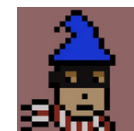




Olympus Playground

by
Data and Metrics





This document is a quick overview of
Olympus  Playground



Vision

Provide an advanced interactive simulation environment for the Olympus protocol



Mision

Expand the reach of the Olympus ecosystem by:

- Foster a community of research, development, and knowledge symmetry
- Reduce the barrier of entry and learning curve for the protocol by creating an intuitive yet highly descriptive simulation environment
- Leverage the knowledge generated by sherpa academy and provide an environment to practice lessons learned.

Provide an isolated environment for ohmies to:

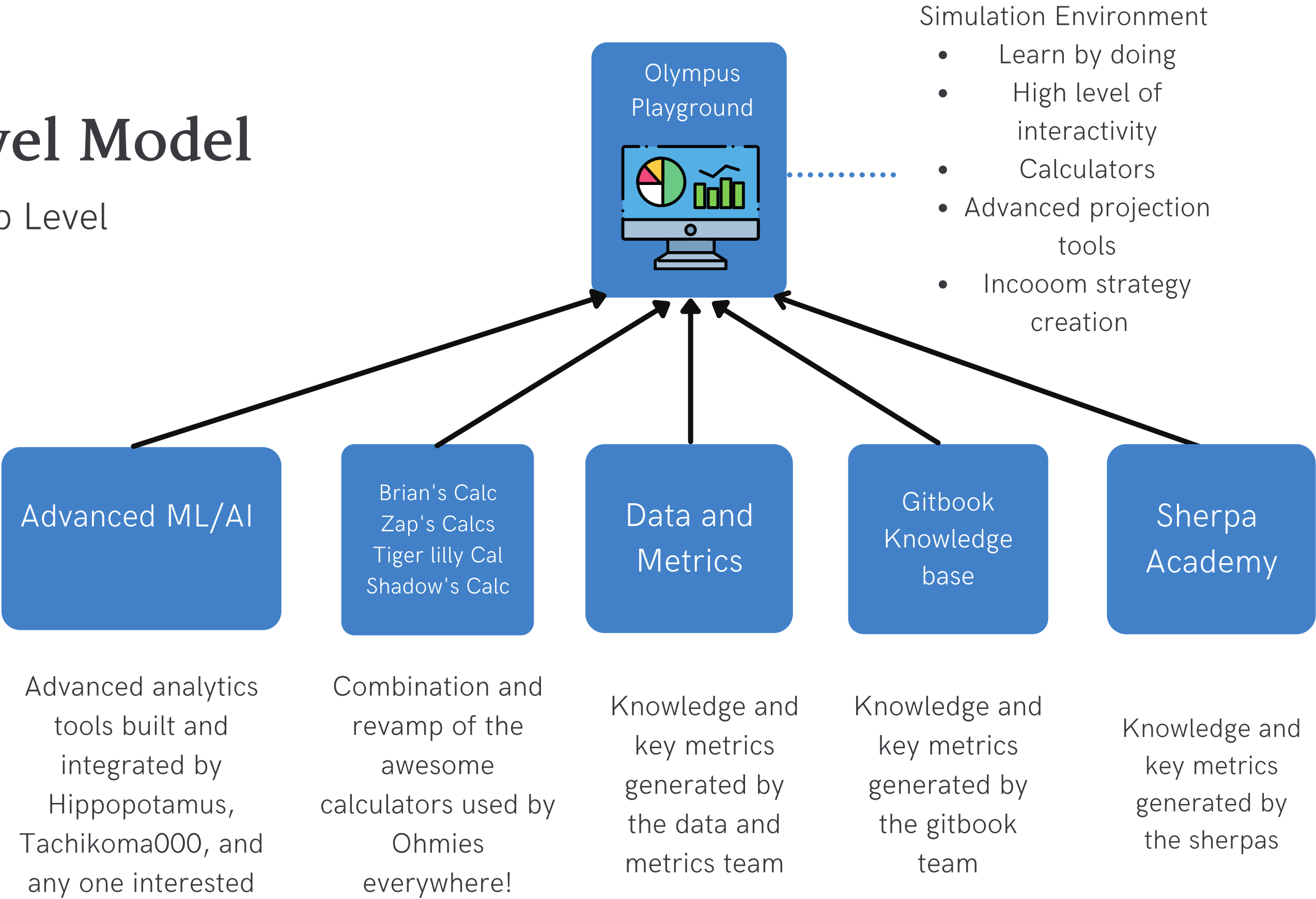
- Speculate on a vast number of scenarios
- Simulate staking outcomes based on interactive input parameters
- Simulate bonding outcomes based on interactive input parameters
- Design and simulate incooom strategies
- Set goals and simulate metrics required to reach them





Top level Model

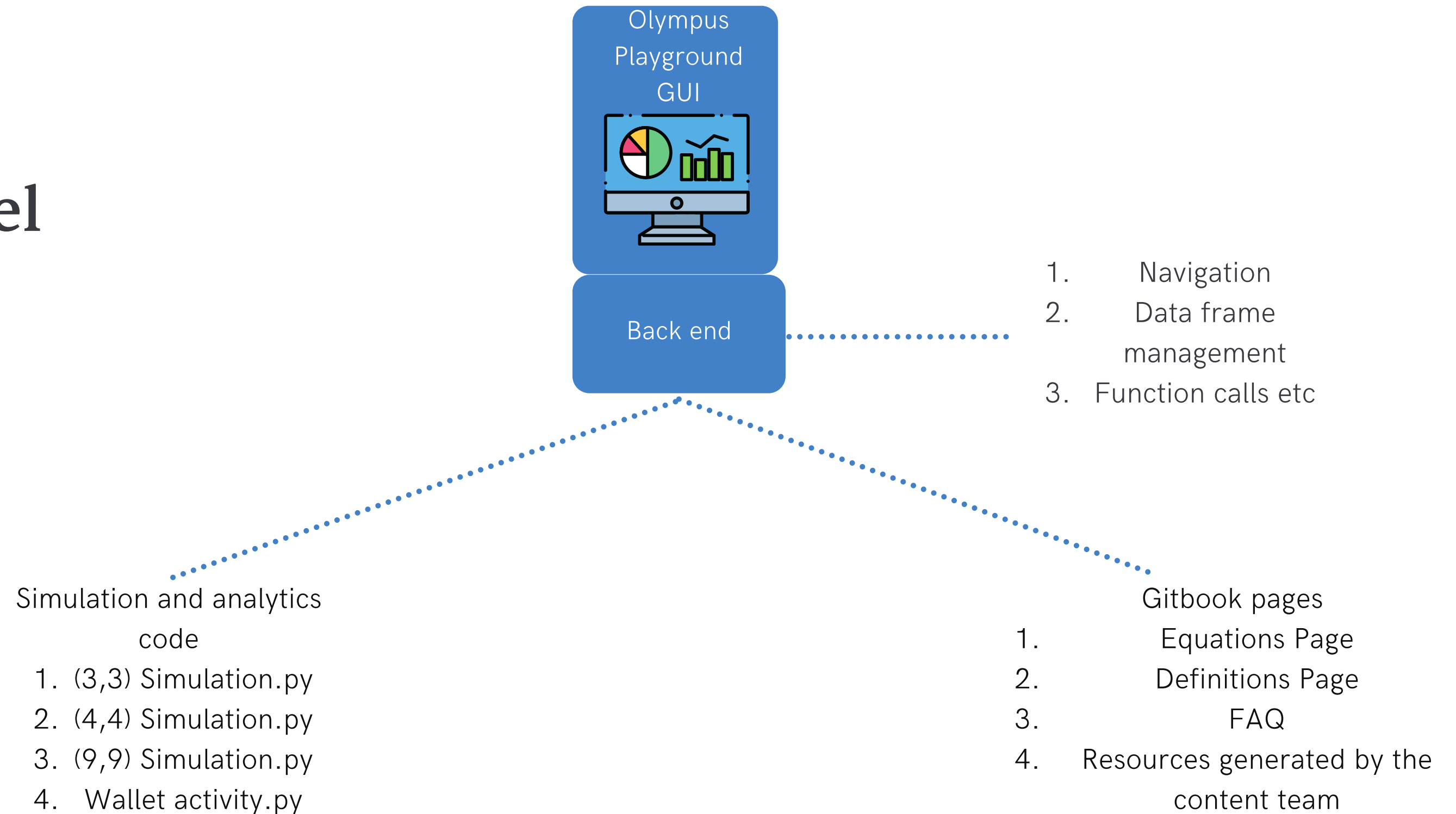
Top Level





Top level Model

Interfaces



UI Concept: (3,3)

Learn

- 1. Concise definitions and links to resources explaining the (3,3) strategy
- 2. How to use the (3,3) simulator

Play

- High level of interactivity
- Adjustable parameters
- Incooom forecasting and strategy creation

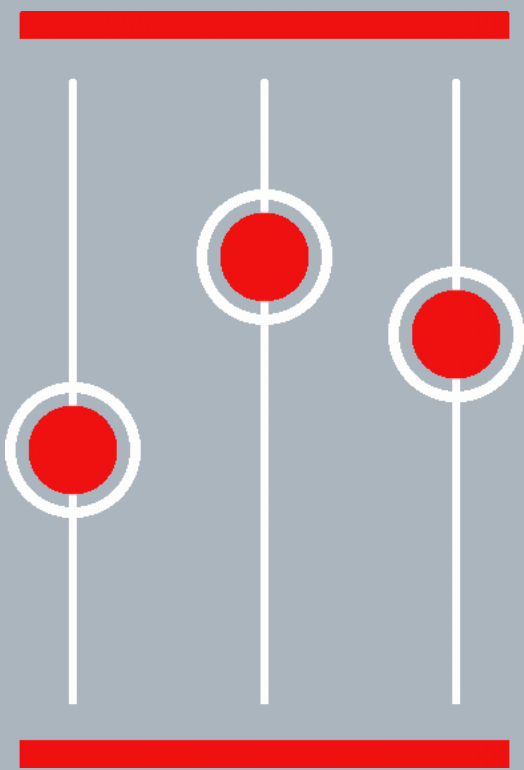
Insight

- View calculation results
- interactive tables and graphs

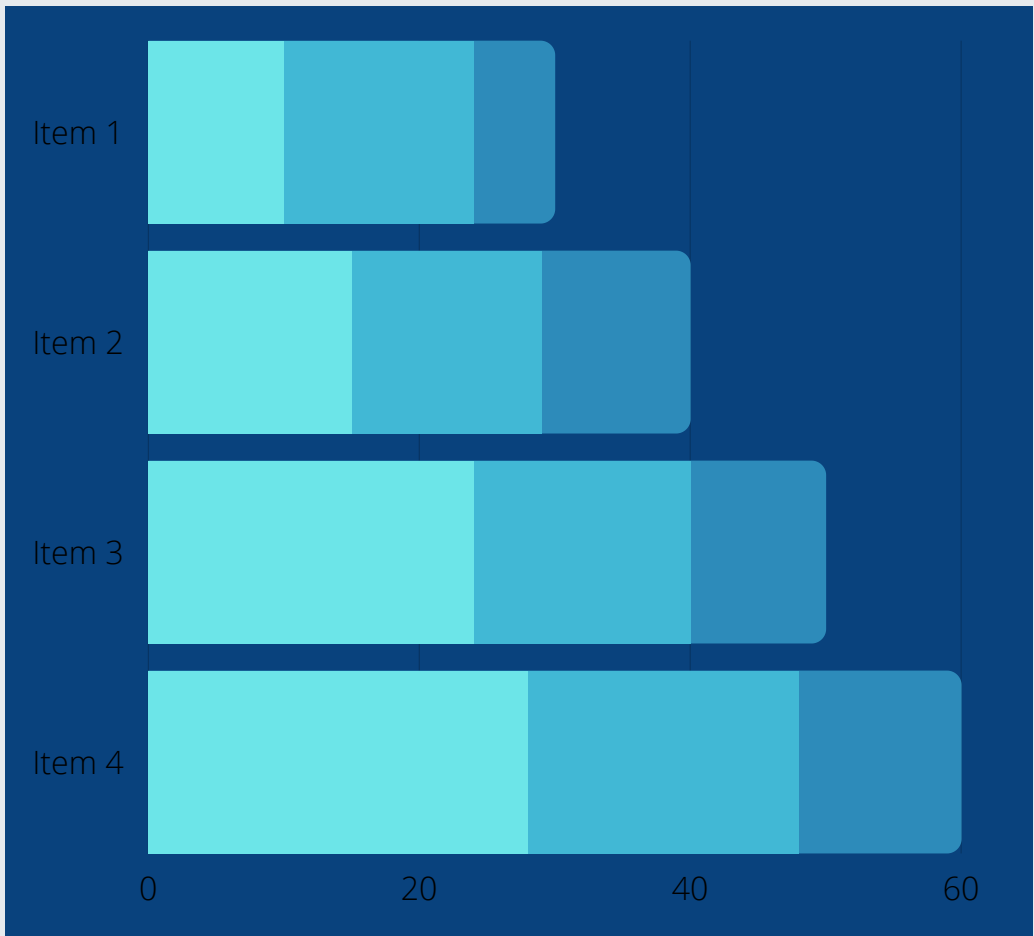
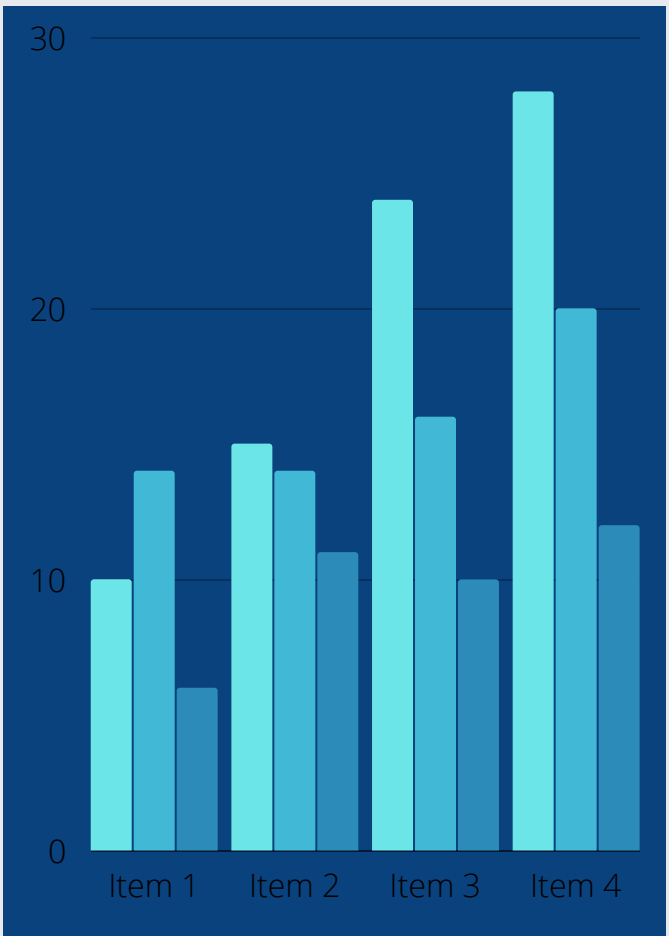
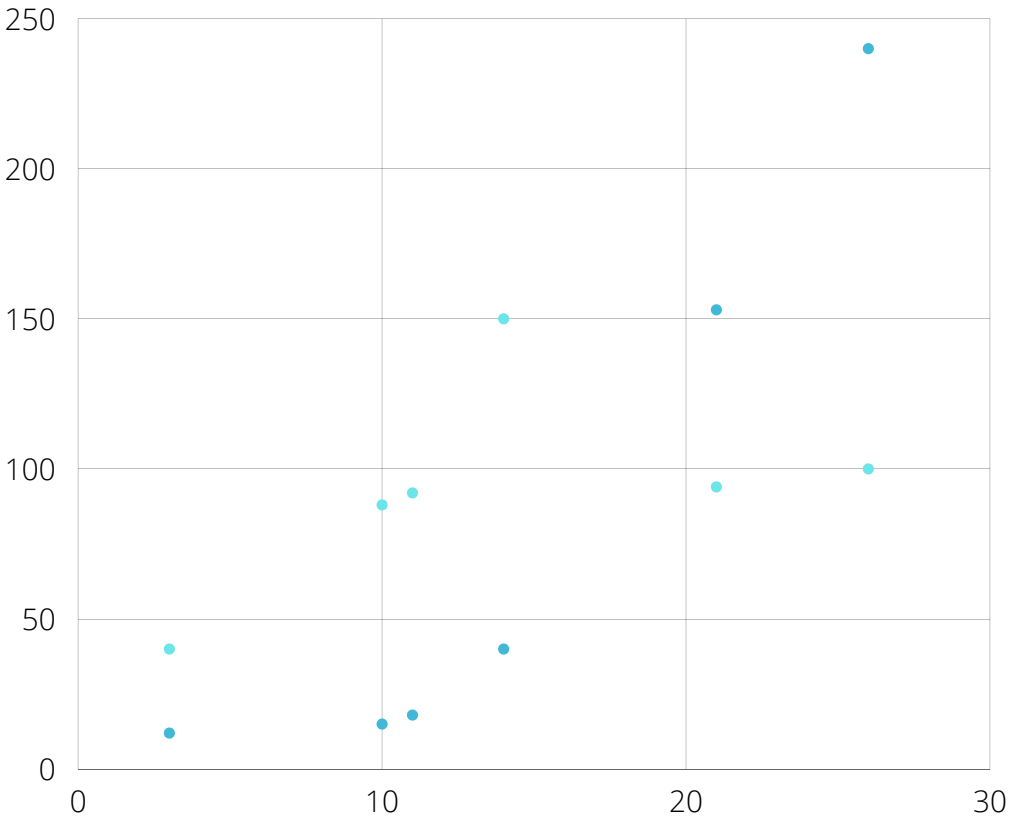
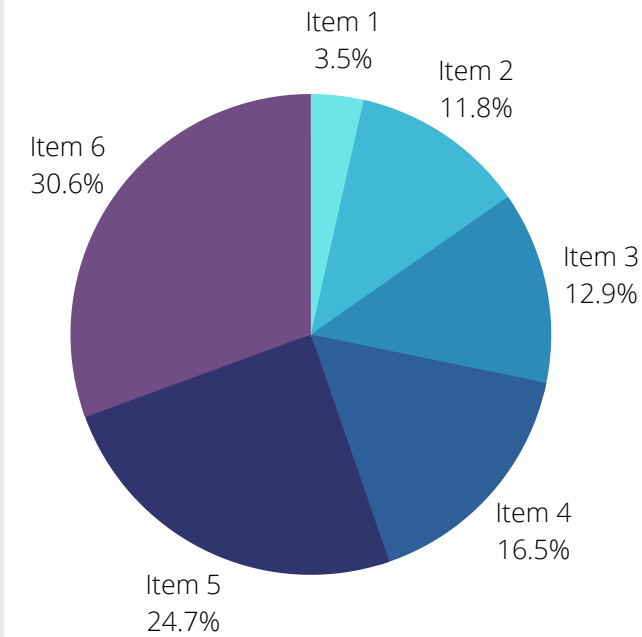
LEARN



PLAY



INSIGHT



UI Concept: (4,4)

Learn

- 1. Concise definitions and links to resources explaining the (4,4) strategy
- 2. How to use the (4,4) simulator

Play

- High level of interactivity
- Adjustable parameters
- Incooom forecasting and strategy creation

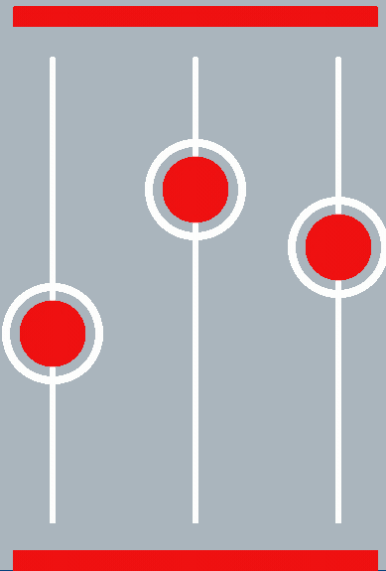
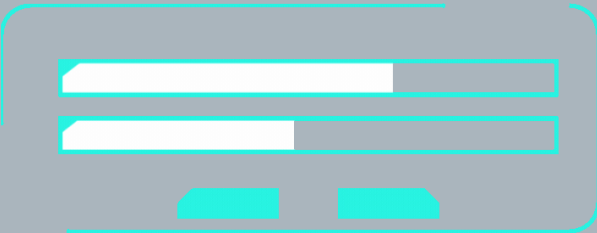
Insight

- View calculation results
- interactive tables and graphs

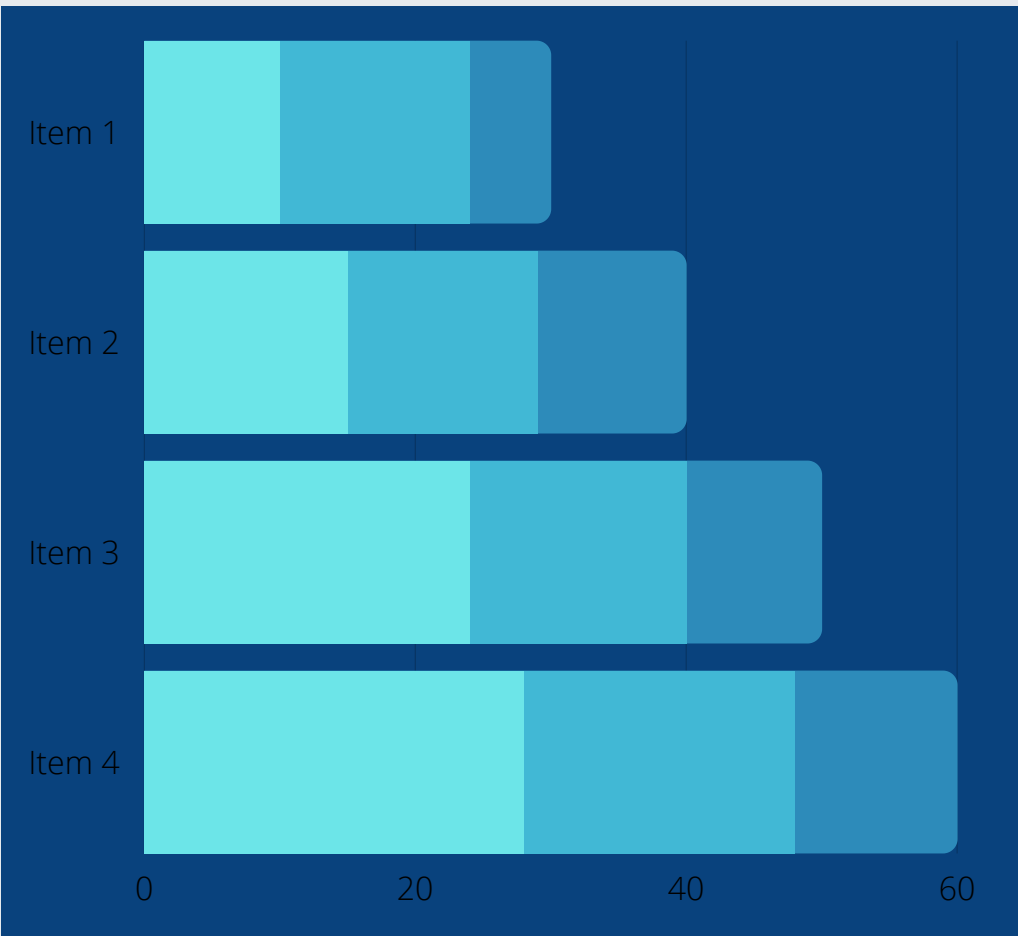
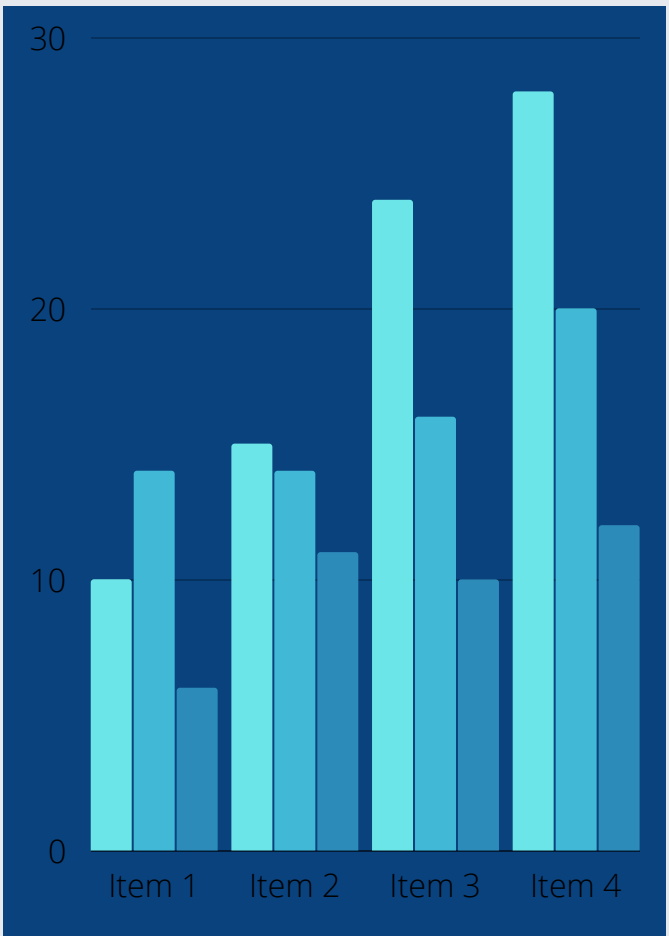
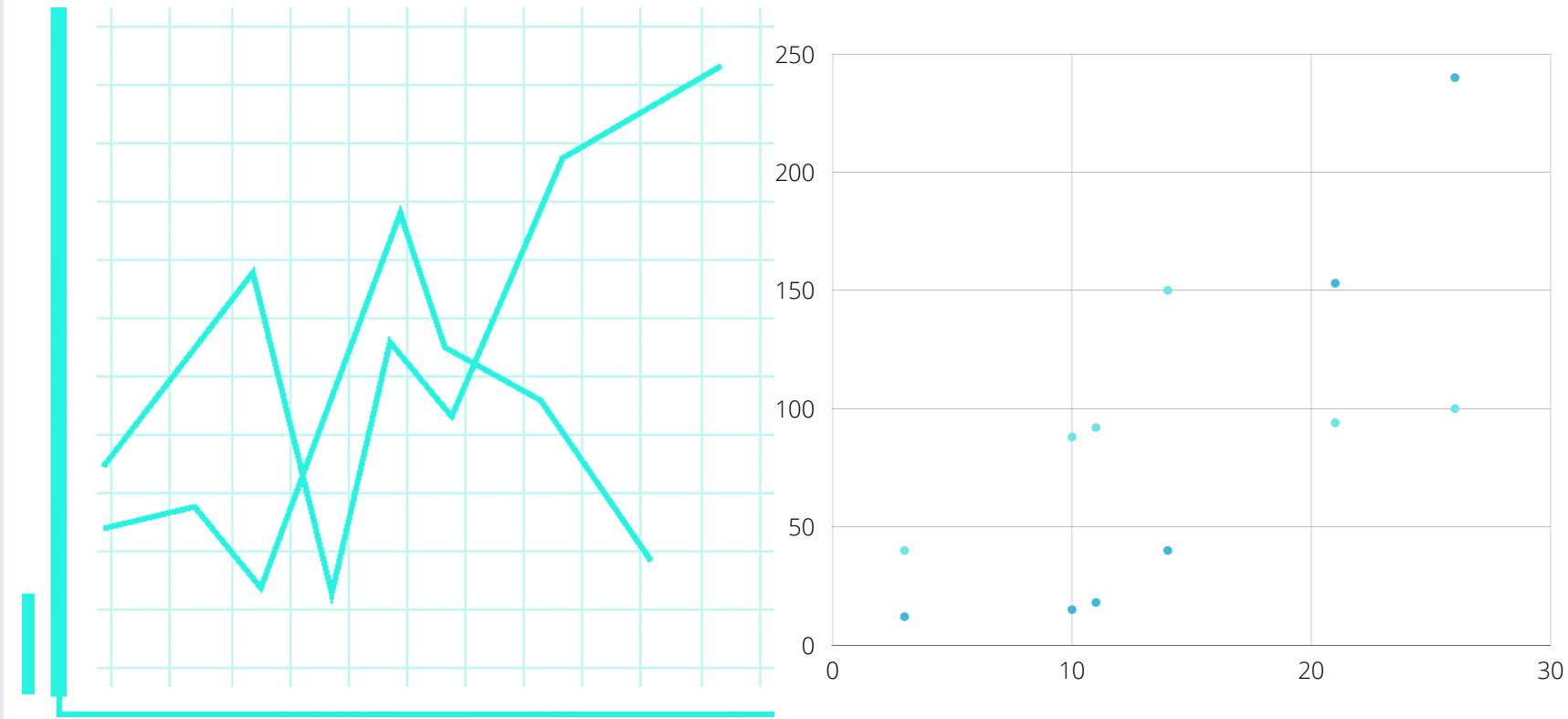
LEARN



PLAY



INSIGHT



UI Concept: (9,9)

Learn

1. Concise definitions and links to resources explaining the (9,9) strategy
2. How to use the (9,9) simulator

Play

- High level of interactivity
- Adjustable parameters
- Incooom forecasting and strategy creation

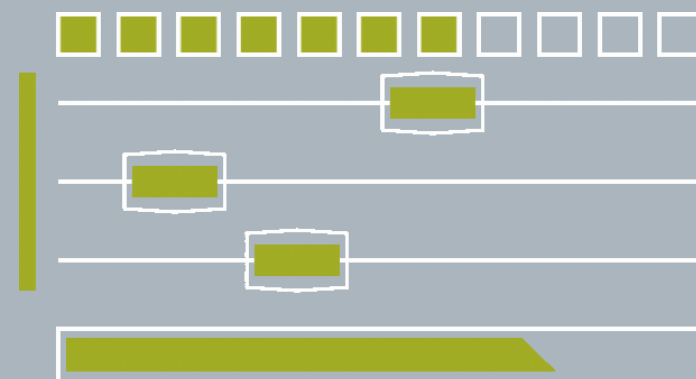
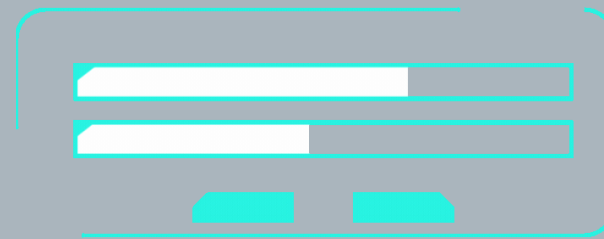
Insight

- View calculation results
- interactive tables and graphs

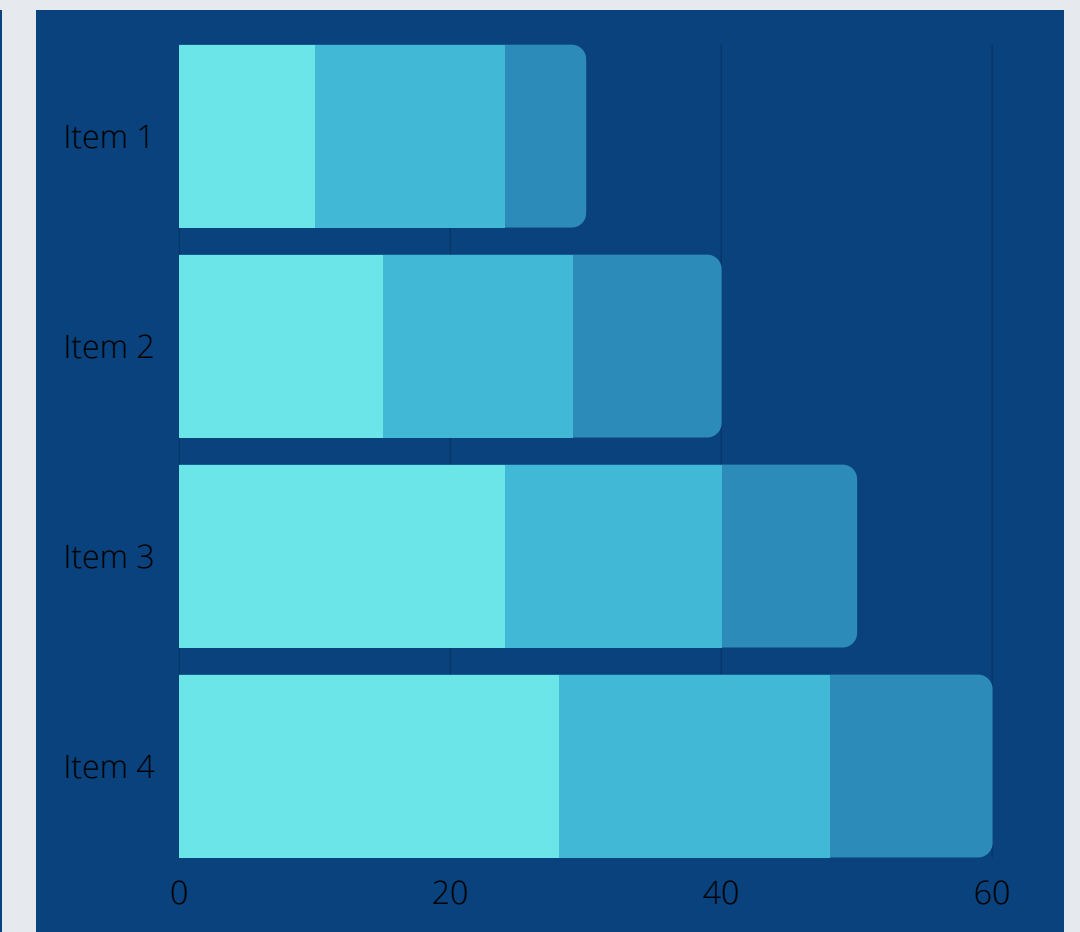
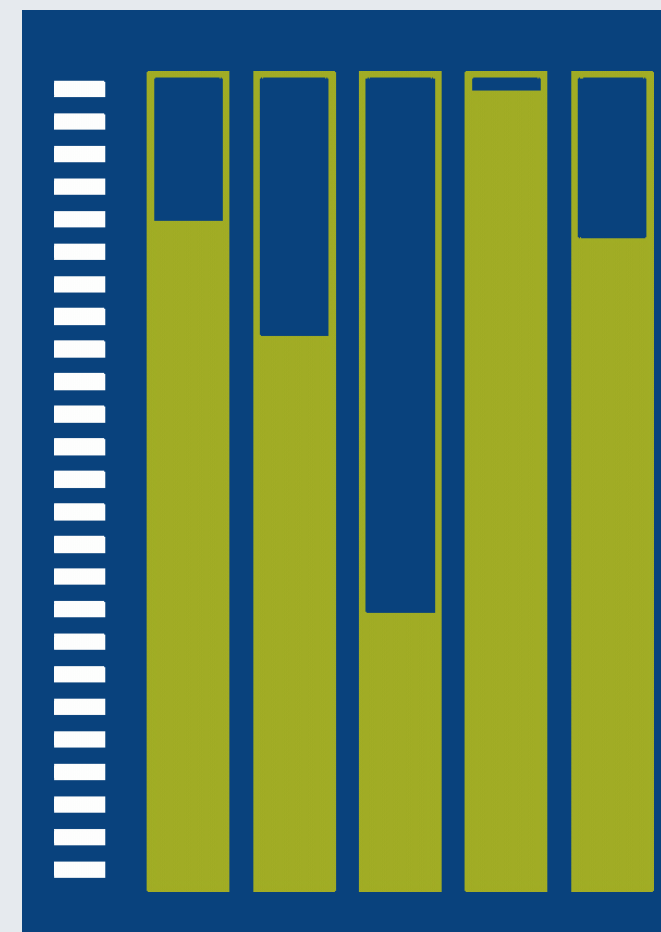
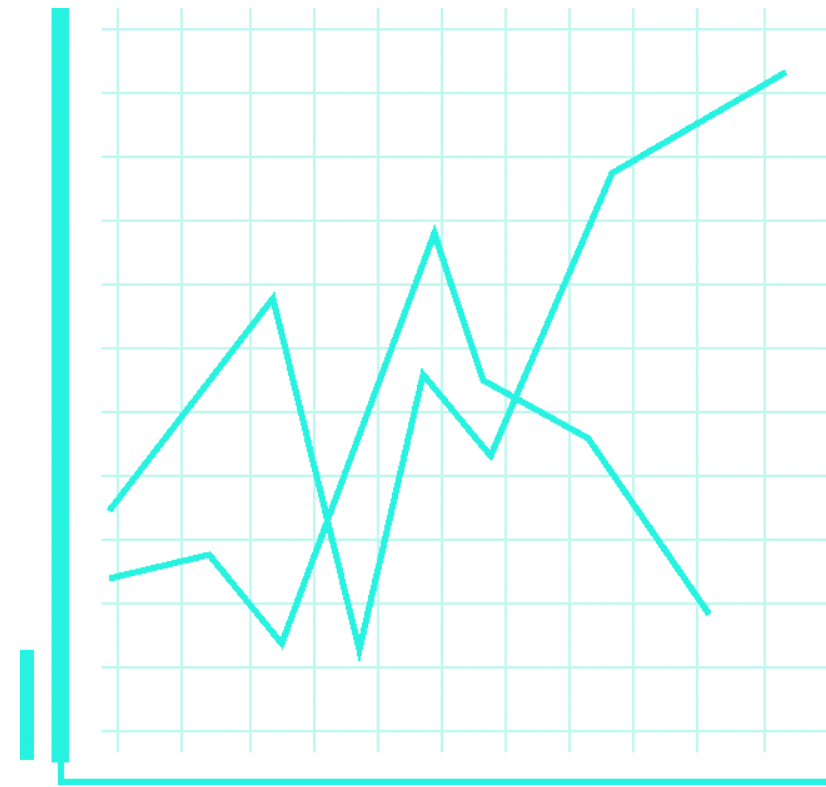
LEARN



PLAY



INSIGHT





Progress so far

Structured jupyter notebook with a high level of documentation, comments and code blocks

- Contents
- 3 The server
- 4 The App Interface: Headers, Tabs, Cards, Parameters and Footer
 - 4.1 Css style sheet
 - 4.2 Header
 - 4.3 Footer
 - 4.4 (3,3): Staking information, Simulation parameters and Card Construction
 - 4.4.1 (3,3) Learn Card Text
 - 4.4.2 (3,3) Play Card Text
 - 4.4.3 (3,3) Simulation parameters: Input
 - 4.4.4 (3,3) Simulation parameters: Output
 - 4.4.5 (3,3) Card Construction
 - 4.5 (4,4) Bonding Information, Simulation Parameters and Card Construction
 - 4.5.1 (4,4) Learn Card Text
 - 4.5.2 (4,4) Play Card Text
 - 4.5.3 (4,4) Simulation Parameters: Input
 - 4.5.4 (4,4) Simulation Parameters: Output
 - 4.5.5 (4,4) Card Construction
 - 4.6 App Interface: Tabs
 - 4.6.1 (3,3) Tab
 - 4.6.2 (4,4) Tab
 - 4.7 App Interface: Construction
- 5 Core Code
 - 5.1 Read data sources: Coingecko and Hippo data source
 - 5.2 Data Frame construction
 - 5.2.1 Data Frame construction: Ohm Growth
 - 5.3 Funtions and Callbacks
 - 5.3.1 Functions and Callbacks: (3,3) Simulations
- 6 Execute app

- Contents
- 1 Welcome to OlympusDAO Playground
 - 1.1 Introduction: What is Olympus Playground?
 - 1.1.1 Staking Projections:
 - 1.1.2 Incooom Projections:
- 2 The Libraries
- 3 The server
- 4 The App Interface: Headers, Tabs, Cards, Parameters and Footer
 - 4.1 Css style sheet
 - 4.2 Header
 - 4.3 Footer
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- 5 Core Code
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 - 5.2 Data Frame construction [...]
 - 5.3 Funtions and Callbacks
 - 5.3.1 Functions and Callbacks: (3,3) Simulations
 - Ohm growth section: This section calculates and plots the projected ohm growth over time (1000 days)
 - In [95]:

```
1 # Define callback to update the ohmGrowthChart. As user changes the initial staked ohm, the chart updates dynamically
2 @app.callback(Output('ohmGrowthChart', 'figure'),
3               Input('initialOhms', 'value'), Input('rewardYield', 'value'))
4 # -----
5 # This function calculates and generates the ohm growth over time using the initial staked ohm as a starting point
6 def update_figure(initialOhms, rewardYield):
```
 - In [96]:

```
1 # Define ROI callbacks to update the roi output objects and incooom forecasts.
2 @app.callback(Output('dailyROI_P', 'value'), Output('fivedayROI_P', 'value'),
3               Input('initialOhms', 'value'), Input('rewardYield', 'value'))
4 # -----
5 # This function calculates and generates the ROI over time using the initial staked ohm as a starting point
6 def update_incooom(rewardYield, initialOhms, desiredUSDTarget):
```

- 1 Welcome to OlympusDAO Playground [...]
- 2 The Libraries [...]
- 3 The server [...]
- 4 The App Interface: Headers, Tabs, Cards, Parameters and Footer [...]
- 5 Core Code [...]
- 6 Execute app [...]

Progress so far

Github repo

main 1 branch 0 tags

Go to file Add file Code

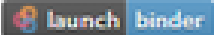
Tachikoma000 Merge pull request #28 from Tachikoma000/master b1fce85 2 days ago 84 commits

.idea	Heavy work on the bonding simulator. Progress are as follows:	2 days ago
.ipynb_checkpoints	Heavy work on the bonding simulator. Progress are as follows:	2 days ago
Docs/How to access the binder	Heavy work on the bonding simulator. Progress are as follows:	2 days ago
OlympusDAO_Playground_Bootstrap...	Heavy work on the bonding simulator. Progress are as follows:	2 days ago
OlympusDAO_Playground_Bootstrap...	Heavy work on the bonding simulator. Progress are as follows:	2 days ago
OlympusDAO_Playground_Bootstrap...	plugged in data stream to output objects	9 days ago
README.md	Update README.md	13 days ago
UI sketch.pdf	Added ui sketch idea	17 days ago
Untitled.ipynb	Heavy work on the bonding simulator. Progress are as follows:	2 days ago
Untitled1.ipynb	Heavy work on the bonding simulator. Progress are as follows:	2 days ago
Untitled2.ipynb	Heavy work on the bonding simulator. Progress are as follows:	2 days ago
bondScenario_ScratchPad.ipynb	Heavy work on the bonding simulator. Progress are as follows:	2 days ago
bondScenario_allCalcs_ScratchPad.ipy...	Heavy work on the bonding simulator. Progress are as follows:	2 days ago
requirements.txt	Update requirements.txt	13 days ago

README.md

Olympus Playground

Run this notebook on your browser by following the binder link provided below. When using binder, all dependencies, modules and packages will be automatically created for you.

 launch binder

What is Olympus Playground?

This is a simple projection calculator for Staking and bonding ohm in OlympusDAO protocol Welcome to Olympus Playground This is an interactive notebook to study, play and forecast the growth of your ohm over time. This notebook

About

Simple projection calculator for Staking and bonding ohm in OlympusDAO protocol

Readme

Releases

No releases published
[Create a new release](#)

Packages

No packages published
[Publish your first package](#)

Languages

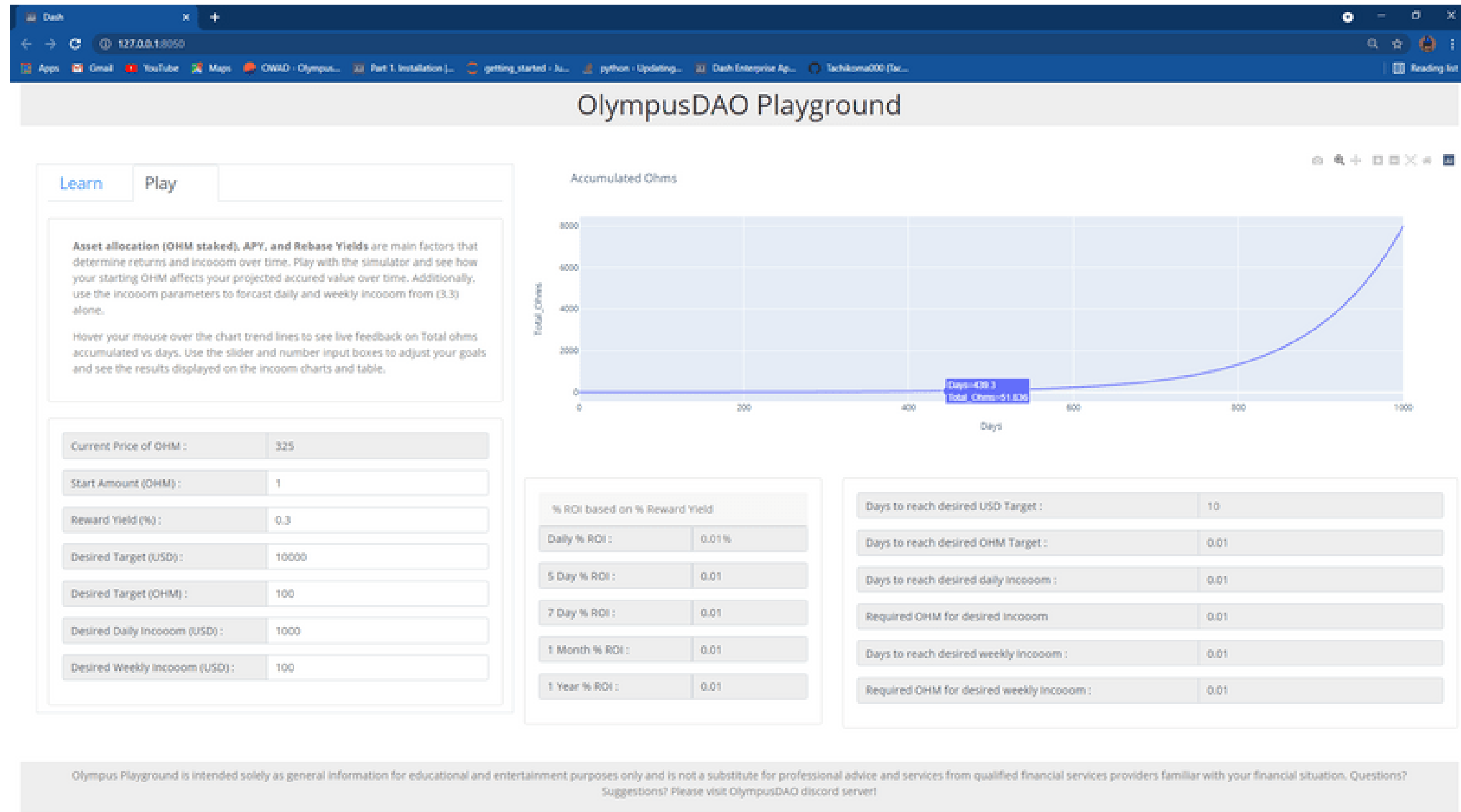
Jupyter Notebook 93.3%

Python 6.7%



Progress so far

(3,3) Simulator
Live demo





Bonding Simulator

Learn: The (4,4) Strategy

Play

Asset allocation (OHM staked), Gas Price, Prices of ETH and OHM, Bond ROI, Rebate Yields and Network Gas Fees are main factors that determine (4,4) gains over time. Play with the simulator and find the parameters that maximize profitability. Additionally, use the chart provided to compare (3,3) gains with (4,4) gains.

Hover your mouse over the chart trend lines to see live feedback on Total ohms accumulated via days. Use the slider and number input boxes to adjust parameters and see the results displayed.

Discounted OHM Price (USD) :

400

Amount Bonded (USD) :

8000

Current Price of ETH (USD) :

4000

Gas Price (ETH) :

40

Bond ROI% :

5.58

Rebase Rate (%) :

0.4

Ohm growth over time (365 Days)

Bonding Scenarios :

Selected (4,4) Scenario: Staking before every Epoch

Staking Rate (%) :

6

Ohms Gained from Staking (Ohm)

16

Vest Bonus (Ohms) :

3

Bonding Rate (%) :

8

Ohms Gained from Bonding (Ohm)

23

Eth Fees:

0.001

Rate Difference (%) :

2.6

Minimum bond discount (%) :

2.9

Current Rebate Rate (%) :

0.57

Current APY (%) :

7688

<>

Progress so far

(4,4) Simulator

Live Demo



Live Demo

Roadmap

Flesh out bonding
simulator

Start (9,9) Simulator

Build out notebook
infrastructure

Flesh out UI

Deploy beta
application

Get more python
and data enthusiasts
to jump in and help
build!

Thank you!

Let's chat! head on over to Playgrounds channel

