# What is Outerim?

Outerim is an edge compute marketplace that connects buyers needing low-latency AI inference and IoT processing with providers offering idle compute resources at the network edge. These resources include 5G towers, micro data centers, routers, and edge servers distributed across global regions.

## How It Works

**For Buyers:** Submit jobs specifying compute requirements (TFLOPS), latency constraints, energy preferences, and budget. Our matching algorithm finds the optimal edge node based on a composite score of latency, energy efficiency, and cost.

**For Providers:** Register edge nodes with their capacity, location, energy mix, and bid price. Earn revenue when your nodes are selected to run jobs. The more competitive your pricing and the better your energy profile, the more jobs you'll win.

**Matching Algorithm:** Each node receives a score calculated as:

```
score = α×(1/latency) + β×(1/energy_cost) + γ×(1/price)
```

where α, β, and γ are adjustable weights (default 0.4, 0.3, 0.3).

## Regional Advantages

Different regions offer varying benefits. EU Central typically has lower carbon intensity thanks to renewable energy. AP Northeast offers ultra-low latency with dense 5G infrastructure. US regions provide balanced cost and performance. The platform automatically factors in regional energy prices and carbon footprints.

## Revenue Model

Outerim takes a 15% commission on each transaction. Buyers pay for compute time based on TFLOPS × runtime × node bid price. Providers set their own bid prices per GFLOP, creating a competitive marketplace that naturally optimizes for efficiency.

**Demo Notice:** This is a simulated marketplace running entirely in your browser. All data is mock, but the concept and matching logic reflect a real edge compute brokerage system.