

JAPAN

- Low vulnerability
- Lower-medium vulnerability
- Upper-medium vulnerability
- High vulnerability

Hokkaido,
Japan's northernmost island—famous for brewing beer and as a skiing destination and gateway to the Hokkaido mountains—is one of the least manufacturing-intensive parts of the country. After Tokyo, it is the second-least vulnerable region on our Index.

Some of Japan's most mountainous prefectures feature among the most vulnerable to job losses. Although sparsely populated, these large regions are punctuated with traditional manufacturing enclaves, which may prove highly vulnerable to change. The regions of **Kochi, Nara,** and rural **Tottori** are, in this sense, among the most vulnerable to the trends of automation.

Japan's largest and most economically important prefecture, **Tokyo,** is the country's least-exposed region to robots displacing manufacturing jobs, according to our Index. Companies here have already established advanced levels of robot intensity, and the region's diverse economy means workers are less dependent on the manufacturing sector for employment. A similar pattern is true of the regions surrounding other important cities such as **Osaka, Yokohama,** and **Kawasaki.**

Most vulnerable regions

Region:	Index Score:
Tottori	0.54
Kochi	0.51
Nara	0.49
Shiga	0.49
Saga	0.48

Least vulnerable regions

Region:	Index Score:
Tokyo	0.09
Hokkaido	0.20
Osaka	0.25
Fukuoka	0.28
Miyagi	0.28