

GIS-E4030 GIS Development L

Project kickoff session

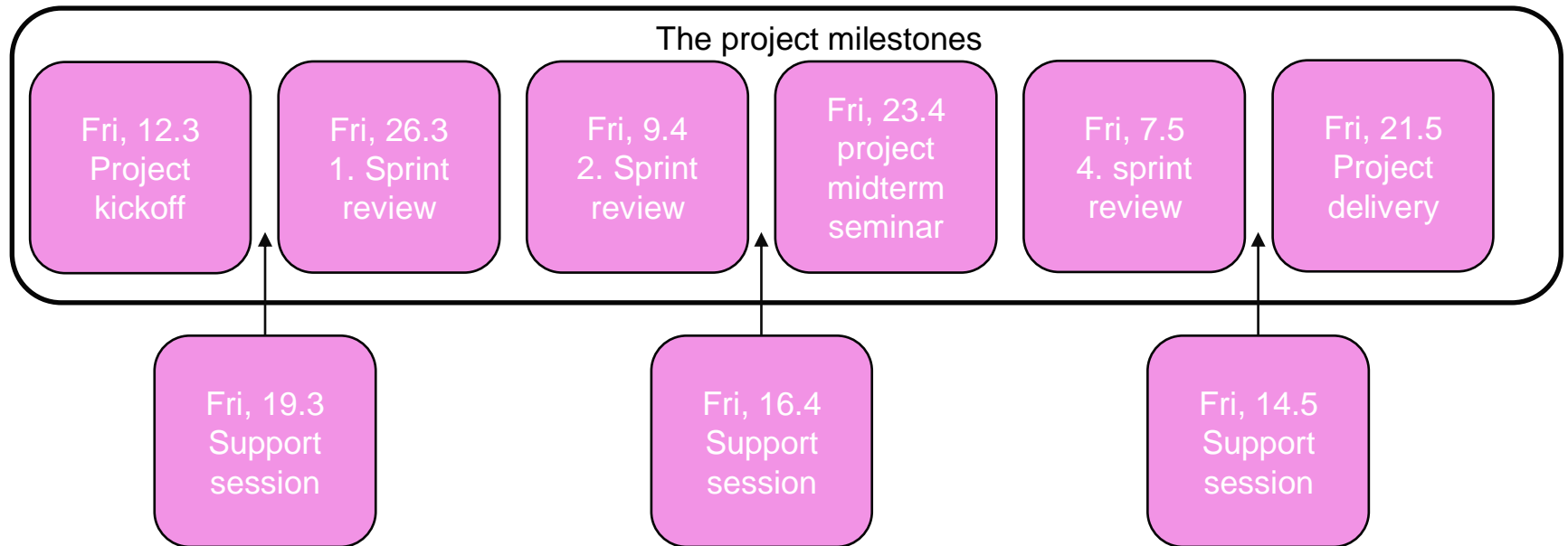


Aalto-yliopisto
Insinööritieteiden
korkeakoulu

Jussi Nikander

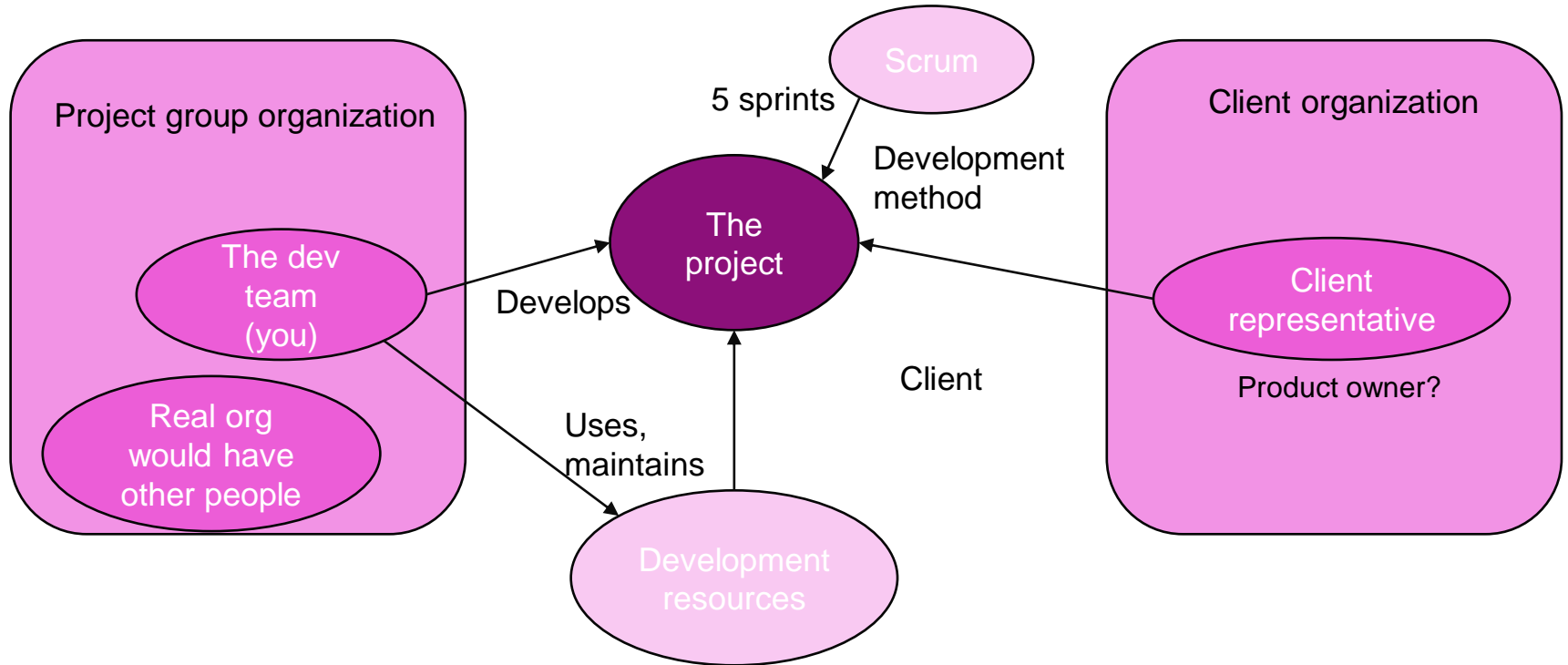
12.3.2021

The project timeline



April and May support sessions are optional

The project framing



The project framing (cont.)

- The number of hours per project group participant is 100h
- Thus, a 4-person project has a time budget of 400 hours
 $400 / 5 = 80\text{h}$ per sprint
 - 20h per person
 - 10h per week per person
 - Remember, this is **NOT** exact
- This corresponds to approximately 2,67 person-months of work
 - One person-month is often 150-160 hours of work
- **Keep your work within that time budget**
 - In working life that'd be the amount of work you could bill for the project – going over is typically a bad idea

The work required in the project: course point of view

- Finish five Scrum sprints
- Participate in the mid-term seminar
- Finalize the project (such as it is after the sprints), **present the results** to the client, and **deliver a report** and the project
- Keep track of the hours you've done

Add working times

View worktimes **Add a worktime** View announcements

Day view Date period Preselected projects view Week view Month view

Person **jnikande@aalto.fi**

Month April Previous Next Year 2019 Search

Project selection Add

Day	Sum	901000 Bachelor Degree	901000 Common Duties / Yhteiset	901000 Master Degree Education /	901000 Non-project research /	901000 99071 Koulutukseen osallistuminen	980005 Sitak / Sitak	980005 Vuosiloma / Annual
Mon 1	0							
Tue 2	0							
Wed 3	0							
Thu 4	0							
Fri 5	0							
Sat 6	0							
Sun 7	0							
Mon 8	0							
Tue 9	0							
Wed 10	0							
Thu 11	0							

About time-keeping

- **You have an excel you need to use to keep track of project-related hours**
 - It has some flimsy covering of real time sheet used in working life (although those hopefully are not excel)
- **In essence, all work you do on the course, except the learning sessions on Thursdays or doing the pre-assignments**
- **Important is to consider all work whether it is **billable** for the project**
 - All direct work on the project topic
 - All work that directly supports the work on the project (e.g. setting up environments, reading source code, etc.)
 - Other things start to be fuzzier – consider whether the customer would be willing to pay for it
 - Learning new technologies is typically not covered, for example

Project topic

The project topic is modeling **COVID-19 transmission in a grocery store setting with Agent-Based Models** (see <https://arxiv.org/abs/2010.07868> and <https://github.com/fabianying/covid19-supermarket-abm>). The group will start with existing ABM implementation (in Python). Their initial task is to implement an existing grocery store (A Bloc K-Market) on top of the existing implementation and be able to run the model with that data.

After the model is running, there are at least two further development paths that should be followed. First, a simple web service should be established, where the model (either the original model with the synthetic store, or the A Bloc K-Market store) can be run with different parameters and the results will be reported to the user. Second, the model should be further developed to take into account, for example, rush hours, store staff, etc.

Project topic

The project topic is creating a **"view from a window" -service for Helsinki**. Helsinki city has created a freely available 3d city models that cover the whole city (see <https://www.hel.fi/helsinki/en/administration/information/general/3d>). Using this model, it is possible to create a simulated view from a window from practically every window in every house in Helsinki. The view would be similar to what could be seen from the actual window.

The initial task in this project would be create method for creating a simulated window view for a given address on a given floor, and to a given direction. Thus, the parameters would not actually be for a specific window, but for a more generic but "close enough" simulation of such.

Project backlog

- The project backlog has been posted to the appropriate Teams channel yesterday
- The project backlog is the master list of what to do in the project
 - Thus, in addition to you, I will also need to be able to view it during the project
 - Take this into account in your work
- We'll use the rest of the session to plan what you need to do during the first sprint
 - In essence taking elements from the project backlog and creating a sprint backlog
 - **How** to do the work is something each group needs to handle by themselves

The project from hereon

- **There will be an obligatory support session on next Friday (March 19th)**
 - You will have a chance for further support sessions on April 16th and May 14th
- **The first sprint review will be held on the Friday after that (March 26th)**
- **Sprint reviews are obligatory, and I will be present in them all**
- **On Friday, April 23rd, we will have a project midterm seminar**
- **However, from hereon you will be in charge**
 - I will help upon request
 - I will bring items into discussion if I feel it to be prudent
 - Honesty is the key – I cannot help you if you don't tell me about your problems
 - Remember that the project outcome is of secondary importance for grading