

# Brake & Turn Companion 02 — Parallel Path Strategy

Version 1.0 — November 2025 • Public Domain (CC0)

A reference blueprint for implementing symbiotic AI infrastructure in local, civic, and cooperative contexts.

## Strategy at a Glance

**Goal:** Build viable, lawful, open alternatives beside incumbent AI systems so people can choose symbiosis now—not after regulation.

**Principles:** Local-first. Open by default. Human-in-the-loop. Energy reciprocity. Interoperate; don't isolate.

## Core Patterns

**P1. Edge + Microgrid Nodes** — Local inference servers powered by microgrids or community solar; keep compute close to the people it serves.

**P2. Federated Co-op Labs** — Shared training/inference clusters; data stays local, only model deltas federated.

**P3. Open-Policy Procurement Tracks** — Civic RFP paths requiring Brake & Turn compliance (Procurement Rider + Living Checklist).

**P4. Public Knowledge Shields** — Public archives, verification workflows, and model/dataset cards for transparency.

## Phased Rollout

**Phase 0 (0–7 days):** Pick 1 pattern + host team, set up disclosures, baseline checklist.

**Phase 1 (8–30 days):** Deploy MVP nodes, sign MOUs, publish scorecards.

**Phase 2 (31–90 days):** Federate, launch open RFP track, publish alignment report.

**Phase 3 (90–180 days):** Expand nodes, connect to green-burst cloud, perform external audit.

## Governance & Legal Guardrails

Maintain a **Human-in-the-Loop Charter**.

Uphold **Consent & Data Rights**, including deletion on demand.

Maintain **Incident Escalation Protocols** (24/48-hour response).

Guarantee **Community Benefit ≥1%** of surplus toward training or energy access.

(*All templates released CC0. Use and adapt locally.*)

## Technical Recipes

- R1. Local Inference Gateway:** edge-first routing, fallback to larger model only when needed.
- R2. Federated Training Sprint:** lightweight model updates across 3+ local nodes.
- R3. Energy Telemetry:** open dashboards showing PUE, WUE, and renewable mix.

## KPIs (Track 3–5 to Start)

- % Requests served locally vs. cloud burst
- Energy mix (% renewable) and PUE
- Median latency and error rate
- # Human approvals per 1,000 decisions
- Quarterly Living Checklist score

## Risks & Mitigations

**Shadow IT / Security drift:** Use Infrastructure-as-Code and versioned change logs.

**Model overreach:** Enforce decision scopes and human fallback.

**Cost creep:** Local-first routing, burst policies, green credits.

**Governance capture:** Public minutes, term limits, rotating leadership.

**PR pressure / hype:** Publish working demos, not promises.

## How to Contribute

- Fork the repository and add examples under /examples/<org>/<pattern>/.
- Submit a PR adding your case study.
- Or share via the Feedback page.

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Scan resources → <https://cc2397.github.io/brakeandturn/companions/parallel-path-strategy/>