## A Road Map to the Dynamic City:

RAO / DAVIDSON DESIGN & PLANNING **RAO/D CITYWORKS** 

DYNAMIC CITIES PROJECT www.dynamiccities.org

2006 Bryn Davidson - Rao/D Cityworks - developed for the Dynamic Cities Project

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A process model for integrating the impacts of climate change and energy depletion into community and regional planning. **Transparency & Shared Vision for a Political Dialogue 2: Dynamic City: Political Dialogue 1: Scenario Dialogue: Energy Literacy: Preferred Future** Feedback: **Leadership & Action Climate Change, Energy Kick-Start Local Decision** Future(s) Thinking **Security & Cities** Explore 4 Future Scenarios with **Makers:** A Real-World Set of Posi-**Higher-Order Goals Emerging Risks & Opportunities Integrated Vision & Goals:** Long Term + Short Term decision makers & community Transparent Government Leaders Depletion and Climate Change as tive Changes Bold Vision + Hard Targets Local: Leadership Integrated Energy and Sustainability Unprecedented Challenge Community & Cultural Leaders Accessible Vision for all sectors/departments Municipalities Opportunities Precedents Business Leaders Dialogue initiated by "Insider" or Communication: **Potential Impacts and Responses** "Change Agent" **Engaged Business Community** Examples & Regions Policies Vision & Values & Processes Engaged Religious/Social/Enviro (Prioritized by ability to mitigate \* 'Official' Energy Security & \* Resolution Climate Change Report \* Task Force \* Narrative Scenarios **Targeted Communications &** \* Funding Consultation \* Action Proposals **Scalable Solutions Resilient Cities:** Plans and Policies **Proactively Mitigating Risks Environmental Fiscal Reform Local Planners: Change Catalysts** Design / Planning Professionals Media & Communication Oil/Gas Depletion & **Regional Macro-Scenarios: Local Mini-Scenarios: Regional Energy** Pilot Project Facilitation **Investment Advisors Energy Transition: Alternative Systems:** 20 - 50 yr. Energy & Sustainabil-**Shocks, Crises & Climate Change Literacy: Organizational Change Agents Supply-Side + Demand Side Capacity Building** ity Transition **Dynamic Responses** Translate Global Research to Locally **Regional Emissions Audit** Relocalization: Shifting Local/Global Mix **Performance Metrics Adaptive: Relevant Communication Package** Regional Energy Vulnerability Audit Major Themes & Decisions Government, Business, Community Passive Survivability **GHG** Emissions Budget **Iterative Planning** Regional Depletion/Imports Model **Regionally Specific** Narrative and Graphic Illustration Knowledge Networks Local Depletion Model 'Animates' Variables from Energy Model Translate for Local Audiences: Gov't, Potential Local Impacts of Depletion **Timelines & Mitigation Proposals Catalyst Organizations** Capital Projects - Scalability Wedges Potential Supply-Side Wedges **Contingency Plans** Business, Community, Academia Political / Social Impacts of Choices Local Manufacturing Capacity Building Domestic vs. Imports **Resilient Investments** Potential Demand-Side Wedges **Multi-Stakeholder Process** Local Currency Adapting Existing for Lower Demand Mainstream Support for Niche **Alternatives Risks & Vulnerabilities: Contingency Plans: Crisis Types, Impacts & Priorities Responding to Crises Energy Crises Rapid Response Plans** i: Rapid Price Rise Saving Energy in a Hurry II: Shortage Evacuation **Global Researchers** III: Extended Shortage Rationing **City as Global Citizen:** IV: Serious Shortage Oil/Gas Depletion & V: Systemic Collapse **Global Compendium: Suc-Network: Regional Energy Model Energy Transition Scenarios Networked Success Stories Climate Change Research:** - Template: - Template: cessful Municipal and Advocate for Global Accords **Medium Term Responses Global:** Peak Oil / Climate Change NGOs **Regional Actions Climate Crises** Scientific and Technical Studies Global Production / Depletion Models Scenario 'Toolkit' Sustainability / Smart Growth NGOs **New Organizations** Demand: Reduction vs Destruction Analysis & Debate Free-Market vs. Non-Market Supply **Provinces** Migration / Relocation i: Tangible Impact Policy / Planning Compilation and Communication Supply: Clean vs Dirty II: Transient Extreme Urban Triage & Nations Potential Mitigation Strategies Potential Supply-Side Wedges III: Sustained Extreme Rationing Potential Demand-Side Wedges IV: Baseline Shift Ranking System Narrative and Graphic Illustration V: Systemic Collapse Web Tool Sample Templates by Region **Political Responses Global Decision Other Dynamic Crises** Health / Disease / Food Crisis Driven Legislation Security / War / Terrorism New Priorities **Makers:** Economy / Jobs / Currency Decision-maker pre-education **Energy Transition Dia-Global Accords, Policies & Actions: Global Scenarios:** Peak Oil / Climate Change NGOs logue: Sustainability / Smart Growth NGOs 4 Futures: Conferences 'Burnout' Reports 'Techno-Markets' Web 'Lean Economy' News/Media 'Petro-Collapse Books