## Industry Cluster Data Snapshot

**Fulton County Region Illinois** 







#### **List of Clusters**

There are 22 clusters developed by the PCRD that are used to determine the regional economic assets of the region.

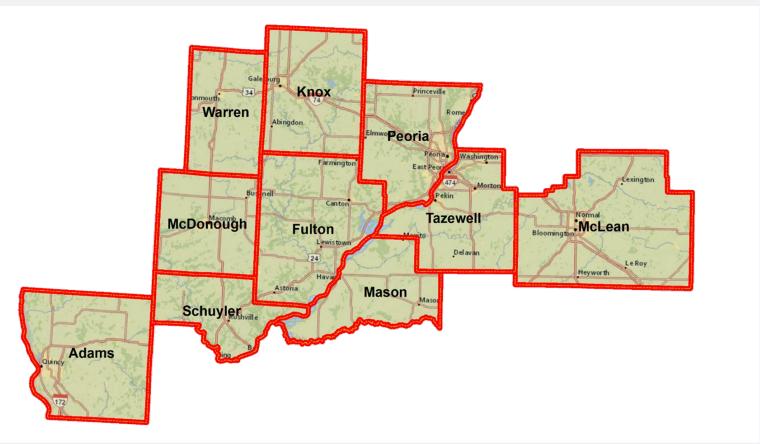
- Primary Metal Manufacturing
- Transportation Equipment Manufacturing
- Glass & Ceramics
- Advanced Materials
- Chemicals
- Agribusiness & Food Processing
- Fabricated Metal Product Manufacturing
- Machinery Manufacturing
- Forest & Wood Product
- Transportation and Logistics
- Arts & Entertainment

- Mining
- Biomedical/Biotech
- Energy
- Apparel & Textiles
- Education & Knowledge
- Printing & Publishing
- Defense & Security
- Business & Financial
- IT & Telecommunication
- Electrical Equipment, Appliance & Component Manufacturing.
- Computer & Electronic Product Manufacturing

## **List of Counties**

There are 10 counties in Fulton County Region. The region is centered around Fulton County and based on labor and commute patterns

- Fulton County
- McDonough County
- Warren County
- Knox County
- Peoria County
- Tazewell County
- Mason County
- Schuyler County
- Adams County
- McLean County



## How to interpret cluster data results

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

This quadrant 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)

(strong and advancing)

Stars

Top right

Emerging

Bottom right

(weak but

advancing)

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

This quadrant contains clusters that are underrepresented 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)

This quadrant 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.

#### **Bubble chart: what to look at first**

Quadrant Location



Size of Location Quotient



Percentage Change in Last 5 Years



Number of **Employees** 



Start with clusters located in the STARS quadrant

See if the MATURING clusters might have a good chance of growing again

Determine if EMERGING clusters are likely to grow in strength

Avoid clusters that are "TRANSFORMING"



Focus on clusters with an LO of 1.2 or higher

Clusters with high LQs represent economic activities in which the region is competitive relative to the U.S.

**REMEMBER:** Clusters only capture industries that have the likelihood of exporting goods and services.

The horizontal line (the x-axis) shows the percentage growth or decline of a cluster over a five-year period.

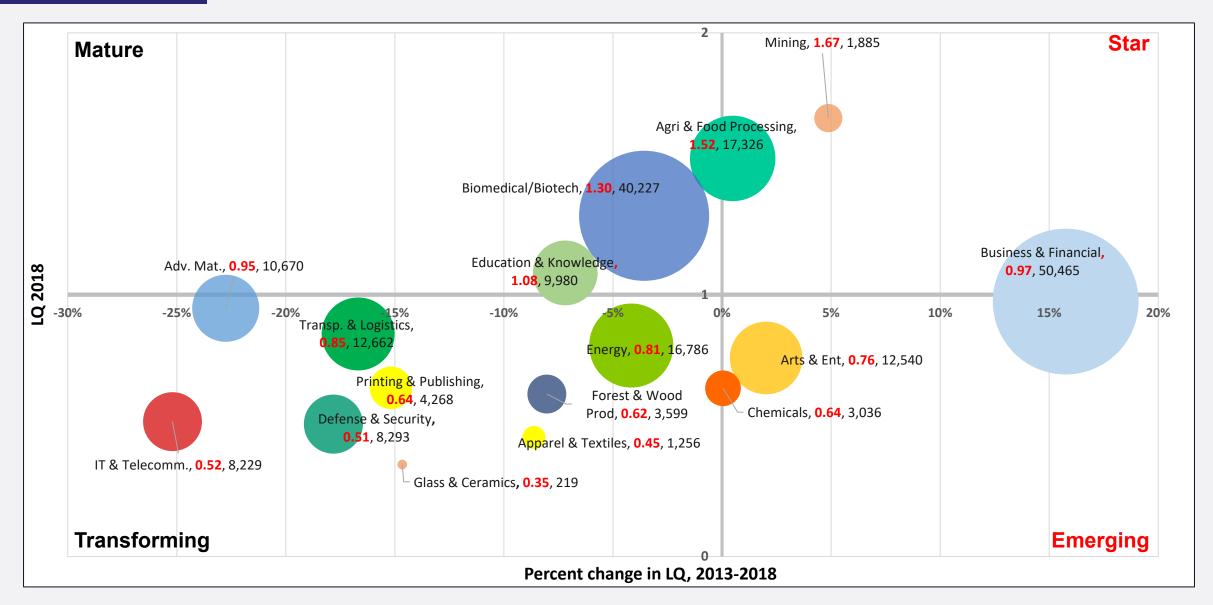
Make sure to examine the SIZE and DIRECTION of that change.

Dramatic declines in a cluster with a an LQ of 1.2 or higher could be a difficult one to resurrect.

The size of the bubble refers to the number of people employed in that cluster.

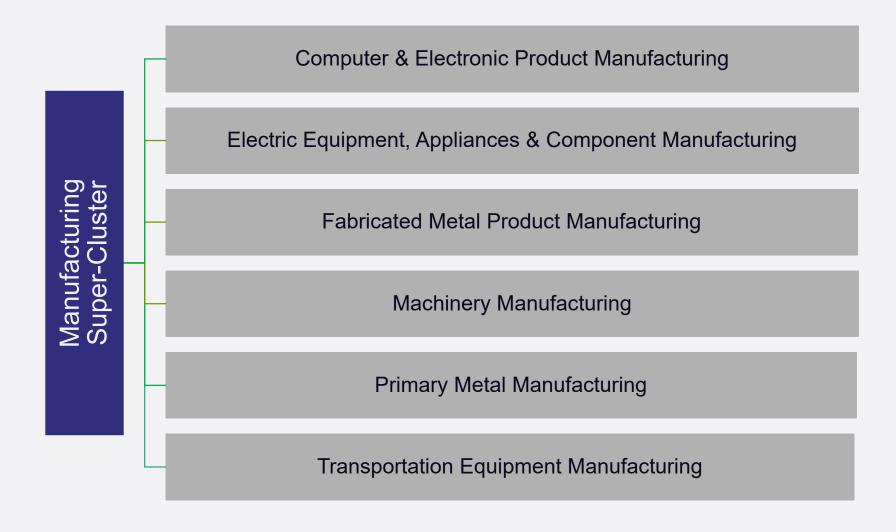
It may be worthwhile to focus on clusters that are both competitive and that employ a good number of people.

## Industry cluster bubble chart 2013-2018

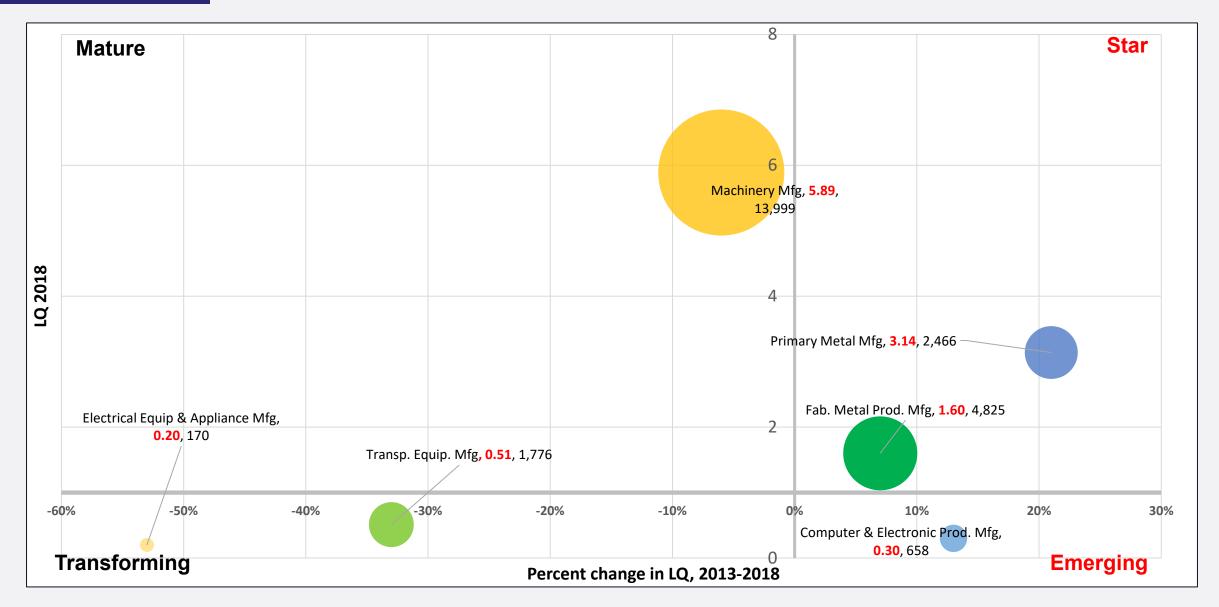


Note: Label includes cluster name, LQ in 2018, and Employment in 2018.

## Manufacturing sub-clusters



## Industry cluster bubble chart 2013-2018



Note: Label includes cluster name, LQ in 2018, and Employment in 2018.

## Cluster Analysis 2013-2018

#### **Mature Clusters**

Biomedical/Biotechnical (Life Sciences) (1.3; 40,227)

Education And Knowledge Creation (1.1; 9,980)

Machinery Mfg. (5.89; 13,999)

#### **Star Clusters**

Primary Metal Mfg. (3.14; 2,466)

Mining (1.67; 1,885)

Level of Specialization

Fabricated Metal Product Mfg. (1.6; 4,825)

Agribusiness, Food Processing And Technology (1.52; 17,326)

#### **Growth of Specialization**

## **Transforming Clusters**

Energy (Fossil And Renewable) (0.81; 16,786)

Transportation And Logistics (0.85; 12,662)

Advanced Materials (0.95; 10,670)

Defense And Security (0.51; 8,293)

Information Technology And Telecommunications (0.52; 8,229)

Printing And Publishing (0.64; 4,268)

Forest And Wood Products (0.62; 3,599)

Transportation Equipment Mfg. (0.51; 1,776)

Apparel And Textiles (0.45; 1,256)

Glass And Ceramics (0.35; 219)

Electrical Equip & Appliance Mfg. (0.20; 170)

## **Emerging Clusters**

Business And Financial Services (0.97; 50,465)

Arts, Entertainment, Recreation And Visitor Industries (0.76; 12,540)

Chemicals (0.64; 3,036)

Computer & Electronic Product Mfg. (0.3; 658)

#### **Summary of Results**

#### **Mature Industries**

Three industry clusters in the Fulton County Region are in the Mature Stage: Biomedical/Biotechnical (Life Sciences); Machinery Manufacturing.; Education and Knowledge Creation. The mature industry cluster is relatively concentrated in jobs, but its growth is trending downward. It is worth noting, however, that the 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 Fulton County Region, Energy; Transportation and Logistics; Advanced Materials; Defense and Security; Information Technology and Telecommunications; Printing and Publishing; Forest and Wood Products; Transportation Equipment Manufacturing; Apparel and Textiles; Glass and Ceramics; along with Electrical Equipment, Appliance & Component Mfg. 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 experiencing growth in the region. Star industry clusters in the Fulton County Region include Agribusiness, Food Processing and Technology; Fabricated Metal Product Manufacturing; Primary Metal Manufacturing; and Mining. These clusters indicate that they have higher jobs concentrations in the region compared to the U.S. and may have capacity for exports outside the region.

#### **Emerging Industries**

Industry clusters that may be poised for future growth are classified as "Emerging." There are four Emerging clusters in total in the Fulton County Region. Business and Financial Services; Arts, Entertainment, Recreation and Visitor Industries; Chemicals; and Computer & Electronic Product Manufacturing.

#### **Cluster Analysis without Peoria (industry clusters)**

Group	2018 Jobs	2013 LQ	2018 LQ	Percent Change LQ	Competitiveness
Advanced Materials	5,677	0.90	0.73	-19%	TRANSFORMING
Agribusiness, Food Processing And Technology	15,546	1.94	1.98	2%	STAR
Apparel And Textiles	827	0.35	0.43	23%	EMERGING
Arts, Entertainment, Recreation And Visitor Industries	8,610	0.72	0.75	4%	EMERGING
Biomedical/Biotechnical (Life Sciences)	20,696	0.89	0.97	9%	EMERGING
Business And Financial Services	39,593	0.87	1.11	28%	STAR
Chemicals	2,302	0.65	0.71	8%	EMERGING
Defense And Security	5,056	0.43	0.45	4%	EMERGING
Education And Knowledge Creation	6,454	0.93	1.01	8%	STAR
Energy (Fossil And Renewable)	10,262	0.65	0.71	10%	EMERGING
Forest And Wood Products	2,745	0.72	0.69	-4%	TRANSFORMING
Glass And Ceramics	105	0.35	0.24	-29%	TRANSFORMING
Information Technology And Telecommunications	5,211	0.49	0.47	-3%	TRANSFORMING
Mining	1,724	2.04	2.22	9%	STAR
Printing And Publishing	2,583	0.60	0.56	-5%	TRANSFORMING
Transportation And Logistics	9,667	1.10	0.94	-14%	TRANSFORMING



#### **Cluster Analysis without Peoria (manufacturing sub clusters)**

Group	2018 Jobs	2013 LQ	2018 LQ	Percent Change LQ	Competitiveness
Computer & Electronic Product Mfg.	635	0.37	0.42	14%	EMERGING
Electrical Equip, Appliance & Component Mfg.	151	0.54	0.25	-53%	TRANSFORMING
Fabricated Metal Product Mfg.	3,957	1.74	1.90	9%	STAR
Machinery Mfg.	5,108	7.19	3.11	-57%	MATURE
Primary Metal Mfg.	288	0.97	0.53	-45%	TRANSFORMING
Transportation Equipment Mfg.	1,691	1.01	0.70	-31%	TRANSFORMING

## **Report Contributors**

This report was prepared by the Purdue Center for Regional Development.



Authors/Editors
Indraneel Kumar, Ph.D.
Bo Beaulieu, Ph.D.



Data Analysis Indraneel Kumar, Ph.D. Chun Song



Report Design
Tyler Wright





## Purdue Center for Regional Development

seeks to pioneer new ideas and strategies that contribute to regional collaboration, innovation and prosperity.

www.pcrd.purdue.edu

#### **Contact Us**

1341 Northwestern Avenue Purdue Schowe House West Lafayette, IN 47906 **765-494-7273** pcrd@purdue.edu

# **PURDUE** EXTENSION

#### Purdue Extension Community Development

works to strengthen the capacity of local leaders, residents and organizations to work together to develop and sustain strong, vibrant communities.

www.cdext.purdue.edu

Source of front cover courthouse photography:

https://commons.wikimedia.org/ wiki/File:Parlin\_Library, Canton, Illinois.JPG

Back cover Schowe House photography is by PCRD staff.

