

REGIONAL SNAPSHOT

Industry Cluster Analysis

Central Upper Peninsula Planning and Development Region, Michigan





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01 overview

Central Upper Peninsula Planning and Development Region, MI

Overview

Central Upper Peninsula Planning and Development Region

The Central Upper Peninsula
Planning and Development
Region is comprised of six
Michigan counties. U.S. Highway
41 passes through the region
connecting to I-43 to the south.

- Alger
- Delta
- Dickinson
- Marquette
- Menominee
- Schoolcraft



1ndustry cluster analysis

Central Upper Peninsula Planning and Development Region, MI

Industry cluster analysis

How to interpret cluster data results

The graph's four quadrants tell a different story for each cluster.

Contains clusters that are more concentrated in the region but are declining (negative growth).

These clusters typically fall into the lower quadrant as job losses cause a decline in concentration.

Mature

Top left (strong but declining)

Stars

Top right (strong and advancing)

Contains clusters that are more concentrated in the region and are growing. These clusters are strengths that help a region stand out from the competition. Small, high-growth clusters can be expected to become more dominant over time.

Contains clusters that are under-represented in the region (low concentration) and are also losing jobs.
Clusters in this region may indicate a gap in the workforce pipeline if local industries anticipate a future need. In general, clusters in this quadrant show a lack of competitiveness.

Transforming

Bottom left (weak and declining)

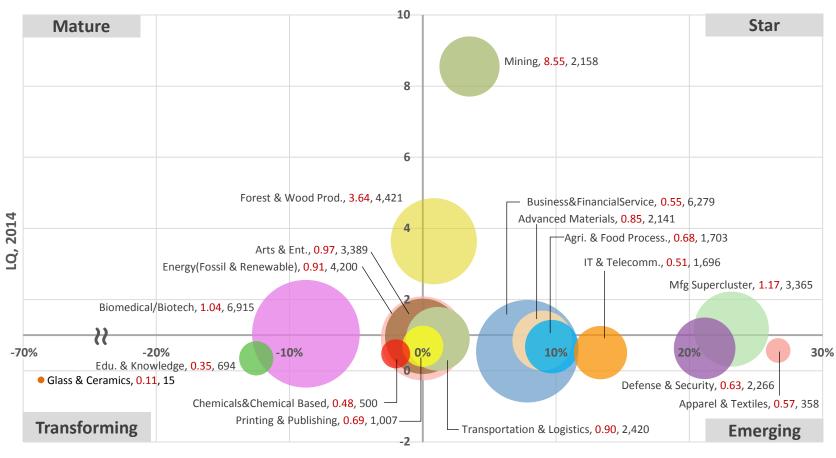
Emerging

Bottom right (weak but advancing)

Contains clusters that are under-represented in the region but are growing, often quickly. If growth trends continue, these clusters will eventually move into the top right quadrant. Clusters in this quadrant are considered emerging strengths for the region.

Industry and occupation

Industry cluster bubble chart

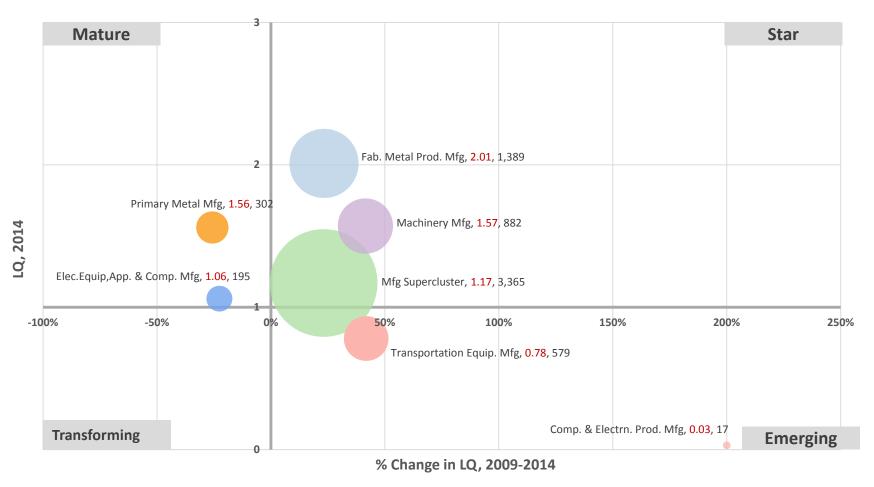


Note: Glass & Ceramics cluster has too few jobs.

Percent change in LQ, 2009-2014

Industry and occupation

Manufacturing sub-cluster bubble chart



Note: Computer & Electronic Product Manufacturing sub-cluster has too few jobs.

Industry cluster analysis

Mature Clusters

Primary Metal Manufacturing (1.56; 302)

Elec Equip., App & Component Mfg. (1.06; 195)

Biomed/Biotechnical (Life Science) (1.04; 6,915)

Level of Specialization

Star Clusters

Mining (8.55; 2,158)

Forest & Wood Products (3.64; 4,421)

Fabricated Metal Product Mfg. (2.01; 1,389)

Machinery Manufacturing (1.57; 882)

Manufacturing Supercluster (1.17; 3,365)

Transforming Clusters

Arts, Ent, Rec. & Visitor Industries (0.97; 3,389)

Energy(Fossil & Renewable) (0.91; 4,200)

Printing & Publishing (0.69; 1,007)

Chemicals/Chemical-based Products (0.48; 500)

Education & Knowledge Creation (0.35; 694)

Glass & Ceramics (0.11; 15)

Percent Growth in Specialization

Emerging Clusters

Transportation & Logistics (0.90; 2,420)

Advanced Materials (0.85; 2,141)

Transportation Equipment Mfg. (0.78; 579)

Agribusiness, Food Processing & Tech (0.68; 1,703)

Defense & Security (0.63; 2,266)

Apparel & Textiles (0.57; 358)

Business & Financial Services (0.55; 6,279)

Information Technology & Telecom. (0.51; 1,696)

Computer & Electronic Product Mfg. (0.03; 17)

Note: Glass & Ceramics cluster and Computer & Electronic Product Manufacturing sub-cluster have too few jobs.

section 02

Industry and occupation

Bubble chart interpretation

Mature Industries

Three industry clusters in the Central Upper Peninsula Planning and Development Region are in the Maturing stage: Primary Metal Mfg., Biomedical/Biotechnical (Life Sciences), Electrical Equipment, Appliance & Component Mfg. These industries are relatively concentrated, but their growth is trending downward. It is worth noting, however, that the Central Upper Peninsula Planning and Development Region may find it worthwhile to invest in efforts to shore up the concentration of these industries.

Transforming Industries

Transforming clusters capture the mix of industries that are experiencing relative decline and limited export capability. In the Central Upper Peninsula Planning and Development Region, Arts, Ent., Rec. & Visitor Industries; Printing & Publishing; Chemicals & Chemical Based Products; Energy; Education & Knowledge Creation and Glass & Ceramics are all Transforming clusters. Any amount of growth in these industries would require relatively large investments.

Star Industries

Star industry clusters are highly concentrated, exporting and still experiencing growth in the region. The most highly concentrated of the Star industry clusters in the Central Upper Peninsula Planning and Development Region is Mining. Its location quotient is 8.55, indicating that the cluster is 8 times more concentrated in the region compared to the U.S. The other strong clusters in the region are Fabricated Metal Product Mfg.; Manufacturing Supercluster; Forest & Wood Products; and Machinery Manufacturing.

Emerging Industries

Industry clusters that may be poised for future growth are classified as "Emerging." There are nine Emerging clusters in total in the Central Upper Peninsula Planning and Development Region. Top five are Transportation & Logistics; Advanced Materials; Transportation Equipment Mfg.; Agribusiness, Food Processing & Technology; and Defense & Security. Other clusters include Apparel & Textiles; Business & Financial Services; IT & Telecomm.; and Computer & Elec. Prod. Mfg.