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Summary Data for Benchmark Case Studies

CALIFORNIA SPACE AUTHORITY

Wired TALENT DRIVING PROSPERITY

LABOR & WORKFORCE DEVELOPMENT AGENCY

www.InnovateCalifornia.net

new economy strategies

nes

making the complex simple

California Innovation Corridor-Summary Data Matrix for Regional Benchmarks

Economic Comparisons

Selected Metrics	Popu-lation, 2006	Popu-lation Growth, '05-'06	GDP, 2006	GDP per capita, 2006 (nominal values)	GDP growth rate, '05-'06	GDP Per Capita (PPP) 2006	Hourly Wage, Production Workers (USD)			Job-less Rate
							2005	2000	% Chg, '00-'05	
India	1.1 billion	1.38%	$849 billion	$769	7.3%	$3,700	N/A	N/A	N/A	7.8%
Israel	6.3 million	1.18%	$123 billion	$17,866	4.2%	$26,200	$12.42	$11.41	8.9%	8.5%
Singapore	4.5 million	1.42%	$129 billion	$28,939	5.5%	$30,900	$7.66	$7.18	6.7%	2.9%
Finland	5.2 million	0.14%	$193 billion	$36,928	3.5%	$32,800	$31.93	$19.44	62.4%	7.9%
Brazil	188.1 million	1.04%	$1.02 trillion	$5,507	3.5%	$8,600	$4.09	$3.50	16.9%	9.6%
Korea	48.8 million	0.42%	$892 billion	$18,319	5.5%	$24,200	$13.56	$8.23	64.8%	3.5%
US	298.4 million	0.91%	$13.2 trillion	$44,168	3.4%	$43,500	$23.65	$19.65	20.4%	4.9%
Source:	A	A	B	B	B	A	C			B

A: CIA World Factbook
B: IMF: http://www.imf.org/external/pubs/ft/weo/2006/01/data/dbginim.cfm
C: BLS: http://www.bls.gov/fls/home.htm; http://www.bls.gov/news.release/ichcc.t02.htm

California Innovation Corridor-Summary Data Matrix for Regional Benchmarks

Competitiveness Rankings

Country	IMD World Competitiveness Ranking, 2006	WEF Global Competitiveness Ranking, 2006-7
India	29	43
Israel	25	15
Singapore	3	5
Finland	10	2
Brazil	51 (Sao Paulo, 43)	66
Korea	29	24
United States	1	6

Sources:
WEF, The Global Competitiveness Report 2006-2007
IMD, The World Competitiveness Report 2007

Summary of Worldwide Indices Top 10s

Top 10 Countries from Competitiveness Rankings

Rank	IMD World Competitiveness	WEF Global Competitive-ness Top 10	WEF Technology	WEF Technological Readiness	WEF Innovation
1.	United States	Switzerland	Sweden	Sweden	Japan
2.	Hong Kong	Finland	Singapore	Singapore	USA
3.	Singapore	Sweden	Israel	Israel	Switzerland
4.	Iceland	Denmark	Iceland	Iceland	Finland
5.	Denmark	Singapore	Switzerland	Switzerland	Germany
6.	Australia	United States	Great Britain	Britain	Sweden
7.	Canada	Japan	Australia	Australia	Israel
8.	Switzerland	Germany	United States	United States	Taiwan
9.	Luxemburg	Netherlands	Luxembourg	Luxembourg	Singapore
10.	Finland	Britain	Denmark	Denmark	Denmark

Sources:
WEF, The Global Competitiveness Report 2006-2007
IMD, The World Competitiveness Report 2007

California Innovation Corridor-Summary Data Matrix for Regional Benchmarks

Innovation Metrics

Selected Metrics	Network Readiness Index, 2005	Total Patents Granted by US Patent Office by Origin	Patent growth Last 5 years vs. prev. 5	Patents per 1M people, 2006	Venture Capital investments	Largest high tech companies???
Boston	1 (US)	3303 (MA)	+13.5% (19210/16933)	520.2	$4+ billion since 1995	Millennium Pharmaceuticals, Millipor, Genyzme
India	40	403	+273.1% (1582/424)	0.7	$6.5+ million in 2006	Infosys,Wipro, TCS
Israel	19	976	+54.0% (5467/3550)	153.6	$10+ billion since 1995	Check Point Software Technologies, Aladdin, Scitex, Nice Systems, Ness Technologies
Singapore	2	377	+181.6% (2047/727)	75.0	$6+ billion since 1998	GlaxoSmithKline, Altiris (not largest but large)
Finland	5	751	+47.7% (4274/2894)	143.6	$5.3+ billion between 1995-2004	Nokia, Elcoteq Network, Sonera, Tietoenator
Brazil	52	98	+55.4% (676/435)	0.5	$1+ billion since 2002	Companhia Vale do Rio Doce
Korea	14	4,591	+50.7% (21166/14045)	402.5	$15+ billion between 1998-2002	SK Telecom Co, KT Corp
California	1 (US)	19,662	+31.9% (107372/81404)	580.5	$12.36+ billion in 2006	Hewlett-Packard, Amgen Inc, Oracle
United States	7	82,586	-10.6% (421139/471085)	276.7	$25.75+ billion in 2006	Exxon Mobile, GE, Chevron
Sources	A	C	C	B & C	D	E

A: Networked Readiness Index (NRI) Rankings 2005
B: CIA World Factbook
C: US Patent Trademark Office - *Patent Technology Monitoring Team Report*: December 2006
D: National VC Associations
E: Press sources and publications

Export Economy Globalization Metrics

California Innovation Corridor-Summary Data Matrix for Regional Benchmarks

Selected Metrics	Exports as % of Economy	% of Exports Going to US	% of Imports from US	Top Export Partners	Top 5 Exports	Export Growth
Boston	3.9%	N/A	N/A	Canada, Germany, Japan, UK	Medicine, Electronic Circuits, Aircraft, Refined Chemicals, Machine Parts	10.2% (1998-2001)
India	14.1%	16.7%	5.6%	US, UAE, China, Singapore	Textile Goods, Gems and Jewelry, Engineering Goods, Chemicals, Leather Manufactures	14% (2007 estimate)
Israel	30.5%	36.5%	13.4%	US, Belgium, Germany, UK, Switzerland, Hong Kong	Machinery and Equipment, Software, Cut Diamonds, Agricultural Products, Chemicals	3.2% (2007 estimate)
Singapore	233.4%	11.5%	12.4%	Malaysia, US, Indonesia, Hong Kong, China, Japan, Thailand, Australia	Machinery and Equipment, Electronics, Consumer Goods, Chemicals, Mineral Fuels	6% (2006)
Finland	43.2%	6.2%	4.7%	Russia, Sweden, Germany, UK, US	Machinery and Equipment, Chemicals, Metals, Timber, Paper	3.5% (2007 estimate)
Brazil	14.6%	19.2%	17.5%	US, Argentina, China, Netherlands, Germany	Transport Equipment, Iron Ore, Soybeans, Footwear, Coffee	5.7% (2007 estimate))
Korea	36.3%	14.6%	11.8%	China, US, Japan, Hong Kong	Semiconductors, Wireless Telecommunications Equipment, Motor Vehicles, Computers, Steel	14.6% (2006)
California	4.9%	N/A	N/A	Mexico, Japan, Canada, China	Transportation Equipment, Computers, Machinery, Chemicals, Electronics	7.5% (2007 estimate)
Sources	A	A	A	A	A	B

A: CIA World Factbook
B: Press sources and publications

California Innovation Corridor-Summary Data Matrix for Regional Benchmarks

Policy Comparisons

Selected Metrics	Leading Industries	Start of High Tech Revolution	Primary Technology Development Catalysts	Primary Economic Development Agency	Website	Sources
Boston	Biotech, Defense, Comm.	1970s	Universities, Defense	Massachusetts Office of Economic Development	www.mass.gov	Boston Redevelopment Authority
India	IT (especially ITES-BPO), Biotechnology, Telecoms	1992	Foreign direct investment	Ministry of Science and Technology	www.dst.gov.in	Ministry of External Affairs, ITP Division
Israel	Biotech, Defense, Communications	1970s	Foreign venture investment, Defense	Office of the Chief Scientist	www.moit.gov.il	Invest in Israel
Singapore	Financial Services, Manufacturing, Life Sciences, Electronics	Late 1970s	State sponsorship, Foreign direct investment	Agency for Science, Technology and Research (A*STAR)	www.mti.gov.sg	Science & Technology Plan, 2006 (Ministry of Science and Trade)
Finland	Electronics, Telecom, IT	Early 1990s	Government technology standards, Corporate leadership	Tekes (Agency for Technology and Innovation)	www.tekes.fi	ICT Cluster Review, 2005 (Invest in Finland)
Brazil	Telecommunicatio n, Banking, Automobiles	1970s	Foreign direct investment, Government	Financing Agency for Studies and Projects (FINEP	www.finep.gov.br/	European Trend Chart on Innovation, 2005 (EU)
Korea	Electronics, Semi-Conductors	1980s	Government	Ministry of Science and Technology	www.most.go.kr	CIA Factbook
California	IT, Electronics, Networking, Defense, Biotech	Early 1960s	Entrepreneurs, Defense, Universities	Infrastructure and Economic Development Bank?	www.ibank.ca.gov	Cal-Facts

California Innovation Corridor-Summary Data Matrix for Regional Benchmarks

Science & Research Comparisons

Selected Metrics	24-year olds per First Degree	24-year olds per Degrees in Science & Engineering	S&E Articles (2003)	S&E Articles per capita (2000-2003)	Balance of Advanced Technology Products Trade with US (USD$ Millions)
India	4.2	1.0	12,774	11.3	1,186.6
Israel	30.2	7.6	6,941	1,018.46	493
Singapore	10	6.7	3,122	676.5	-646.2
Finland	17.2	5.7	5,202	974.27	63.5
Brazil	12.0	1.9	8,684	45.26	1,543
Korea	30.8	12.5	13,746	256.51	-7,636.4
US	33.9	5.7	211,233	706.79	N/A
Source:	A	A	A	A	A

A: National Science Foundation, Science & Engineering Indicators 2006

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