

Brake & Turn Companion 02 — Parallel Path Strategy

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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** $\geq 1\%$ 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/>