This report ALEX17, the acronym for ALaiz EXperiment 2017, is the last full-scale experiment within the NEWA (New European Wind Atlas) project, whose primary objective is to create a wind atlas of Europe that includes the state-of-the-art in modelling the wind resource, as well as the creation of a comprehensive database. ALEX17 aims to present a utility-scale measurements campaign to characterize the wind flow in complex terrain, through a combination of measurement technologies. Having finalized the measurements campaign and processed all the information, the wind flow in the area of study can be characterized for different weather conditions. In addition, the experimental data will be able to validate the reliability of numeric simulation models of wind flow in complex terrain, in order to reduce uncertainties when evaluating the wind resource.