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1 What makes a global city?

The seven types of global cities

3 How global cities can become more competitive

2

1 What makes a global city?

FIGURE 2-3. MAP OF CITIES ALONG THE SILK ROADS, 300 BC—AD 100 FIGURE 2-1. PHOENICIAN TRADE NETWORK



The U.S. economy experienced severe job losses



U.S. employment

B | Metropolitan Policy Program

7.4 million jobs lost

Export Nation: How U.S. cities can lead national export growth

"To reset its eco-

nomic trajectory, the United States needs to connect

the macroeco-

nomic goal of

increasing exports with the

metropolitan

production."

reality of export

Findings An analysis of the location of production of U.S. exports, particularly in the nation's 100 largest metro areas in 2008, and between 2003 and 2008 reveals that: Increasing the nation's exports holds out the potential of generating a significant number

- of good-paying jobs in the United States. All told, U.S. exports supported 11.8 million jobs nationally and 7.7 million jobs in the top 100 metro areas in 2008. These jobs amounted to 8.3 percent of the nation's employment and 8.1 percent of all employment in the largest 100 metros in 2008. These are direct jobs in companies that sell abroad and to some extent, in direct the bar methods with the largest to fit the nation of the second seco
- indirect jobs in firms that are part of the supply chain of exporting companies.
 The largest 100 metropolitan areas produce most of the nation's exports. Home to 65 percent of the nation's population, the 100 largest metropolitan areas produced an estimated 64 percent of U.S. exports in 2008, including 62 percent of U.S. manufactured goods and 75 percent of services. Export activity is highly concentrated. The 10 metropolitan areas with the highest value of exports produced about 43 percent of all the top 100 metro areas' exports in 2008, even though they contain just 38 percent of the population.
- Strong manufacturing and patent producing metropolitan areas generate the highest shares of exports from their output. Manufacturing industries are the most export oriented so metropolitan areas that specialize in manufacturing industries are the hargest shares of their GMP. Export-oriented metropolitan areas are also significantly more innovative, as defined by their rate of patent production. This may be explained by existing evidence that more innovative firms are more likely to export internationally and that activity reinforces nnovation through competition.
- Four metropolitan areas doubled the real value of their exports between 2003 and 2008. Houston doubled exports largely through sales of chemicals, while Wichita, KS doubled exports based on its powerful aviation cluster. Computer and electronics led the doubling of Portland's exports. New Orleans also doubled the value of its exports over the period, driven largely by oil refining.
- Export intensive industries pay higher wages than domestic oriented industries in large **metropolitan areas.** In an analysis of the 94 of the largest 100 metropolitan areas, for every \$1 billion in exports of a metro area industry, workers in that industry earn roughly 1 to 2 percent higher wages. Even those exporting industry workers without high school diplomas earn a higher wage. This wage effect can be seen even adjusting for worker characteristics, occupa-tion, or the characteristics of the metropolitan area.
- **Future export growth will come increasingly from large emerging markets.** Though Canada and Mexico are the nation's two largest trading partners, U.S. exports to Brazil, India, and China (the so-called BIC countries) have been increasing rapidly during the last decade, doubling in size between 2003 and 2008. The BIC countries are expected to account for about a fifth of the global gross domestic product in 2010, surpassing the United States for the first time. The metropolitan areas that produce the largest U.S. exports to the BICs are

2008





B | Metropolitan Policy Program

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 $\mathbf{B} \mid \underset{{}_{\mathrm{at BROOKINGS}}}{\mathrm{Metropolitan Policy Program}}$

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Findings

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TO DELIVERING

EXPORT PLAN

SUCCESSFUL



A Joint Project of Brookings and JPMorgan Chase







Over the past five years, the Global Cities network has grown



GLOBAL CITIES INITIATIVE

A Joint Project of Brookings and JPMorgan Chase

K R



During this time, economic growth has been uneven

JOBS

+6.3%Jobs, 2009-2014

Source: Brookings, Metro Monitor, January 2016

PRODUCTIVITY



+3.6%Productivity 2009-2014

WAGES

-5.0% Median wage, 2009-2014

Urbanization



Globalization

Technology



Urbanization

1950

Source: United Nations, World Urbanization Prospects, 2014 revision

Global Metro Population





Urbanization

2050

Source: United Nations, World Urbanization Prospects, 2014 revision

Global Metro Population





Urbanization

Source: 2015 Habitat GUO estimates

880 milion

people in the developing world live in slums

30%

of the developing world's urban residents









Source: James Manyika and others, "Digital globalization," McKinsey, 2016

Globalization

2.4 milion

jobs lost in the U.S. due to import competition from China, 1999-2011

Source: David Autor et al., "The China Shock," 2016



S33/YEAR

Estimated impact of 12 technology platforms on the global economy

Source: James Manyika and others, "Disruptive technologies," McKinsey & Co., 2013

Technology



60%

or complete automation

Source: Michael Chui and others, "Four Fundamentals of Workplace Automation," McKinsey & Co. 2015.



of US occupations at risk of partial

Technology



What makes a global city?



Global competitiveness



Global cities must focus on the keys to competitiveness



DRIVERS



Global cities must focus on the keys to competitiveness



DRIVERS





1 What makes a global city?

The seven types of global cities

3 How global cities can become more competitive

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The seven types of global cities



123 global cities

Share of global totals





123 global cities

Share of global totals





Population



Economic characteristics

Industry characteristics

Talent



123 global cities

Share of global totals





Population



Economic characteristics

Industry characteristics

Talent





7 types of global cities





Type 1: Global Giants



Type 1: Global Giants



\$1.49 trillion

Nominal GDP, 2015

2nd / 123 global metros



New York City

192 million

aviation passengers, 2015

1st / 123 global metros

O Global Giants (6)







Type 2: Asian Anchors



Type 2: Asian Anchors



Satz billion

Foreign Direct Investment, 2015

1 st / 123 global metros



106 megabits/second

Average download speed, 2015

1st / 123 global metros

Asian Anchors (6)



Type 3: Emerging Gateways



Type 3: Emerging Gateways

42.5%

higher traded sector productivity compared with national average, 2015

Rosario Ibarra de Piedra

48th / 123 global metros



Mexico City

6.2%

of academic publications in top 10 percent of cited papers, 2010-2013

105th / 123 global metros

Emerging Gateways (28)





Type 4: Factory China



Type 4: Factory China

+14.7%

Annual GDP growth, 2000-2015

1st / 123 global cities



Hefei

12.2%

of adult population holds a college degree

100th / 123 global cities

Factory China (22)





Type 5: Knowledge Capitals



Knowledge Capitals (19)


Type 5: Knowledge Capitals



\$131,073

GDP per worker, 2015

1 1th / 123 global cities



San Diego

5.19 patents

per thousand persons, 2012

2nd / 123 global cities

Knowledge Capitals (19)





Type 6: American Middleweights



American Middleweights (16)



Type 6: American Middleweights

5.4%

lower traded sector productivity compared with national average, 2015

109th / 123 global cities



Indianapolis

14.1%

of academic publications in top 10 percent of cited papers, 2010-2013

42nd / 123 global cities

American Middleweights (16)





Type 7: International Middleweights



International Middleweights (26)



Type 7: International Middleweights



1.2%

GDP growth, 2000-2015

106th / 123 global cities



Barcelona

\$3,403

FDI investment per capita, 2015

8th / 123 global cities

International Middleweights (26)









Takeaways from Redefining Global Cities

All cities are global

Cities play distinct roles in the global economy

The work to engage globally is ongoing



1 What makes a global city?

The seven types of global cities

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How global cities can become more competitive



Competitive assets should guide local strategies



Strategies for Global Giants



Strategies for Global Giants



LONDON

Strategies for Emerging Gateways



Strategies for Emerging Gateways





Strategies for American Middleweights



Strategies for American Middleweights



COLUMBUS



"The problem [is] not globalization, but how the process [is] being managed."

- Joseph Stiglitz

Source: "Globalization and its New Discontents," Project Syndicate, August 2016



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CICP Initiatives and Programs



Central Indiana Corporate Partnership



1





SC Technical College System Organizational Structure



SC Technical College System's Division of Economic Development