

Goal/Environment/Adaptation

Goal: For each agent, earn money as much as possible in the virtual stock market. In the end, we want to simulate the whole market with multiple agents.

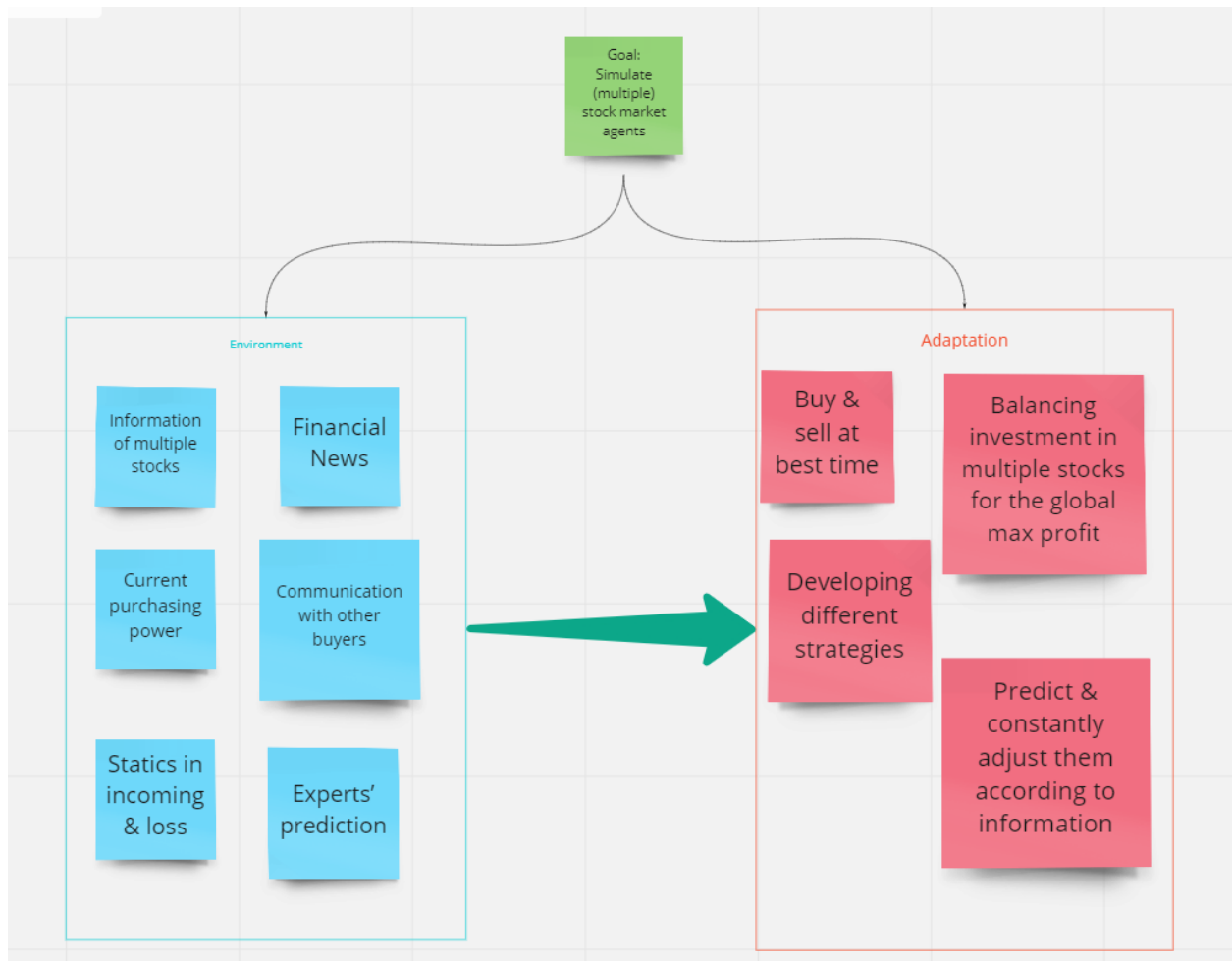
Environment:

- Information of multiple stocks including:
 - Date
 - Open Price
 - Highest Price
 - Lowest Price
 - Close Price
 - Volume
- Current purchasing power
- Statics in incoming:
 - Total income
 - monthly/weekly/yearly income
- Statics in loss:
 - Total loss
 - monthly/weekly/yearly loss
- Financial News
- Communication with other buyers
- Experts' prediction

Adaptation:

- Buy at predicted lowest local maxima for each stock
- Sell at predicted highest local maxima for each stock
- Balancing investment in multiple stocks for the global max profit
- Developing different strategies in investment varying:
 - between conservative and radical
 - Between short term investment and Long term investment
- Deduce that whether there is local maxima or minima in the current day

- Predict according to information of multiple stocks
- Adjust prediction according to:
 - daily financial news
 - Communication with other buyers
 - Experts' prediction



https://miro.com/app/board/o9J_lKoso14=