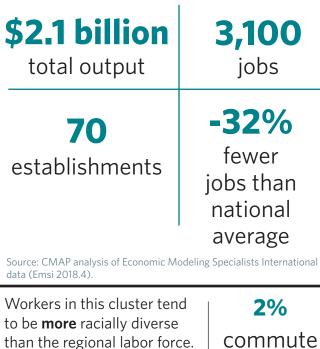
## **Upstream Chemicals**

This cluster manufactures basic organic and inorganic chemicals or gases, in particular separate elements that could be used as inputs for more complex downstream chemical products. The technical report, Metropolitan Chicago's traded industry clusters, offers extensive data on the characteristics and performance of the Chicago region's core industrial assets since 2001, available for download at https://cmap.is/Traded-Clusters.

In the Chicago region in 2017, this cluster consisted of



45% non-white **31%** female **37%** over age 50 commute by transit



Source: CMAP analysis of Integrated Public Use Microdata Series. 2017 American Community Survey data.

Largest occupations

**Operators** 

**Operators** 

**Operators** 

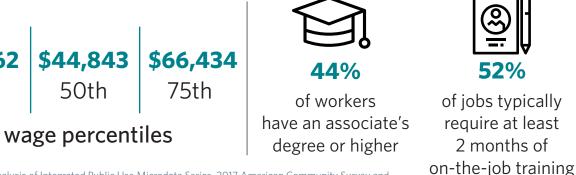
**Operators** 

Chemists

25th

In recent years, the cluster's competitive position strengthened as it remained **unspecialized** in the national context.





Source: CMAP analysis of Integrated Public Use Microdata Series, 2017 American Community Survey and Economic Modeling Specialists International data (Emsi 2018.4).

In 2016, this cluster generated approximately

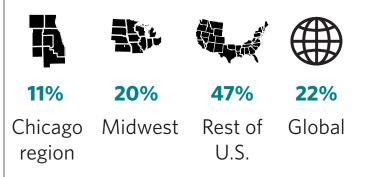
**\$10.2** billion

in freight shipments that originate, terminate, or circulate regionally.

Freight mode share, by value



Freight trade geography, by value



Source: CMAP analysis of Freight Analysis Framework data (FAF 4.4.1). Note: Data includes only the Illinois portion of the U.S. Census Bureau combined statistical area. Freight data is not provided for service clusters.