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ENabling LARGE-scale adaptive integration of technology hubs to enhance community resilience through decentralized urban food-water-energy nexus decision support

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Goals

- Develop decision support tools for urban FWE nexuses
- Screen and Optimise FWE technology hubs integration
- Generate a suite of water, carbon and ecosystem services indicators
- Increase urban resilience, reduce risk

Approach

- Distributed and agent-based modelling
- Multi-scale urban metabolism models
- Sustainability indexes, life cost-benefit analysis
- Social equity assessment and community resilience metric
- Multi-criteria assessment, Optimisation
- Generate scenarios from strategic plans of cities

Case Study Cities

← Amsterdam

← Miami

← Marseille