What Solution Space is Appropriate?

* A context sensitive blend of “green and gray infrastructures” is the solution set that effectively fosters the wellness and wellbeing of people who live in shrinking neighborhoods.

What Influence Diagram or Model is the Community Using?

* Shrinking neighborhoods:
  + are characterized by vacant lots, decrepit and abandoned residential and business units, and aging infrastructure;
  + Threated the wellness and wellbeing of residents.
* Asset owners use a “growing neighborhood” model for designing and financing infrastructure improvements;
  + The critical assumptions are that the tax base will always increase, and that spatial demand for lifeline infrastructures will be uniform;

DECISION MAKING

(1) Useful models are simplifications

(2) Useful models can and do contain many false, non-critical assumptions

(3) Critical assumptions must be true, or the model can not be useful

* + Shrinking neighborhoods are places where the critical assumptions are false -
    - The tax base will not increase, and spatial demand will be spotty.
* Atlanta faces additional challenges:
  + Gentrification and involuntary displacement;
  + Jobs follow people.

Rules of Thumb

1. Manage the Values:
   1. Civic leaders must be responsible to broader community -
      1. Foster the vertical and horizontal transmission of norms of behavior;
   2. Sustain citizen-scientists must work in 4-domains
2. Manage the institutions:
   1. Infrastructure is a means to ends, not an end unto itself:
   2. Offer cost effective and robust solutions:
3. Manage the System:
   1. Multi-sector asset management strategy -
      1. Eco-logical Approach, 5-D CPM, and Risk Register;
         1. Scalable from mega-region to street segment to household;
      2. Integrated Water Resources Management;
   2. Infrastructure banks can pool funds from diverse sources and optimize the return on investment for asset owners, users, and the community.