Hello, my name is Klenov Evgeny. I’m a postgraduate student of Moscow Aviation Institute. I do my research at the Department of Applied Mathematics and Physics (Calculus Mathematics and Programming) and the theme of my research is “development of a decision support system for the analysis of global competition on the basis of agent-based modeling”.

In this paper we describe the features and advantages of agent-based model of global competition. This model is based on Michael Porter's five forces model. Porter's model describes the competition on an oligopolistic market on the basis of the five forces:

1. Threat of new entrants;
2. Threat of substitute products or services;
3. Bargaining power of customers (buyers);
4. Bargaining power of suppliers;
5. Intensity of competitive rivalry.

We modify the model by adding a sixth force called complementors. After this, we assume that each force forms around itself its own market, so we turn to the model of global competition.

The next step of my research is to build an agent-based model of global competition. In this model, the agent is a manufacturer of any product (e.g. aircraft). Simulation results should provide recommendations on competitive strategy of the firm to the decision maker.

The novelty of this work is that we develop a decision support system, which replaces the manual work of the analyst, as well as the fact that we have perfected the model of Michael Porter's five forces in accordance with the present state of the world economy.