

North Central Kansas Regional Industry Cluster Analysis and Innovation Networking Project

(A Core Component of AMI's UC2 Grant)



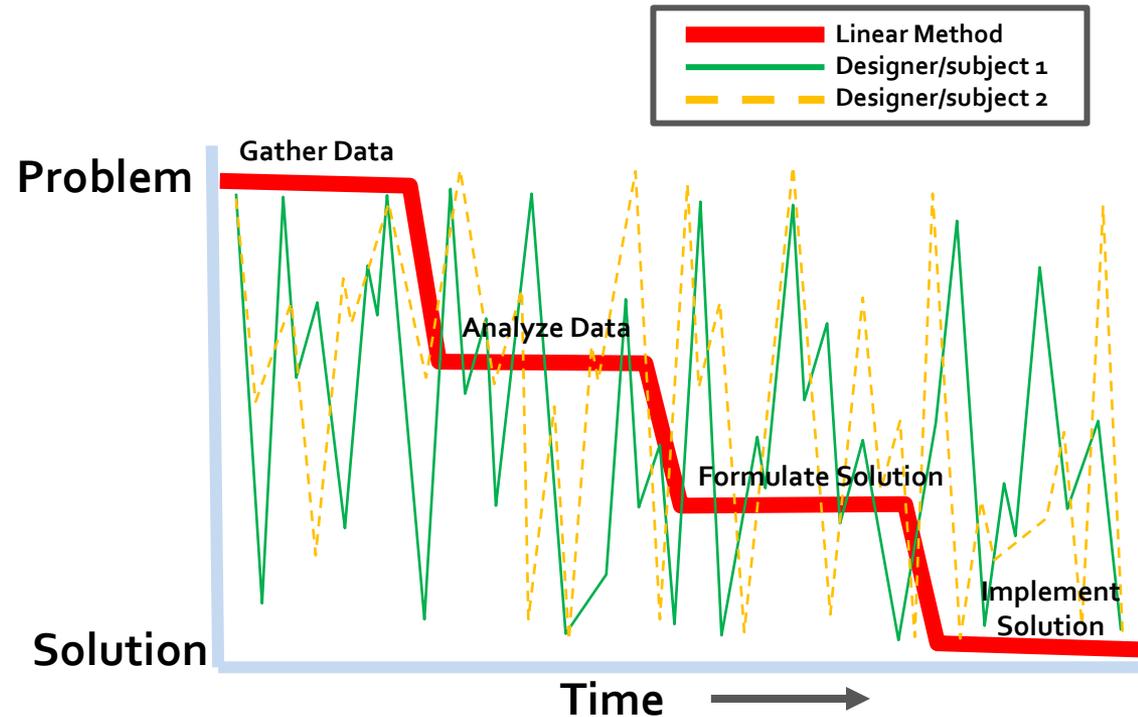
ADVANCED
MANUFACTURING
INSTITUTE

Engineering Success



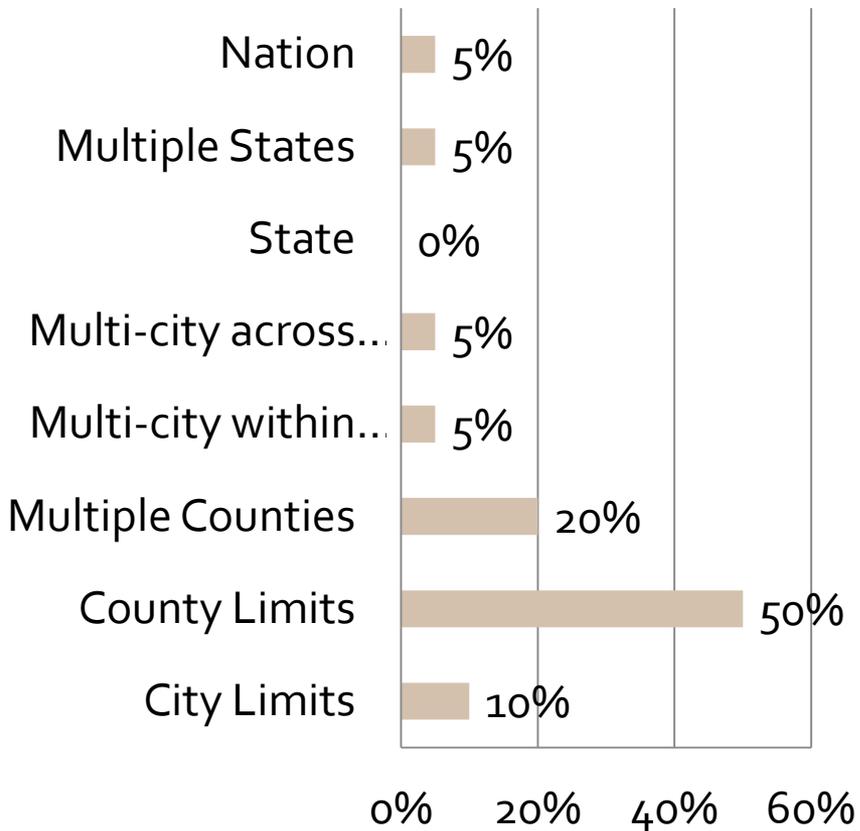
Rural Development is a Wicked Problem

- Don't understand the problem until have developed a solution
- Have no stopping rule
- Solutions not right-or-wrong, but better-or-worse
- Can't learn about the problem without trying solutions –likely to spawn new problems
- Unique and novel
- Symptom not the problem
- Social complexity – people!

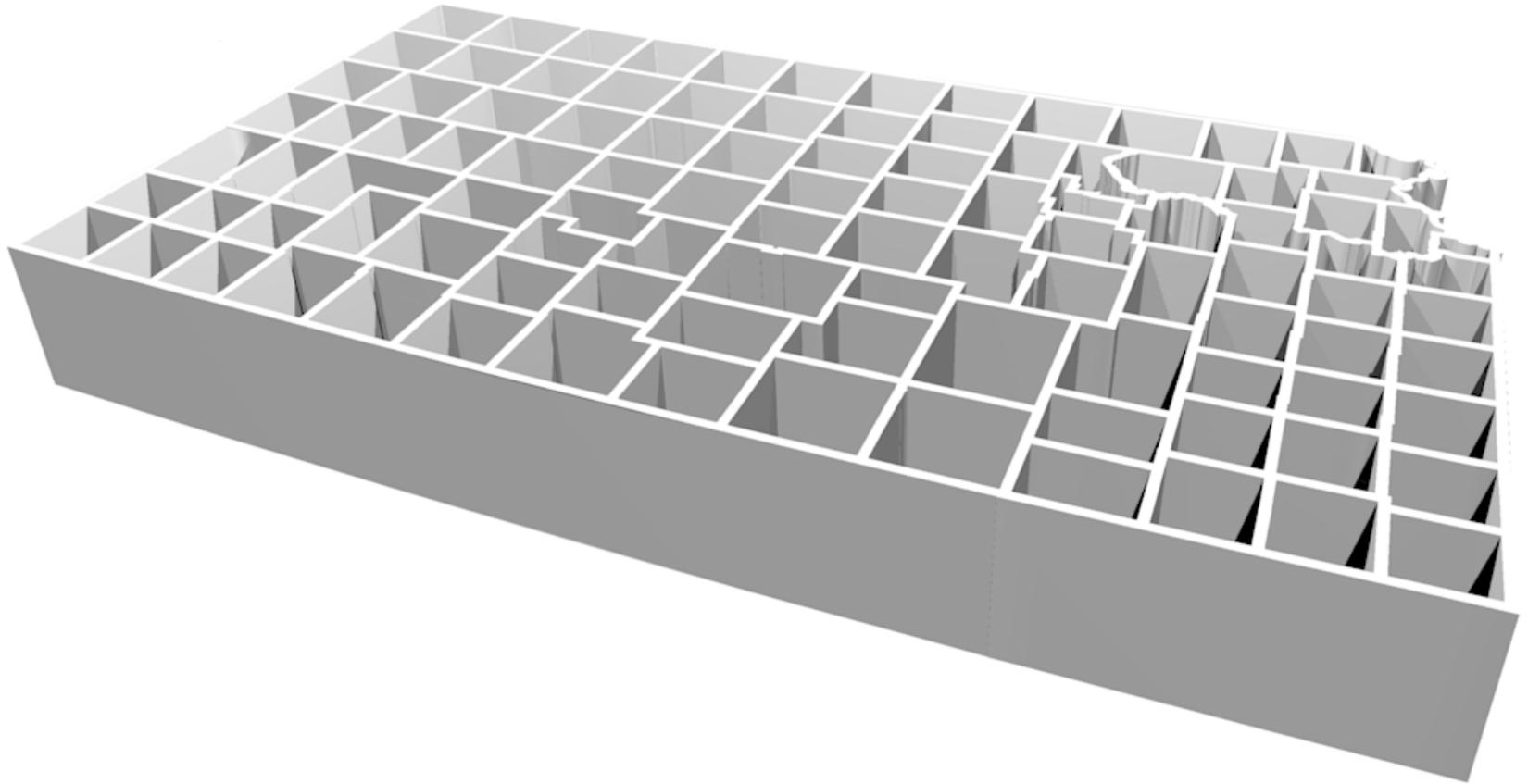


What is a region?

Eco Dev Community

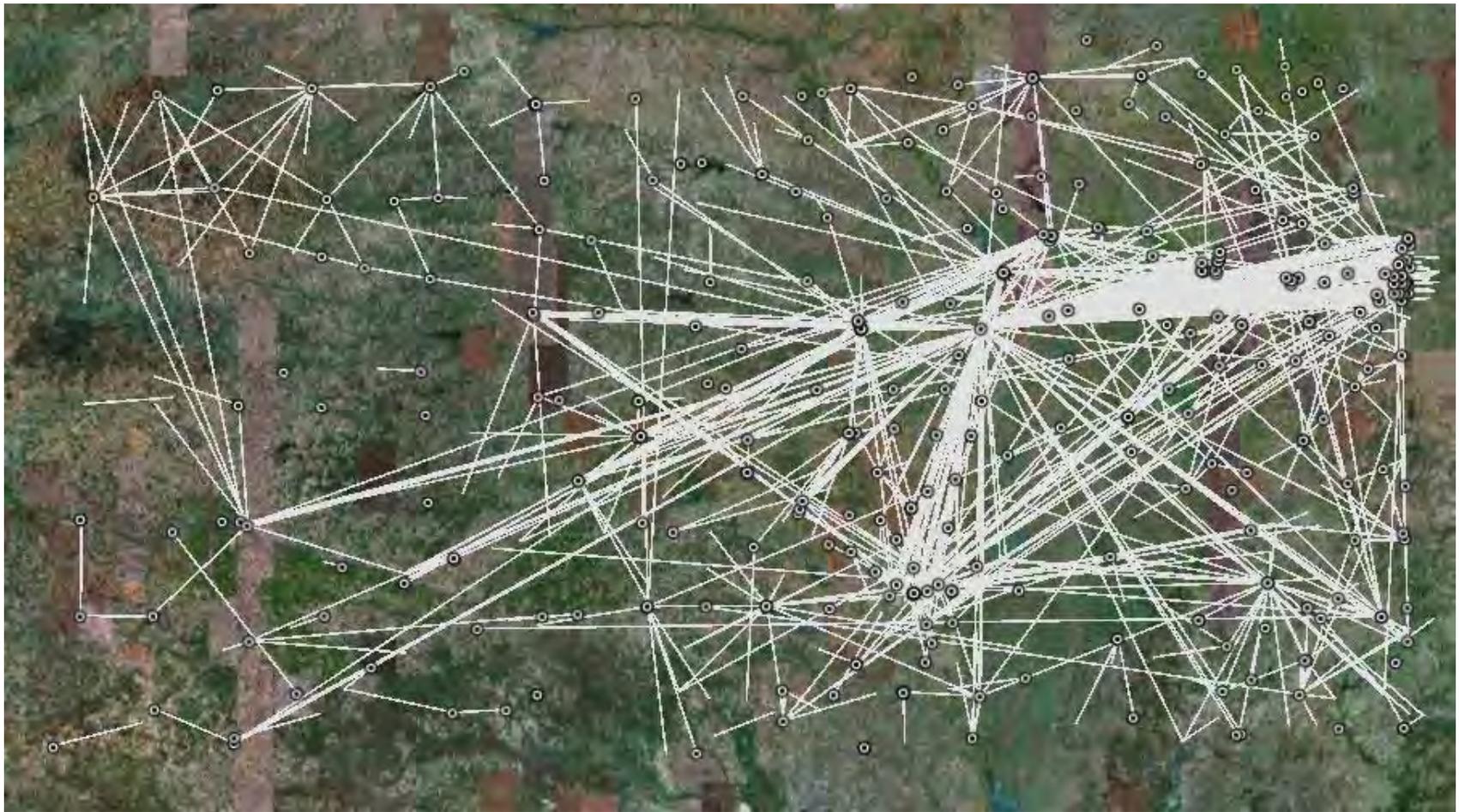


County-Centric View of Kansas



Banks

(Showing banks with HQ in KS)

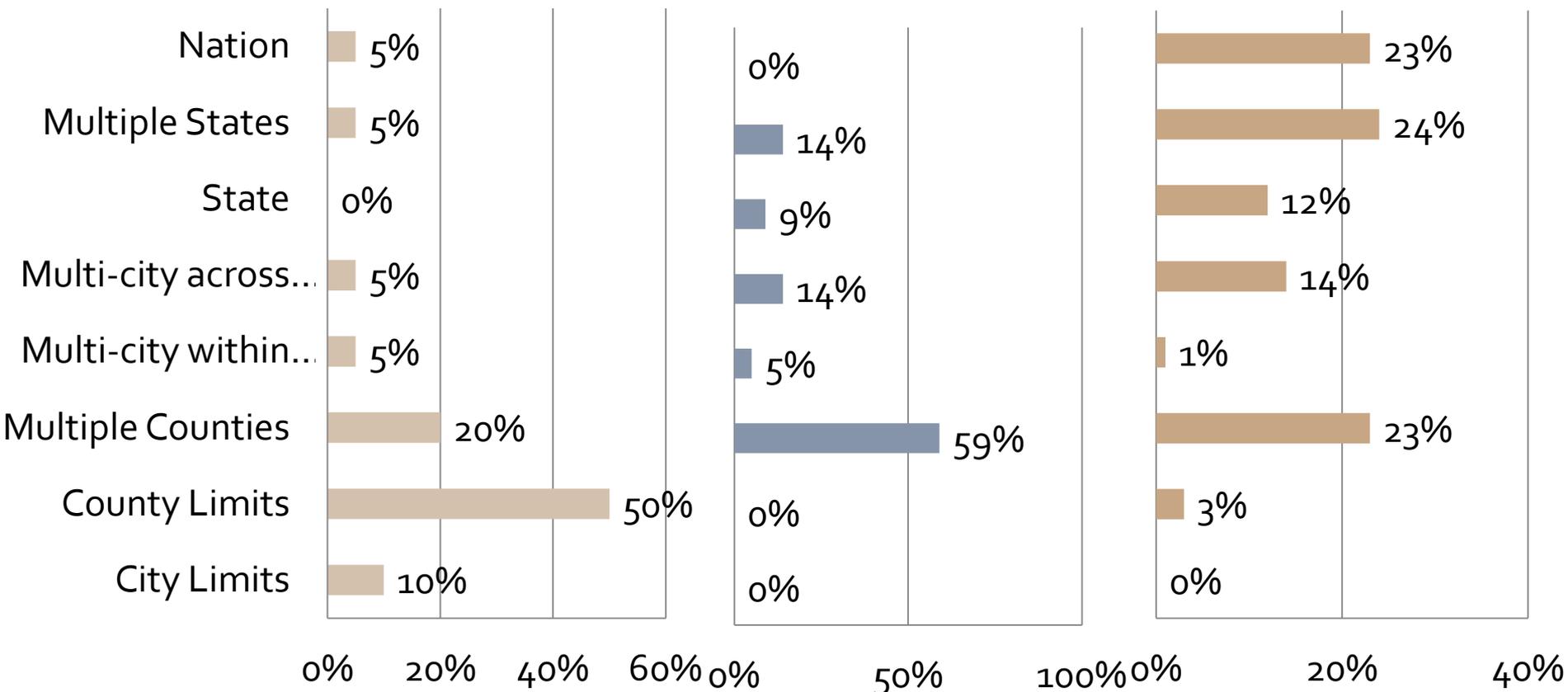


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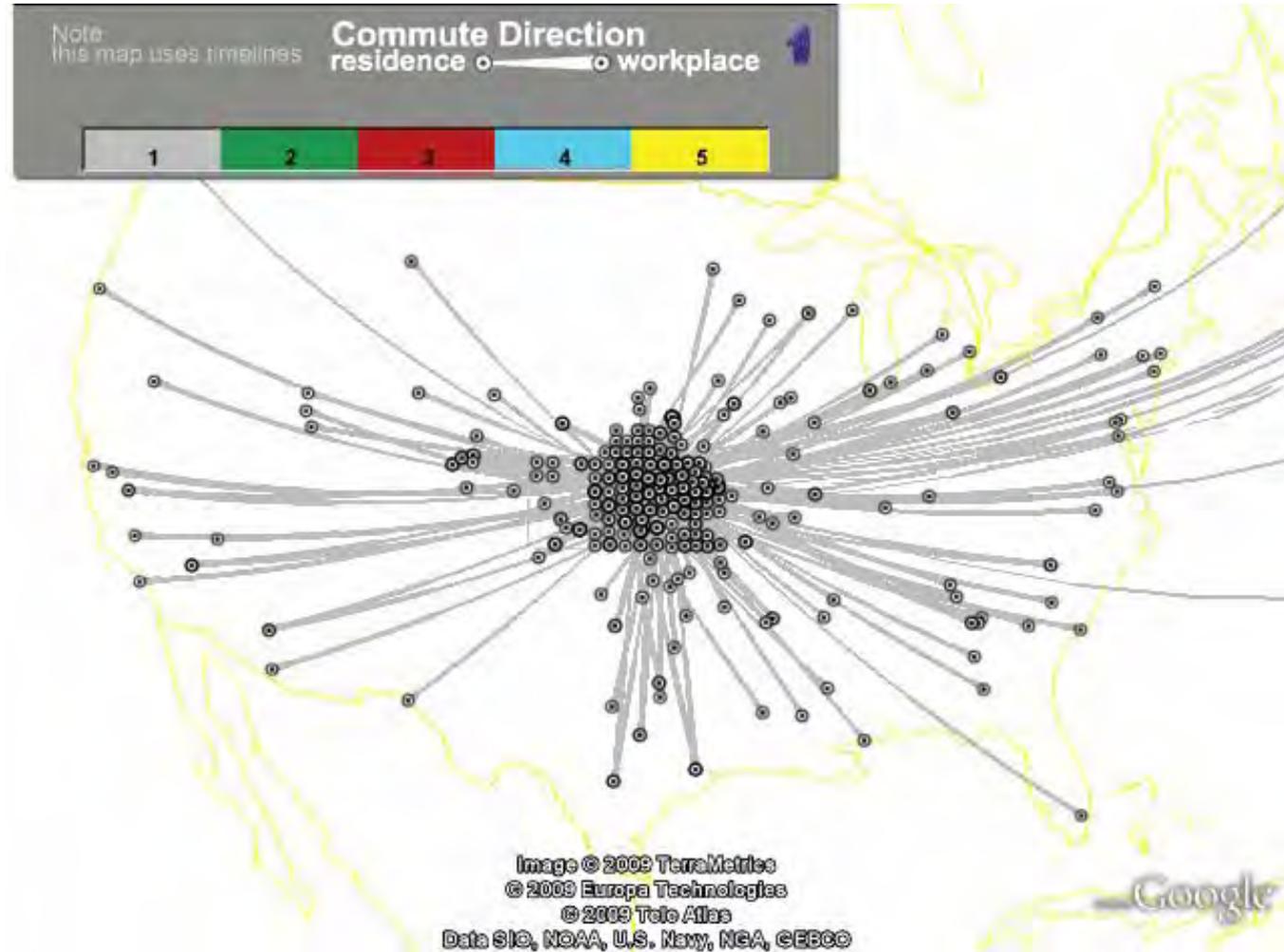
Banks

Business Community



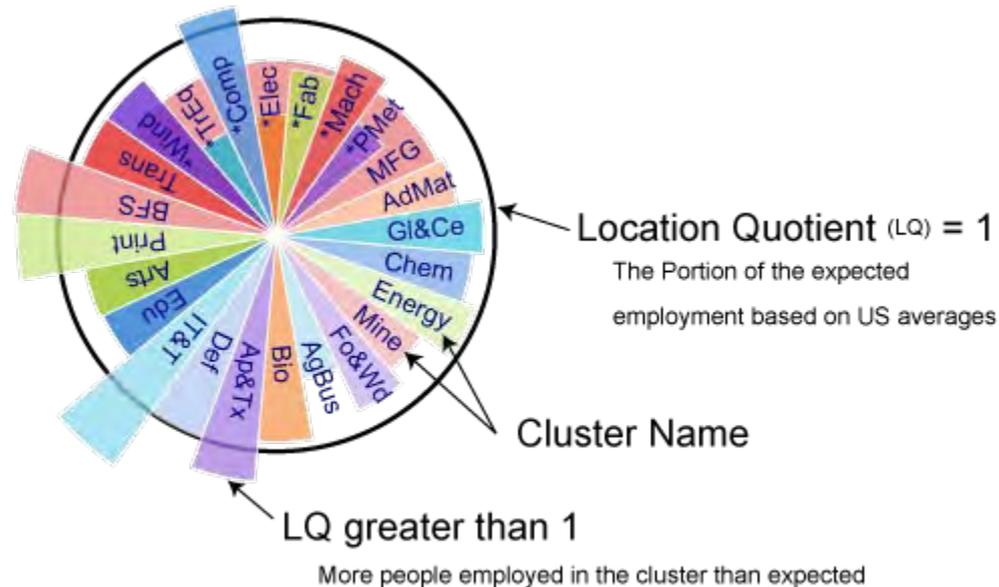
Regional Analysis - Interdependencies

- **Workflow**
 - Shows where people in the region work through the world

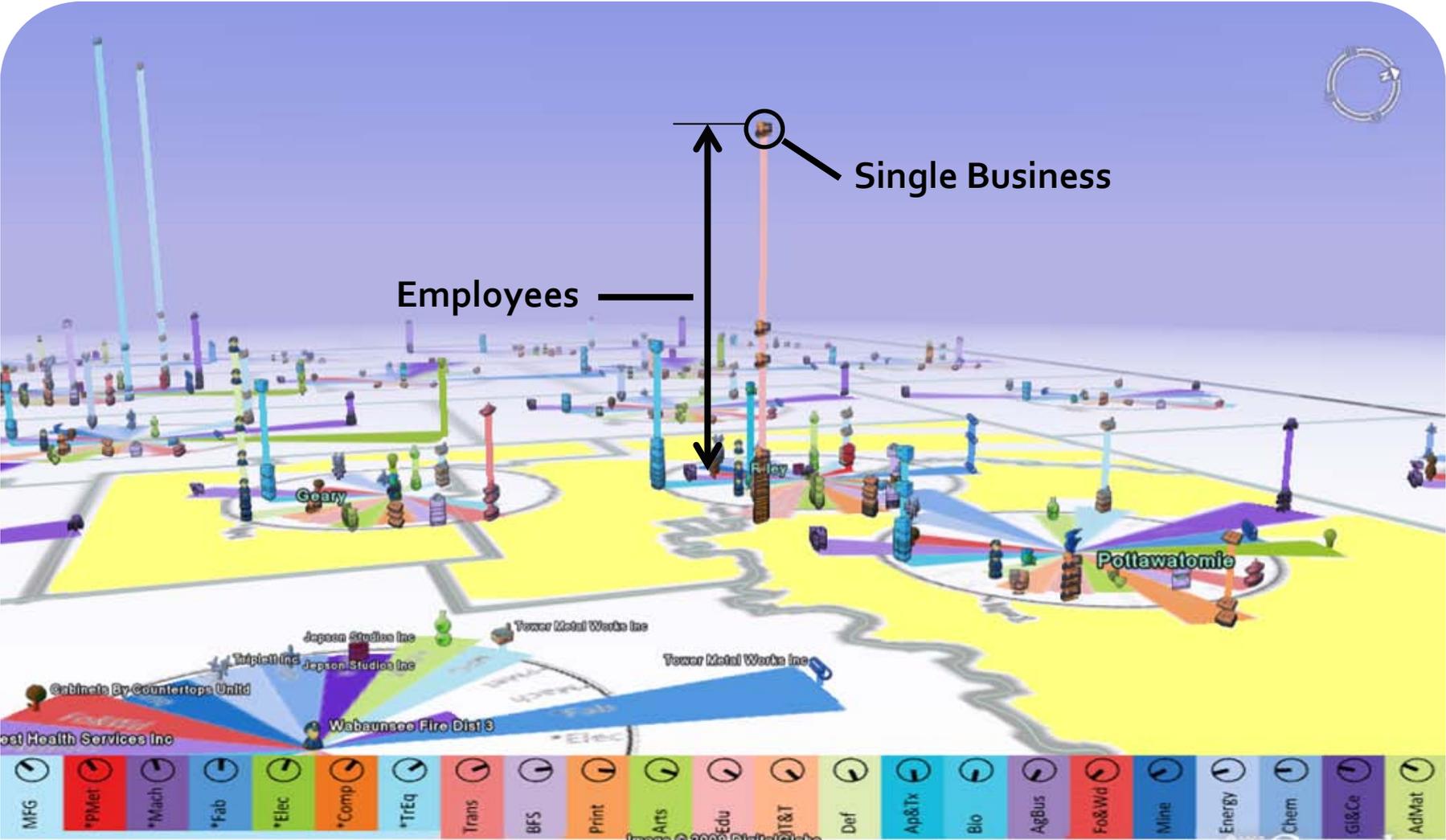


LQ Bursts as a Measure of Region Clusters

$$LQ = \frac{\left(\frac{\text{Employment in Industry } \langle j \rangle \text{ in Region}}{\text{Total employment in region}} \right)}{\left(\frac{\text{Employment in industry } \langle j \rangle \text{ in US}}{\text{Total employment in US}} \right)}$$



Landscape Perspective



Single Business

Employees