

# Edenicity

Reference Design v. 0.31

**Purpose:** to abundantly support a US population of 545,000,000 and world population 10,000,000,000 while ending the 6th extinction.

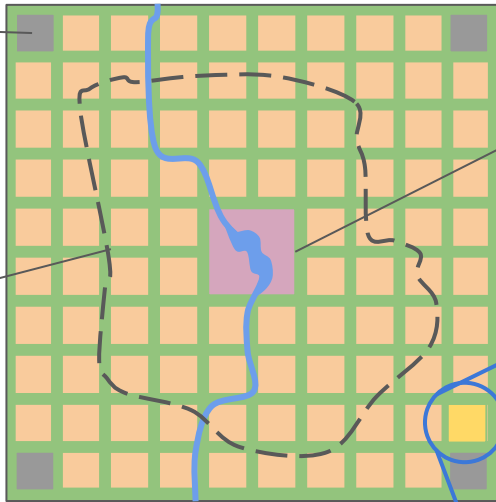
**Eden-i-city** (noun) 1. an eden-like city. 2. A measure of economic + ecological abundance.

**The City** Car-free. Food secure.  
~34 km across. 5,400,000 people.  
Grid varies by topography.

## Industrial District

Logistics, parking, warehousing, solar power, sewer, recycling. Zero-waste industry. Air, rail, road, hyperloop connections.

*I-270 loop for scale (Columbus, Ohio, ~26 km 880,000 people). Typical trip: 20-35 minutes.*



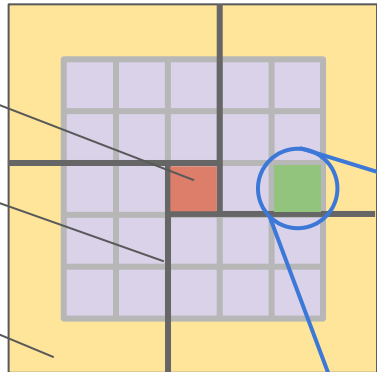
## Village Square with loop station.

Underground Loop Transit connects every village. Free, unmetered, on-demand, nonstop. Longest commute: 4 minutes to city center.

**Sheltered bikeways** with transparent photovoltaic roofs link all villages and towns.

**Permaculture Zone 3** (127m) Broadacre crops, food forests, animal grazing & browse, ponds

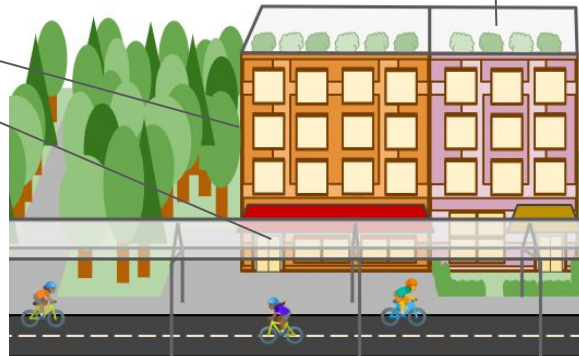
## Village (600m; 6,000 people)



## Townhouses

(~11m, ~12 people ea.)

- ~3 residential floors.
- Ground floor cafe, shop, etc.
- On-site energy storage.
- Sheltered bikeway.



**Permaculture Zone 1:** Aquaponic roofs

**Hyperloop** Connects cities. Average trip: 290 km, 17 minutes, \$13. Underground for durability, ease of permitting and to let habitats knit back together.

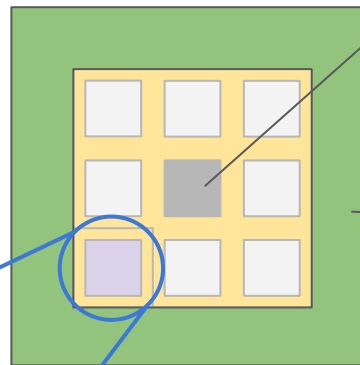
Edenic cities occupy 1.4% of the land.

**Permaculture Zone 5:** wilderness occupies 98.6% of the land in conservation trusts. Restoration of wetlands, forests and grasslands sequesters carbon 4x faster than global per capita emissions.

**Downtown** 6.8 km. 432,000 people. Loop/Hyperloop stations, high-rise buildings, universities, hospitals, archives, offices, convention centers, arenas, parks, museums, shopping.

**Town** 2.7 km; 54,000 people, 8 villages plus a

Town center with schools, parks, medium-rise buildings; ≤10 minutes by foot+bike from every door.



**Permaculture Zone 4: Managed Woodlands** (760m wide) Wide range of forest products. Fire-resistant species. Water-buffering earthworks. Recreational trails.

**Block** (120m; 250 people)



**Permaculture Zone 2:** Orchards, hedges, varied amenities (e.g. 50m natural lap pool, picnic shelters).

Footpaths

480 bike lockers along sheltered bikeway