Most ABM is rule-based (Kocabas & Dragicevic, 2013), in almost modeling researches with ABM, rules are defined by modelers and agents do not make rules in a model. The first attempts for moving towards dynamic of institutions are seen in Smajgl (2008) and Ghorbani (2016) works (Ghorbani & Bravo, 2016)(Smajgl, Izquierdo, & Huigen, 2008).

Agents are not ~~so~~ intelligent enough to sense collective emergent institutions or change them.

The action of each person in a social system is an individual based on the knowledge, preferences, backgrounds, and interests (Parker, Hessl, & Davis, 2008). Then in the same situations, people can make various decisions or follow particular order of steps. Then considering multi criteria intelligent decisions ~~are~~ is very/extremely/quite important.

Coleman (1986) boat or bathtub diagram is an intellectual tool to show how we can analyze complex social processes which ~~. It~~ includes two levels: macro and micro. The rules, norms, and institutions are located at the macro level; at the micro level, individuals, their behavior and actions ~~are~~ exist ~~ed~~ (Coleman, 1986). Fig 2 is extended based on Coleman, Hodstrom and Swedberg boat (Coleman, 1986)(Hedström & Swedberg, 1998) and North (D. C. North, 1993). In one social context, people act and make decisions based on established institutions. However, ~~during the~~ over time, environmental factors will be changed, individual learning and skills will be improved and these factors can potentially trigger individual, new decisions; hence, we will have changes in individual actions ~~and it~~which can change institutions consequently.