

Roadmap 2020-2024



Updated 11.1.2021 - moved history with "what has been done" to another page, and 12.1. updates in general

Teacher needs of technology for their teaching and needs for support

	2021: support model development, collaboration at SCI and Aalto level	2022: follow-up analysis on situation; iteration of data collecting, goals and actions	2023; reaching goals	2024; setting new goals
CS department	<ul style="list-style-type: none"> EDIT together with CS IT provides <ul style="list-style-type: none"> new faculty member onboarding for educational technology TA onboarding for A+ and JupyterHub (was 8.1.2021) regular A+ training available ("training calendar") for teachers, TA:s and summer interns online support via Daily Garage (?), email (RT) and chat other online training based on needs! collect feedback on the Zulip chat pilot <i>postponed from autumn 2020</i>: teacher interviews for collecting use cases for development projects (at least for course grading process!) <i>maybe with SCI or with LES&ITS</i> 			status <ul style="list-style-type: none"> research-based teaching and learning methods teacher satisfaction rate (set goal) on the available technology for their teaching
together at SCI and Aalto levels	<ul style="list-style-type: none"> follow-up survey one year after corona start, ca April-May <ul style="list-style-type: none"> <i>optional: Aalto-level participation in national survey on use of technologies in teaching*</i> collaboration with LES and Aalto-IT based on autumn experiences and feedback <ul style="list-style-type: none"> webinars on technologies used in teaching spring 2021 			

Technology support for teaching and learning in courses

- support for producing online course material and assignments
- support for formative assessment: automatic assessment of assignment submissions and instant feedback for students
- support for summative assessment
- support for effective mass courses

	2021 spring: A+ and JH development for short-term critical needs, setting A+ long-time goals	2021 autumn: A+ and JH development for short-term and long-term goals	2022: follow-up analysis on situation; iteration of data collecting, goals and actions	2023; reaching goals	2024; setting new goals
Online learning environments: A+ and JupyterHub	<ul style="list-style-type: none"> A+ and JupyterHub in production A+ development based on Apl us roadmap A+ LTI development (to replace Astra in MyCourses /Moodle) A+ future direction decisions (architect): project plan and setting goals, also with Helsinki Preparations for Sisu: <ul style="list-style-type: none"> A+ API development collaboration starts with Helsinki and continues with Tampere 	<ul style="list-style-type: none"> A+ future: development based on decisions with Helsinki and Tampere JupyterHub: implementation of grading interface to A+ 	goals: <ul style="list-style-type: none"> joint CS-LMS development with other universities based on in-house needs JupyterHub (or other server resources) as a general service for as well teaching as research needs (maintenance and support model still open) 		status <ul style="list-style-type: none"> Joint LMS for CS needs with other Finnish universities development model with is in harmony with national level decisions and needs local resources for development, maintenance and support based on needs, in collaboration with CS department, Aalto-IT and LES scalable solutions to support massive courses
Summative assessment / exams	<ul style="list-style-type: none"> Development of A+ exams in Exam studios, based on needs online and Exam studio exams based on remote teaching needs pilots based on teacher needs support for teachers 	<ul style="list-style-type: none"> electronic exams: focus on alternatives available in any circumstances 	<ul style="list-style-type: none"> (original plan pre-corona: no retakes on paper) simple process and support for teachers using electronic exams 		<ul style="list-style-type: none"> no paper exams except for special needs assessment focus less on summative assessment methods and more on formative methods during the course electronic examining methods available for supporting assessment of skills included in course intended learning objectives

Course chats	<ul style="list-style-type: none"> • <i>pilot 2 (not production yet): Zulip for all SCI departments, incl collecting feedback and UI development needs</i> • finding additional solutions based on needs • Start rundown of Non-GDPR-compliant external tools 	<ul style="list-style-type: none"> • goal: Zulip in production at Aalto level (in collaboration with CS IT & ITS.LES) • additional pilots based on needs and available solutions 	<ul style="list-style-type: none"> • goal: GDPR-compliance in course chats 		
Preventing plagiarism	<ul style="list-style-type: none"> • piloting developed tools (Watermarks?) on additional courses • further development (JupyterHub A+ integration for autograding would support preventing plagiarism as well) • student and teacher training & sharing best practices 	<ul style="list-style-type: none"> • sharing best practices, taking pilots to wider use 			
Others	<ul style="list-style-type: none"> • possible additional systems adoption plan, including teacher encouragement, pilots and training • e.g. Peergrade at Aalto level spring 2021 				

Technology support for teaching administrative needs

- Course points to grades
- Analytics needs

2021 spring and summer: participation in Aalto-level planning and development, own A+ development to meet the needs	2021 autumn: further development to reach the goals	2022: follow-up analysis on situation; iteration of data collecting, goals and actions	2023; reaching goals	2024; setting new goals
<ul style="list-style-type: none"> • spring <ul style="list-style-type: none"> • A+ API development to support Sisu & Salesforce needs in course enrolment and grading! • Salesforce as OSR follower active participation in Aalto project and own implementation • summer <ul style="list-style-type: none"> • OSR-SF migration (if needed) (or, OSR available for history data) 	<ul style="list-style-type: none"> • goal 1.12.2021 (visible in Aalto-level plans): <ul style="list-style-type: none"> • Sisu A+ integration in use with all needed integrations for course start (auto-enrolment) and end (grades) • Salesforce as OSR follower in the grading need (from course points to course grade) 	<ul style="list-style-type: none"> • OSR rundown (summer 2022) • Salesforce as OSR follower in analytics 		<p>status</p> <p>systems providing awareness of student progress for teachers and heads of study programmes</p>

Technology support for life-wide learning needs

2021 spring: A+ development to meet LWL needs	2021 autumn: A+ development to meet LWL needs	2022: follow-up analysis on situation; iteration of data collecting, goals and actions	2023; reaching goals	2024; setting new goals
<ul style="list-style-type: none"> • HAKA (and O365, eduGain, mpass?) login to A+ 	<ul style="list-style-type: none"> • priority on course material visibility alternatives? 			<p>status</p> <p>open online courses are integrated with degree education in meaningful ways, as well by the technology used as the teaching practices.</p>