

A topographic map of a coastal region with a network of orange nodes and lines overlaid. The nodes are placed at various points along the coast and inland, connected by a dense web of lines, suggesting a communication or supply network. The map shows contour lines, rivers, and a coastline with several islands.

The Straddie Thought Experiment

From Shared Meals to Sovereign Mesh:
Proactive Island Resilience in an Era of
Global Supply Shocks.

Global Shocks Create Local Bottlenecks

Chain Reaction



Global Shock: Geopolitical instability (e.g., Iran conflict) threatens global energy markets.



The Ripple: Fuel prices spike, multiplying freight costs.



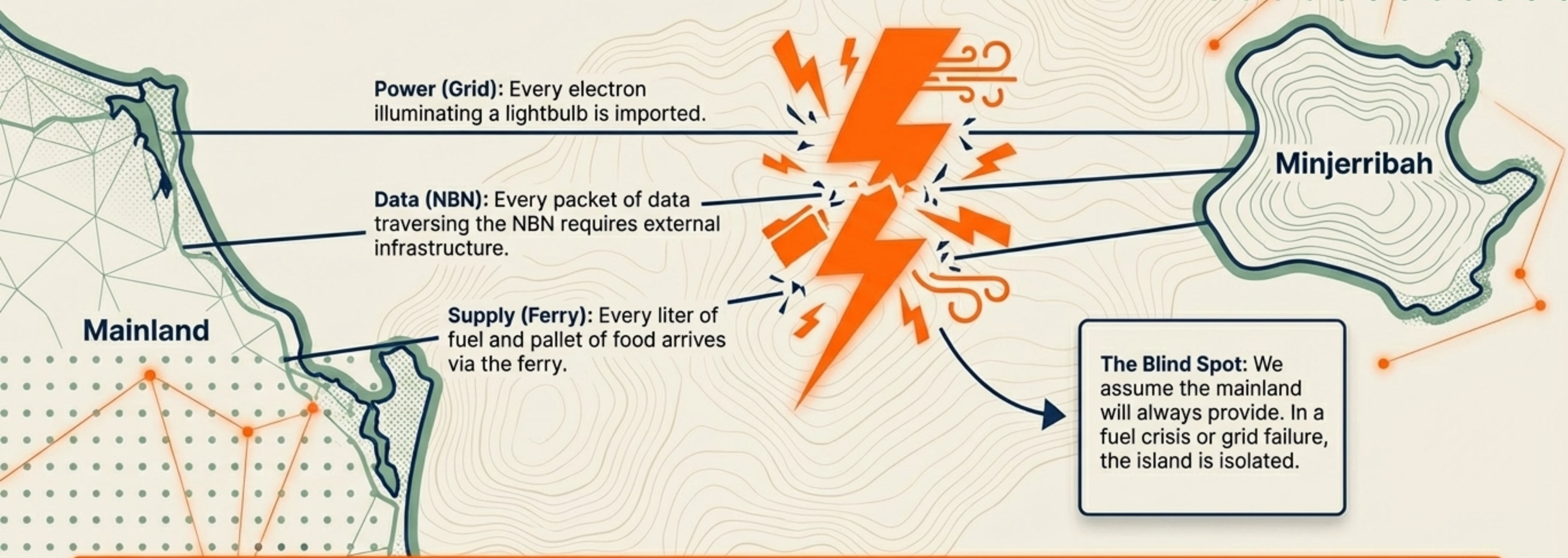
The Choke Point: Ferry operational costs surge; crossings become restricted.



The Local Reality: Groceries go up. Island life feels the squeeze fast. Worries of fuel and food rationing become real.

When transport costs rise, the whole system tightens. Proactive planning beats reactive panic.

The Fragility of the Mainland Tether



If the tether is severed, or restricted by rationing, how do we coordinate, feed, and protect the island?

Resilience Begins at the Kitchen Table



Homes First: Start where trust lives. A kitchen table does more than a committee room.



Share What's Easy: Lemons, a spare plate, or 20 minutes. No heroics required.



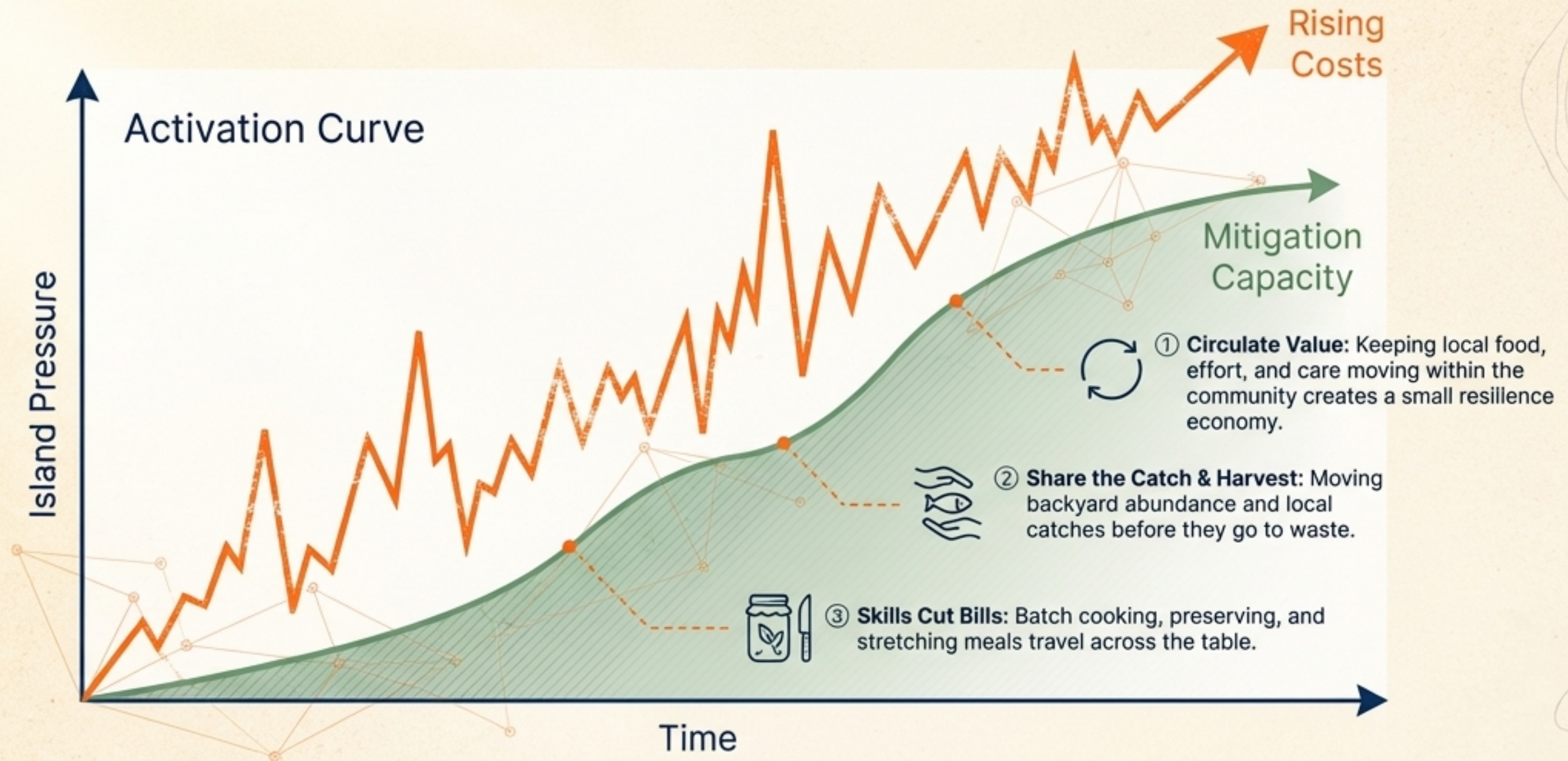
Parks Second: Neutral, casual, low-cost spaces for broader connection.



Dignity, Not Charity: Respectful reciprocity without shame.

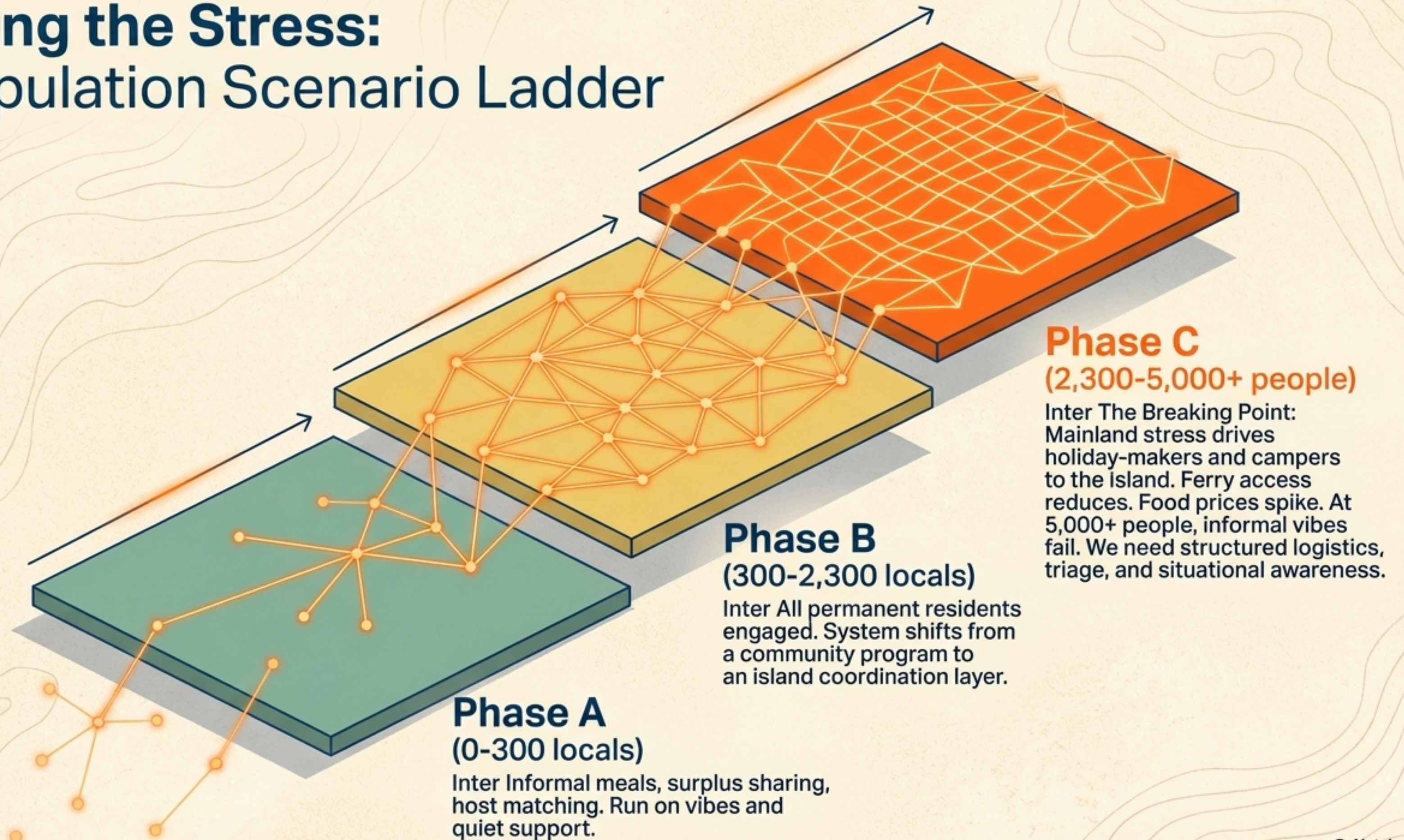
You cannot build a crisis network on the day of the crisis. A shared meal is the lowest-friction way to map local capacity.

Mitigating the 'Food Follows Fuel' Squeeze

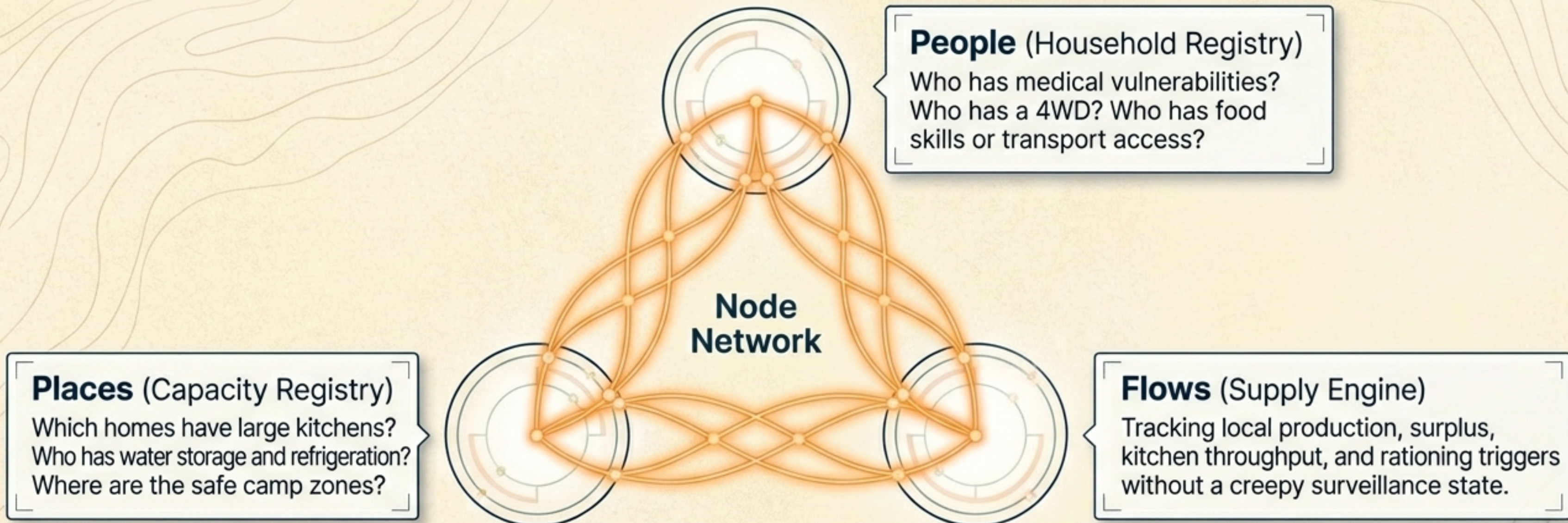


As fuel jumps, food follows. Instead of waiting to get squeezed, we organize. Local sharing isn't anti-business; it keeps value circulating here.

Scaling the Stress: A Population Scenario Ladder



Evolving from Informal Sharing to an Island Resilience Mesh



Design Principle: Centralize Visibility, Decentralize Action.
Data is island-wide; action happens locally in neighborhood pods.

The Gumpi-Node: Cyber-Physical Hardware for Survival

HARDWARE EVOLUTION



1. PARTS & CODE



2. WOODEN PROTOTYPE



3. FINAL HARDENED UNIT



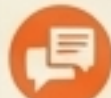
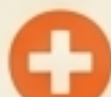
DUAL-USE INTERFACE MODES

ONLINE / NORMAL DAYS

-  Tourism Wayfinding
-  Bus Tracking
-  Community Calendars
-  Digital Art

Dual Use (Abundance Stack): Normal days feature tourism wayfinding, bus tracking, community calendars, and digital art (**Mains Power / High Compute**).

OFFLINE / DISASTER

-  E-ink Displays
-  Offline Maps
-  Local Message Boards
-  Emergency Triage

Dual Use (Survival Stack): Disconnects from the grid. E-ink displays, offline maps, local message boards, and emergency triage (**Low Power / Battery**).

Resilience should be joyful. If it's used every day, it works when disaster strikes.

A Sovereign, Offline-First Communications Mesh



The Problem

When the NBN goes down, smartphones become glass bricks.

The Solution

LoRa (Long Range) Meshtastic radio networks. A decentralized nervous system bypassing the internet. Encrypted messages hop from node to node across the island's hilly terrain.

The Local Bridge

The kiosk acts as a local Wi-Fi beacon. Connect your phone directly to the kiosk to access offline maps, send check-in messages, and coordinate resources.

Virtual Minjerribah: Simulating Island Stress in 4D

Food Stress



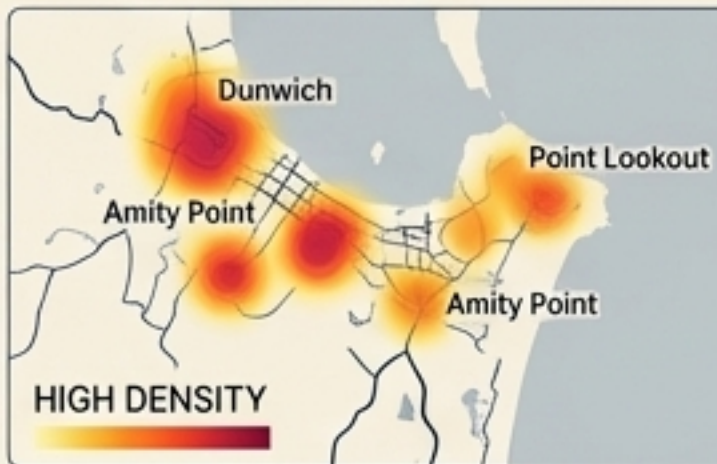
CRITICAL SHORTFALL: 15%

Transport Bottlenecks



FERRY DELAYS: 2+ HOURS

Occupancy Heatmap



Situational Awareness

A real-time sandbox for area coordinators. Data synchronizes via Conflict-Free Replicated Data Types (CRDTs) to guarantee truth without a central server.


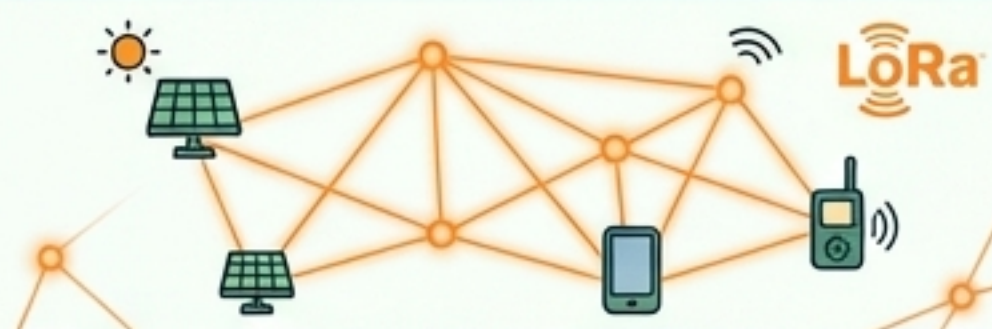



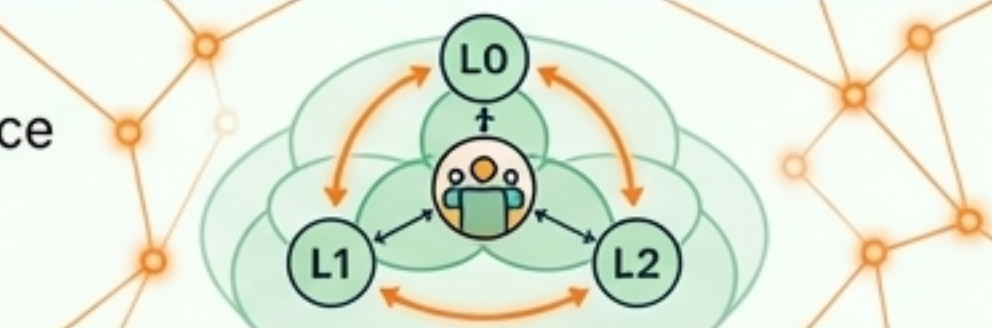
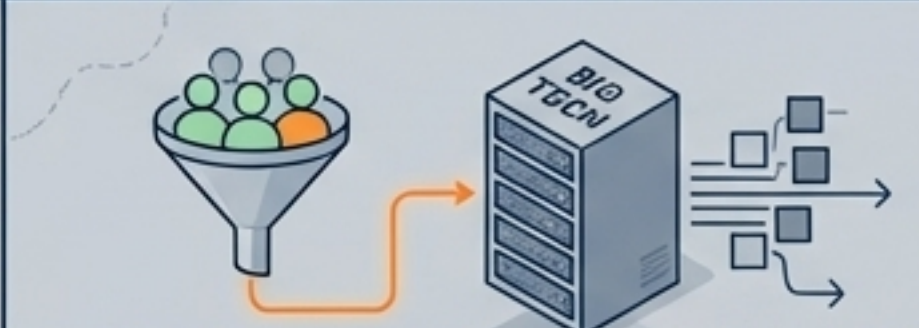

The Simulation Engine

Allows planners to ask, "What happens if the ferry schedule is cut by 50%?" The engine simulates host burnout, food shortfalls, and camp overflow before they happen.

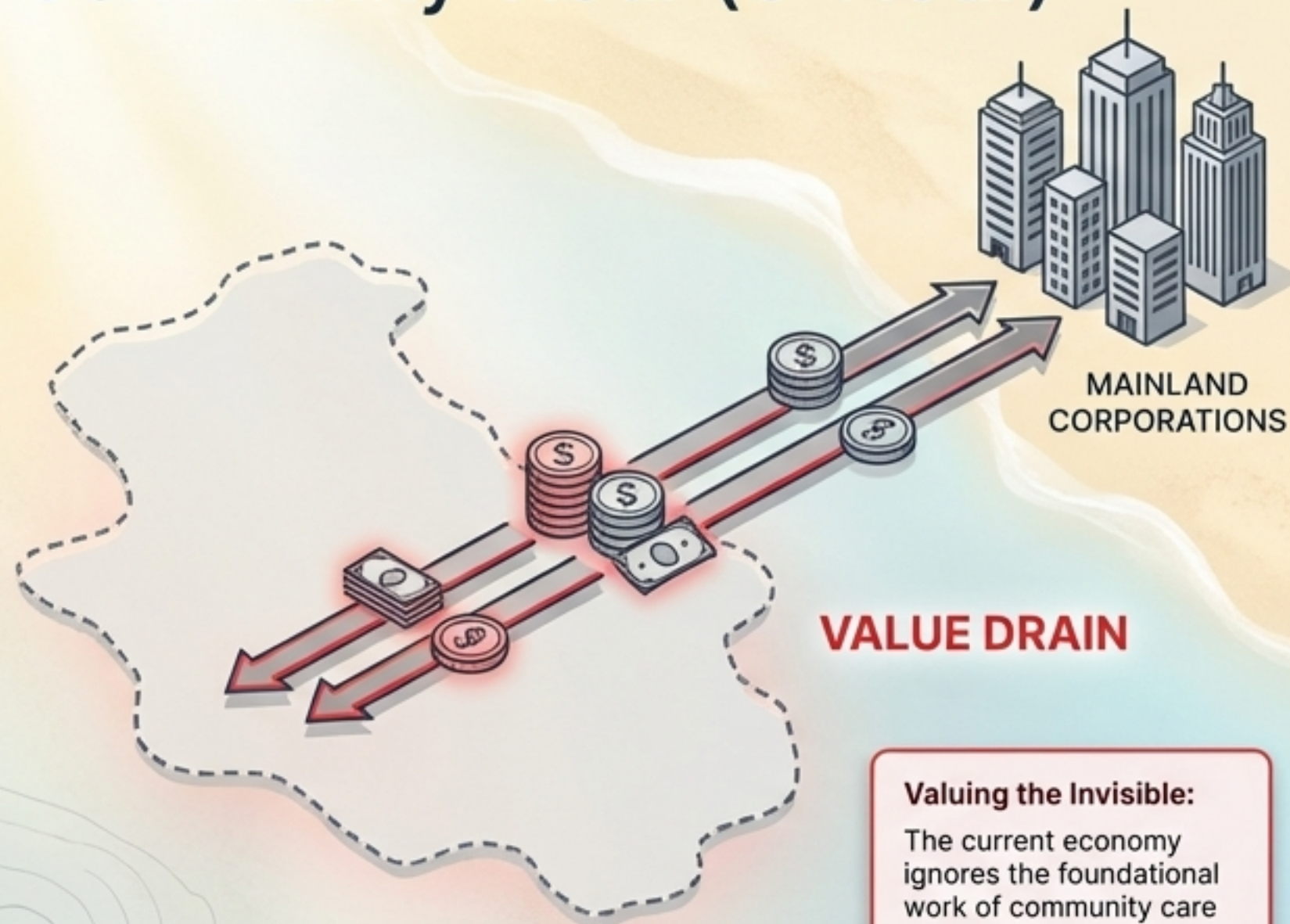
Data Sovereignty

Run locally on the Sovereign Nodes. The community owns the data, not a third-party tech giant.

Centralized Fragility versus Sovereign Antifragility

	Centralized Fragility	Sovereign Antifragility
<p>Communications Dependent on NBN and cell towers.</p>		<p>Offline-first LoRa Meshtastic network.</p> 
<p>Food Supply Supermarket and mainland-freight dependent.</p>		<p>Mapped surplus, local production, and shared tables.</p> 
<p>Emergency Coordination Waiting for state government/mainland repairs.</p>		<p>Fractal, local governance (L0 to L2) with distributed routing.</p> 
<p>Data Ownership Extracted by Big Tech and central servers.</p>		<p>Owned by the community via Decentralized Identifiers (DIDs).</p> 

Braiding the Economy with the Community-Hour (C-Hour)



Valuing the Invisible:
The current economy ignores the foundational work of community care and ecological stewardship.



The C-Hour Receipt:
A non-speculative digital asset. 1 hour of verified community contribution (e.g., cooking a shared meal, maintaining a mesh node) = 1 C-Hour.

The Reward Loop:
Redeem C-Hours at Kiosks for local VIP events, well-being programs, or ferry transit.

Transforming civic engagement from a cost into an economic opportunity.

Synthesis: The Straddie Sovereignty Stack

Tech fails without trust.
Trust scales with tech.

Top Layer: The Software Layer (Intelligence)

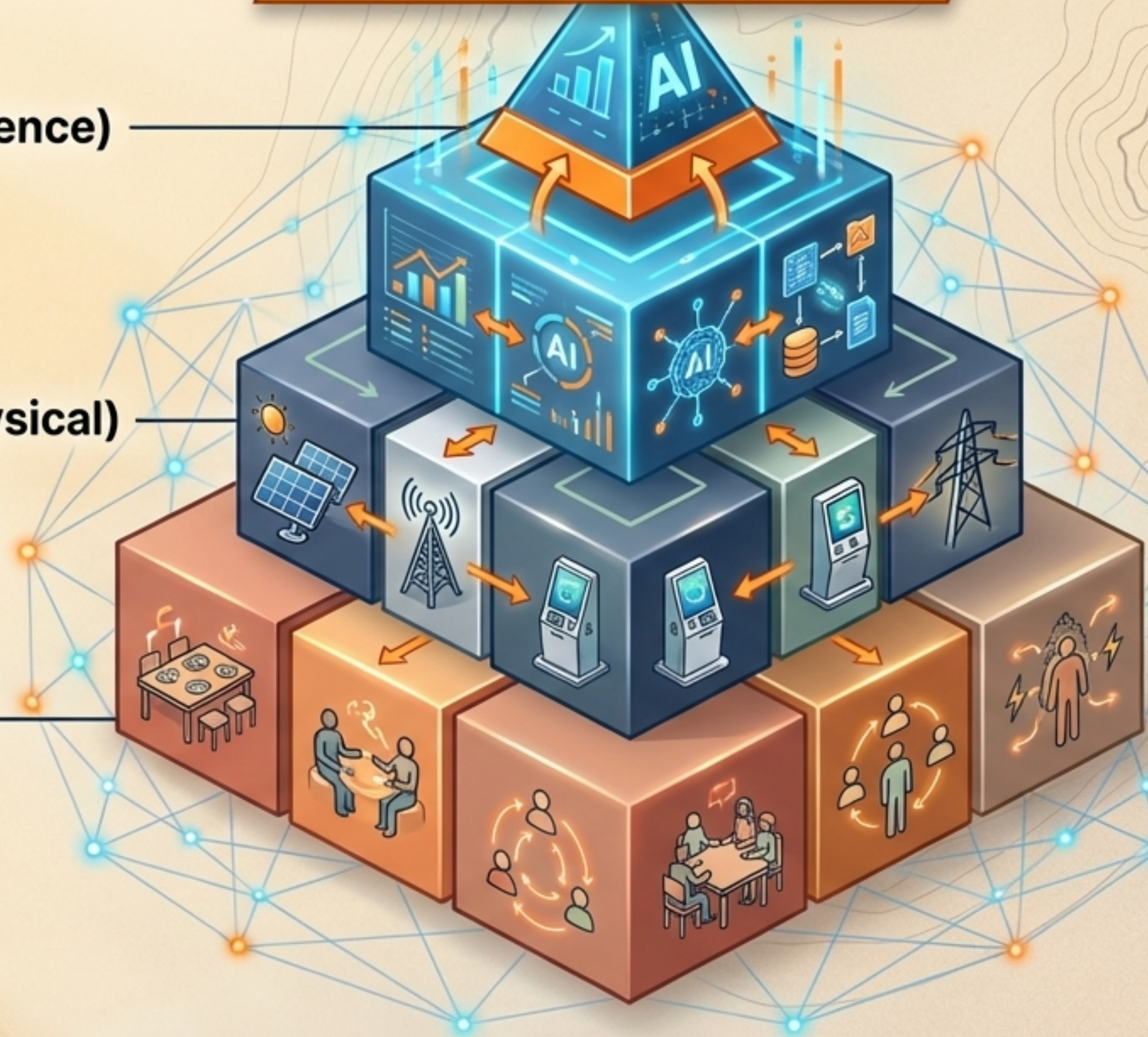
Virtual Minjerribah and the Braided Economy.
Predictive modeling, resource routing, and data sovereignty.

Middle Layer: The Hardware Layer (Physical)

Gumpi-Nodes and Solar-Punk kiosks.
Off-grid power, mesh comms, and physical anchoring.

Base Layer: The Social Layer (Trust)

The Straddie Shared Meals.
Building relational capital and mapping human capacity.



The Builder Roadmap: From Shed to Shore



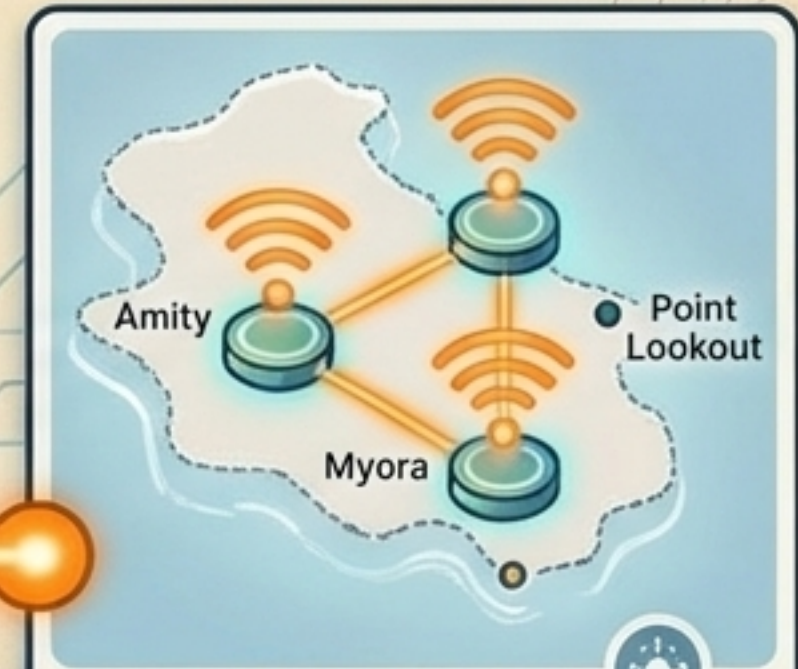
Phase 1: The Wooden Prototype (Months 1-3)

Start small. Arcade cabinets, Raspberry Pis, and community hack-days in Dunwich Hall to validate the software stack.



Phase 2: The Alpha Unit (Months 4-6)

Hardened, weather-proof enclosures (repurposed phone booths). Real-world stress testing deployed at local host businesses.



Phase 3: The Beta Network (Months 7-12)

Multi-node mesh across Amity, Myora, and Point Lookout. Conducting "Grid-Down" communication simulations.

Start Small. Start with One Table.

We don't need to organize everything everywhere at once. We don't wait for perfect conditions. Big systems that last begin with small things that work.

Step 1: Join the Shared Meals network. Host a table, share your harvest, and build baseline trust.

Step 2: Join the "Straddie Mesh Builders" — bring your coding skills, spare parts, and ideas to the next meetup.

**Let's make the
next meal count.**

(Scan to join the Signal Group)

