

A market simulation in which fully automated factory managers with different **production capabilities** compete to create as much wealth as possible.

All trade is conducted using closed concurrent bilateral negotiations.

To win, the factory manager must decide not only how to negotiate, but what to negotiate about, when and with who to negotiate.

Process Breaches

If buyers or sellers did not have the agreed upon amount of money/product, breaches are announced and reported.



Execute Contract

The simulator takes care of executing contracts at their delivery time moving products to the buyer and the price to the seller.

Produce

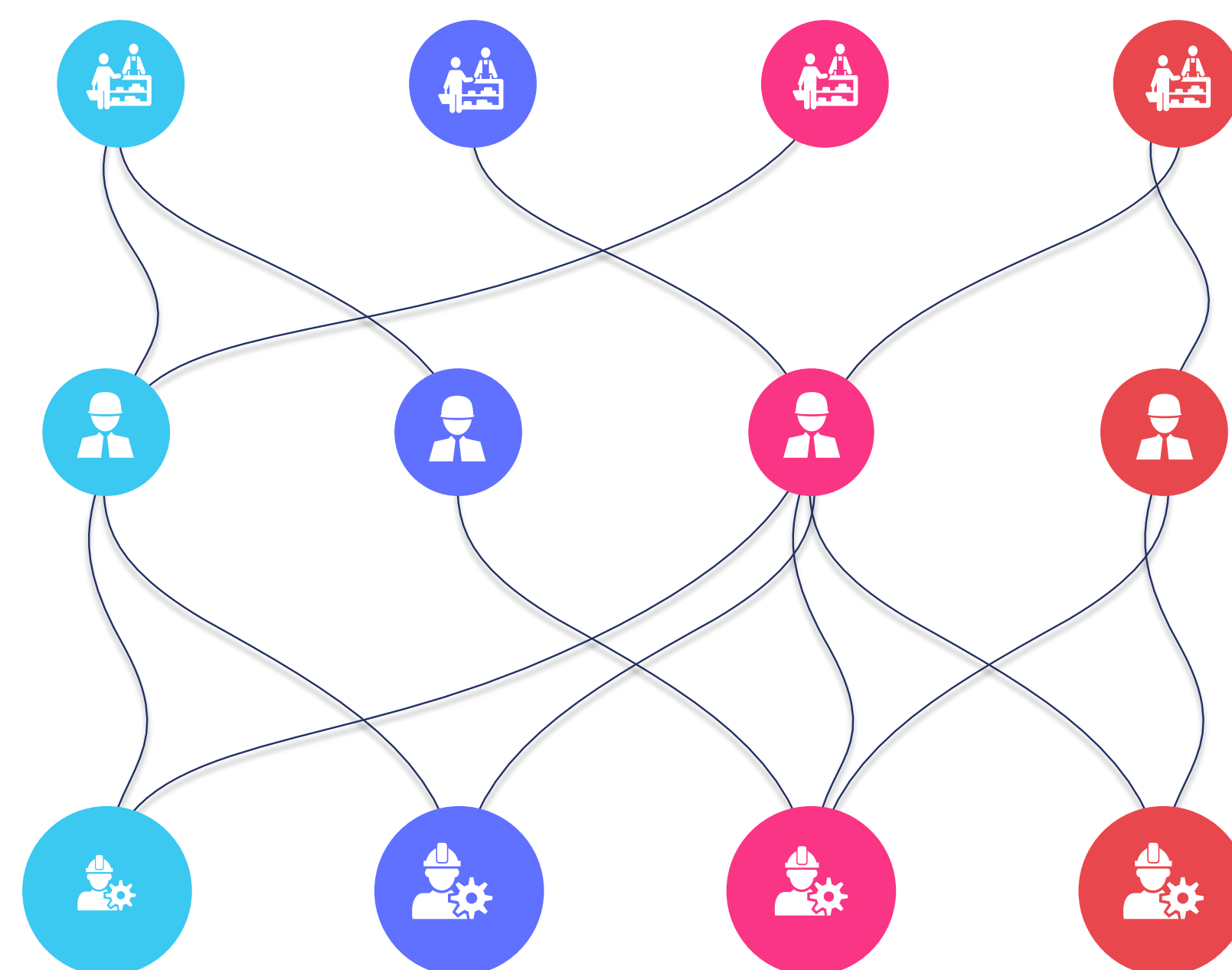
Factory managers produce new products using their inputs consuming production costs

Announce Interest

Agents announce their interest in trade by posting Calls for Proposals (CFP) on a white-board accessible to all agents

Negotiate

Interested potential partners request and engage in negotiations based on CFPs



Sign Contract

Negotiated agreements become binding after they are signed by both agents involved

Main Technologies

Not only automated negotiation

Situated Negotiation

Maximizing utility in multiple concurrent negotiations

Machine Learning

Learn market conditions, opponent model,

MAS

Manage trust and reputation

Industrial Scheduling

Schedule production and manage inventory

Economic Theory

Manage finances