



Product Requirements Document (PRD)

Project Name: CyberPunk: WildNet

Version: v1.0 (Initial Draft)

Last Updated: 6 July 2025

1. Purpose

CyberPunk: WildNet is an AR-driven real-world metaverse game that lets players remotely control drones to explore wildlife zones, discover virtual collectibles, interact with AI NPCs, contribute real conservation data, and earn crypto rewards.

2. Objectives

- Combine real-world drone piloting with immersive AR gameplay.
- Build a crypto token economy rewarding exploration & data contribution.
- Enable AI-driven NPCs (MCP Agents) to create dynamic storylines and tasks.
- Partner with wildlife reserves to deliver real conservation value.
- Monetize through NFT assets, mission expansions, and drone rental.

3. Target Users

- Drone hobbyists & FPV pilots.
- Gamers interested in AR & crypto.
- Wildlife & nature enthusiasts.
- Crypto earners & NFT collectors.
- Conservationists & eco-conscious tech users.

4. Key Features

Drone Control System

- Connect major consumer drones (DJI, Parrot, Skydio) via API/SDK.
- Live video feed + AR overlay streamed to mobile/web app.
- In-app drone controls: launch, fly, land, auto-return.
- Geo-fenced zones & no-fly zone enforcement.

Augmented Reality Layer

- AR overlay with wildlife data, hidden collectibles, NPCs.
- POIs: rare digital creatures, environmental scanning points, hidden caches.
- Dynamic weather & day/night cycles synced with real-world data.

Crypto Rewards & Tokenomics

- \$WILDNET ERC-20 token:
- Earned through missions, scanning, data uploads.
- Spent on drone upgrades, skins, mission unlocks.
- Tradable on supported DEXs.
- Smart contracts for NFT collectibles.
- DAO governance for community proposals & conservation funding.

MCP NPC System

- Model Context Protocol agents:
- Persistent context memory.
- Unique personalities: rangers, hackers, traders, black-market dealers.
- Available via AR overlays & chat interfaces.
- NPCs give quests, trade items, offer upgrades, or sabotage players.

Conservation Data Pipeline

- Missions designed to collect real environmental data:
- Animal sightings, plant health, habitat condition.
- Data verified and uploaded to partner reserves.
- Rewards given for valid contributions.

Marketplace & Rentals

- NFT marketplace for drone skins, rare scans, mission unlocks.
- Drone rental platform for players without hardware.
- Peer-to-peer trades & leases.

5. Milestones

- Concept validation & partner parks secured: 1-2 months
- Drone API + AR prototype (MVP): 3-4 months
- MCP NPC prototype (chat only): 4 months
- Token smart contract & testnet launch: 5 months
- Pilot program with early testers: 6-8 months
- Marketplace & rental system: 8-10 months
- Public beta & DAO setup: 12 months

6. Risks

- Legal drone operation compliance in multiple regions.
- Wildlife disturbance: strict zones & max drone flight height.
- Blockchain scalability & gas fee volatility.
- Community moderation & NPC content safety.
- Data privacy for drone video feeds.

7. Success Metrics

- # of daily active drone pilots.
- Unique wildlife scans uploaded.
- \$WILDNET token circulation & trade volume.
- Verified conservation data delivered.
- Partnerships with reserves & drone hardware makers.

8. Open Questions

- Which drone models to prioritize for first API build?
- Target pilot regions for initial test zones?
- Preferred blockchain (Ethereum L2? Solana? Polygon?)
- Early conservation partners for pilot program?

9. Next Steps

- Finalize hardware partners.
- Draft smart contract & DAO structure.
- Build alpha AR prototype.
- Secure initial wildlife reserve collaboration.

- Pitch deck & investor outreach.

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