عنوان فارسی مقاله:
مدل سازی پویای سیستم های نوآوری فناورانه

عنوان انگلیسی مقاله:
Modelling the dynamics of technological innovation systems
5. Conclusions and outlook

In this paper we set out to investigate how technological innovation systems emerge, or decline, in the context of various socio-technical transition pathways. We did so by developing a system dynamics model, which is grounded in both the ‘motors of innovation’, following the literature on emerging technological innovation systems (Suurs and Hekkert, 2012; Suurs, 2009) and the notion of ‘transition pathways’ as part of the multi-level framework thinking (Geels and Schot, 2007). As such, this paper contributes to the literature by making a cross-over between TIS and MLP, two key-frameworks (Markard and Truffer, 2008; Weber and Rohracher, 2012), into a system dynamics model serves as underpinning for future research.

In order to illustrate the dynamics that emerge from such cross-over, we developed several experiments characterized by exogenous influences. While the individual experiments and outcomes are described in detail in the previous section, our overall conclusion is that the model is able to produce results similar to what can be expected on the basis of existing TIS and MLP literature.