Instructions for participants

Go to the website
https://oriroch.shinyapps.io/fund_game/

or open an R session and execute the source code. You can download the code at https://github.com/oriroch/fund_game.

In this simulation, you will become the manager of a simple investment fund. Over twelve rounds, you will determine the fund's asset allocation by selecting the percentage of funds to invest in each of three available asset classes. At the start of the simulation, you will be endowed with 10,000 units of virtual money.

The first step is to select the scenario. All the available scenarios are based on real periods in history and contain real market data at the time they occurred. After selecting the scenario, a short contextual description will appear in the *Graphs* tab. Each scenario includes a benchmark portfolio against which you can you can compare your fund's performance. The available scenarios are:

- The subprime mortgage crisis (2008).
- The European debt crisis (2011).
- Economic growth in the US (2017).
- ECB zero interest-rate policy (2017).
- The COVID-19 crisis (2020).
- Post-COVID-19 crisis (2022).

Once the scenario is selected, use the sliders in the main tab to determine the percentage of money to allocate in each asset class. As you progress through the twelve rounds you may adjust these allocations to improve portfolio performance. The available asset classes include:

- Short-Term Fixed Income ETF: Government Bonds with maturities between 1 and 3 years.
- Mid-Term Fixed Income ETF: Government Bonds with maturities between 7 and 10 years).
- Stock market ETF: A broad equity index fund.

You must make sure the portfolio weights add up to 100%, so all the available money is invested. After each allocation, the expected volatility of the chosen portfolio will be displayed, allowing you to assess the level of risk taken in that round.

Once you are satisfied with your allocation, click on the “Simulate” button to generate the results of the round. The simulation will continue for twelve rounds, representing one year of market activity.

After completing all twelve rounds, you may click on the **“Performance Measures”** button to review several portfolio metrics comparing your fund’s results with the benchmark. These indicators will help you evaluate the effectiveness of your allocation strategy throughout the year.

Important: Changing the scenario at any time during the simulation will restart the simulation and reset all results.