



WORLD TRADE CENTER®
LOS ANGELES

FOREIGN DIRECT INVESTMENT

IN SOUTHERN CALIFORNIA, 2019

IN PARTNERSHIP WITH



INTRODUCTION

If uncertainty characterized the 2018 international trade and investment landscape, distinct deadlines with unclear outcomes color the emerging portrait of 2019. Though originally scheduled for March 29 of this year, the European Council and UK Government agreed to postpone the UK's final exit from the Union until October 31 at the latest. The USMCA (the United States Mexico Canada Agreement) – the intended replacement agreement for NAFTA – remains unratified by the US Congress despite executive approval from all three governments at the G20 summit in November. With tariffs in place between Canada and Mexico and the United States, the greater peril of the US withdrawing from NAFTA entirely, and a divided US government, the road to ratification is uncertain. Finally, fears of a Chinese economic slowdown held by economists and the global market continue to loom large as the year progresses. Across the globe, key political decisions worth trillions will play out before year end.

As the 13th largest economy in the world, the six-county Southern California region supports and is supported by a profound interconnection with the global economy and rich bilateral and multilateral relationships with partners across all continents. Now in its fourth edition, the World Trade Center Los Angeles (WTCLA) and the Los Angeles County Economic Development Corporation (LAEDC) once again present a report on the status and trends of international trade and investment in Southern California (defined as the counties of Los Angeles, Orange,

Riverside, San Bernardino, San Diego and Ventura).

In addition to continuing to provide critical information regarding the region's economic interactions with its global partners, taking the form of statistics and trends concerning foreign-owned enterprises (FOEs), this body of research turns aside from ongoing global economic phenomena to reflect on FOEs in the context of regional sustainability. Indeed, since the previous report, Gavin Newsom has been inaugurated as governor of the State of California, and with a new state Legislature has enumerated policy goals for his administration of which climate change features prominently. In collaboration with the University of California Los Angeles (UCLA) International Institute and Center for Neighborhood Knowledge, this report presents an analysis of FOE location relative to several sustainability indicators: 1) average commute miles of workers; 2) jobs density; and 3) the availability of high-quality transit opportunities.

In 2018, 10,305 foreign-owned firms are estimated to operate in Southern California, representing roughly 1.2 percent of all firms in the region. These firms are estimated to employ 425,579 residents, which account for 5.4 percent of the region's employment, who earned an estimated \$31 billion in wages last year.

Table 1
CHANGE IN FOES BY SOURCE NATIONS, BETWEEN 2016-18, SOUTHERN CALIFORNIA

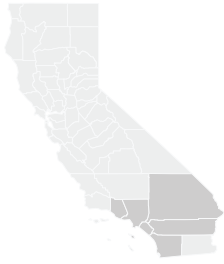
Rank	County	Jobs 2018	Jobs 2017	Jobs 2016	% Change in # of Jobs	Firms 2018	Firms 2017	Firms 2016	% Change in # of Firms	Avg Wage per Emp, 2018
1	Japan	81,751	85,874	87,247	-6.3%	2,407	2,541	2,465	-2.4%	\$75,665
2	United Kingdom	64,993	63,739	68,396	-5.0%	1,281	1,167	1,142	12.2%	66,895
3	France	44,611	38,261	35,981	24.0%	967	693	689	40.3%	72,193
4	Canada	42,714	40,819	39,798	7.3%	895	872	858	4.3%	77,211
5	Germany	27,449	32,881	34,141	-19.6%	837	940	858	-2.4%	68,226
6	Switzerland	23,216	24,292	24,675	-5.9%	370	385	387	-4.4%	90,614
7	Ireland	16,594	20,425	20,985	-20.9%	161	185	203	-20.7%	76,655
8	China	15,683	15,968	11,221	39.8%	448	467	323	38.7%	76,635
9	Sweden	10,408	11,344	23,177	-55.1%	119	124	121	-1.7%	52,702
10	Taiwan	10,145	9,492	8,035	26.3%	262	248	257	1.9%	74,552
11	South Korea	8,997	10,029	7,464	20.5%	286	306	262	9.2%	69,586
12	Australia	8,937	7,873	7,569	18.1%	241	218	202	19.3%	78,630
13	Netherlands	8,715	10,894	11,104	-21.5%	198	218	216	-8.3%	82,267
14	Mexico	6,485	6,704	6,673	-2.8%	251	260	254	-1.2%	65,628
15	Spain	6,169	6,426	6,764	-8.8%	117	119	116	0.9%	63,829
16	Thailand	5,779	786	774	646.6%	23	23	21	9.5%	82,365
17	Israel	5,162	4,445	4,495	14.8%	58	55	53	9.4%	75,997
18	India	4,107	4,169	3,535	16.2%	119	126	108	10.2%	77,228
19	Belgium	3,999	2,001	2,834	41.1%	62	71	72	-13.9%	58,265
20	Italy	3,478	3,290	3,096	12.3%	151	158	152	-0.7%	57,853
21	Hong Kong	3,407	2,389	2,286	49.0%	106	102	94	12.8%	59,761
22	Cayman Islands	3,245	2,709	2,745	18.2%	60	32	33	81.8%	60,411
23	Austria	2,417	1,622	1,304	85.4%	83	73	44	88.6%	53,205
24	Luxembourg	2,201	5,247	4,734	-53.5%	124	336	332	-62.7%	68,635
25	Rest of World	14,917	16,275	19,997	-25.4%	679	659	702	-3.3%	67,759
	TOTAL	425,579	427,954	439,030	-3.1%	10,305	10,378	9,964	3.4%	72,800

Table 2
CHANGE IN FIRMS AND JOBS, BY SECTOR, 2017-18

Sector	2018			CHANGE (2017-2018)	
	Jobs	Firms	Est. Wages (\$millions)	Jobs	Firms
Natural Resources	2,036	48	\$169.5	176	3
Construction	5,063	141	325.0	580	-10
Manufacturing	144,727	1,552	10,940.7	-3,103	-36
Wholesale Trade	53,540	1,682	3,902.3	553	-22
Retail Trade	41,439	2,619	1,443.1	-3,208	205
Transp, Warehousing & Utilities	21,481	501	1,256.0	-1,581	-21
Information	25,008	501	2,956.0	3,584	-68
Financial Activities	38,692	1,108	4,341.0	-1,102	-82
Prof/Business Services	59,493	1,254	4,338.3	285	-40
Education/Health	5,886	245	282.1	-59	3
Leisure/Hospitality	21,310	400	703.8	2,298	30
Other Services	5,942	169	238.8	203	-13
Public Administration	962	85	85.4	-1,001	-22
TOTAL	425,579	10,305	30,982.0	-2,375	-73

Table 3
CHANGE IN FIRMS AND JOBS, BY COUNTY, 2017-2018

Sector	2018			CHANGE (2017-2018)		
	Jobs	Firms	Est. Wages (\$millions)	Jobs	% of all FOE Jobs	Firms
Los Angeles	199,422	4,818	\$15,232.7	-1,389	-0.1%	-94
Orange	104,253	2,004	7,443.2	-5,488	-1.1%	-61
Riverside	18,800	633	4,510.7	1,924	0.5%	48
San Bernardino	23,060	830	1,165.7	268	0.1%	33
San Diego	59,752	1,625	937.4	538	0.2%	-1
Ventura	20,292	395	1,692.3	1,772	0.4%	2
TOTAL	425,579	10,305	30,982.0	-2,375	2.0%	-73



SOUTHERN CALIFORNIA

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS **425,579** FOE FIRMS **10,305** ESTIMATED WAGES **\$30,982M**

FOEs BY SOURCE NATION

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Japan	81,751	19.2%	2,407	\$6,185.7
2	United Kingdom	64,993	15.3%	1,281	4,347.7
3	France	44,611	10.5%	967	3,220.6
4	Canada	42,714	10.0%	895	3,298.0
5	Germany	27,449	6.4%	837	1,872.7
6	Switzerland	23,216	5.5%	370	2,103.7
7	Ireland	16,594	3.9%	161	1,272.0
8	China	15,683	3.7%	448	1,201.9
9	Sweden	10,408	2.4%	119	548.5
10	Taiwan	10,145	2.4%	262	756.3
	All Others	88,015	20.7%	2,558	6,174.8
TOTAL		425,579	100.0%	10,305	30,982.0

FOEs BY INDUSTRY SECTOR

Major Industry	Jobs	Firms	Est. Wages (\$millions)
Natural Resources	2,036	48	\$169.5
Construction	5,063	141	325.0
Manufacturing	144,727	1,552	10,940.7
Wholesale Trade	53,540	1,682	3,902.3
Retail Trade	41,439	2,619	1,443.1
Transp / Warehouse / Util	21,481	501	1,256.0
Information	25,008	501	2,956.0
Financial Activities	38,692	1,108	4,341.0
Prof/Business Services	59,493	1,254	4,338.3
Education/Health	5,886	245	282.1
Leisure/Hospitality	21,310	400	703.8
Other Services	5,942	169	238.8
Public Administration	962	85	85.4
TOTAL	425,579	10,305	30,982.0



LOS ANGELES COUNTY

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS **199,422** FOE FIRMS **4,818** ESTIMATED WAGES **\$15,233M**

FOEs BY SOURCE NATION

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Japan	40,747	20.4%	1,203	\$3,205.2
2	United Kingdom	27,165	13.6%	573	1,982.6
3	France	21,496	10.8%	473	1,565.8
4	Canada	18,104	9.1%	350	1,596.3
5	Germany	15,471	7.8%	174	1,544.8
6	Switzerland	12,704	6.4%	353	911.0
7	Ireland	5,917	3.0%	240	450.9
8	China	5,771	2.9%	143	412.4
9	Sweden	5,604	2.8%	126	452.4
10	Taiwan	4,935	2.5%	77	468.0
	All Others	41,508	20.8%	1,106	2,643.3
TOTAL		199,422	100.0%	4,818	15,232.7

FOEs BY INDUSTRY SECTOR

Major Industry	Jobs	Firms	Est. Wages (\$millions)
Natural Resources	790	19	\$83.4
Construction	969	43	61.6
Manufacturing	45,361	559	3,251.5
Wholesale Trade	24,772	804	1,593.3
Retail Trade	20,089	1,131	710.8
Transp / Warehouse / Util	16,867	343	1,035.6
Information	17,374	292	2,259.9
Financial Activities	27,587	552	3,348.1
Prof / Business Services	24,638	600	2,011.8
Education / Health	2,443	87	111.7
Leisure / Hospitality	13,583	234	511.3
Other Services	4,079	79	175.4
Public Administration	870	75	78.1
TOTAL	199,422	4,818	15,232.7



ORANGE COUNTY

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS **104,253** FOE FIRMS **2,004** ESTIMATED WAGES **\$7,443M**

FOEs BY SOURCE NATION

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Japan	21,334	20.5%	512	\$1,583.8
2	United Kingdom	19,449	18.7%	219	1,050.7
3	Canada	11,105	10.7%	160	854.4
4	France	9,475	9.1%	183	686.8
5	China	7,521	7.2%	85	607.8
6	Ireland	6,136	5.9%	42	473.3
7	Germany	5,190	5.0%	170	401.0
8	Taiwan	3,119	3.0%	72	251.7
9	Israel	2,993	2.9%	15	232.8
10	Switzerland	2,406	2.3%	80	189.2
	All Others	15,525	14.9%	466	1,111.6
TOTAL		104,253	100.0%	2,004	7,443.2

FOEs BY INDUSTRY SECTOR

Major Industry	Jobs	Firms	Est. Wages (\$millions)
Natural Resources	113	8	\$7.3
Construction	1,688	33	120.5
Manufacturing	41,366	378	3,155.9
Wholesale Trade	16,659	383	1,431.4
Retail Trade	9,806	463	355.6
Transp / Warehouse / Util	1,668	45	88.5
Information	3,344	75	359.6
Financial Activities	4,454	199	467.4
Prof / Business Services	21,051	289	1,316.0
Education / Health	1,195	46	60.1
Leisure / Hospitality	2,510	56	65.2
Other Services	384	28	14.4
Public Administration	15	1	1.3
TOTAL	104,253	2,004	7,443.2



RIVERSIDE COUNTY

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS **18,800** FOE FIRMS **633** ESTIMATED WAGES **\$937M**

FOEs BY SOURCE NATION

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Canada	3,132	16.7%	90	\$141.2
2	Japan	2,312	12.3%	103	121.3
3	United Kingdom	2,220	11.8%	94	98.9
4	Germany	1,847	9.8%	50	95.0
5	Switzerland	1,587	8.4%	20	89.2
6	Sweden	1,472	7.8%	14	71.5
7	France	1,110	5.9%	62	45.5
8	Spain	1,015	5.4%	25	65.3
9	Ireland	637	3.4%	16	32.7
10	South Korea	539	2.9%	7	27.0
	All Others	2,929	15.6%	152	149.8
TOTAL		18,800	100.0%	633	937.4

FOEs BY INDUSTRY SECTOR

Major Industry	Jobs	Firms	Est. Wages (\$millions)
Natural Resources	128	5	\$5.1
Construction	1,018	13	56.3
Manufacturing	8,063	104	435.9
Wholesale Trade	1,930	90	129.5
Retail Trade	1,704	209	53.5
Transp / Warehouse / Util	531	19	21.4
Information	367	22	20.2
Financial Activities	1,486	77	98.9
Prof/Business Services	2,279	36	81.0
Education/Health	238	17	10.0
Leisure/Hospitality	974	30	22.6
Other Services	82	11	2.8
Public Administration	-	-	-
TOTAL	18,800	633	937.4



SAN BERNADINO COUNTY

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS **FOE FIRMS** **ESTIMATED WAGES**
23,060 **830** **\$1,166M**

FOEs BY SOURCE NATION

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Japan	3,448	15.0%	144	\$166.2
2	Germany	3,068	13.3%	84	156.0
3	Canada	2,944	12.8%	100	158.5
4	France	2,387	10.4%	64	111.3
5	United Kingdom	1,304	5.7%	69	57.4
6	China	1,032	4.5%	63	55.6
7	Mexico	977	4.2%	34	47.9
8	Switzerland	942	4.1%	30	47.4
9	Australia	743	3.2%	20	41.5
10	India	739	3.2%	13	53.8
	All Others	5,476	23.7%	209	270.1
TOTAL		23,060	100.0%	830	1,165.7

FOEs BY INDUSTRY SECTOR

Major Industry	Jobs	Firms	Est. Wages (\$millions)
Natural Resources	870	9	\$64.0
Construction	238	10	14.3
Manufacturing	9,490	170	528.3
Wholesale Trade	4,145	153	237.0
Retail Trade	2,959	234	93.5
Transp / Warehouse / Util	1,606	47	70.1
Information	453	30	26.6
Financial Activities	739	51	41.3
Prof/Business Services	1,125	57	53.6
Education/Health	266	23	12.6
Leisure/Hospitality	1,066	30	20.1
Other Services	83	15	2.9
Public Administration	20	1	1.4
TOTAL	23,060	830	1,165.7



SAN DIEGO COUNTY

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS **FOE FIRMS** **ESTIMATED WAGES**
59,752 **1,625** **\$4,511M**

FOEs BY SOURCE NATION

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Japan	11,680	19.5%	387	\$911.4
2	United Kingdom	10,250	17.2%	252	750.1
3	Thailand	5,033	8.4%	5	423.1
4	Canada	4,857	8.1%	158	383.0
5	France	4,491	7.5%	142	277.0
6	Ireland	3,578	6.0%	26	298.4
7	Germany	2,791	4.7%	133	186.5
8	Switzerland	2,710	4.5%	57	226.2
9	Netherlands	1,950	3.3%	49	138.5
10	Sweden	1,527	2.6%	16	74.4
	All Others	10,885	18.2%	400	842.2
TOTAL		59,752	100.0%	1,625	4,510.7

FOEs BY INDUSTRY SECTOR

Major Industry	Jobs	Firms	Est. Wages (\$millions)
Natural Resources	50	2	\$1.9
Construction	970	36	61.9
Manufacturing	28,578	272	2,402.2
Wholesale Trade	4,573	198	389.0
Retail Trade	5,456	466	182.5
Transp / Warehouse / Util	625	36	31.7
Information	1,383	64	143.4
Financial Activities	3,757	179	331.6
Prof/Business Services	8,677	233	767.2
Education/Health	1,465	60	74.3
Leisure/Hospitality	2,889	41	78.6
Other Services	1,272	30	41.8
Public Administration	57	8	4.7
TOTAL	59,752	1,625	4,510.7



VENTURA COUNTY

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS **FOE FIRMS** **ESTIMATED WAGES**
20,292 **395** **\$1,692M**

FOEs BY SOURCE NATION

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	France	5,652	27.9%	43	\$534.1
2	United Kingdom	4,605	22.7%	74	408.0
3	Canada	2,572	12.7%	37	164.7
4	Japan	2,230	11.0%	58	197.7
5	Germany	1,849	9.1%	47	123.3
6	Ireland	973	4.8%	17	91.5
7	Sweden	499	2.5%	5	22.7
8	Mexico	314	1.5%	13	29.3
9	South Korea	299	1.5%	5	26.2
10	China	173	0.9%	3	10.1
	All Others	1,126	5.5%	93	84.6
TOTAL		20,292	100.0%	395	1,692.3

FOEs BY INDUSTRY SECTOR

Major Industry	Jobs	Firms	Est. Wages (\$millions)
Natural Resources	85	5	\$7.8
Construction	180	6	10.3
Manufacturing	11,869	69	1,166.9
Wholesale Trade	1,461	54	122.2
Retail Trade	1,425	116	47.1
Transp / Warehouse / Util	184	11	8.6
Information	2,087	18	146.4
Financial Activities	669	50	53.7
Prof/Business Services	1,723	39	108.7
Education/Health	279	12	13.3
Leisure/Hospitality	288	9	6.0
Other Services	42	6	1.4
Public Administration	-	-	-
TOTAL	20,292	395	1,692.3

ABOUT WORLD TRADE CENTER LOS ANGELES

The World Trade Center Los Angeles (WTCLA) is dedicated to attracting foreign direct investment and facilitating business opportunities between Los Angeles and international companies. WTCLA is a non-profit organization that provides business assistance services to international companies seeking to locate or expand their business operations in the Los Angeles Region, and to local companies seeking to export products or services to international markets.

ABOUT THE INSTITUTE FOR APPLIED ECONOMICS AT LAEDC

The Institute for Applied Economics at LAEDC performs objective economic research and analysis for a wide range of clients, detailing economic impact of development, business operations, and regulation, as well as providing intelligence about specific industry clusters, labor force, and workforce development issues. The Institute's reports provide decision makers with critical information from which to make informed decisions. In addition to providing on-demand research per client requirements, the Institute also conducts foundational research to ensure LAEDC's many programs for economic development are on target, including the company's collaboration with workforce investment boards, its award-winning business assistance program, and its work on the L.A. County Strategic Plan for Economic Development and its cluster development initiatives.

ABOUT THE UCLA INTERNATIONAL INSTITUTE

The International Institute is the hub for research, teaching, and engagement in global and international affairs at UCLA. It connects the world to UCLA and UCLA to the world. This project has been conducted in partnership with the UCLA Center for Neighborhood Knowledge, which specializes in analyzing the urban spatial structure with a focus on community economic development, sustainability, and equity.

SUSTAINABILITY ANALYSIS

In 2008, just over ten years ago, California passed S.B. 375 as part of the state’s commitment to reduce greenhouse gas emissions. That legislation requires regions to include “Sustainable Community Strategies” (SCS) in their regional transportation plans, laying out the ways that regions will implement coordinated planning in housing, jobs, and transportation to reduce private vehicle travel. Last fall, the California Air Resources Board released their first systematic report on SCS performance, the findings of which suggest that the state is falling behind in reaching those goals and that “more and accelerated action is critical for public health, equity, economic, and climate success.”¹ The following analysis evaluates the locational performance of foreign-owned enterprises (FOEs) relative to indicators of development and investments that support the state’s ambitious climate change initiative.²

This section of the World Trade Center Los Angeles’ (WTCLA) 2019 Foreign Direct Investment Report examines foreign-owned enterprises in the context of regional sustainability. The analysis looks at the location of FOEs in the Southern California region relative to three sustainability indicators: a) average commute miles of workers; b) job density; and c) the availability of high-quality transit opportunities.

Generally, the locations of FOEs are neither more or less aligned with desired sustainable outcomes than the typical Southern California establishment. International companies do perform better in the job density category. Whether companies are aware or not of the potential positive sustainability effects, their location in higher density areas can help to push forward progress toward SCS goals. Still, there is much more that can be done across the region to better meet these goals. There are climate change mitigation benefits as well as productivity benefits that can come from achieving better sustainability outcomes. There can be opportunities for companies to create and contribute toward solutions that meet greenhouse gas reduction goals and, at the same time, benefit industry, workers, communities, and the region as a whole.

SOUTHERN CALIFORNIA REGION

The following analysis takes all census tracts³ in Southern California and calculates for each three sustainability indicators, capturing some key features of sustainable planning strategies. Indicators include:

- Average person miles traveled (PMT) to work: This is calculated by taking the total commute distances of workers to a census tract and dividing by the number of workers. The desired outcome is to decrease private automobile commutes and reduce associated greenhouse gas emissions.
- Job Density (jobs per square mile): Density can have a positive impact through the promotion of agglomeration effects, facilitating face-to-face interaction and reducing trip distances for businesses, employees, and consumers.
- High quality transit location (HQTL) coverage⁴: This measures the available public transportation opportunities within a tract. The location of jobs, housing, and other destinations in areas well-served by transit can encourage greater usage and a shift away from private autos.

FOEs are spatially assigned to the census tract in which they are located. The analysis compares the distribution of 2018 FOEs to the distribution of all establishments in Southern California. FOEs are over-represented when more than 20% fall into a given category. More desirable outcomes would be for FOEs to be over-represented in places ranked highest in sustainability-consistent outcomes. Results are reported for the distribution of FOE establishments.⁵

Table 1
PROPORTION OF FOES IN EACH SUSTAINABILITY CATEGORY

(Distribution across quintiles)

By Establishment	Average Person Miles Traveled to Work	Job Density	High Quality Transit Location Coverage
Highest Sustainability	8%	37% ⁶	19%
High Sustainability	16%	28%	21%
Neutral	22%	17%	26%
Low Sustainability	28%	11%	22%
Lowest Sustainability	27%	7%	12%

BREAKDOWNS OF FOE SUSTAINABILITY

The following tables break down FOEs by three characteristics: by county, by ownership region, and by industry sector. For these, the typical FOE of a given characteristic is measured against the typical Southern California establishment by comparing the averages of each. A score over 1.00 indicates that FOEs have a higher average compared to the typical Southern California establishment. For average PMT the more sustainable outcome would be for FOEs to have a score lower than 1.00. For job density and HQTL coverage, a score above 1.00 would indicate that FOEs are performing better than the average Southern California establishment in terms of sustainability.

For example: The typical FOE in Los Angeles is situated in an area where: a) the average commute of its workers is roughly on par with that of the typical Southern California establishment (with a parity score of 1.01 indicating that Los Angeles commutes are just about 1% longer than the Southern California average); b) in an area that is 3.23 times more job dense than the location of a typical Southern California establishment; and c) is in an area that is covered by about 39% more high quality transit (with a parity score of 1.39) than the typical Southern California establishment.

Table 2
BY COUNTY

By Establishment	Average Person Miles Traveled to Work (lower is better)	Job Density (higher is better)	High Quality Transit Location Coverage (higher is better)
All Establishments in So Cal Avg. ⁷	18 miles	2,054 jobs/sq. mi	53% of tract area covered by HQTL
PARITY SCORE			
Los Angeles Co FOEs	1.01	3.23	1.39
Orange Co FOEs	1.34	3.55	0.97
San Diego Co FOEs	1.07	2.04	0.77
San Bernardino Co FOEs	1.46	1.14	0.54
Ventura Co FOEs	1.06	1.06	0.28
Riverside Co FOEs	1.42	0.52	0.40

BY OWNERSHIP REGION⁸

Data for FOEs includes the owner's country of origin. Here, owners' countries have been aggregated into regions. The following tables report on the location sustainability of firms by the region of their owners. Across ownership region, results show that the average PMT and the average HQTL coverage in the location of an FOE does not differ from that of a typical Southern California firm or from each other. FOEs are, however, situated in more job dense locations than the typical Southern California establishment.

Table 3

	Average Person Miles Traveled to Work (lower is better)	Job Density (higher is better)	High Quality Transit Location Coverage (higher is better)
By Establishment			
All Establishments in So Cal Avg. ⁷	18 miles	2,054 jobs/sq. mi	53% of tract area covered by HQTL
PARITY SCORE			
Western Europe	1.11	2.48	1.00
Asia and Oceania	1.07	2.38	1.04
North America	1.13	2.41	1.00
Latin America	1.03	1.11	1.05
Other	1.06	3.17	1.13

Table 4

	Average Person Miles Traveled to Work (lower is better)	Job Density (higher is better)	High Quality Transit Location Coverage (higher is better)
By Establishment			
All Establishments in So Cal Avg. ⁷	18 miles	2,054 jobs/sq. mi	53% of tract area covered by HQTL
PARITY SCORE			
Retail Trade	1.10	1.87	1.12
Wholesale Trade	1.12	2.50	0.93
Manufacturing	1.15	2.18	0.81
Finance and Insurance	1.07	2.56	1.25
Professional, Scientific, and Technical Services	1.09	3.26	1.00
Administrative and Support and Waste Management and Remediation	1.10	3.65	1.20
Information	1.04	2.84	1.29
Transportation and Warehousing	1.07	2.38	0.93
Accommodation and Food Services	1.04	2.38	1.24
Health Care and Social Assistance	1.06	1.90	1.00
Real Estate and Rental and Leasing	1.07	3.12	1.00
Other Services (except Public Administration)	1.08	2.20	0.97
Construction	1.15	2.36	0.87

BY INDUSTRY SECTOR⁹

Results for sector level analysis show that the most variation between the location of FOE types is in job density. In the areas of average commutes and HQTL coverage, there is less variation among FOEs and between FOEs and the typical Southern California establishment.

¹ California Air Resources Board. (2018). 2018 Progress Report: California's Sustainable Communities and Climate Protection Act (pp. 1-96). CA.

² SCS indicators were developed with support from CARB and the California Department of Transportation (Caltrans). For more information, see Project No. 15RD010 at www.arb.ca.gov. Statewide report forthcoming.

³ For this analysis, we use census tracts as a proxy for neighborhoods. The average population of a census tract is 4,000 people (ranging from 2,500 to 8,000) and approximately 1,500 housing units. The Bureau of the Census defines census tracts as "a relatively homogenous area with respect to population characteristics, economic status and living conditions."

⁴ A transit stop with high quality service is defined as a stop with a wait of 15 minutes or less between trains/buses. A high quality transit location is the ¼ mile area surrounding high quality transit stops.

⁵ Analysis was also conducted for the distribution of FOE by employment. Results showed similar patterns to those of establishments.

⁶ Results in bold indicate areas in which FOEs are performing better than the typical Southern California establishment on sustainability.

⁷ The median of each sustainability measure is calculated for each FOE establishment type to represent the characteristics of a typical establishment in that category.

⁸ Regions are defined using the World Trade Organization's definitions. Only regions with 100+ establishments are reported in the table. Africa, Central and Eastern Europe, and the Middle East are reported together as "Other."

⁹ Sectors were identified using their 2-digit North American Industry Classification System (NAICS) code. Results are reported for sectors with 100+ establishments.

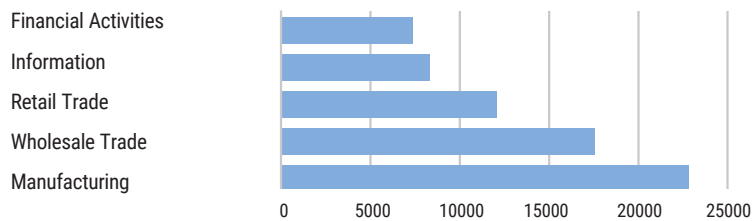


NO. 1 JAPAN

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS: **81,751**
FOE FIRMS: **2,407**
ESTIMATED WAGES: **\$6,186M**

JAPANESE FOE JOBS BY SECTOR



JAPANESE FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	40,747	49.8%	1,203	\$3,205.2
2	Orange	21,334	26.1%	512	1,583.8
3	San Diego	11,680	14.3%	387	911.4
4	San Bernardino	3,448	4.2%	144	166.2
5	Riverside	2,312	2.8%	103	121.3
6	Ventura	2,230	2.7%	58	197.7
TOTAL		81,751	100.0%	2,407	6,185.7

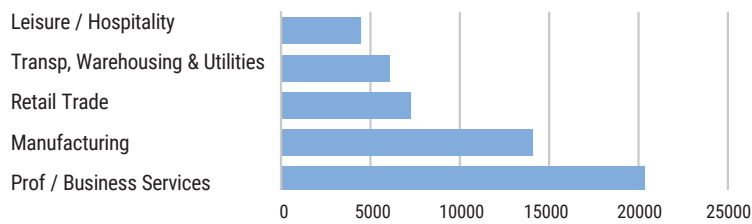


NO. 2 UNITED KINGDOM

FOREIGN-OWNED ENTERPRISES (FOEs)

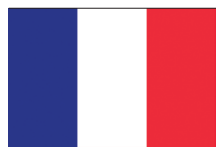
FOE JOBS: **64,993**
FOE FIRMS: **1,281**
ESTIMATED WAGES: **\$4,348M**

UK FOE JOBS BY SECTOR



UK FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	27,165	42.7%	573	\$1,982.6
2	Orange	19,449	30.5%	219	1,050.7
3	San Diego	10,250	16.1%	252	750.1
4	Ventura	4,605	7.2%	74	408.0
5	Riverside	2,220	3.5%	94	98.9
6	San Bernardino	1,304	2.0%	69	57.4
TOTAL		64,993	100.0%	1,281	4,347.7

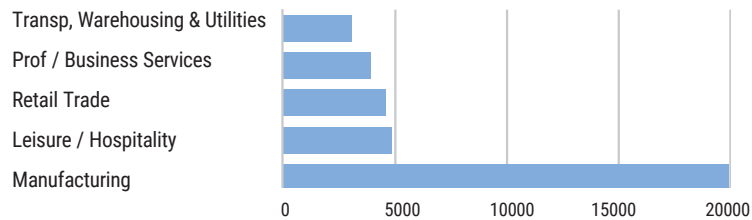


NO. 3 FRANCE

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS: **44,611**
FOE FIRMS: **967**
ESTIMATED WAGES: **\$3,221M**

FRENCH FOE JOBS BY SECTOR



FRENCH FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	21,496	49.4%	473	\$1,565.8
2	Orange	9,475	21.8%	183	686.8
3	Ventura	5,652	13.0%	43	534.1
4	San Diego	4,491	10.3%	142	277.0
5	San Bernardino	2,387	5.5%	64	111.3
6	Riverside	1,110	2.6%	62	45.5
TOTAL		44,611	100.0%	967	3,220.6

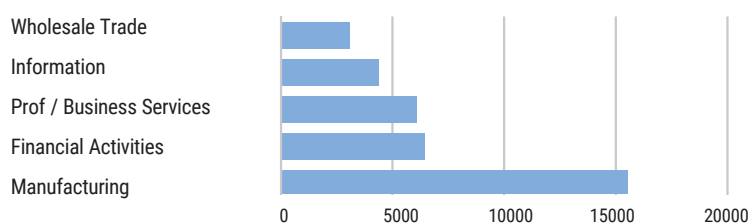


NO. 4 CANADA

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS: **42,714**
FOE FIRMS: **895**
ESTIMATED WAGES: **\$3,298M**

CANADIAN FOE JOBS BY SECTOR



CANADIAN FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	18,104	42.4%	350	\$1,596.3
2	Orange	11,105	26.0%	160	854.4
3	San Diego	4,857	11.4%	158	383.0
4	Riverside	3,132	7.3%	90	164.7
5	San Bernardino	2,944	6.9%	100	158.5
6	Ventura	2,572	6.0%	37	141.2
TOTAL		42,714	100.0%	895	3,298.0



NO. 5

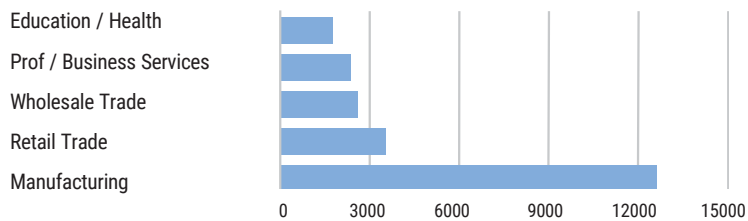
GERMANY

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

27,449 **837** **\$1,873M**

GERMAN FOE JOBS BY SECTOR



GERMAN FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	12,704	46.3%	353	\$911.0
2	Orange	5,190	18.9%	170	401.0
3	San Bernardino	3,068	11.2%	84	156.0
4	San Diego	2,791	10.2%	133	186.5
5	Ventura	1,849	6.7%	47	123.3
6	Riverside	1,847	6.7%	50	95.0
TOTAL		27,449	100.0%	837	1,872.7



NO. 6

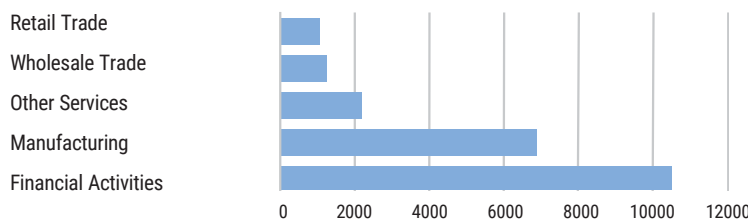
SWITZERLAND

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

23,216 **370** **\$2,104M**

SWISS FOE JOBS BY SECTOR



SWISS FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	15,471	66.6%	174	\$1,544.8
2	San Diego	2,710	11.7%	57	226.2
3	Orange	2,406	10.4%	80	189.2
4	Riverside	1,587	6.8%	20	89.2
5	San Bernardino	942	4.1%	30	47.4
6	Ventura	100	0.4%	9	7.0
TOTAL		23,216	100.0%	370	2,103.7



NO. 7

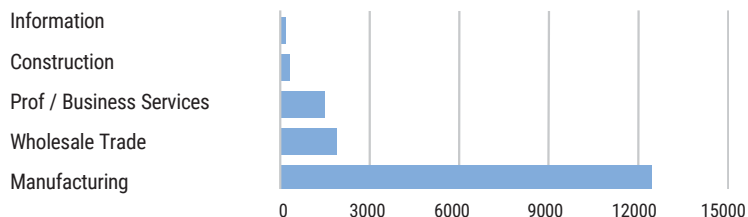
IRELAND

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

16,594 **161** **\$1,272M**

IRISH FOE JOBS BY SECTOR



IRISH FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Orange	6,136	37.0%	42	\$473.3
2	Los Angeles	4,726	28.5%	47	345.6
3	San Diego	3,578	21.6%	26	298.4
4	Ventura	973	5.9%	17	91.5
5	Riverside	637	3.8%	16	32.7
6	San Bernardino	544	3.3%	13	30.5
TOTAL		16,594	100.0%	161	1,272.0



NO. 8

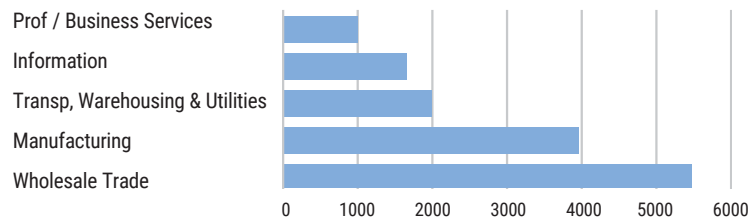
CHINA

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

15,683 **448** **\$1,202M**

CHINESE FOE JOBS BY SECTOR



CHINESE FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Orange	7,521	48.0%	85	\$607.8
2	Los Angeles	5,917	37.7%	240	450.9
3	San Bernardino	1,032	6.6%	63	64.8
4	San Diego	808	5.2%	40	55.6
5	Riverside	232	1.5%	17	12.6
6	Ventura	173	1.1%	3	10.1
TOTAL		15,683	100.0%	448	1,201.9



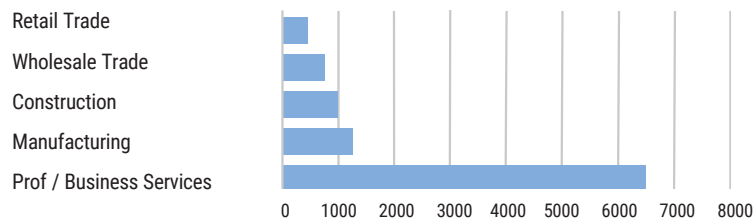
NO. 9
SWEDEN

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

10,408 **119** **\$549M**

SWEDISH FOE JOBS BY SECTOR



SWEDISH FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	4,161	40.0%	47	\$208.9
2	Orange	2,188	21.0%	23	147.4
3	San Diego	1,527	14.7%	16	74.4
4	Riverside	1,472	14.1%	14	71.5
5	San Bernardino	561	5.4%	14	23.6
6	Ventura	499	4.8%	5	22.7
TOTAL		10,408	100.0%	119	548.5



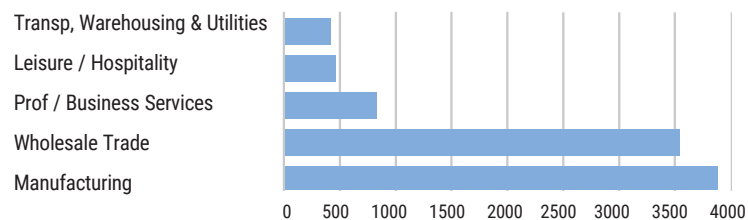
NO. 10
TAIWAN

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

10,145 **262** **\$756M**

TAIWANESE FOE JOBS BY SECTOR



TAIWANESE FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	5,771	56.9%	143	\$412.4
2	Orange	3,119	30.7%	72	251.7
3	San Diego	688	6.8%	14	60.0
4	San Bernardino	415	4.1%	25	22.4
5	Ventura	110	1.1%	6	7.0
6	Riverside	42	0.4%	2	2.8
TOTAL		10,145	100.0%	262	756.3



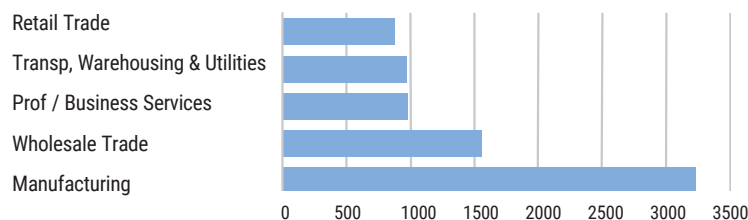
NO. 11
SOUTH KOREA

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

8,997 **286** **\$626M**

SOUTH KOREAN FOE JOBS BY SECTOR



SOUTH KOREAN FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	4,447	49.4%	149	\$305.4
2	Orange	1,992	22.1%	77	141.0
3	San Diego	1,168	13.0%	26	97.0
4	San Bernardino	552	6.1%	22	29.5
5	Riverside	539	6.0%	7	27.0
6	Ventura	299	3.3%	5	26.2
TOTAL		8,997	100.0%	286	626.1



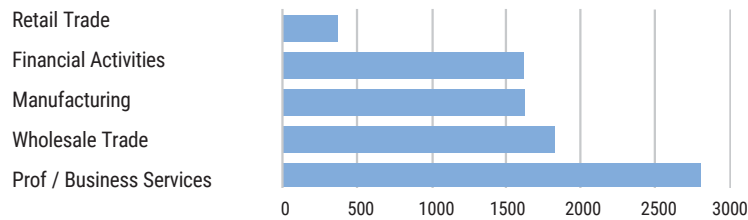
NO. 12
AUSTRALIA

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

8,937 **241** **\$703M**

AUSTRALIAN FOE JOBS BY SECTOR



AUSTRALIAN FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	5,604	62.7%	126	\$452.4
2	Orange	1,396	15.6%	48	116.4
3	San Diego	924	10.3%	32	76.8
4	San Bernardino	743	8.3%	20	41.5
5	Riverside	209	2.3%	11	10.9
6	Ventura	61	0.7%	4	4.7
TOTAL		8,937	100.0%	241	702.7



NO. 13

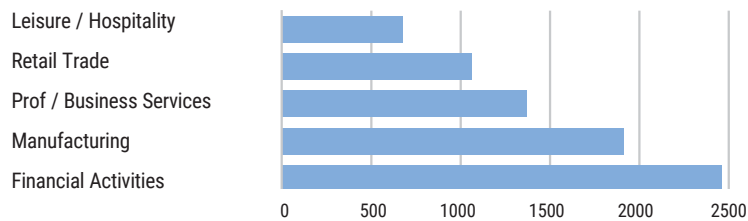
NETHERLANDS

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

8,715 **198** **\$717M**

DUTCH FOE JOBS BY SECTOR



DUTCH FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	4,935	56.6%	77	\$468.0
2	San Diego	1,950	22.4%	49	138.5
3	Orange	806	9.2%	23	55.2
4	Riverside	521	6.0%	21	28.6
5	San Bernardino	368	4.2%	14	15.2
6	Ventura	135	1.5%	14	11.4
TOTAL		8,715	100.0%	198	717.0



NO. 14

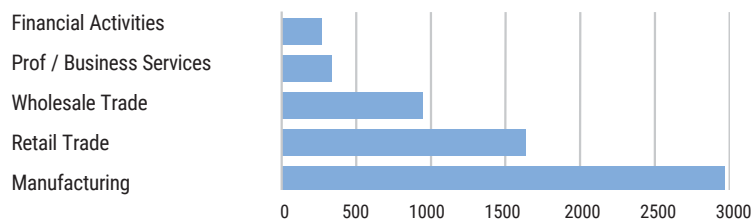
MEXICO

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

6,485 **251** **\$426M**

MEXICAN FOE JOBS BY SECTOR



MEXICAN FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	3,423	52.8%	92	\$223.2
2	San Diego	1,146	17.7%	67	84.1
3	San Bernardino	977	15.1%	34	47.9
4	Orange	540	8.3%	24	36.0
5	Ventura	314	4.8%	13	29.3
6	Riverside	85	1.3%	21	5.2
TOTAL		6,485	100.0%	251	425.6



NO. 15

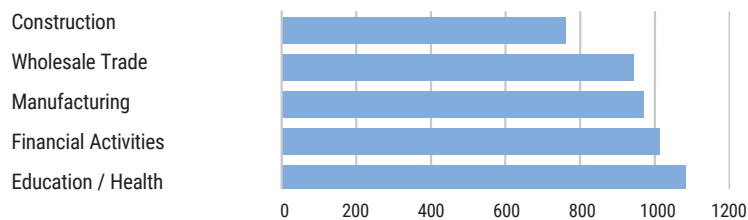
SPAIN

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

6,169 **117** **\$394M**

SPANISH FOE JOBS BY SECTOR



SPANISH FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	2,805	45.5%	36	\$160.9
2	San Diego	1,282	20.8%	26	107.0
3	Riverside	1,015	16.5%	25	65.3
4	Orange	722	11.7%	20	43.5
5	San Bernardino	310	5.0%	9	14.4
6	Ventura	35	0.6%	1	2.7
TOTAL		6,169	100.0%	117	393.8



NO. 16

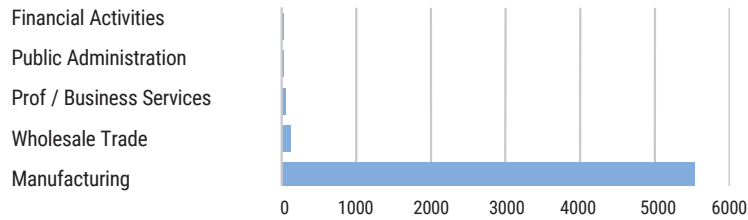
THAILAND

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

5,779 **23** **\$476M**

THAI FOE JOBS BY SECTOR



THAI FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	San Diego	5,033	87.1%	5	\$423.1
2	Los Angeles	731	12.6%	15	52.0
3	Orange	15	0.3%	3	0.9
4	San Bernardino	-	0.0%	-	-
5	Riverside	-	0.0%	-	-
6	Ventura	-	0.0%	-	-
TOTAL		5,779	100.0%	23	476.0



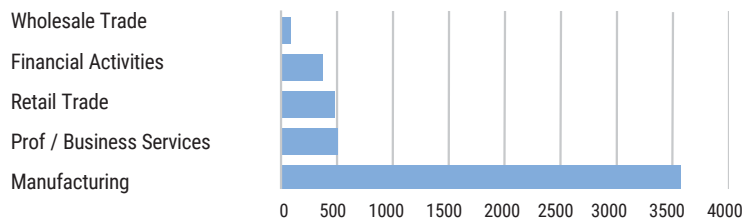
NO. 17
ISRAEL

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

5,162 **58** **\$392M**

ISRAELI FOE JOBS BY SECTOR



ISRAELI FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Orange	2,993	58.0%	15	\$232.8
2	Los Angeles	1,886	36.5%	27	137.5
3	San Diego	155	3.0%	7	13.5
4	Riverside	73	1.4%	3	3.9
5	Ventura	39	0.8%	3	3.8
6	San Bernardino	16	0.3%	3	0.9
TOTAL		5,162	100.0%	58	392.3



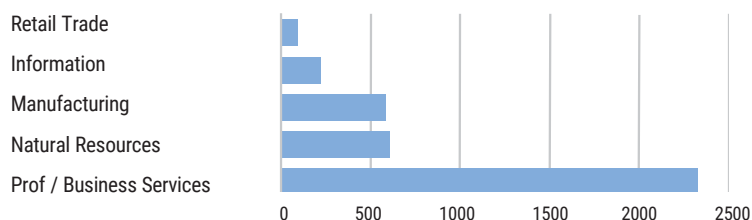
NO. 18
INDIA

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

4,107 **119** **\$317M**

INDIAN FOE JOBS BY SECTOR



INDIAN FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Orange	1,592	38.8%	25	\$136.6
2	Los Angeles	1,474	35.9%	60	102.3
3	San Bernardino	739	18.0%	13	53.8
4	San Diego	189	4.6%	13	16.8
5	Ventura	85	2.1%	3	6.3
6	Riverside	28	0.7%	5	1.3
TOTAL		4,107	100.0%	119	317.2



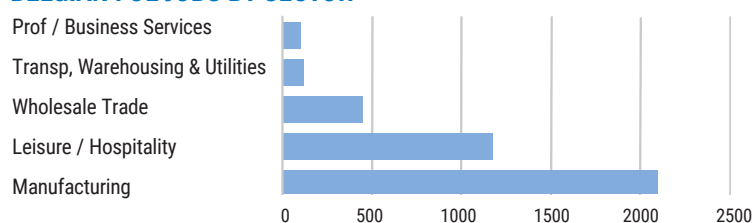
NO. 19
BELGIUM

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

3,999 **62** **\$233M**

BELGIAN FOE JOBS BY SECTOR



BELGIAN FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	1,788	44.7%	31	\$74.3
2	Orange	836	20.9%	12	63.3
3	San Diego	638	16.0%	8	54.2
4	Riverside	533	13.3%	5	30.9
5	San Bernardino	194	4.9%	4	9.5
6	Ventura	10	0.3%	2	0.8
TOTAL		3,999	100.0%	62	233.0



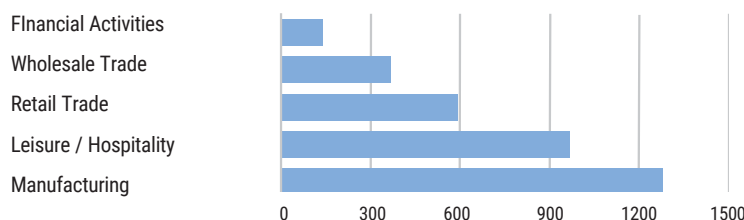
NO. 20
ITALY

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

3,478 **151** **\$201M**

ITALIAN FOE JOBS BY SECTOR



ITALIAN FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	1,540	44.3%	69	\$65.9
2	San Diego	900	25.9%	26	64.5
3	Orange	805	23.1%	37	57.0
4	Riverside	117	3.4%	10	6.9
5	San Bernardino	88	2.5%	6	4.8
6	Ventura	28	0.8%	3	2.1
TOTAL		3,478	100.0%	151	201.2



NO. 21

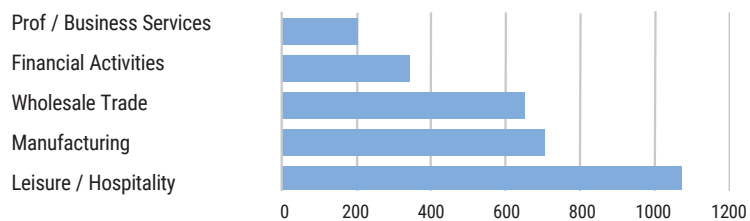
HONG KONG

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

3,407 **106** **\$204M**

HONG KONG FOE JOBS BY SECTOR



HONG KONG FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	1,816	53.3%	69	\$101.6
2	San Bernardino	505	14.8%	7	38.3
3	San Diego	497	14.6%	14	28.2
4	Orange	413	12.1%	10	23.6
5	Riverside	149	4.4%	4	9.8
6	Ventura	27	0.8%	2	2.2
TOTAL		3,407	100.0%	106	203.6



NO. 22

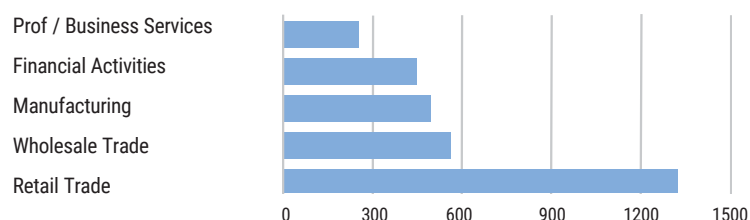
CAYMAN ISLANDS

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

3,245 **60** **\$196M**

CAYMAN ISLAND FOE JOBS BY SECTOR



CAYMAN ISLAND FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	2,555	78.7%	31	\$147.1
2	Orange	386	11.9%	15	32.5
3	San Bernardino	122	3.8%	3	6.9
4	San Diego	113	3.5%	7	5.8
5	Riverside	59	1.8%	3	2.9
5	Ventura	10	0.3%	1	0.8
TOTAL		3,245	100.0%	60	196.0



NO. 23

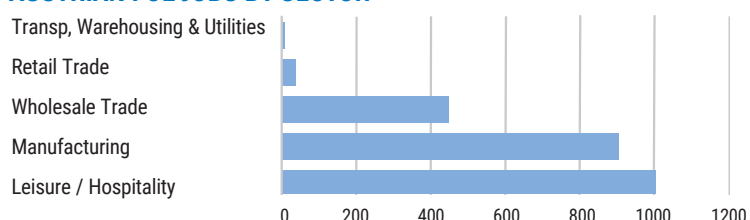
AUSTRIA

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

2,417 **83** **\$129M**

AUSTRIAN FOE JOBS BY SECTOR



AUSTRIAN FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	918	38.0%	35	\$51.3
2	San Diego	609	25.2%	8	46.3
3	Riverside	362	15.0%	16	15.5
4	San Bernardino	323	13.4%	13	8.6
5	Orange	205	8.5%	11	6.8
6	Ventura	-	0.0%	-	-
TOTAL		2,417	100.0%	83	128.6



NO. 24

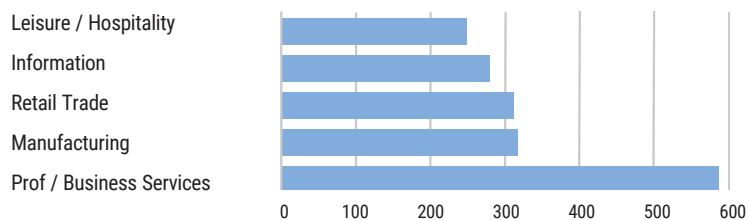
LUXEMBOURG

FOREIGN-OWNED ENTERPRISES (FOEs)

FOE JOBS FOE FIRMS ESTIMATED WAGES

2,201 **124** **\$151M**

LUXEMBOURG FOE JOBS BY SECTOR



LUXEMBOURG FOEs BY DESTINATION COUNTY

Rank	County	Jobs	% of All FOE Jobs	Firms	Est. Wages (\$millions)
1	Los Angeles	1,382	62.8%	54	\$100.8
2	Orange	494	22.4%	28	32.6
3	San Diego	129	5.9%	16	8.2
4	Ventura	68	3.1%	8	4.2
5	Riverside	67	3.0%	10	2.7
6	San Bernardino	61	2.8%	8	2.5
TOTAL		2,201	100.0%	124	151.1