE AND INTERPRET

SOME GENERAL TIPS

- Get started early - it takes longer than you think.
- Plan plenty of time to collect data - recruitment takes time.
  - Take height in your planning, and expect some to cancel.
- Don't make it too complex - keep it as simple as possible (it's hard enough anyway).
- Listen to and reflect upon the feedback you receive - it is not personal, and all supervisors/ fellow students want to help you.
- Take ownership of your essay process.
- Work iteratively
- Read other thesises



TEXT

IN ADDITION

- If you feel you need someone to talk to - there is help to get
- If you feel anxious about the process (writing, contacting organizations, interviews, presenting your thesis in the end) let your supervisor know so that we can help you get in contact with correct people who can help you



