

How Changing Industry Trends Can Rebuild the U.S. Apparel Industry

By Eric Pardee, MBA

Recent history of the U.S. Textile and Apparel Industry, 1960-2015

- Until the 1960's, U.S. clothing and footwear industries mass-produced standardized styles mostly within their borders
- In the 1990's, retailers began expanding their product ranges and sought to develop more fashionable designs for less
- This increasingly moved production toward large low-cost labor markets such as China
- A slough of free-trade agreements, such as NAFTA, and most recently the ending of the Multi-fiber Arrangement (MFA), intensified the shift toward globalization

1960's

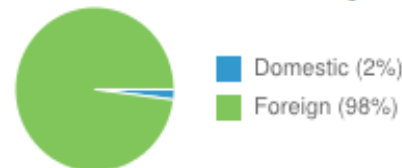
Percent of Clothing Made in the U.S.



Sources: PBS, Bureau of Labor Statistics

Today

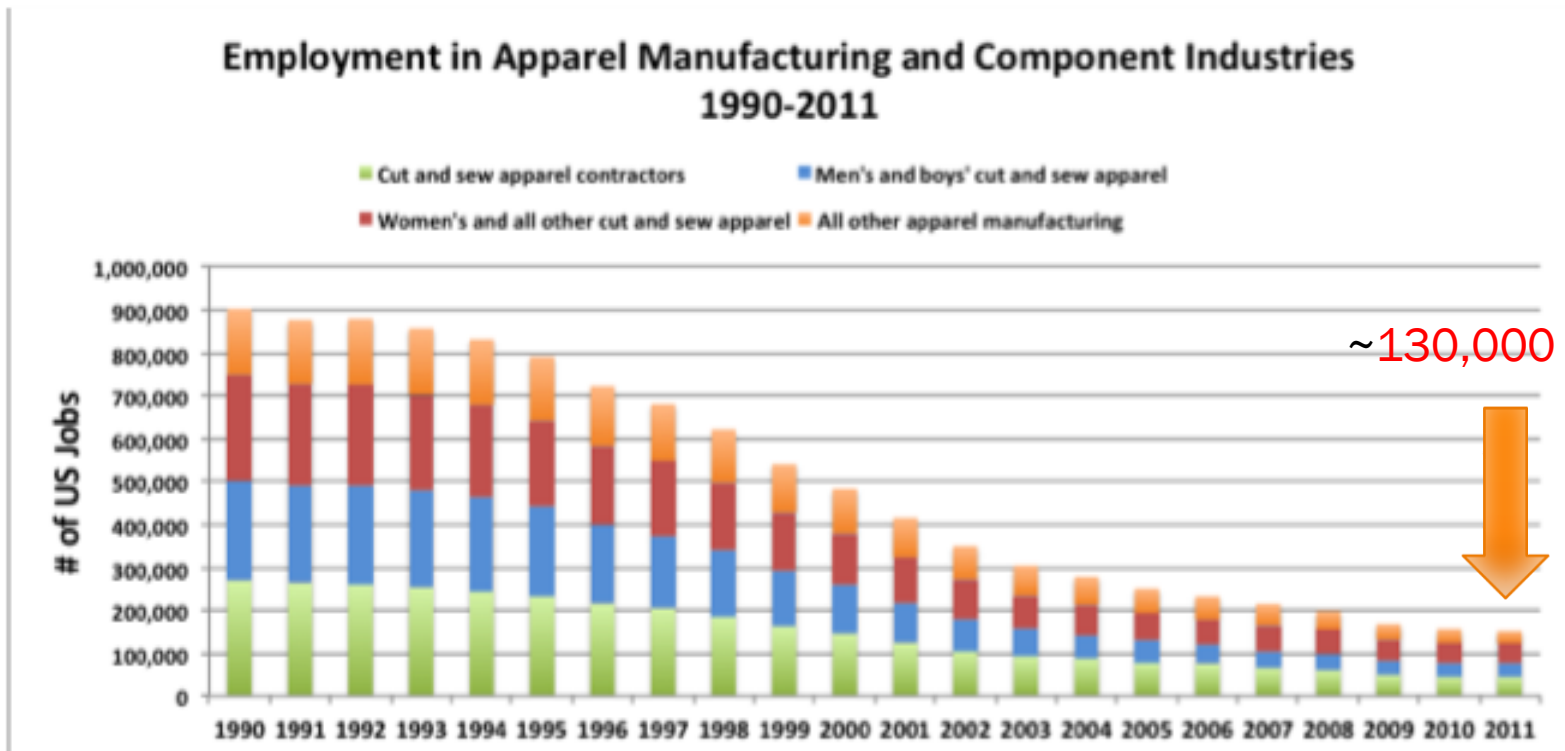
Percent of Clothing Made in the U.S.



Source: American Apparel and Footwear Assoc., Bureau of Labor Statistics

What this meant for U.S. TCLF employment

- In 1971, the U.S. employed approximately 1.2 million Americans in the Apparel Manufacturing and Component Industries
- Today, that number continues to fall, but has stabilized close to 130,000¹



¹This number represents the U.S. Cut and Sew industry only

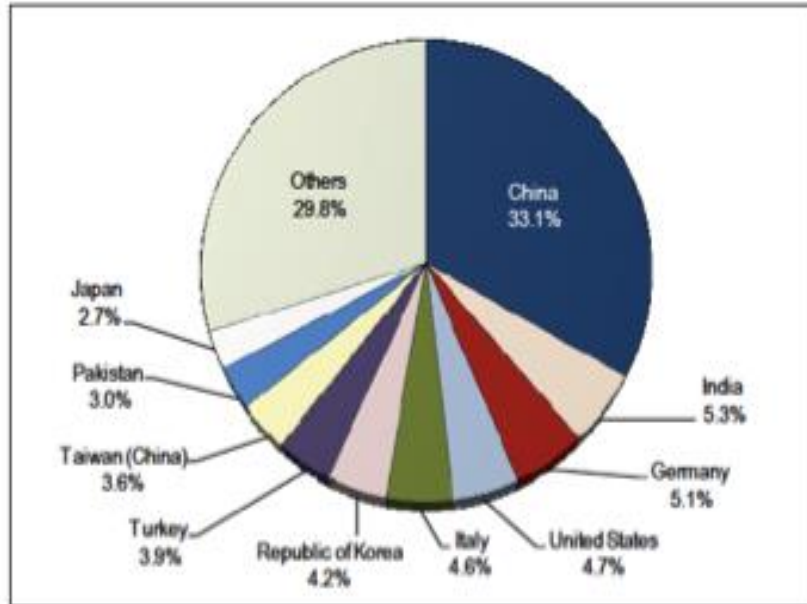
Source: Bureau of Labor Statistics²

Source: United States Department of Labor

Where production occurs now (est. 2012)

World Top 10 Textile Exporters

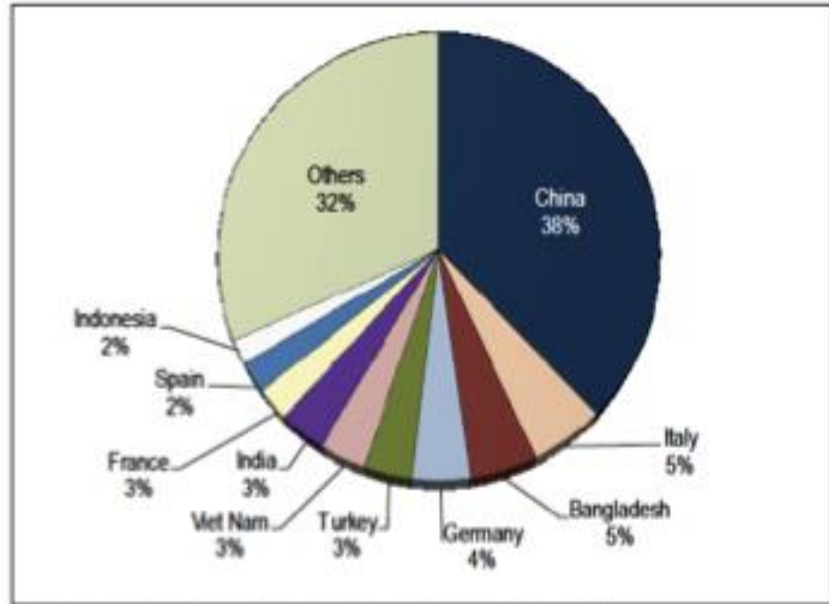
World's top 15 textiles exporters: Share of world's total textiles exports, 2012



- | | |
|-------------------------|-------------|
| 1. China | 6. Korea |
| 2. India | 7. Turkey |
| 3. Germany | 8. Taiwan |
| 4. United States | 9. Pakistan |
| 5. Italy | 10. Japan |

Worlds Top 10 Apparel Exporters

World's top 15 clothing exporters: Share of world's total clothing exports, 2012

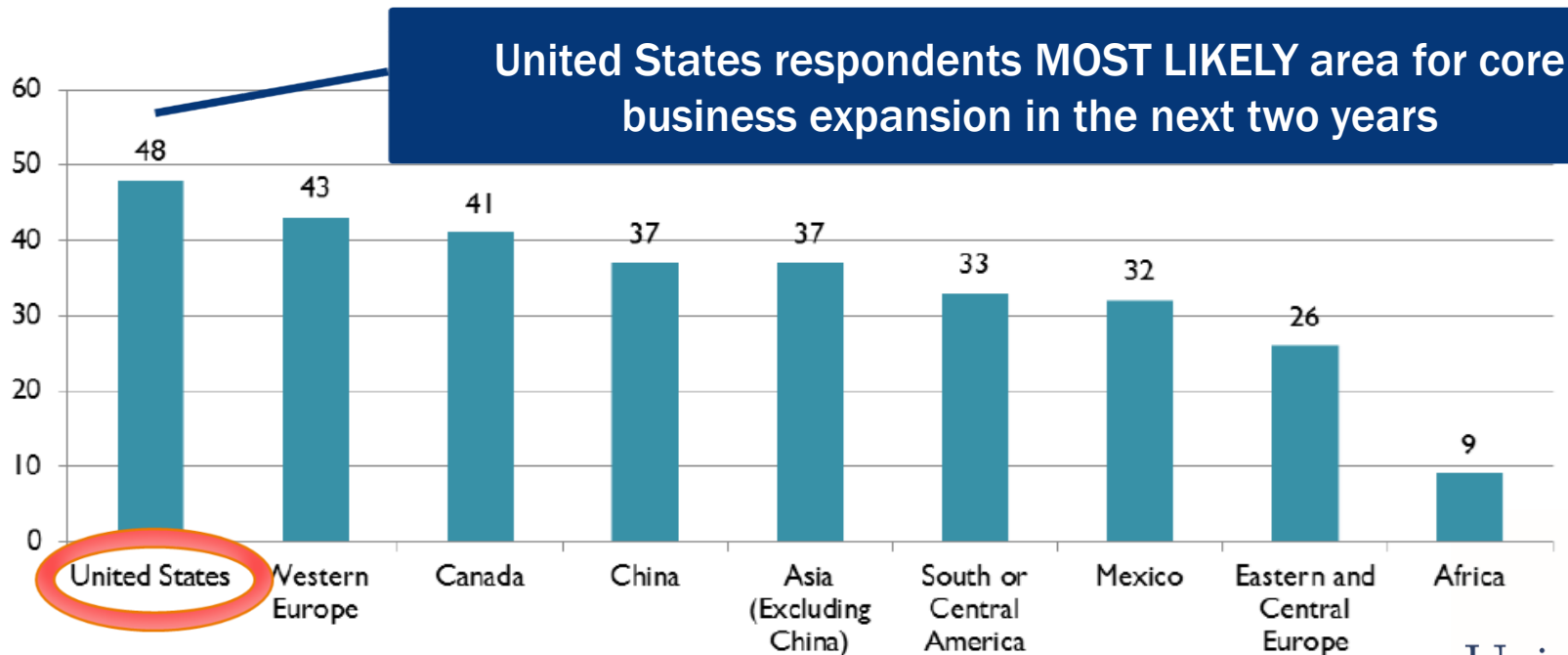


- | | |
|---------------|---------------|
| 1. China | 6. Vietnam |
| 2. Italy | 7. India |
| 3. Bangladesh | 8. France |
| 4. Germany | 9. Spain |
| 5. Turkey | 10. Indonesia |

Beginning of trend back to U.S. production

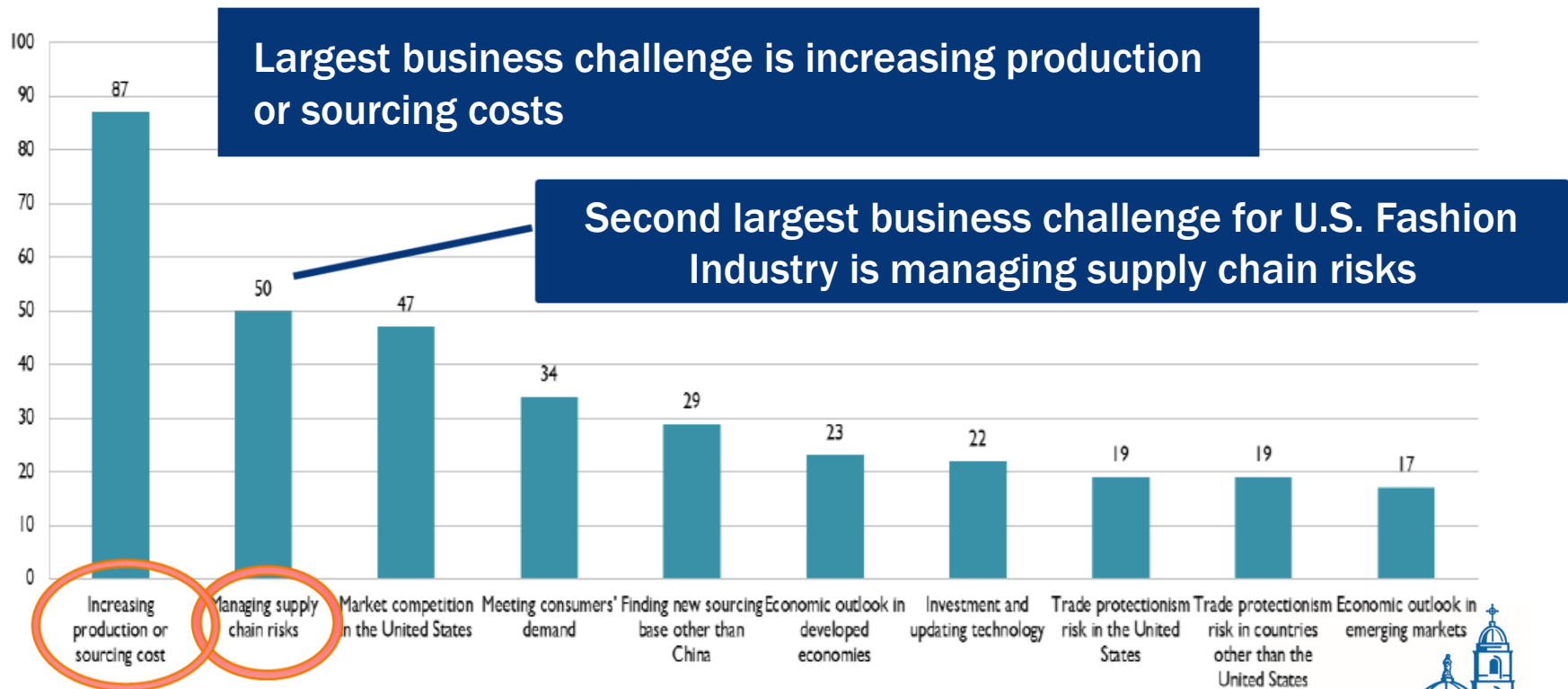
However, changing industry trends are beginning to make U.S. production look more attractive....

- The United States Fashion Industry surveyed executives at leading U.S. fashion companies about top business challenges facing their industry
- Scores are measured on a weighted scale, with a higher number of points awarded to the answer respondents find the most significant



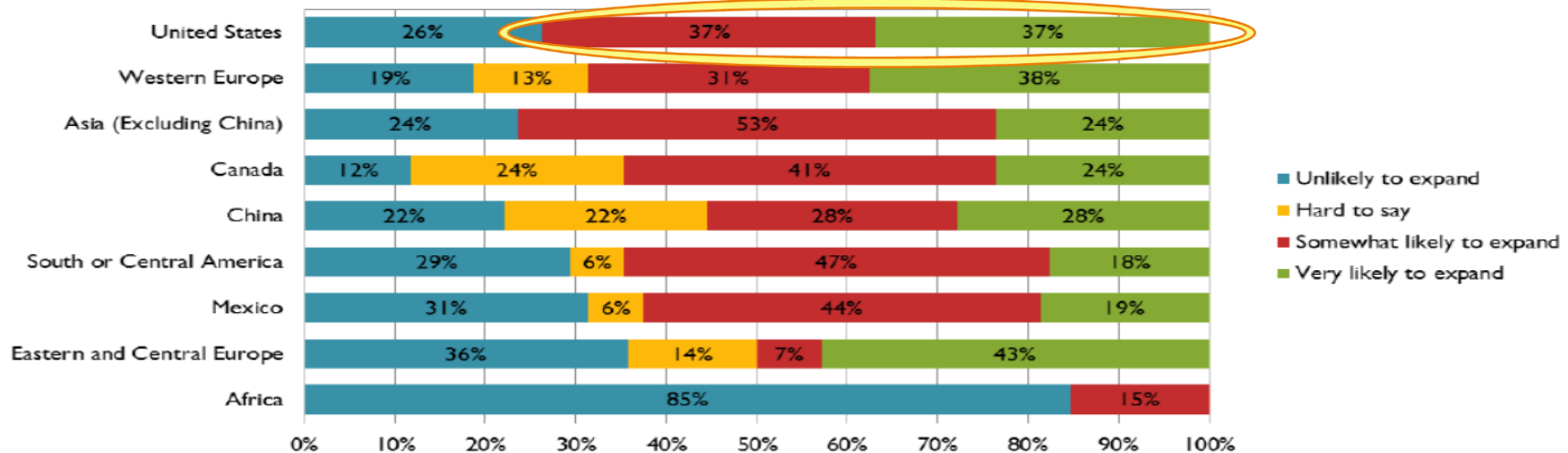
Beginning of trend back to U.S. production (cont.)

When asked what respondents most pressing business challenge in the upcoming year will be...

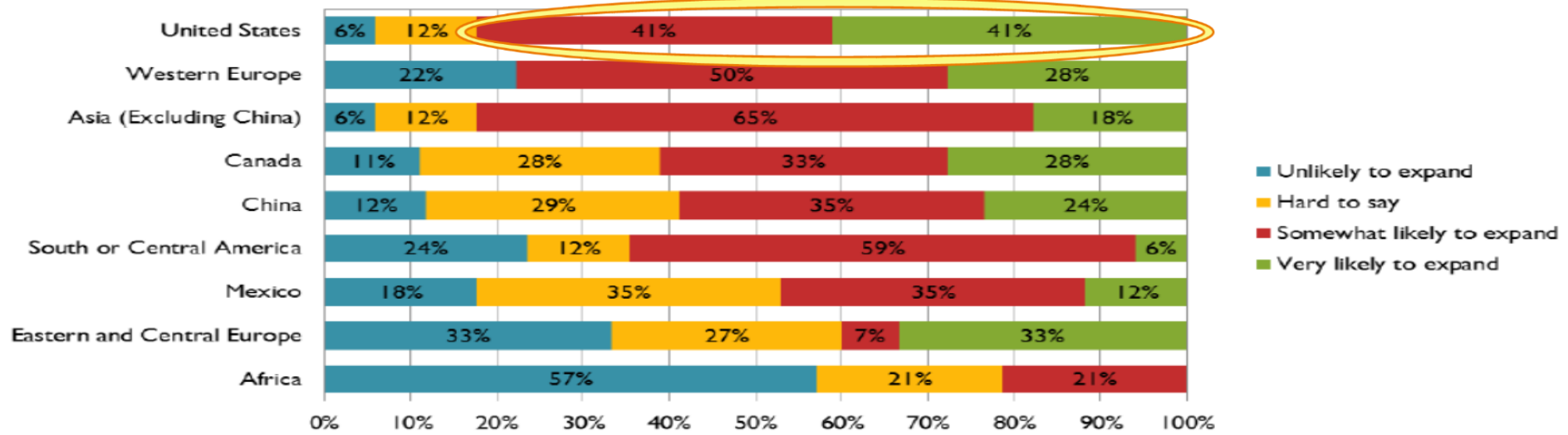


Business will be expanding in the United States

74% of retailers say they are **somewhat** or **very likely** to **expand** retail business in the United States



82% of importers/wholesalers say they are **somewhat** or **very likely** to **expand** business in the United States



Why the interest in U.S. sourcing and manufacturing

- A short, efficient supply chain can mean the difference between profitability and failure
- The **rise and success of “fast-fashion”** requires much more flexibility, with a business strategy providing up-to-the-minute styles and trends to consumers at relatively low prices
- This can only be achieved with short lead-times, which are not possible when contracting overseas

Typical retailer development calendar from concept to consumer averages 52 weeks

Today's supply chain must have options for 26 week deployment, and “fast track” capabilities of 13 weeks

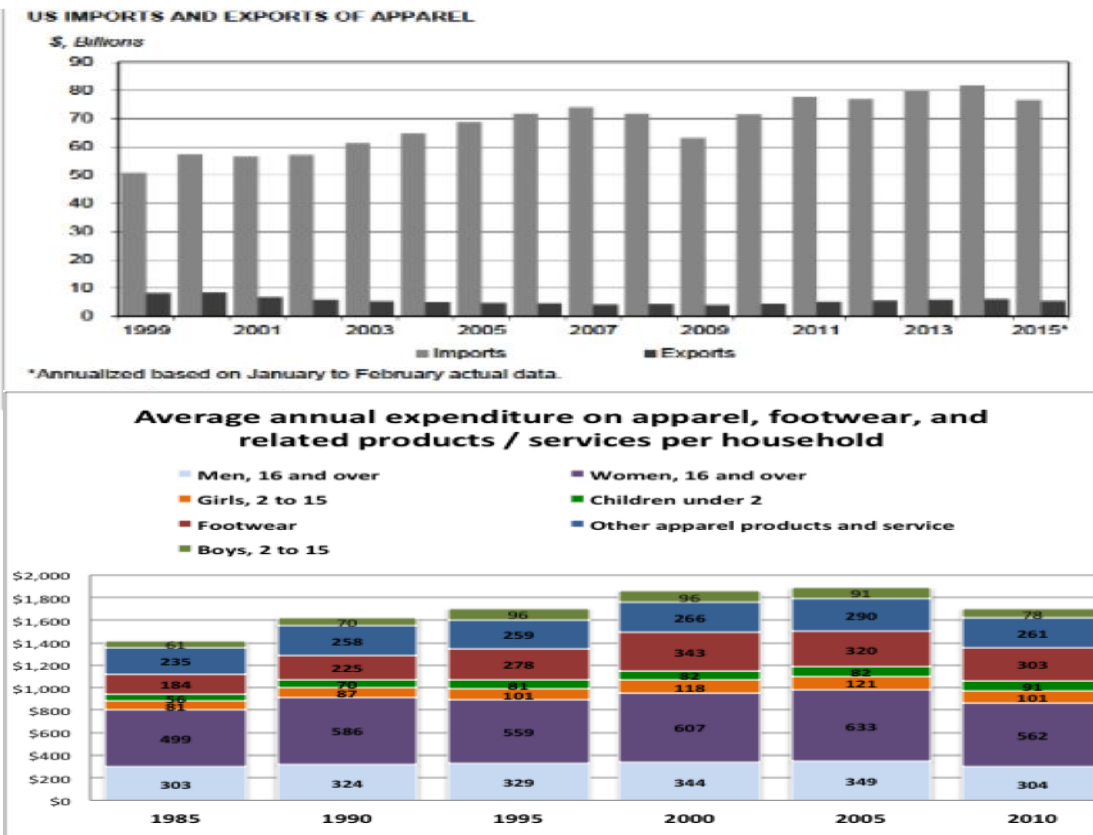
Why the interest in U.S. sourcing and manufacturing

A strategic approach

- More suppliers adopting a “Dual Sourcing” strategy
- Increasing sourcing diversity mitigates risk, increases options
- More regional strategy appearing, where production in China is for the Chinese, U.S. production (or close to U.S.) is for Americans

Current U.S. Apparel Market

- The U.S. apparel market is the second largest in the world, comprising about 28% of the global total, with a market value of close to \$331 billion
- Apparel worth \$81.8 billion was imported into the US in 2014, up 2.5% from 2013.
- In 2014, imports from China, which accounted for 36.4% of US apparel imports, increased 0.04% from 2013.

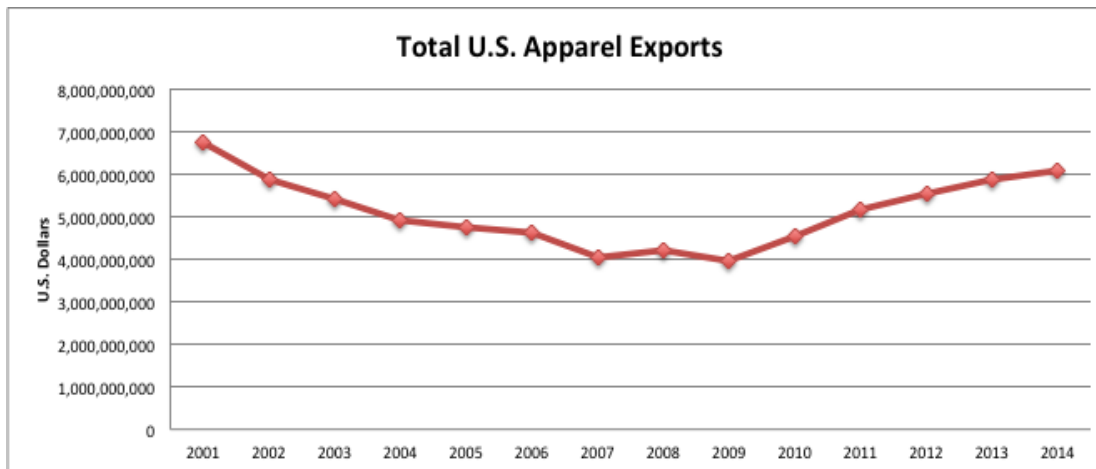


U.S. apparel imports and exports

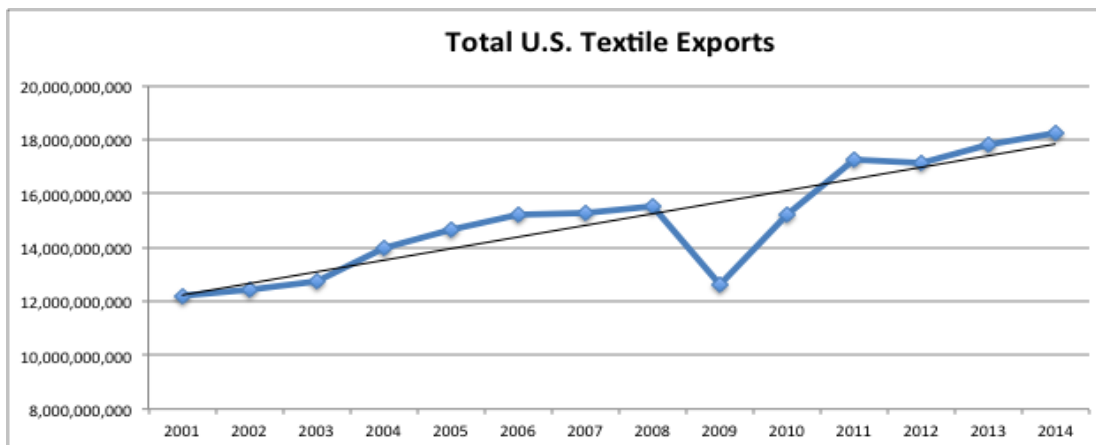
2010 average U.S. yearly apparel expenditure by demographic;
 Children under 2: \$91
 Boys 2-15: \$78
 Girls 2-15: \$101
 Men 16 & over: \$304
 Women 16 & over: \$562
 Footwear: \$303
 Other: \$261

Current U.S. Apparel and Textile exports

- 89% of industry CEO's are optimistic to somewhat optimistic about the next 5 years in the U.S. apparel industry



- Apparel exports had been declining until 2009, now see positive trend



- Textile exports have seen consistent growth (with exception of 2009)

Current U.S. apparel industry wages and total U.S. employment

- In 2010, there were 7,855 private business establishments in the apparel manufacturing industry, employing 157,587 workers

Occupation	Employment	Mean annual wages
Sewing machine operators	142,860	\$23,080
Pressers, textile, garment, and related materials	52,790	\$20,530
Textile winding, twisting, and drawing out machine setters, operators, and tenders	27,400	\$26,460
Tailors, dressmakers, and custom sewers	25,530	\$28,800
Textile knitting and weaving machine setters, operators, and tenders	21,160	\$26,760
Fashion designers	16,010	\$73,930
Textile, apparel, and furnishings workers, all other	13,980	\$28,850
Textile bleaching and dyeing machine operators and tenders	11,870	\$24,980
Fabric and apparel patternmakers	6,410	\$44,650
Sewers, hand	5,460	\$25,590
Shoe and leather workers and repairers	5,360	\$25,680

Percentile	10%	25%	50%	75%	90%
Hourly Wage	\$8.33	\$8.95	\$10.54	\$13.45	\$16.77
Annual Wage	\$17,330	\$18,610	\$21,920	\$27,970	\$34,880

Concentration of Employment

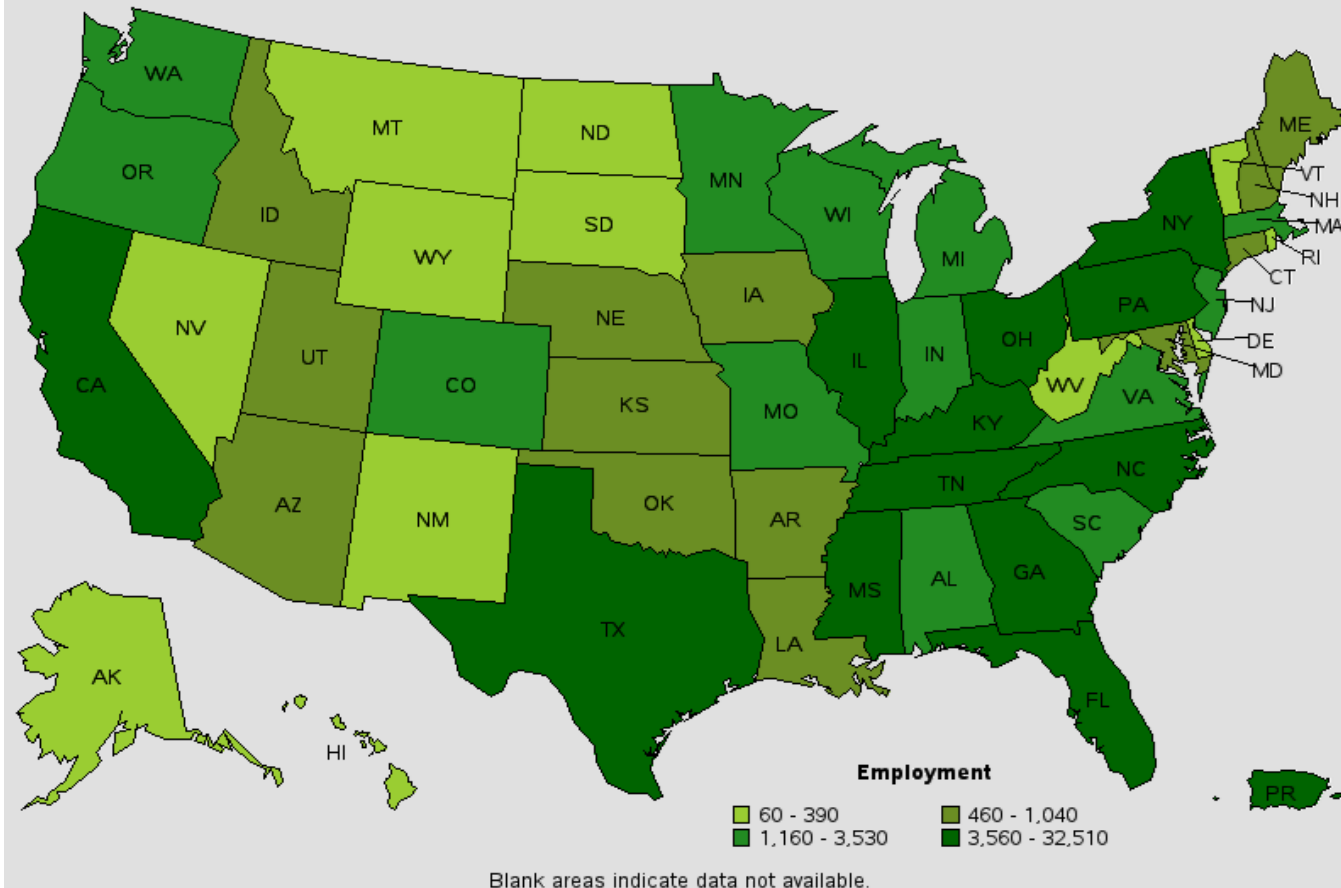
- In 2010 only two U.S. counties have more than 500 business establishments—Los Angeles county, California (2,509) and New York county, New York (803).

Apparel Manufacturing Establishments
by county, 2010 annual averages



Labor availability by state

Employment of sewing machine operators, by state, May 2014



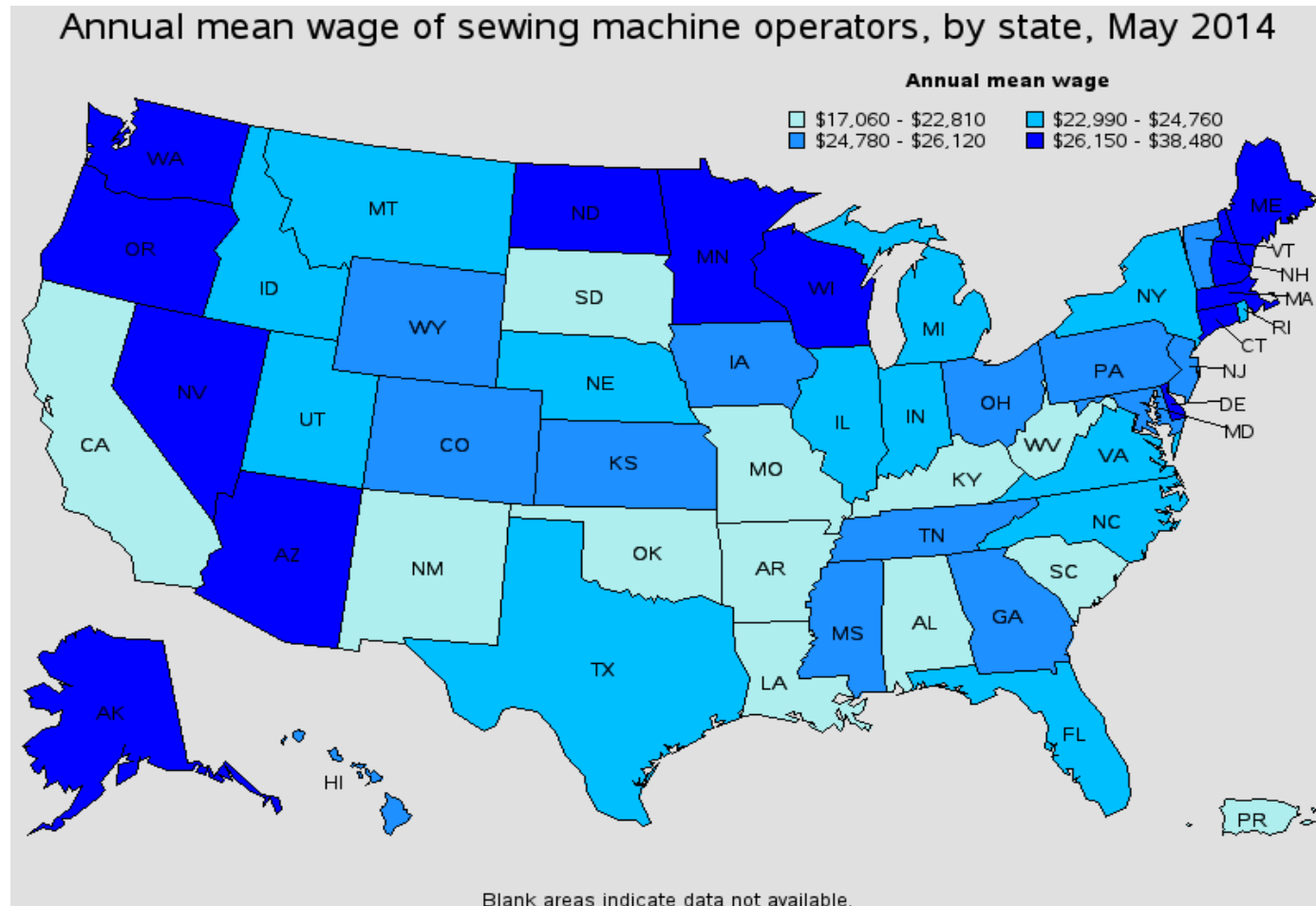
Granular breakdown of labor by state

State	Employment (1)	Employment per th	Location quo	Hourly mean	Annual mean wage (2)
California	32,510	2.15	2.05	\$10.39	\$21,600
New York	12,430	1.41	1.34	\$11.72	\$24,380
North Carolina	8,650	2.15	2.04	\$11.84	\$24,620
Texas	8,180	0.73	0.69	\$11.08	\$23,040
Florida	5,880	0.77	0.73	\$11.50	\$23,930

Metropolitan area	Employment	Employment per th	Location quo	Hourly mean	Annual mean wage
Los Angeles-Long Beach-Glendale, CA Metropol	24,670	6.08	5.78	\$10.00	\$20,800
New York-White Plains-Wayne, NY-NJ Metropoli	10,620	1.97	1.87	\$11.47	\$23,850
Chicago-Joliet-Naperville, IL Metropolitan Divisio	3,000	0.8	0.76	\$11.72	\$24,380
Santa Ana-Anaheim-Irvine, CA Metropolitan Divi	2,660	1.79	1.71	\$11.01	\$22,900
Atlanta-Sandy Springs-Marietta, GA	2,500	1.04	0.99	\$11.76	\$24,450
Dallas-Plano-Irving, TX Metropolitan Division	2,460	1.1	1.04	\$11.00	\$22,880
Seattle-Bellevue-Everett, WA Metropolitan Divis	2,420	1.62	1.54	\$14.18	\$29,490
Greensboro-High Point, NC	2,170	6.21	5.9	\$11.69	\$24,310
Hickory-Lenoir-Morganton, NC	1,980	13.74	13.07	\$14.85	\$30,900
Miami-Miami Beach-Kendall, FL Metropolitan Di	1,730	1.65	1.57	\$10.41	\$21,650

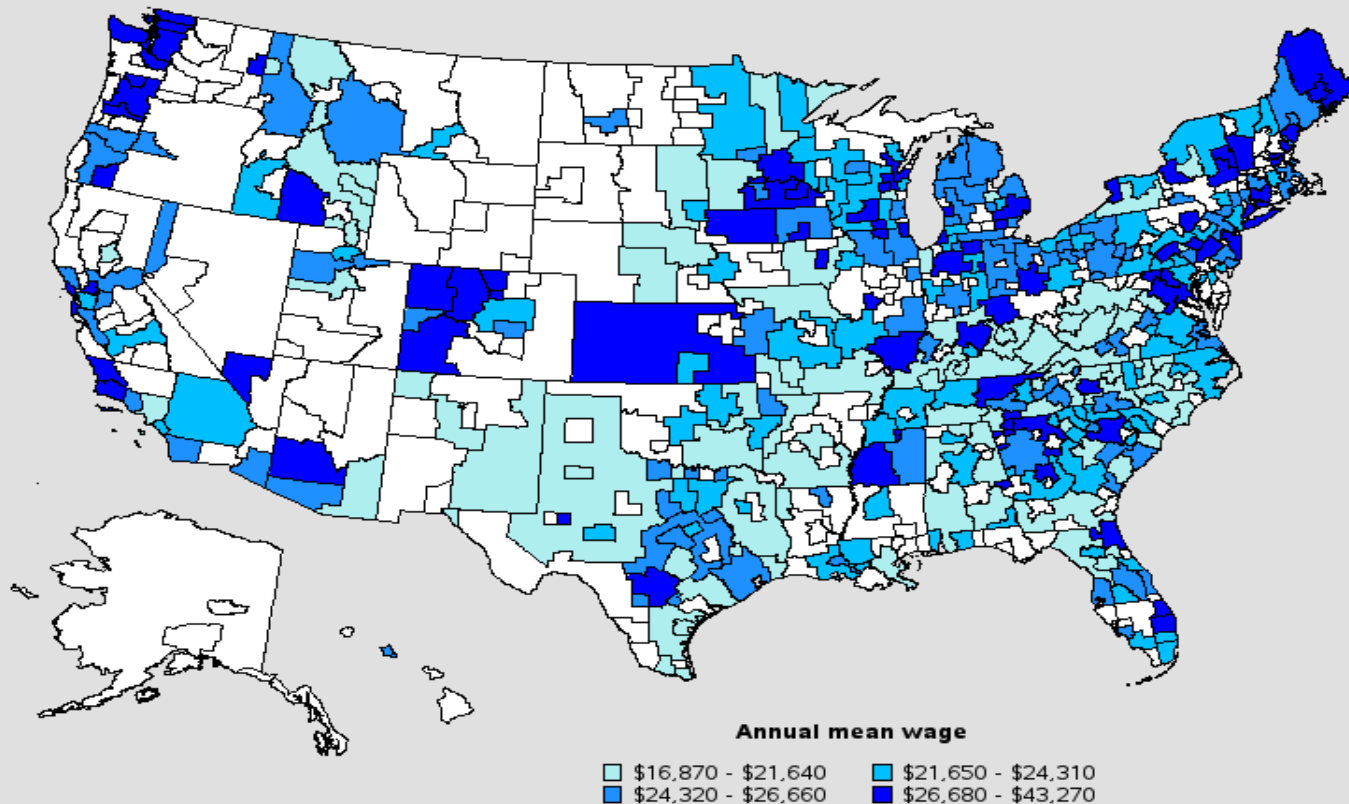
Nonmetropolitan area	Employment	Employment per th	Location quo	Hourly mean	Annual mean wage
Northeast Mississippi nonmetropolitan area	2,790	12.96	12.32	\$12.30	\$25,570
South Central Kentucky nonmetropolitan area	1,200	7.05	6.71	\$9.37	\$19,490
Northeast Alabama nonmetropolitan area	890	6.42	6.1	\$10.10	\$21,000
North Central Tennessee nonmetropolitan area	880	7.77	7.39	\$16.17	\$33,630
Other North Carolina nonmetropolitan area	790	2.66	2.53	\$10.36	\$21,540

Avg. mean wage of sewing operator by state



Annual mean wage of sewing operator by county

Annual mean wage of sewing machine operators, by area, May 2014



Blank areas indicate data not available.

Benefits of U.S. manufacturing and sourcing

- Greatly reduced lead time
- Improved quality
- Increased innovation
- Made in USA image
- Falling energy prices
- Favorable economic conditions
- Proximity to worlds largest apparel market
- Automation has made textile production less expensive than abroad
- Lower Inventory Levels
- Greater Ability to Respond to Consumer Trends
- Less need to predict future demand
- Increase in Asset Turnover ratio
- Proximity to inexpensive labor force
- Free Trade Agreements

Cost and Benefits of Overseas Production

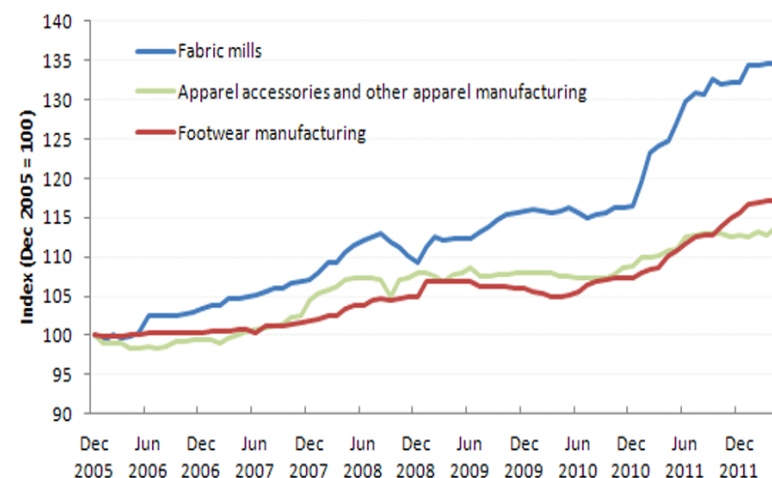
Costs

- Greatly increased lead times
- Loss of supply chain control
- Greater possibility of supply chain interruption
- Often lower quality product
- Currency fluctuation risk
- Rising labor rates
- Rising shipping rates
- Difficulty ensuring safety and regulatory measures
- Potential negative PR episode
- Cross-cultural differences

Benefits

- Lower labor cost
- Access to foreign market
- Large available labor market

Import price indexes, selected industries, December 2005–April 2012



Source: U.S. Bureau of Labor Statistics

Apparel companies that have, or plan on Reshoring

School House

- Began routinely receiving shipments from Sri Lanka factory 1-3 months late
 - Since school house placed small orders they were being given second priority to the larger companies orders
- In 2011, Rachel Weeks, School House CEO, moved all production back to U.S. contractors
 - Eliminated late fee's
 - Saves \$5,000 per month on staff to oversee Sri Lankan production
 - Was able to catch in vogue neon shirt fashion trend
 - Profit margins have risen to 35-40% from 22% when work was offshore

Karen Kane

- Began seeing more frequent flaws in clothing shipments from China
- Demand was hard to predict, leading to sharp markdowns and lack of inventory
- Moved 90% of production to U.S., saw a 15% sales bump in clothing promoted with Made in USA label

American Giant

- Like School House, couldn't afford to hire permanent staff to oversee Indian production

Brooks Brothers

Todd Shelton

American Giant (Parkdale Mills)



- American clothing company based out of San Francisco, CA
 - Manufactures in North Carolina and California
- Previously bought fabric from India
 - Bayard Winthrop, CEO, says it is now cheaper to shop in the USA
- Advantages of US production according to Bayard Winthrop
 1. Transportation costs are a fraction of what they were
 2. Turnaround time is quicker
 3. Higher quality items
 4. Monitoring worker safety was a challenge when offshoring
 5. Sales boost from Made in USA quality image
 6. Labor costs AREN'T much higher due to automation

Representative wholesale costs, according to Bayard Winthrop, the founder of American Giant.



Turning cotton into yarn, knitting yarn into fabric and dyeing fabric are all relatively automated steps, so prices in the United States can beat overseas ones.

The labor for a sweatshirt made in the U.S. — including cutting and sewing — is about three times as expensive as in Asia.

These totals exclude factors like quality control and lead times, where Mr. Winthrop says the U.S. has a big advantage.

A replicable business model for the U.S.

ZARA

- Zara is world's most successful “fast fashion” retailer, \$13.6 billion in revenue in 2012
- Speed and responsiveness more important than cost
- Achieves growth through diversification and vertical integration
 - Keeps a significant amount of production “in-house”
- Manufactures about 60% of its products in Spain, Morocco, Turkey, and Portugal
 - The items produced at these locations are the trendier lines, often riffs on the latest fashion trends
 - These areas are considered relatively high-wage areas of the world
 - Zara offsets higher labor costs through greater flexibility, no extra inventory, and faster turnaround speed
 - The rest of Zara's inventory, the more predictable items such as T-shirts, sweaters, etc. are scheduled about 6 months in advance and produced in traditional low cost factories in Asia
- Zara utilizes a highly responsive supply chain (impossible with far away outsourced manufacturing),
- Centralized logistics and distribution
 - “Just-in-Time” manufacturing
- Highly automated factories

Key advantages to Zara's production model

- Can take product from concept to retail in **14 days**, industry standard is 6-months
- Industry averages 30-40% of items sold at discount, Zara averages 10-15%
- Industry average of unsold stock is 17-20%, Zara's is <10%
- Zara only commits **15-25%** of its product line 6 months in advance
 - Locks in only 50-60% of its product line at the start of the season
 - Leaves up to 50% of its clothes to be designed in the middle of the season
 - Business model suited to catch trends while still peaking
- **Production facilities located closer to home allow for more numerous, smaller shipments**
 - Also allows for much more efficient coordination

U.S. firms replicating Zara strategy

- **U.S. textile factories have kept pace with automation and productivity**
 - Raw material costs equal to low-cost labor countries
- **Availability of near, low-cost labor**
 - Mexico and Caribbean / Portugal, Morocco, Turkey
- **Comparable monthly wages to Spain**
 - \$24.19/hr.. US to \$20.05/hr. Spain in the Textiles and Wearing Apparel Industry in 2012
- **Comparable labor force**
 - Total U.S. Textile Workforce
 - 138,000*
- **Low competition in fast-fashion sector**
 - Zara and H&M's manufacturing hubs located in Europe
 - Other large brands (Gap, Nike, Under Armor) still currently outsourcing and using traditional retail model of distant demand prediction

Implications on operating income

- Using Zara's average % markdown on inventory sold vs. industry average markdown, with American Giant's cost of goods sold (COGS)

Indian Production

- Unit Cost: \$31.52

Retail Price: \$80

Gross Profit per Item: \$48.48

Profit Margin: 60.59%

US Production

- Unit Cost: \$38.10

Retail Price: \$80

Gross Profit per Item: \$41.90

Profit Margin: 52.38%

17.26% Price reduction with Indian manufacturing

Until markdown is applied...

Gross Profit and Margin at 20% Markdown

	Industry Average Revenue	Fast Fashion Average	COGS	Gross	Gross Profit %
Total Sales (10,000 Baseline) at 100% Retail	\$800,000	\$800,000			
15% of Items sold at 20% discount		\$776,000	\$381,000	\$395,000	50.90%
20% of Items sold at 20% discount		\$768,000	\$381,000	\$387,000	50.39%
30% of Items sold at 20% discount	\$752,000		\$315,248	\$436,752	58.08%
35% of Items sold at 20% discount	\$744,000		\$315,248	\$428,752	57.63%
40% of Items sold at 20% discount	\$736,000		\$315,248	\$420,752	57.17%

Difference in Gross Profit only **\$25,752-\$49,752**, or a margin of **6.27%-7.96%**

This drops to **\$5,752 - \$41,752** at 30% markdown!