Aalto University

INTRODUCTION TO PERSONAL LEARNING PORTFOLIO

WAT, SPT & MEC

Marko Keskinen, WAT

Thursday 8.9.2016 at 12.30-14, Tu1 (Tuas)

AGENDA FOR TODAY

1) WHAT: Portfolio (Marko & co) – 5 min

2) WHY: Student experiences (Ville) – 15 min

3) HOW: Portfolio process (Marko & co) – 10 min

4) …AND THEN : Group discussion (All) – 30 min

   → *Pros and cons of the portfolio process*
   → *How the portfolio process works in our group?*
   → *Open questions, innovative ideas!*

5) AND SO: Wrap-up + Q&A (Marko & co) – 10 min

1) WHAT?

Portfolio basics

Who has already done a personal portfolio?

PORTFOLIO?

- A portfolio is a **collection of student work** created for the purpose of **demonstrating their learning** or showcasing their best work.

  → Portfolios main aim is summative assessment + student-centered, deep & reflective learning

- There are various types of portfolios:
  - **Growth / development / learning portfolios** show student progress over time
  - **Presentation portfolios** show student's best work
  - **Evaluation portfolios** record overall student achievement for grading or evaluate how well a student has met established course goals

https://facultyinnovate.utexas.edu/teaching/learning/critical-thinking/metacognition/learning-portfolio

POTENTIAL BENEFITS

1) Captures deep learning throughout the Master's Programme

→ Focuses on knowledge and skills learned, not on credits

2) Connects the learning process to a product (portfolio)

→ Allows for integration of the course experience

3) Institutionalises norms of collaboration, reflection & discussion

→ Conversations about the portfolio process can help students connect more meaningfully with the teacher and one another

4) Serves as a visual proof of learning

5) Puts responsibility on the learner

→ Each student must by necessity take ownership of the learning process that the portfolio documents

(Modified from FIC at the University of Texas at Austin, based on Shulman 1998; http://bit.ly/2ccqHQh)

PERSONAL LEARNING PORTFOLIO PLP

Summative assessment of your learning process

→ *Encouraging you to assess and reflect your learning process throughout your studies*

→ *Based on your Personal Study Plan (eHOPS) as well as your existing expertise*

…in a visually powerful way

→ *Documentation of your knowledge and skills*

→ *Portfolio can be used when applying jobs; complements CV*

…together with your group and mentor

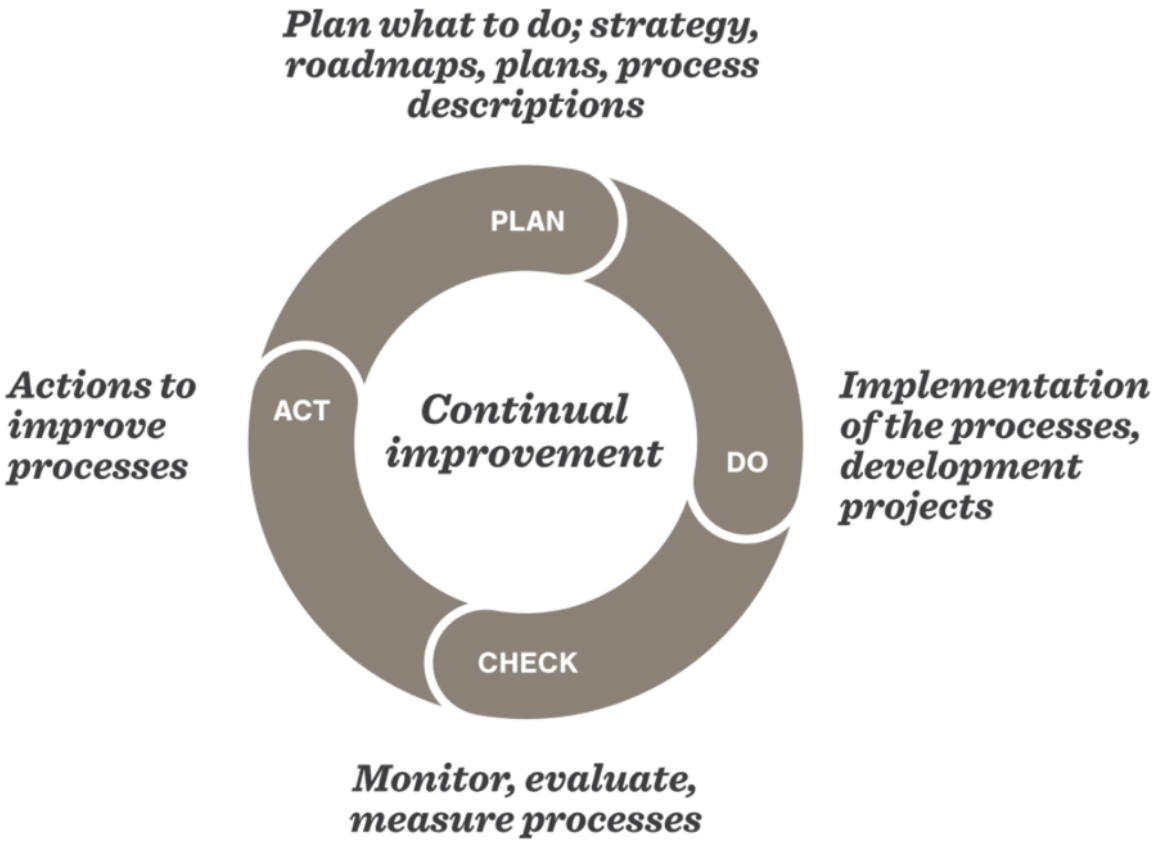
→ *Portfolio process builds on series of Group Meetings and Mentor Meetings: portfolio = 'the object' facilitating discussion*

PLP = PERSONAL PDCA

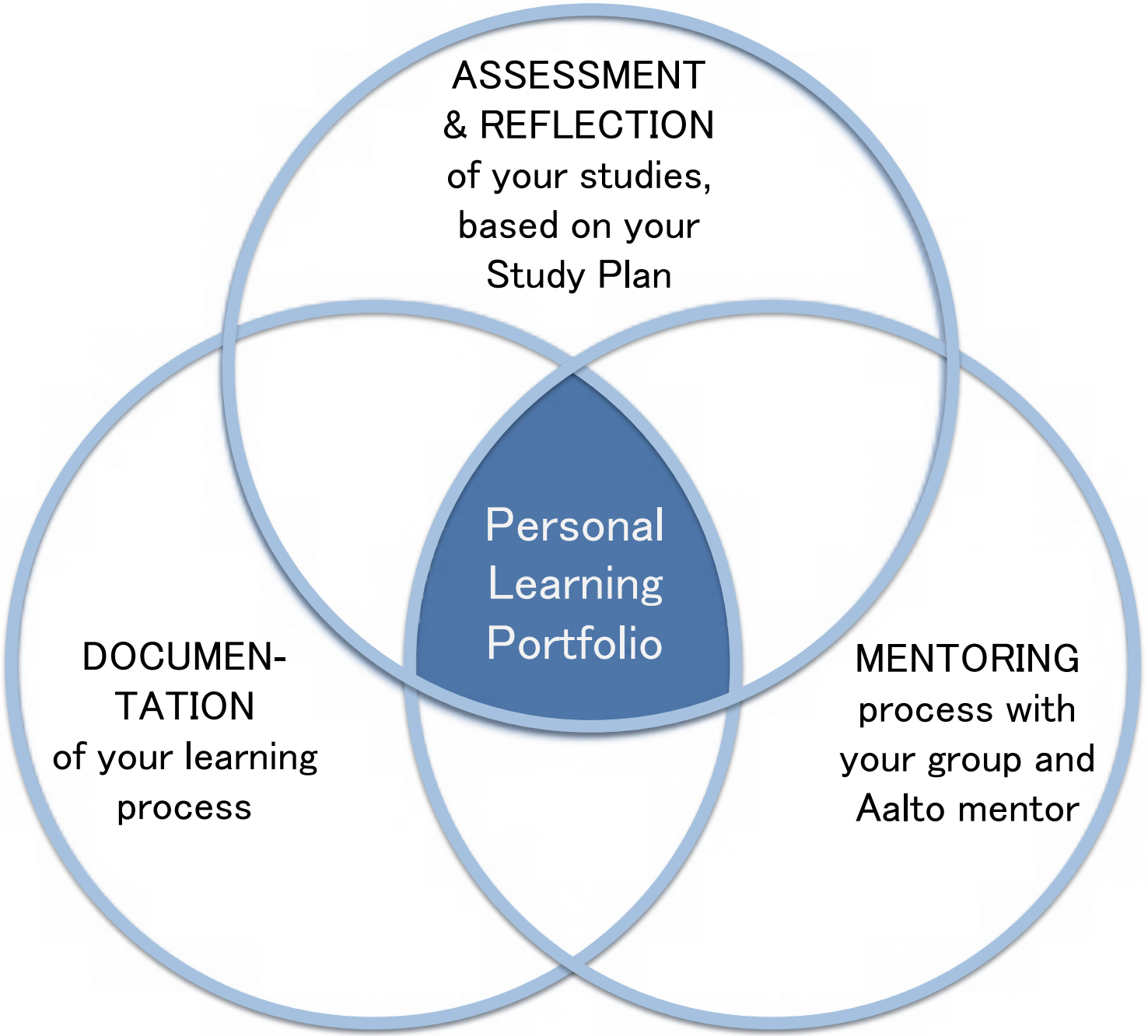
Portfolio follows the principles of **Plan-Do-Check-Act** cycle that forms the core of Aalto's quality management

→ It is about 'everyday activity with the underlying idea of continuous improvement'

→ Portfolio helps
1) you to check and improve the quality of your studies, and
2) gives us feedback about the quality of our teaching



Aalto Handbook 3.0



Adapted from John Zubizarreta: The Learning Portfolio - Reflective Practice for Improving Student Learning

2) WHY?

Experiences from portfolio process by Ville-Kukko Liedes

Another example:
http://www.bijan-bmo.com

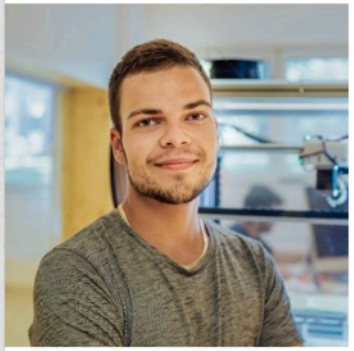
My Learning Portfolio

Round 1: LinkedIn

→*Not really suitable platform for portfolio*

→*Better for documenting your current level of skills*

→ *On the other hand, now I have a LinkedIn account!*



Ville Kukko-Liedes

1st

Research Assistant at Aalto Design Factory

Helsinki Area, Finland | Mechanical or Industrial Engineering

Previous MacGREGOR (FIN) Oy
Education Aalto-yliopisto

Send a message

83 connections

https://fi.linkedin.com/in/ville-kukko-liedes-29111887

Background

Summary

Email: ville.kukko-liedes at aalto.fi
Mob: +358 40 764 6050

Engineer at heart with passion for improving design and functionality on products.

Specialties: mechanical design, rapid manufacturing in prototyping, embedded systems prototyping

CV in English

People Also Viewed

Krista Kuuttiniemi
Sales Coordinator at aTalent Recruiting

Markku Palmu
Free for new challenges

Timo Holländer
Product Designer at engineer office

Jari Pyrä
Looking for new opportunities

Juhani Muhonen
Searching for new opportunities.

Miika Savolainen
Summer Trainee at Meritaito Oy

Tomi Korvela
Giant Leap Intern at Vaisala

Tuomo Kuusi
Manager, Structural dynamics at FS Dynamics Oy Ab

Teemu Harju
Mechanical Engineer, Mechanics Design, RD Engineer // Looking for new opportunities

Mika Tarvonen
Mechanical Design Engineer at Perkin-Elmer

My Learning Portfolio

Round 2: Blog

→ *Easy to use*

→*Natural for incremental documentation*

→*Not visually pleasing*

→*Easily has an unprofessional vibe*

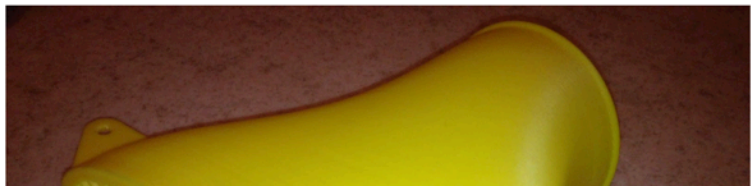
Product development from the ground up

Wednesday, May 21, 2014

Car intake scoop with 3D printing

In this post I go through the steps of designing a 3D printed prototype of a plastic product.

The project I am covering is a cold air intake scoop for a car that sees some track days. The scoop mounts under the front fender and connects to a flexible hose that runs up to the engine compartment. I have made one before for my car, but recently I was asked to sell one. This was also a good opportunity to document the steps of developing a 3D printed end product.



Passion for making things

villekl

View my complete profile

Blog Archive

▼ 2014 (4)

▼ May (2)

Car intake scoop with 3D printing

Colorize - Electronic game in an afternoon

▼ January (2)

Shrinket, Arduino compatible ATtiny85 development ...

Electronic boost controller

My Learning Portfolio

Round 3: The PDF..

→*Where to store it, how to distribute it?*

→*How to make sure it is kept up to date?*

→*Visual skills required to create interesting layout*

→*I never got past these thoughts to even create the document*

→*BUT many of my friends rock an awesome PDF portfolio!*

My Learning Portfolio

Final Round: Personal website

→*Easy to make visually pleasing websites nowadays*

→*Convenient to include link in CV, business card…*

→*Availability for anyone motivates keeping the site updated*

→*So does the fact it is not free to get your own domain...*

About Ville Kukko-Liedes

I am a masters student at Aalto University School of Engineering with main emphasis of studies in product development, which I started with the Aaltonaut minor programme. At Aalto Design Factory I run a 3D printing shop that supports in house product development courses, start-ups, and research projects. From home I run a one man rapid prototyping company *VaiheProto*.

Expertise

As a maker, I have gathered hands-on skills in electronics, 3D printing, prototyping and mechanical design. These skills I have deepened in my engineering studies and applied in the Aaltonaut courses, which are detailed in the Projects page. The following acts as a summary with links to related projects.

link

My Learning Portfolio

What did I gain:

→ *Experience in creating a website; good project on its own*

→ *Skills on conceus reflection:*

- *What did I do?*
- *Why did I do it?*
- *How did it go?*
- *What I would change?*
- *What did I learn?*
- *How can I use these learnings?*

3) HOW?

Portfolio process

PORTFOLIO FORMAT

- The format for the portfolio is free, and it can also change over time

  → Can be a personal blog, visual learning diary etc.

  → Final product can also be e.g. business or research plan

- Most likely it will be easiest to start with a written document, and then see how it evolves

- Main point is to answer the portfolio questions

  → Questions presented next

  → Two Annexes: Meeting notes + Study Plan

PORTFOLIO QUESTIONS

- Portfolio must answer in one way or another following questions

Main question: **WHAT ARE MY CURRENT KNOWLEDGE & SKILLS?**

→ What is my current level of expertise in my field?

What have I learned so far during my studies (in & out Aalto)?

Looking forward question:
WHERE DO I WANT TO GO + HOW DO I GET THERE?

→ What I want to achieve during my studies?
What is my plan for my future career?

→ What kind of knowledge and skills I still need?
What kind of courses and activities will provide those?

GENERAL PROCESS

1) Students divided into Portfolio Groups

→ The group stays the same during the entire Programme, and has the same Aalto mentor (Professor, Lecturer etc.)

2) Portfolio updated after each period during first year, and three times during the second year

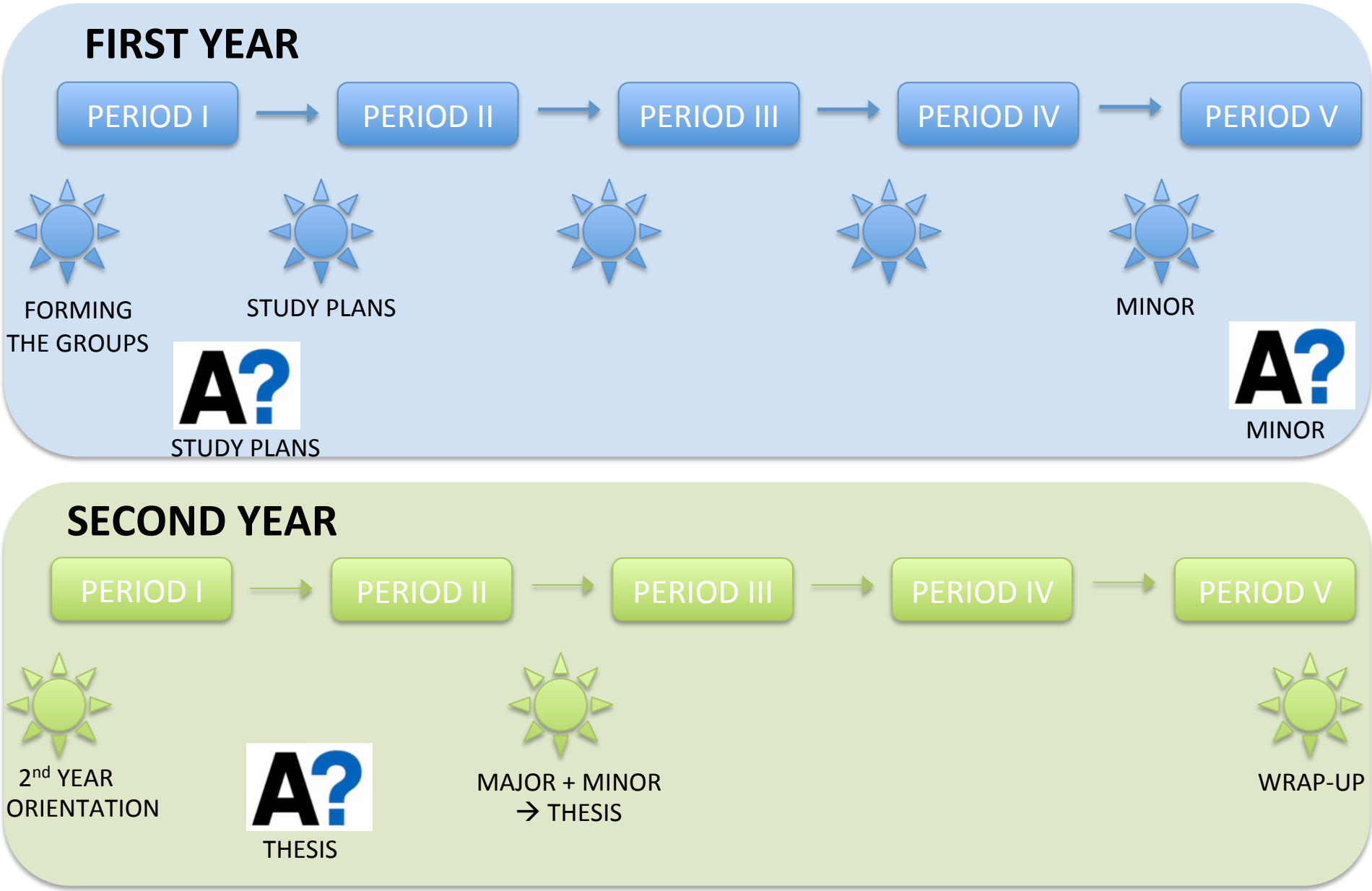
→ Student groups meet after each period + twice a year with their **Aalto mentor** i.e. Academic advisor

→ Meetings with mentor can be more often, if needed

→ Portfolio submitted before each meeting; documents progress & frames the discussion

3) Final Portfolio submitted at the end of the studies

→ No grade, but is required to finalise the studies


FIRST YEAR
PERIOD I
PERIOD II
PERIOD III
PERIOD IV
PERIOD V
FORMING THE GROUPS
STUDY PLANS
MINOR
STUDY PLANS
MINOR
SECOND YEAR
PERIOD I
PERIOD II
PERIOD III
PERIOD IV
PERIOD V
2nd YEAR ORIENTATION
THESIS
MAJOR + MINOR → THESIS
WRAP-UP
Meeting with peer group
Meeting with academic mentor

Questions?

Comments?

4) AND THEN?

Your time to tell your views!

GROUP DISCUSSION

What kind of benefits I can get from the portfolio process?
What are its possible challenges?

WAT + SPT: How the portfolio process works in our group?

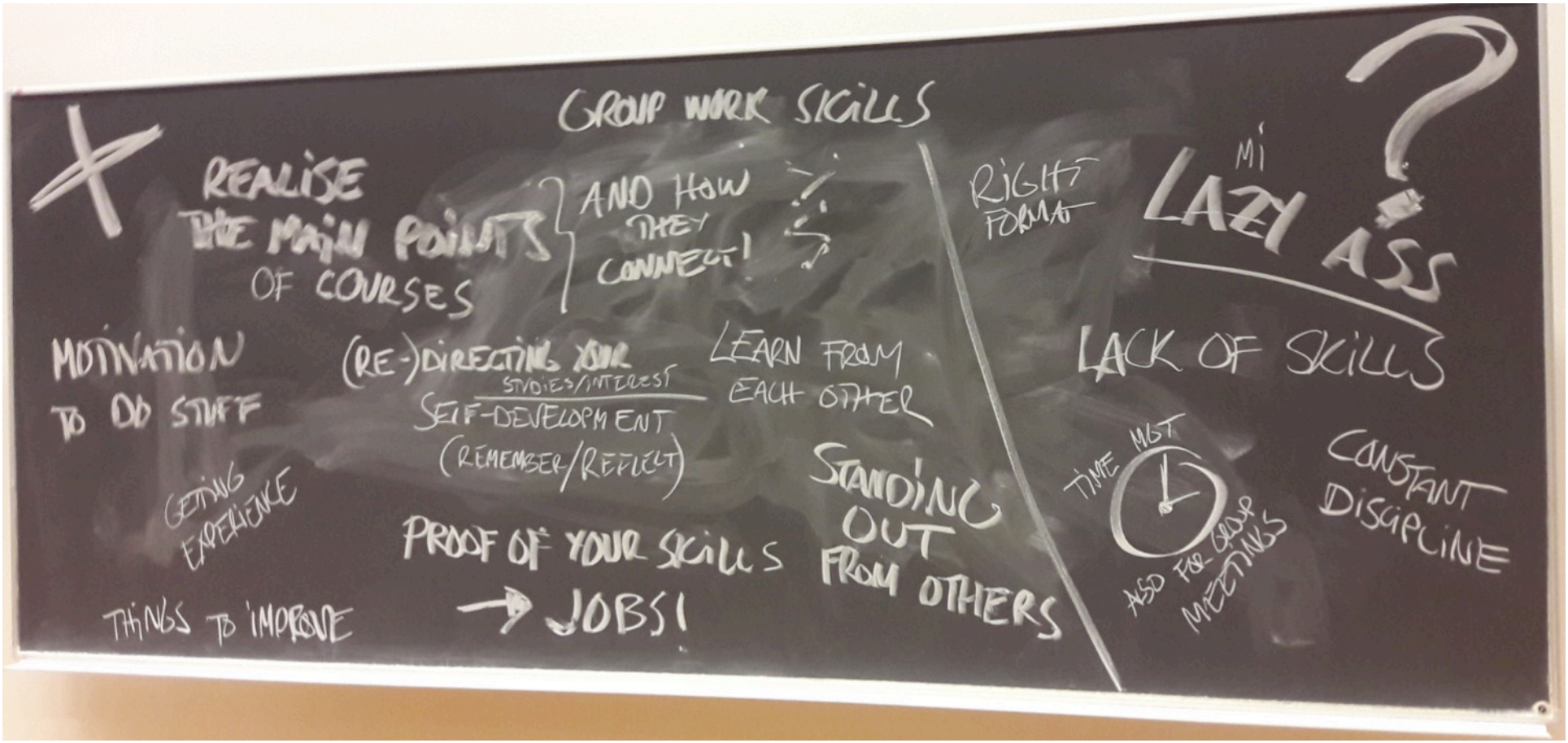
→ Already agree on general rules for your group ('How we work')

Open questions, innovative ideas!

GROUP DISCUSSION

Key points from the groups

→ Benefits on left, challenges on right



5) AND SO?

Wrap-up
& way forward

NOTE: EVERY PROGRAMME IS BIT DIFFERENT

Check your own programme for details of your portfolio process!

→ MEC: template & HOPS already after first week: stay tuned!

→ SPT: portfolio process is part of academic advising

→ WAT: portfolio process is part of WAT-E1010 course, instructions in MyCourses

Thank you!

Questions?

Comments?