

Introduction

1 What was typical for Bicycle??
 →first Product which had been fabricated in developed countries at first and the parts were exported to developing countries. The Parts were assembled there.

2 Method.
 →Global Value Chain Theory.

3 Originality.
 →We see much previous research about historical value chain of Cotton etc. But we see almost no research about historical global value chain of machine products.

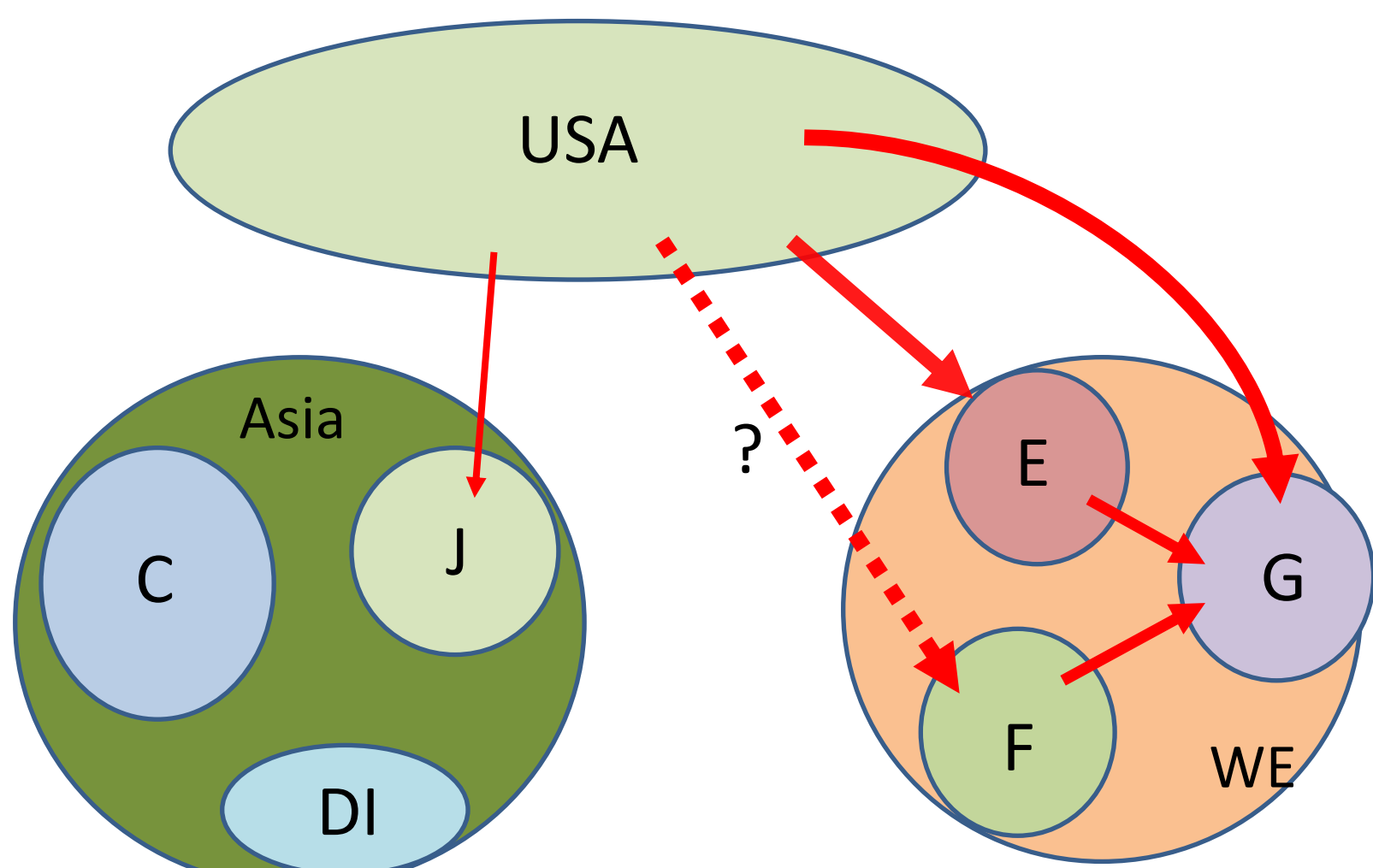
Conclusion

1 Change of central bicycle production Place.
 →From USA, to Germany in Europe, to Japan in Asia.

2 Global Spread of Germany bicycle parts and Japan's rapid progress as Industrial Nation in Asia.
 →Central Place of machine producer and exporter in Asia.

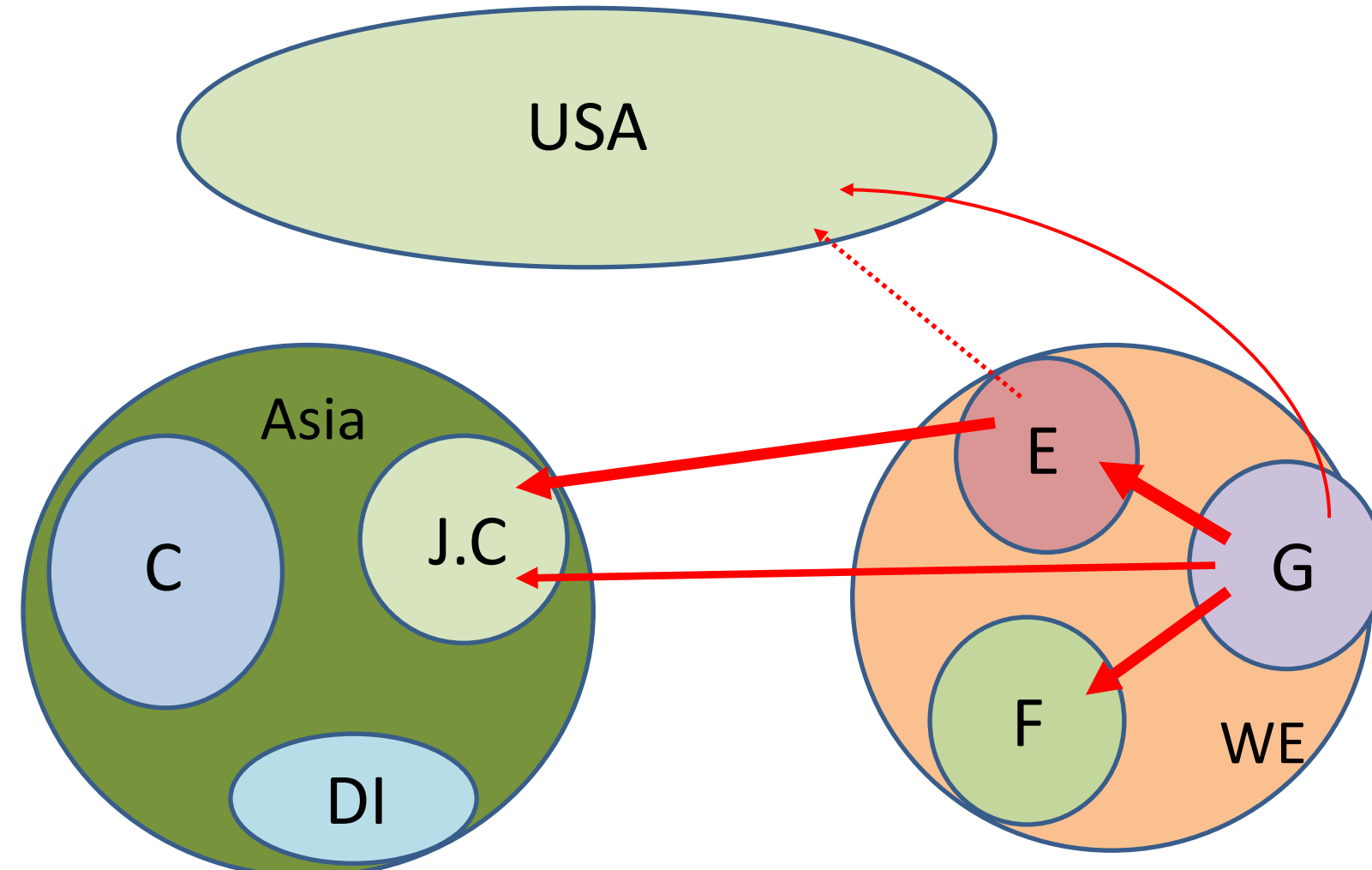
3 "The shift of production" has "no effect on the structure of the system itself." (*Worldsystems Analysis*, p. 29)
 →This idea should be applied in 20th century??

Globalization of Bicycle Trade 1898



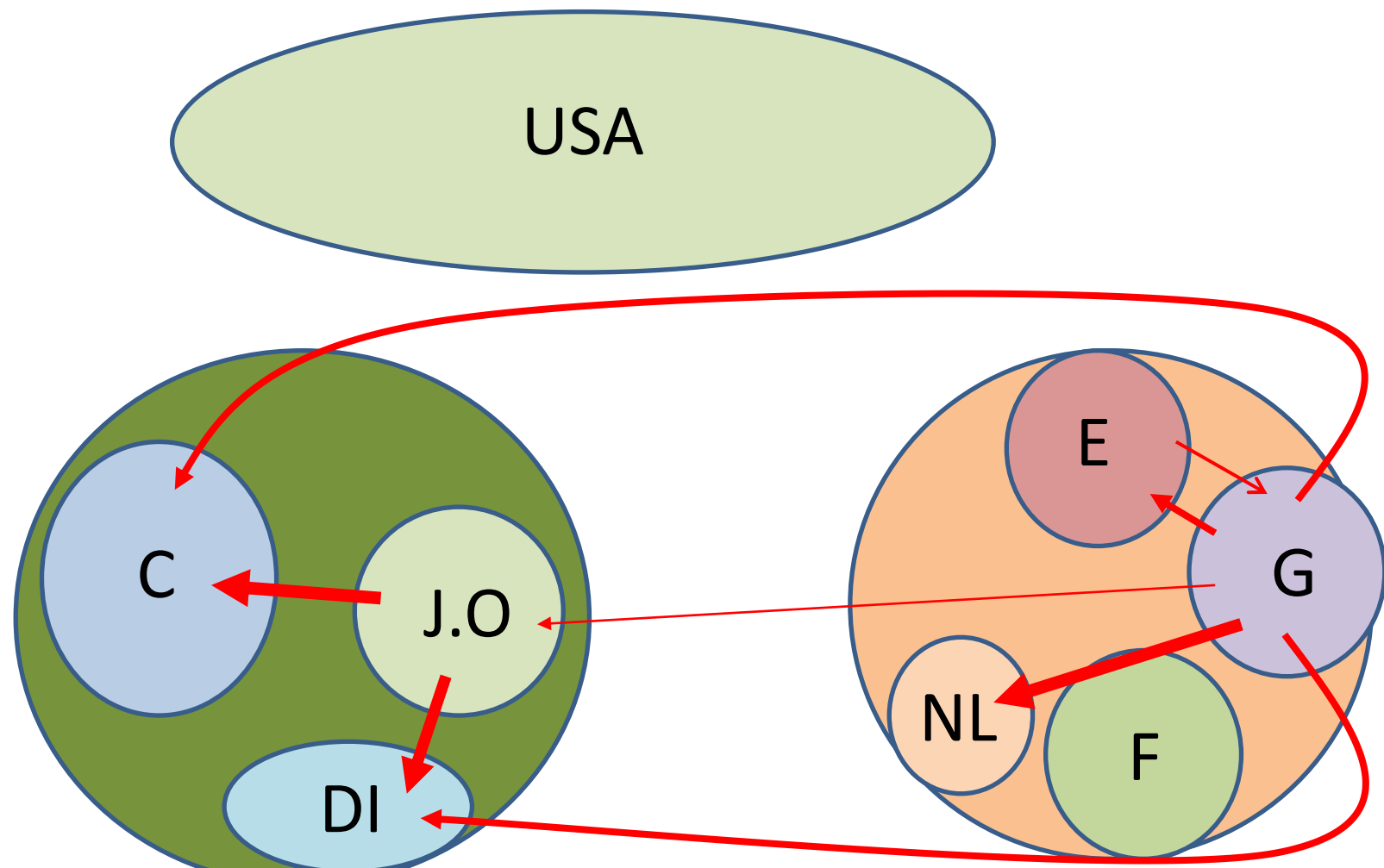
G : Germany. E : England. F : France. J : Japan. C : China.
 DI : Dutch East Indies. WE : Western Europe.

Globalization of Bicycle Parts Trade 1905-1913



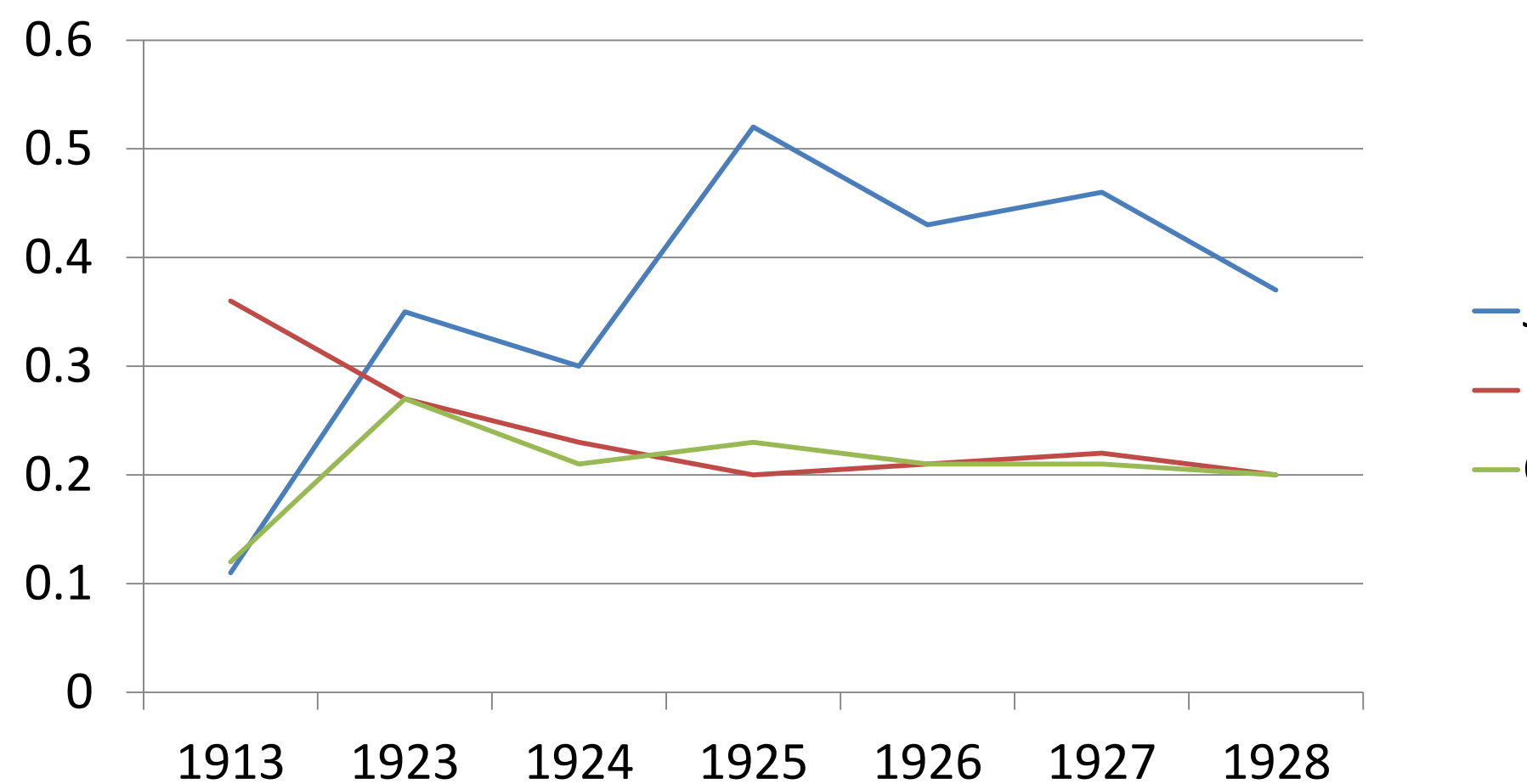
G : Germany. E : England. F : France. J : Japanese Craftsmen
 C : China. DI : Dutch East Indies. WE : Western Europe.

Globalization of Bicycle Parts Trade 1925-1928



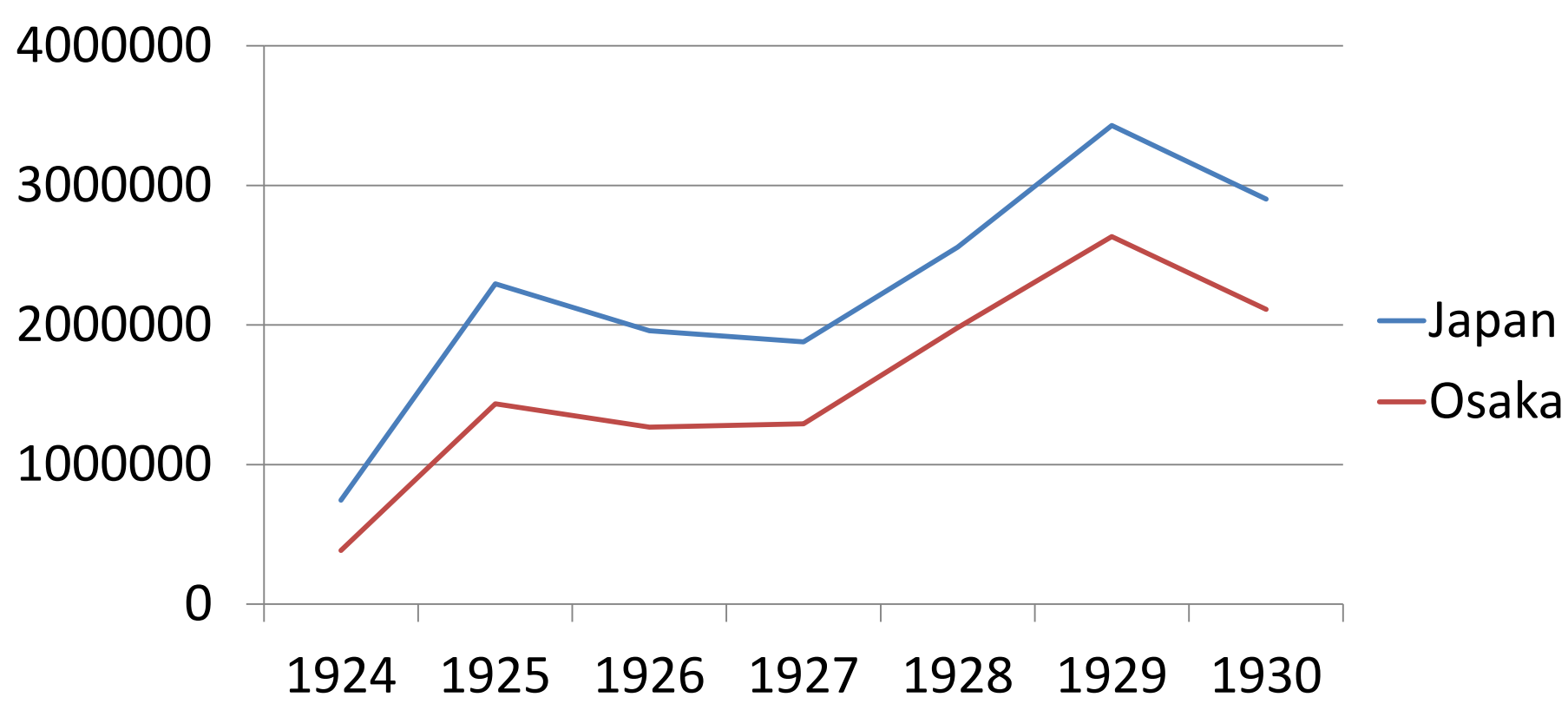
G : Germany. E : England. F : France. J.O : Japan. Osaka. C : China.
 DI : Dutch East Indies. NL : Nederland.

Exported Bicycle Parts Price per Weight from Germany 1913, 1923-1928 (1,000RM, 100kg)



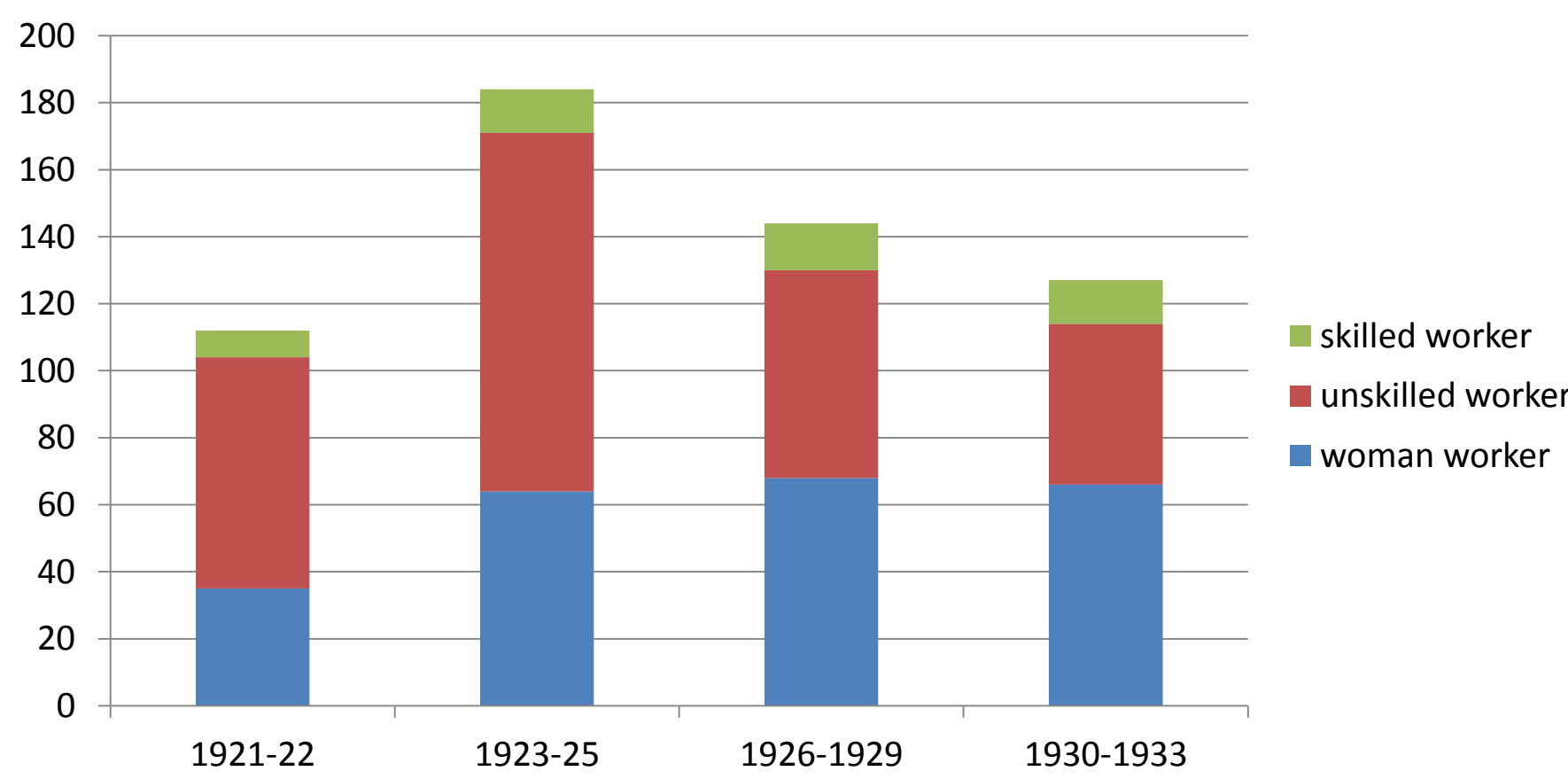
Exported Volume as Weight to Japan decreased this time. From 1925, this Volume was overtaken by China and Dutch east Indies. This table shows the exported parts quality from Japan.

The Development of Osaka as the City of Central Bicycle Parts Production in Asia, 1924-1930.



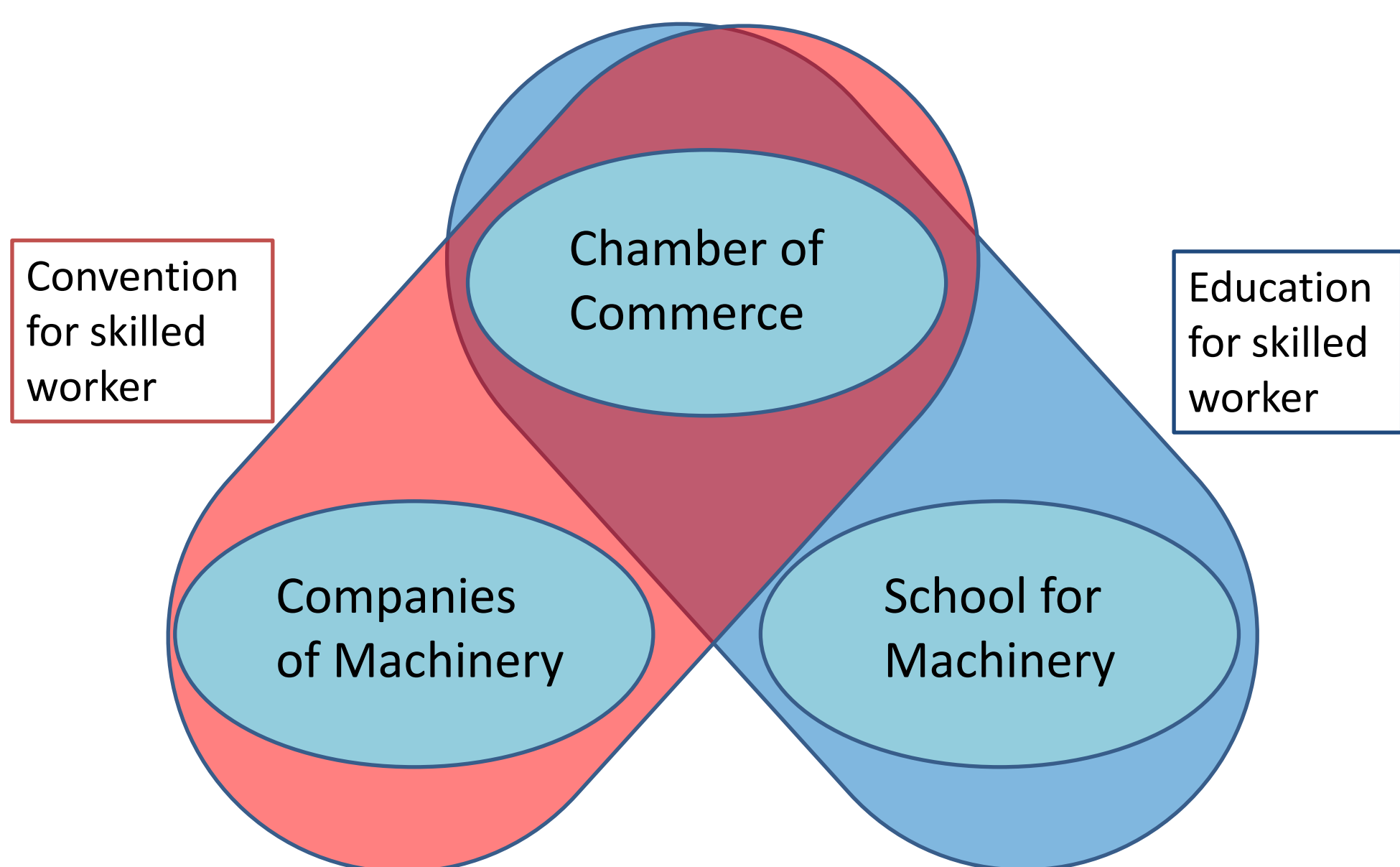
The amount of this table is exported Volume of bicycle and bicycle parts as price (yen).

Increase of Woman Worker in a Company of Bicycle Parts Production in Bielefeld (Germany), 1921-1933.



Economy in Germany from 1926 until 1929 was relatively good. In this company, Percent of woman worker increased this time.

Local Regulation of labor Market in Bielefeld 1898-1910



Suburbanization in Bielefeld 1898-1912 (Time of Bicycle Spread in Germany)

