### Project title: Adapting Finnish Programming Education Solutions in Korea

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Our project is a collaboration between Aalto University of Finland, and Chosun University and Korea Advanced Institute of Science and Technology (KAIST) of South Korea. Aalto University, and in particular its Learning+Technology research group (LeTech), have produced acclaimed study modules for computing education, as well as educational technology to support them. The group’s main focus is developing, evaluating and researching such educational solutions to support programming education. LeTech also seeks to evaluate these approaches outside the Finnish context for which they were originally created. Aalto, more broadly, wishes to be seen internationally as an attractive destination for prospective students and has recently launched a university-wide strategic initiative to improve online and blended education. Chosun University and KAIST are part of a grand nationwide effort to improve software education in South Korea, generously funded by the national government. The Department of Computer Engineering at Chosun and School of computing at KAIST are looking for new pedagogical and technological solutions to replace or supplement prevalent traditionalist education, improve the quality of student learning, and manage teacher workload. To meet these needs, we propose to take two Finnish study modules for programming education and to introduce these modules in adapted form into a South Korean curriculum at Chosun University. The two modules would act as pilot modules for introducing novel learning technologies and approaches first in Chosun, as the first concrete steps to implement the new Chosun University strategy in education, which promotes “Interactive learning and personalized education”. Based on the collected experiences, the longer-term collaboration between the partners seeks to extend the adoption of advanced educational technologies and pedagogies developed at Aalto more widely in undergraduate education in Chosun, KAIST and other Korean universities. In terms of mobility, we plan to 1) expand the ongoing dialogue between the universities with a series of short international visits between staff members, and 2) to have Chosun University recruit a programming teacher currently employed at Aalto for a period of one year. Apart from supporting the integration of the new study modules into the Korean context, these activities are intended to foster future collaboration that extends beyond the present project not only in Chosun university but also in other Korean HEIs.