In this talk, I will propose a new type of group actions, generalizing the notion of proper group actions. Many non-proper group actions on CAT(0)-spaces are of this type, typically stabilizers of these actions can be infinite. The motivation for the introduction of such actions arises from the study of the Farrell-Jones Conjecture for groups admitting “nice” but not necessary proper actions on CAT(0)-spaces. (The conjecture is known to be true for CAT(0)-groups by works of A. Bartels, W. Lueck and C. Wegner). I will then present some results obtained so far to show how this notion of group actions can be applied to the study of the Farrell-Jones conjecture. (Received January 24, 2014)