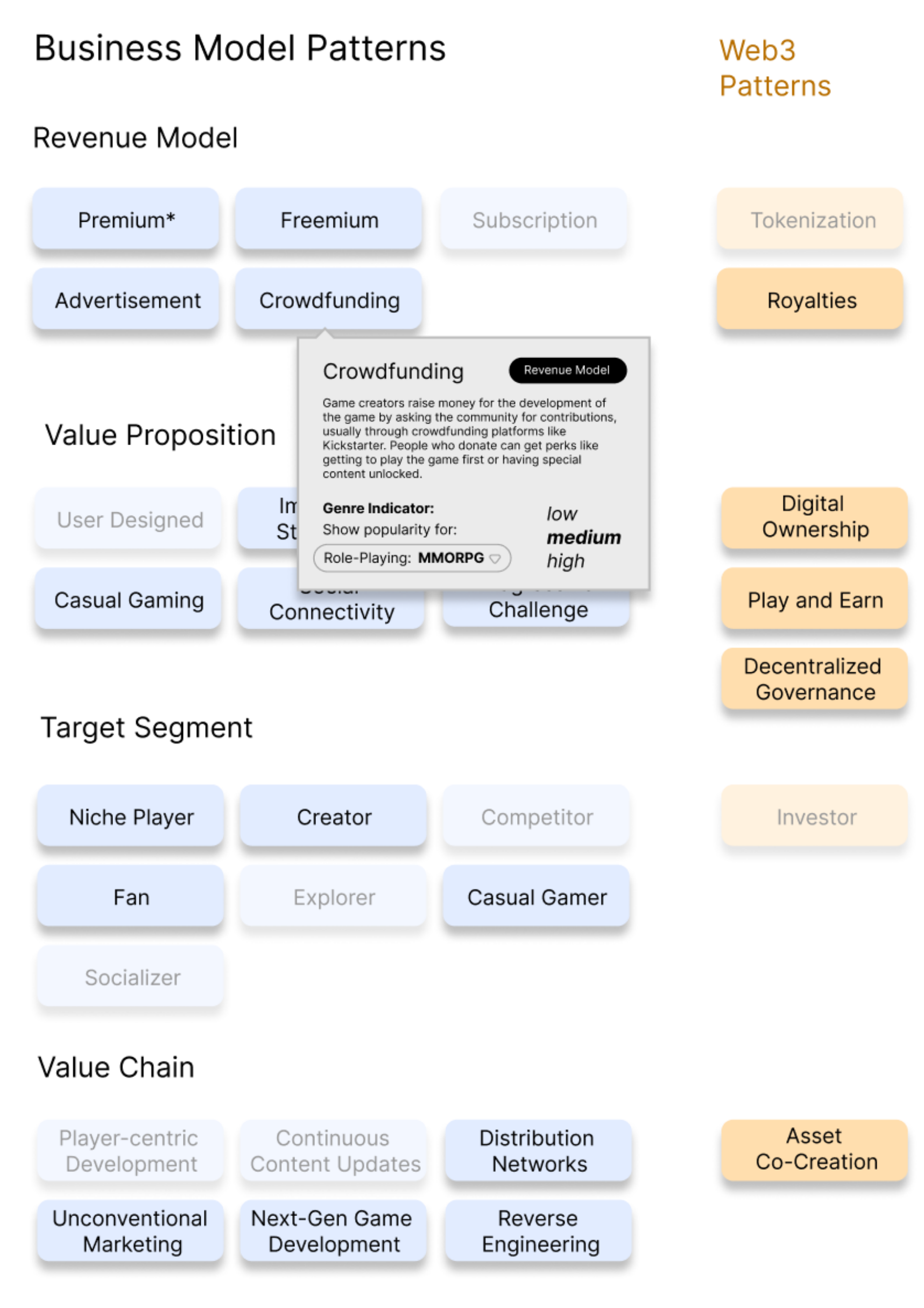
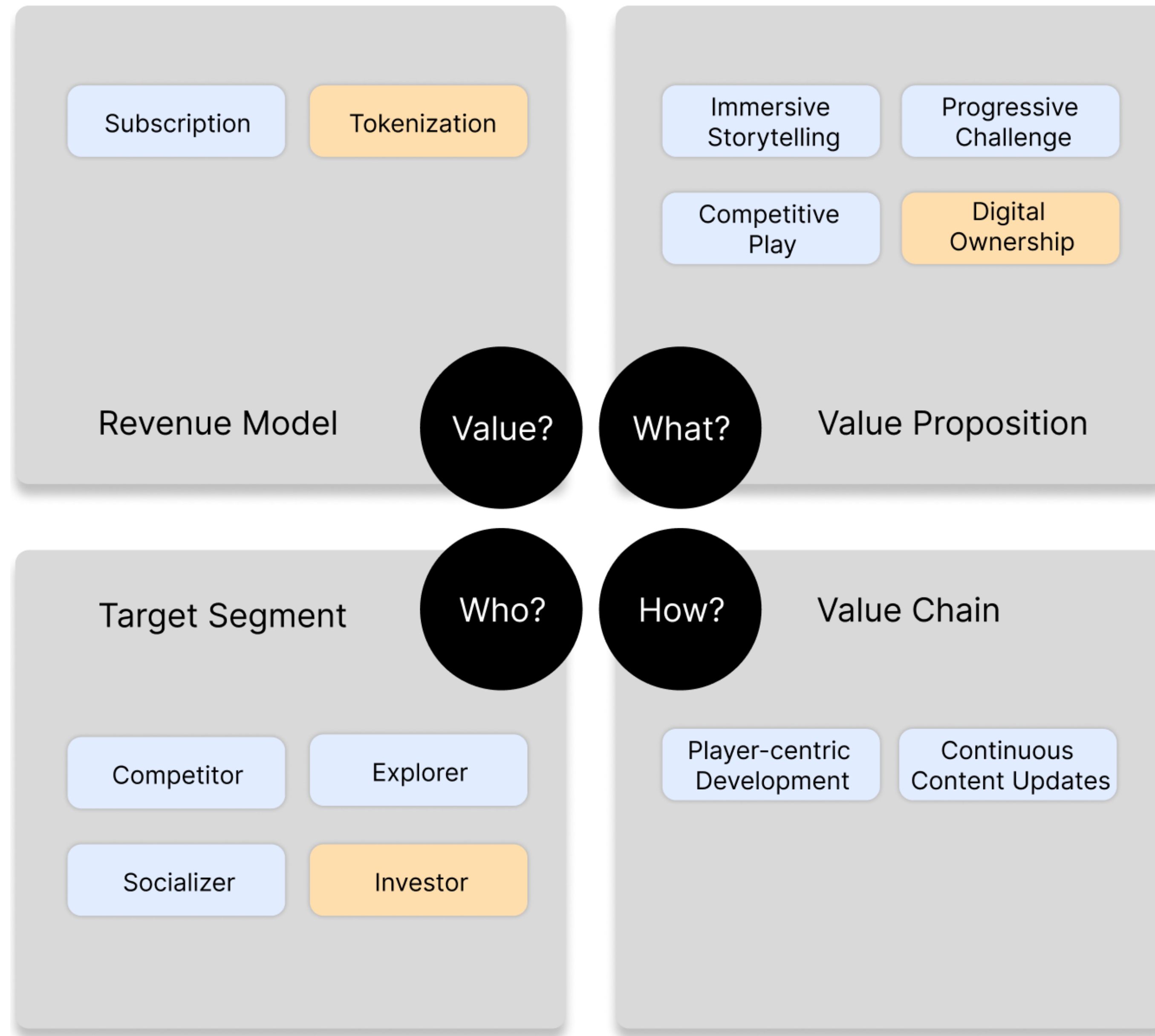
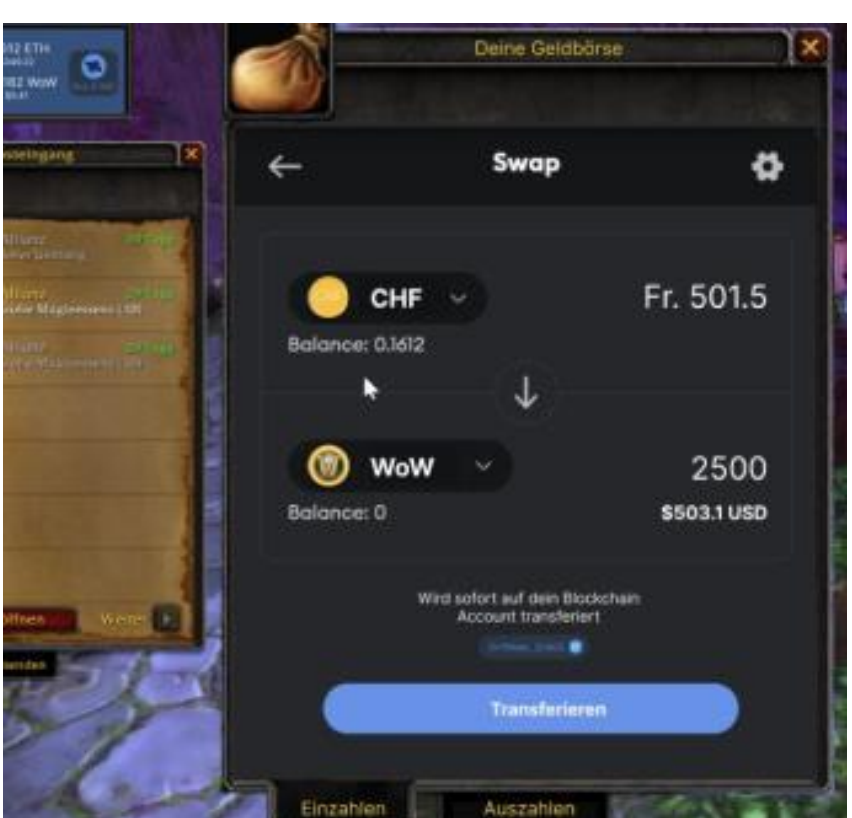
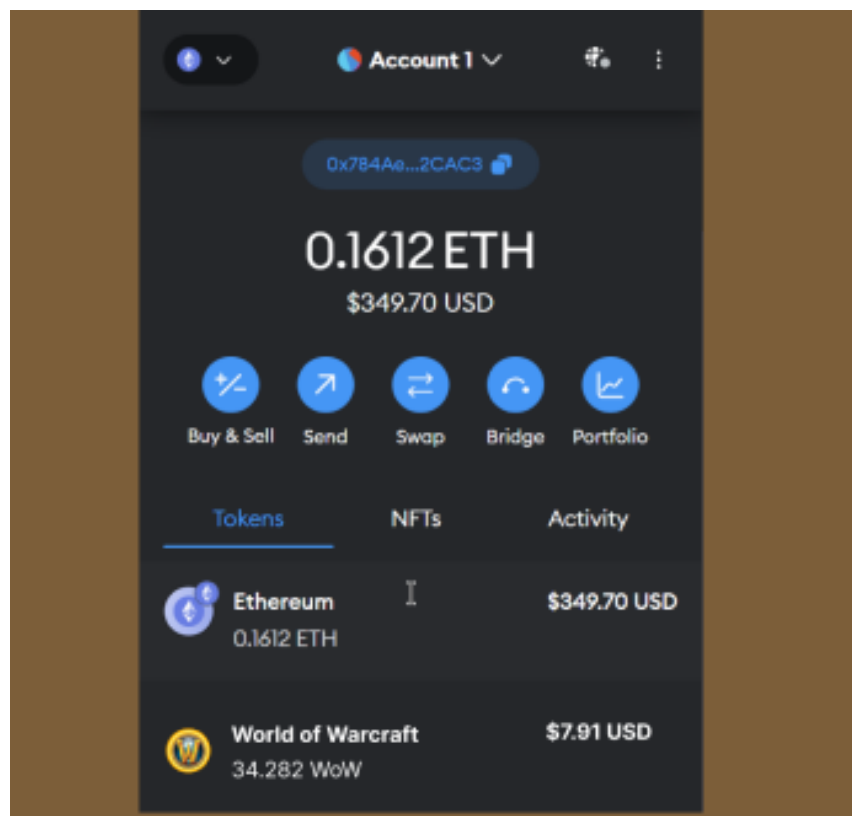


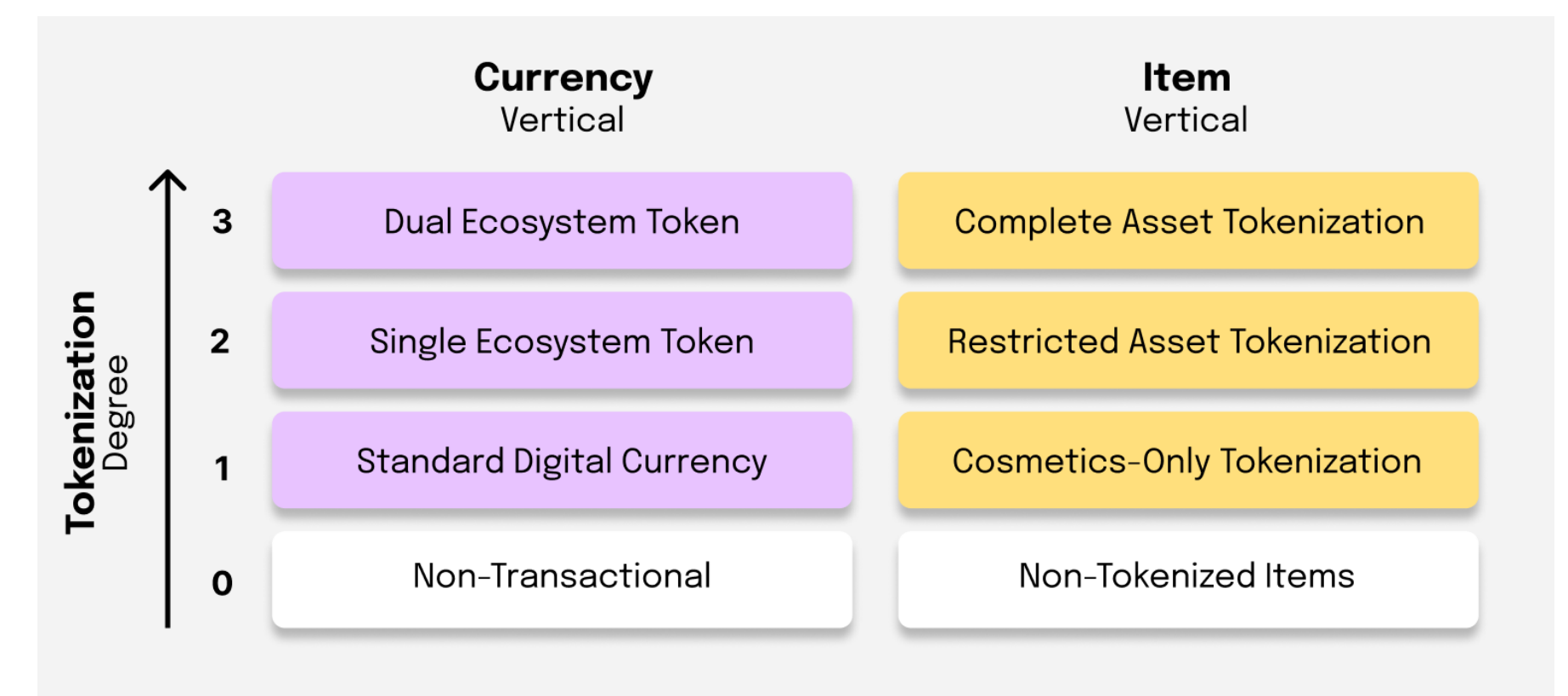
Master Thesis, Master of Science in Engineering

# Play to Earn: A Business Model Framework for Blockchain-based Gaming



Applied Business Model Framework for the case study with a blockchain-based World of Warcraft™ adaption

Snippets of prototypes created for the World of Warcraft™ case study



Tokenization Framework

## Problem Statement

The gaming industry, transitioning from traditional 'Pay-to-Play' to innovative 'Free-to-Play' models, now embraces blockchain technology, which offers new player engagement methods and monetization opportunities.

Blockchain integration in gaming introduces novel concepts such as digital ownership through NFTs, 'Play-to-Earn' models, and decentralized governance. However, challenges like balancing the 'fun factor' of gameplay with monetization strategies has been a significant hurdle. An overemphasis on earning potential with unsustainable economic models has led to a decline in player interest in popular Web3 games.

This thesis aimed to examine the industry's shift towards Web3 elements and to align the interests of investors and gamers.

## Solution Concept

The solution focused on the development of two frameworks: the Business Model Framework and the Tokenization Framework. These provide game publishers with a systematic method for designing their business models, offering a template that includes a range of patterns for each dimension and multiple degrees of tokenization.

## Results

The study recommends a balanced tokenomics approach that aligns with player preferences and enhances game mechanics. Key findings include a strong player opposition to 'Pay-to-Win' dynamics, highlighting the need for fair play and skill-based advancement.

Players showed a strong interest in the digital ownership of in-game assets, with a majority supporting the trading of cosmetic items.

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