

## Introduction

This document presents a visionary elevated modular city powered by sustainable technologies and coordinated by UrbanOS. The concept emphasizes decentralization, resilience, and integration of energy, water, and autonomous transport systems.

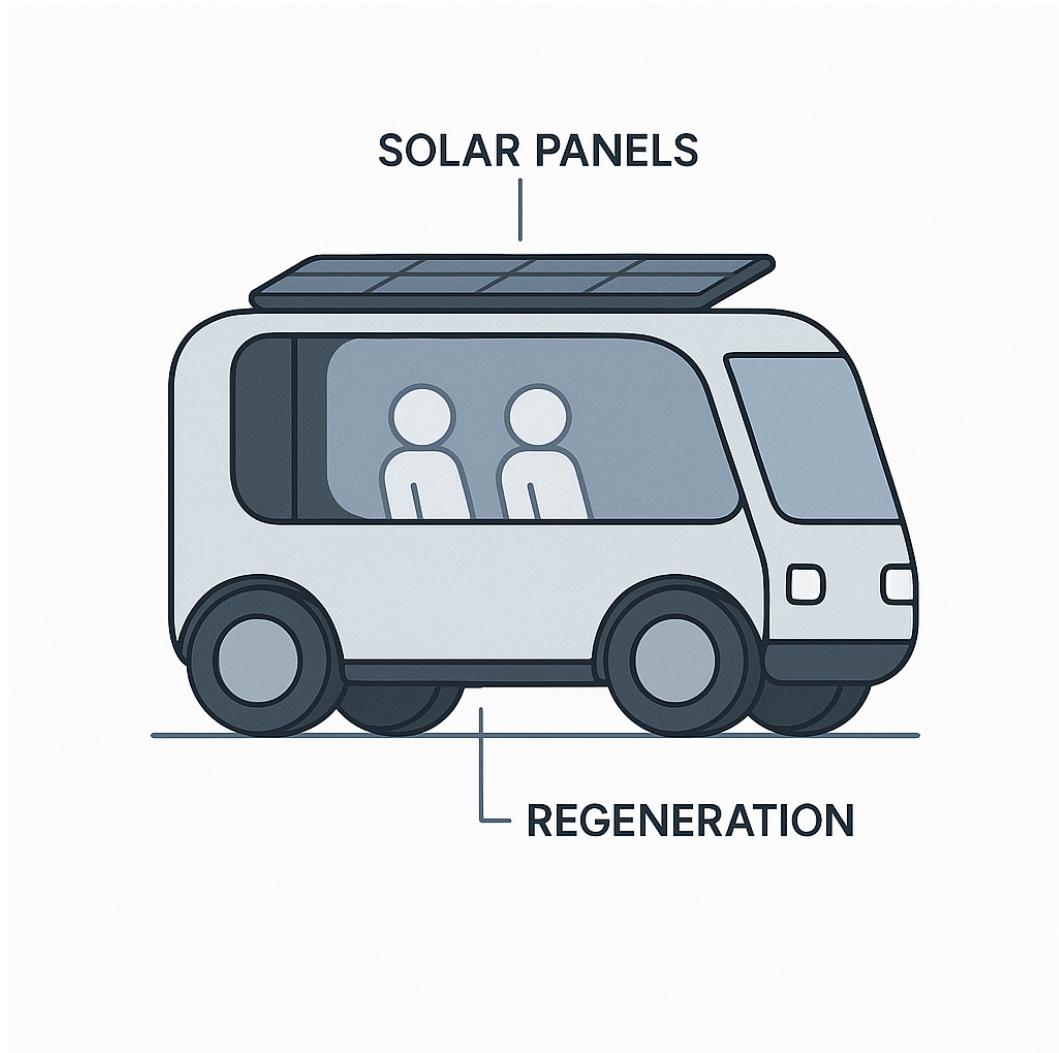
## City Platform Visualization

- Elevated modular platforms with 4 support pillars each
- Soft aerodynamic architecture for wind and aesthetics
- Greenhouses and residential zones separated for optimized climate and noise control
- Wind turbines and solar panels integrated under and above the plateaus
- Full autonomy through pod-based transport and modular infrastructure



## Autonomous Pod Design

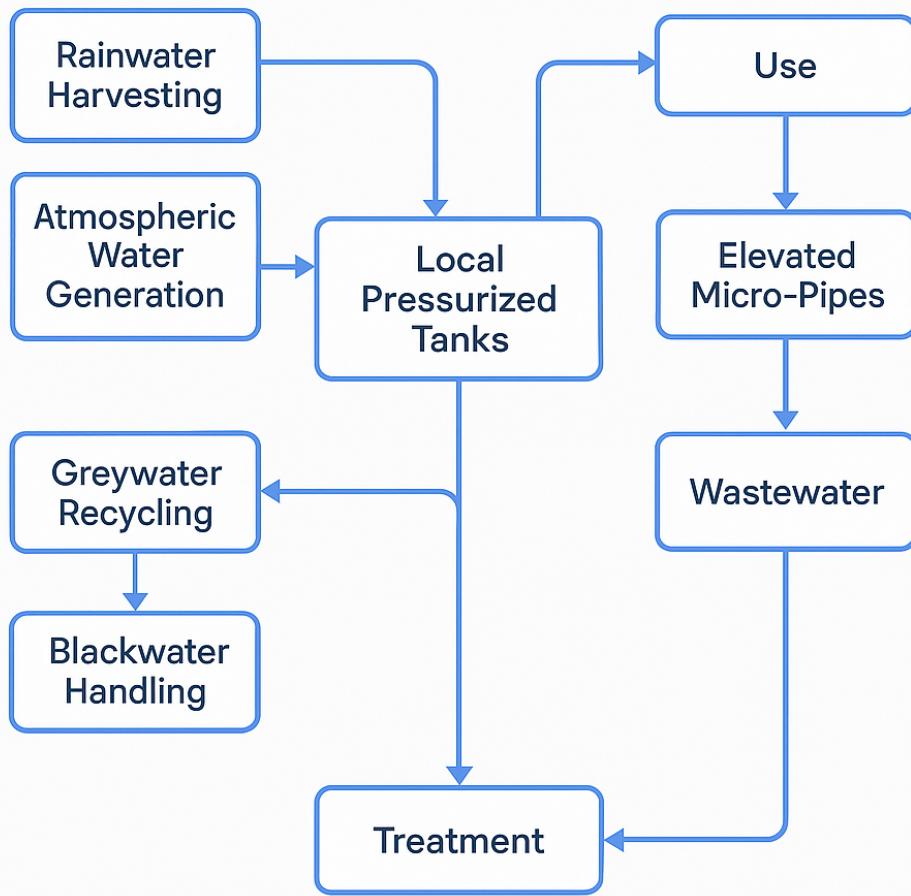
Pods sized like EUR-pallets (2–4 seats) run on 6-wheel configurations with solar panels and regenerative wheels. Modular pod trains can form and split on demand. UrbanOS handles routing, load balancing, and congestion control using its core routing engine.



## Water System Architecture

Water is supplied via atmospheric water generators, rainwater harvesting, and decentralized storage tanks. Greywater recycling and advanced composting systems handle wastewater, all managed intelligently by UrbanOS.

# Decentralized Water System



## Wind Turbines Under Platforms

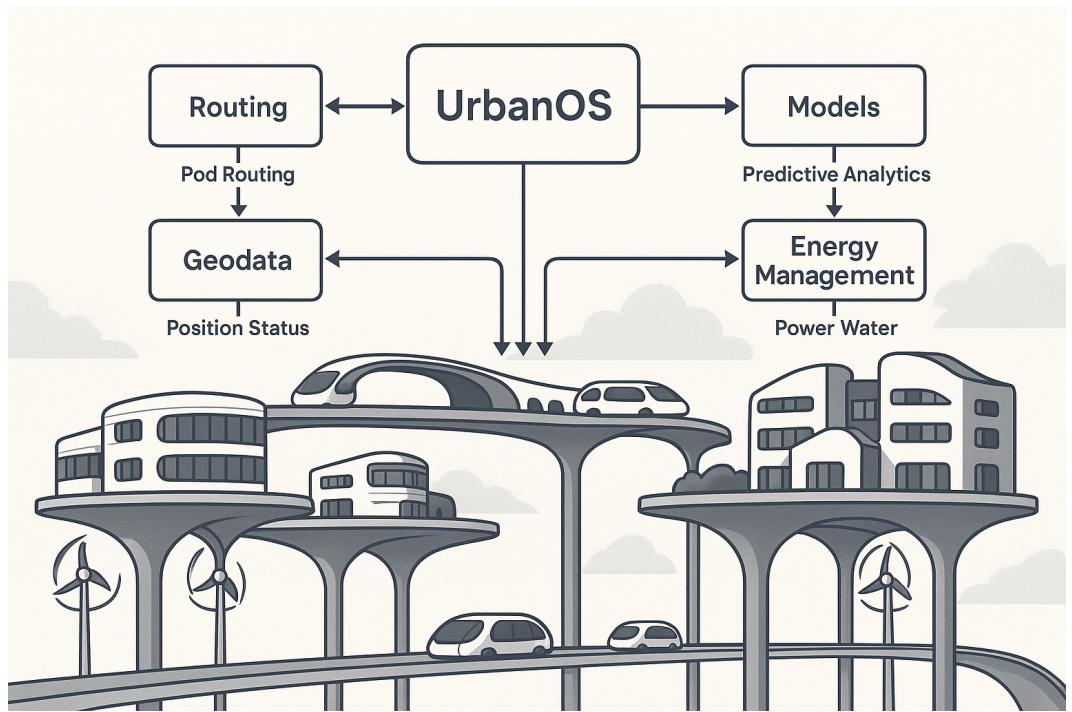
The city utilizes a combination of Liam F1-inspired spiral wind turbines and solar panels. These are mounted under the plateaus and along the transportation paths to generate clean, quiet energy. Smart batteries and energy routing allow for complete local autonomy.



## UrbanOS System Diagram

UrbanOS acts as the AI brain of the city, handling:

- Routing
- Energy management
- Predictive analytics
- Position tracking via geodata
- Flow optimization for power, water, and people



## Budget Estimate for 5 Plateaus

- Platform & Structures: \$50M – \$80M
  - Transport Network: \$3.5M – \$7M
- Total: ~\$53M – \$87M for a fully operational pilot city block.