## Visualizing Spatial Supply Chains to Enhance Sustainability and Resilience

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**Figure S1**. Zoomed-in spatial supply chain for grain farming in Iowa. The highest used of grain (corn) is in manufacturing (other basic organic chemical), which is high fructose corn syrup or artificial sweetener.

9.2 or more (0.01%)
3.6 - 9.2 (0.04%)
1.8 - 3.6 (0.1%)
1.0 - 1.8 (0.2%)
0.5 - 1.0 (0.5%)

Supply chain of grain farming



Supply chain of grain farming to flour milling and malt manufacturing



Figure S2. Spatial supply chain for Grain farming to the top two recipients of the transaction.



Other basic organic chemical manufacturing

Flour milling and malt manufacturing

Figure S3. Spatial supply chain for Motor vehicle manufacturing to the top two recipients of the transaction.



Light truck and utility vehicle manufacturing

Automotive repair and maintenance



Figure S4. Spatial supply chain for Data processing to the top two recipients of the transaction.



Figure S5. Production and supply chain for vegetable and melon farming.

Supply chains to Personal consumption expenditures

Supply chains to Frozen food manufacturing





Figure S6. Production and supply chain for beef cattle ranching and farming.

▶ 14.6 or more (0.01%)
▶ 6.1 - 14.6 (0.03%)
▶ 4.1 - 6.1 (0.05%)
▶ 2.3 - 4.1 (0.1%)





Figure S7. Zoomed-in spatial supply chain for beef cattle in Iowa.





Figure S8. Zoomed-in spatial supply chain for animal slaughtering



Supply chain of animal slaughtering to animal slaughtering

Supply chain of animal slaughtering to limited-service restaurants

