

National Security

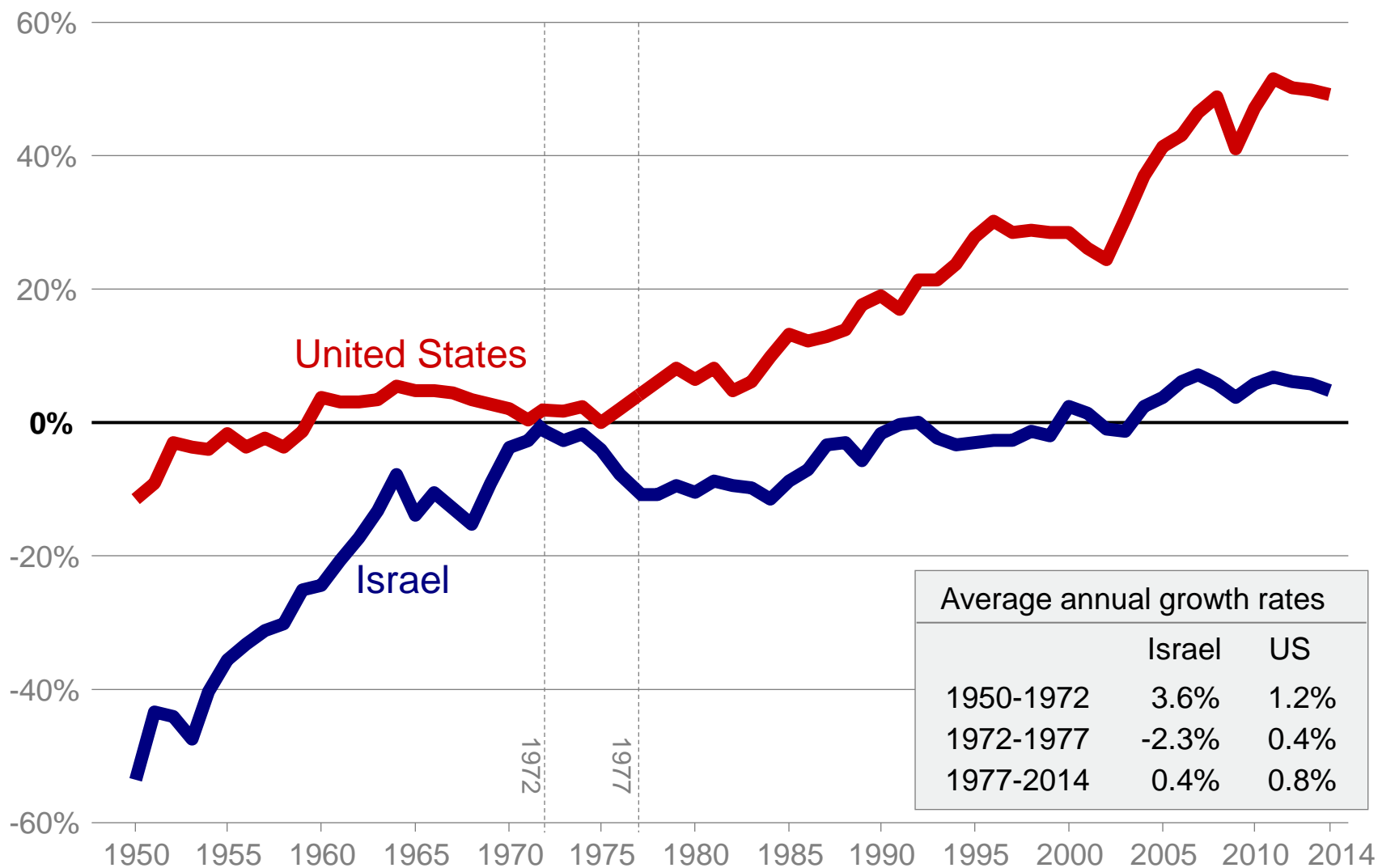
Changing the Paradigm

Dan Ben-David

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Total factor productivity* in Israel and the US, 1950-2014

in constant prices, both countries relative to Israel in 1972**

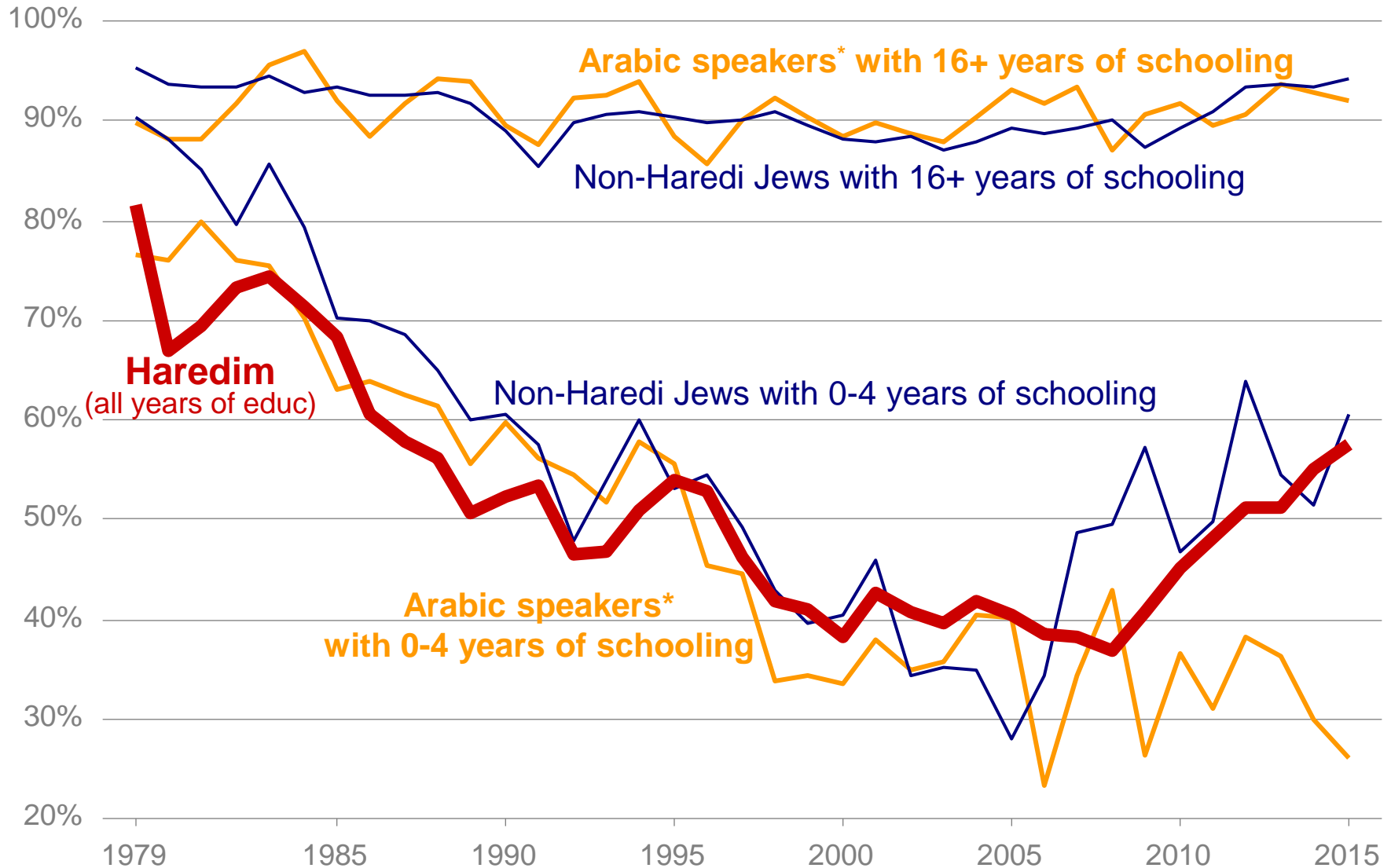


* Total factor productivity (TFP) reflects the part of GDP growth not explained by increases in labor and capital inputs. TFP is considered to be the primary engine underlying the economic growth of nations.

** percent point difference between all observations for each country and Israel in 1972.

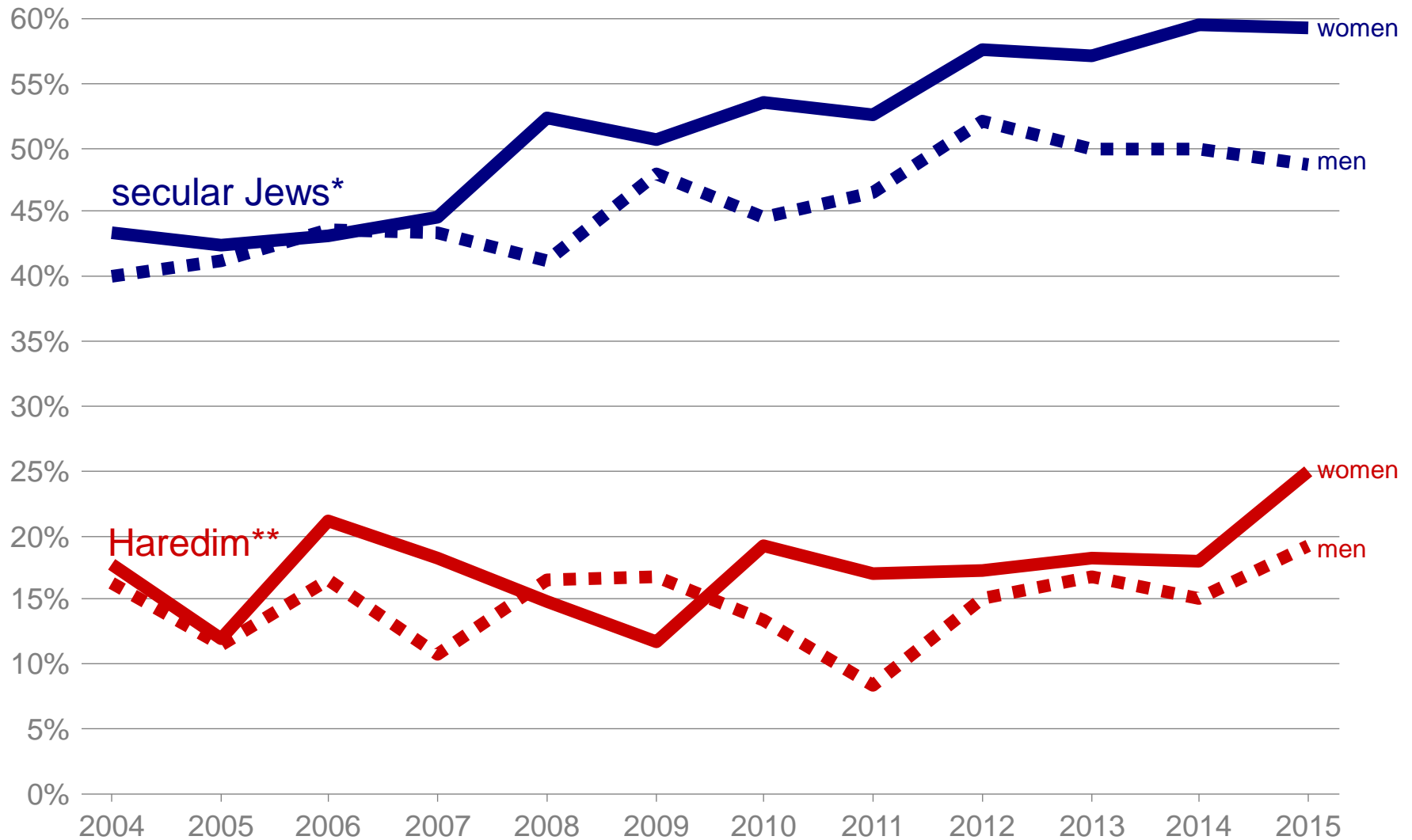
Male employment Rates, 1979-2015*

by education levels, 35-54 year olds**



Share of prime working age Israelis with academic degrees

ages 35-54 (unless specified otherwise), 2004-2015



Source: Dan Ben-David, Shores Institution and Tel-Aviv University

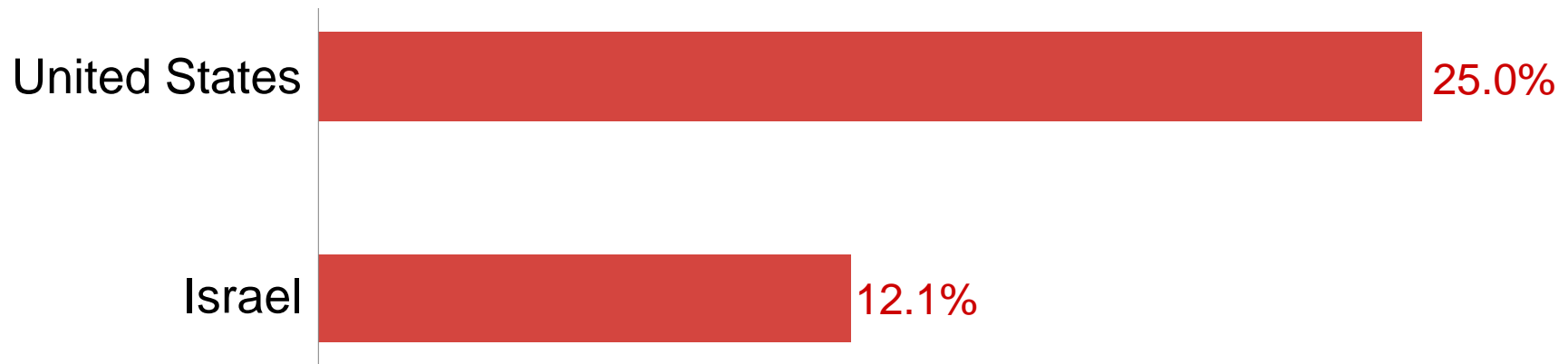
Data: Central Bureau of Statistics.

* non-religious Jews

** ultra-Orthodox Jews

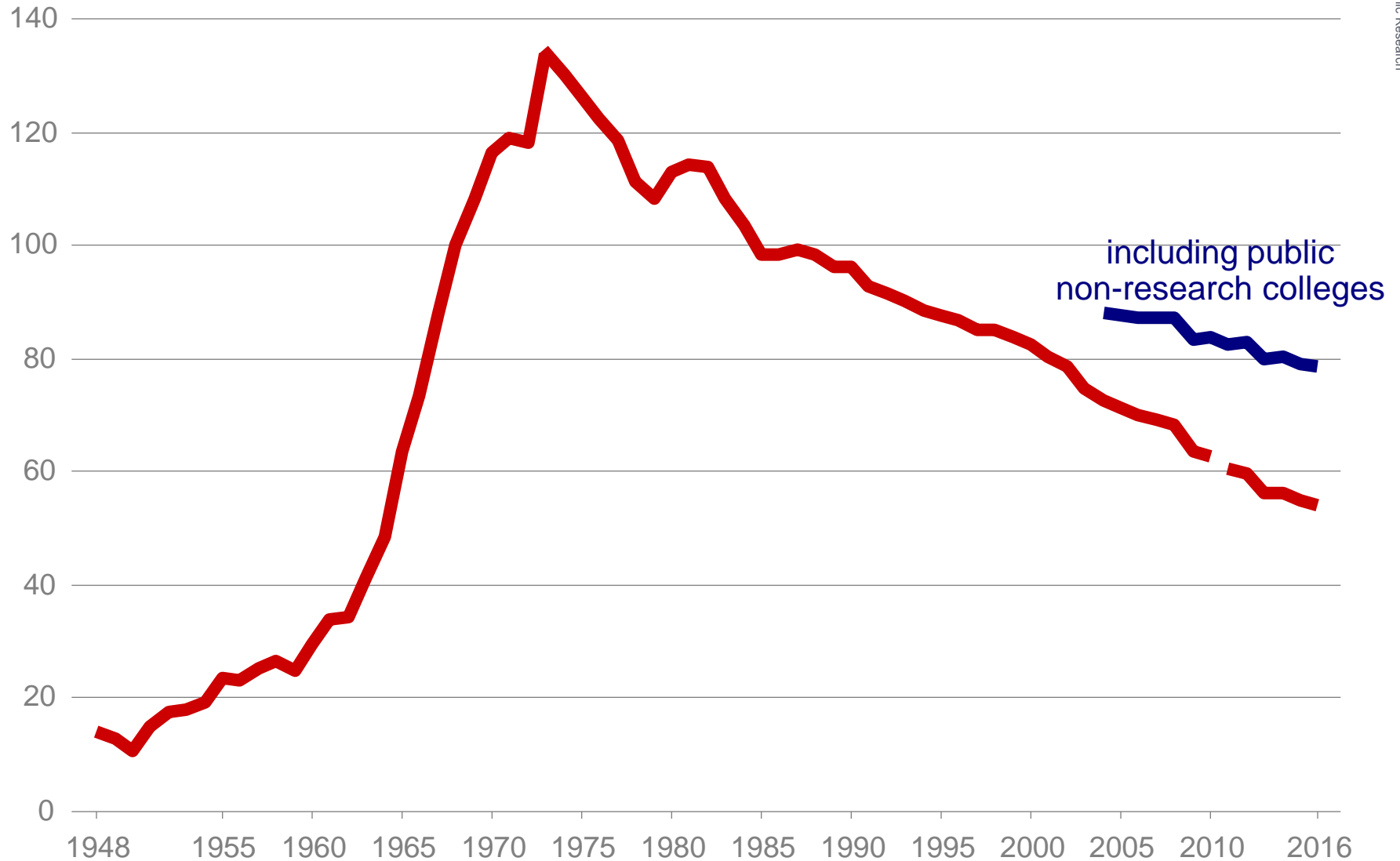
*** from traditional-religious through Orthodox Jews

Share of Haredim with an academic degree*, 2013



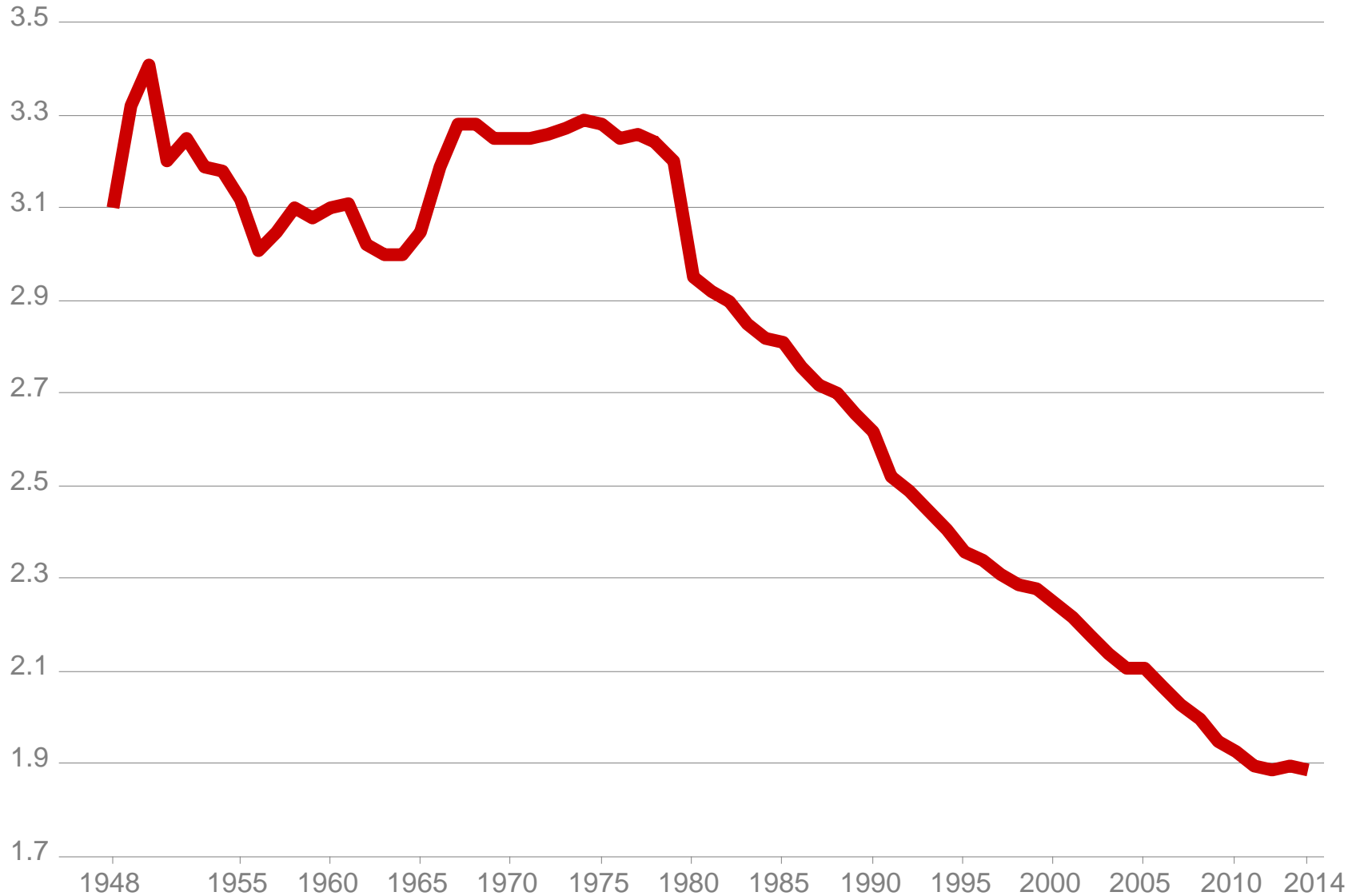
Senior research faculty in universities*

Senior research faculty per 100,000 people, 1948-2016



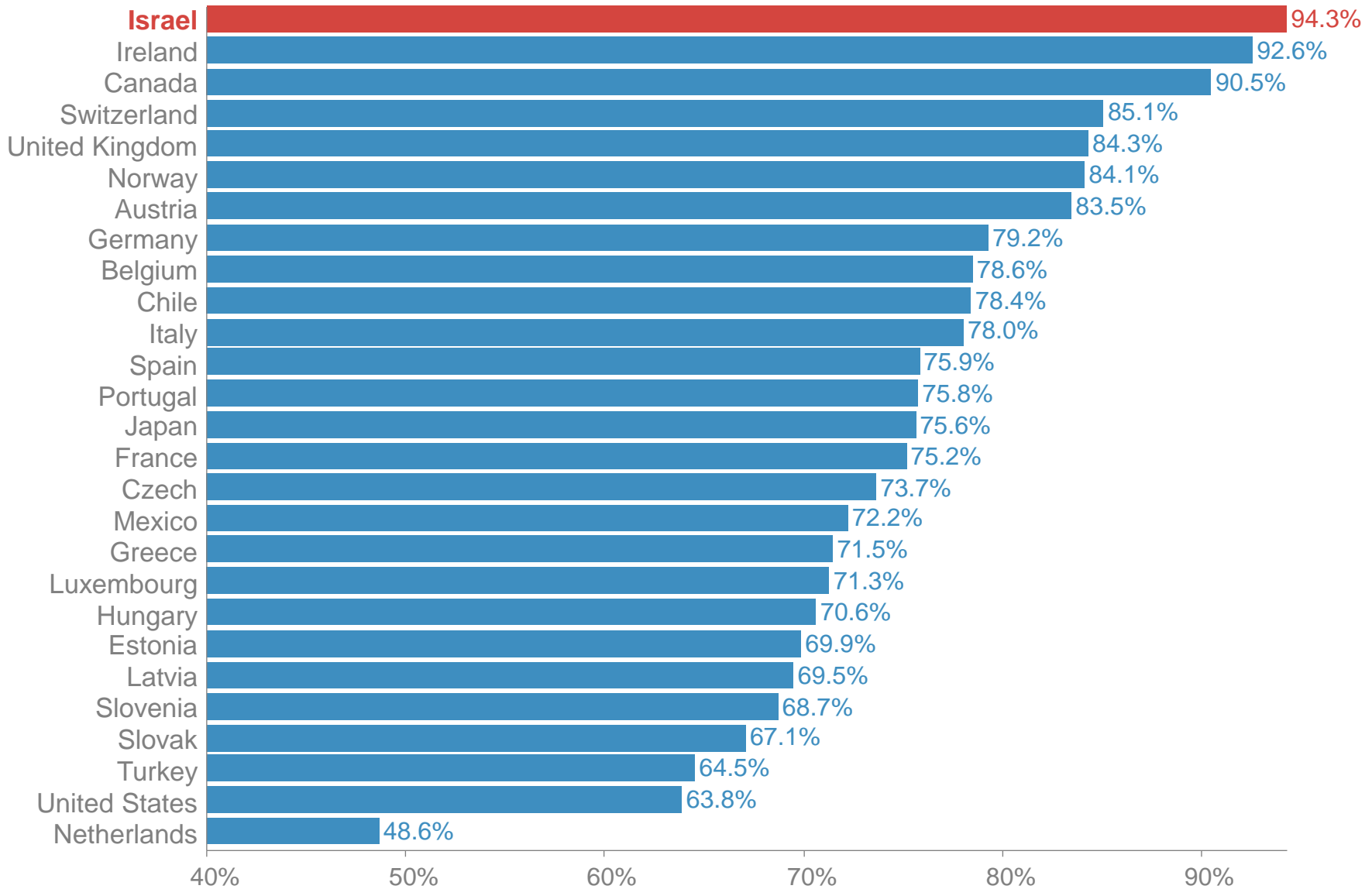
Hospital beds*

per 1,000 population, 1948-2014



Hospital occupancy rates

as percent of available beds, average for 2010-2014

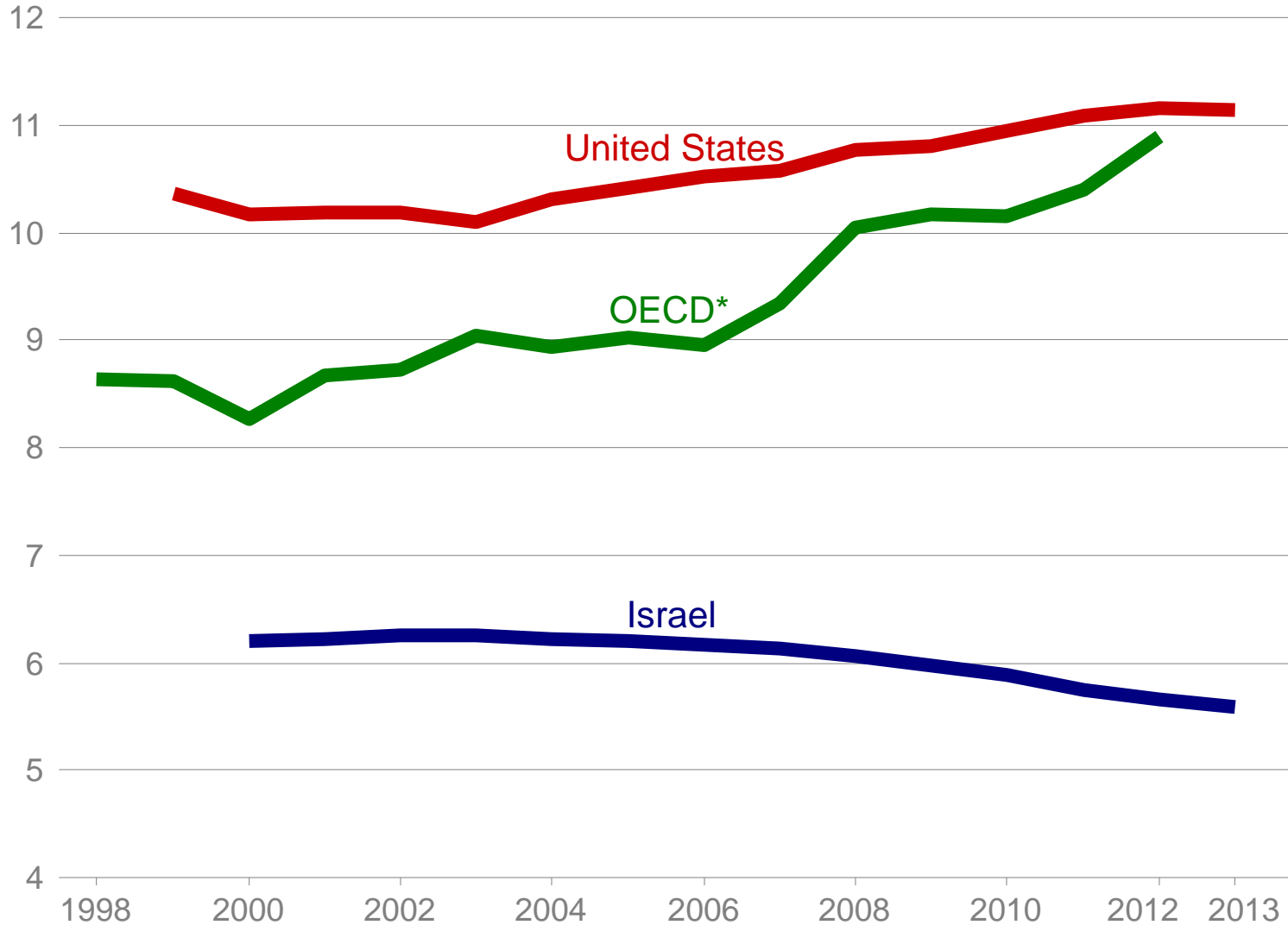


source: Dan Ben-David, Shores Institution and Tel-Aviv University

data: OECD

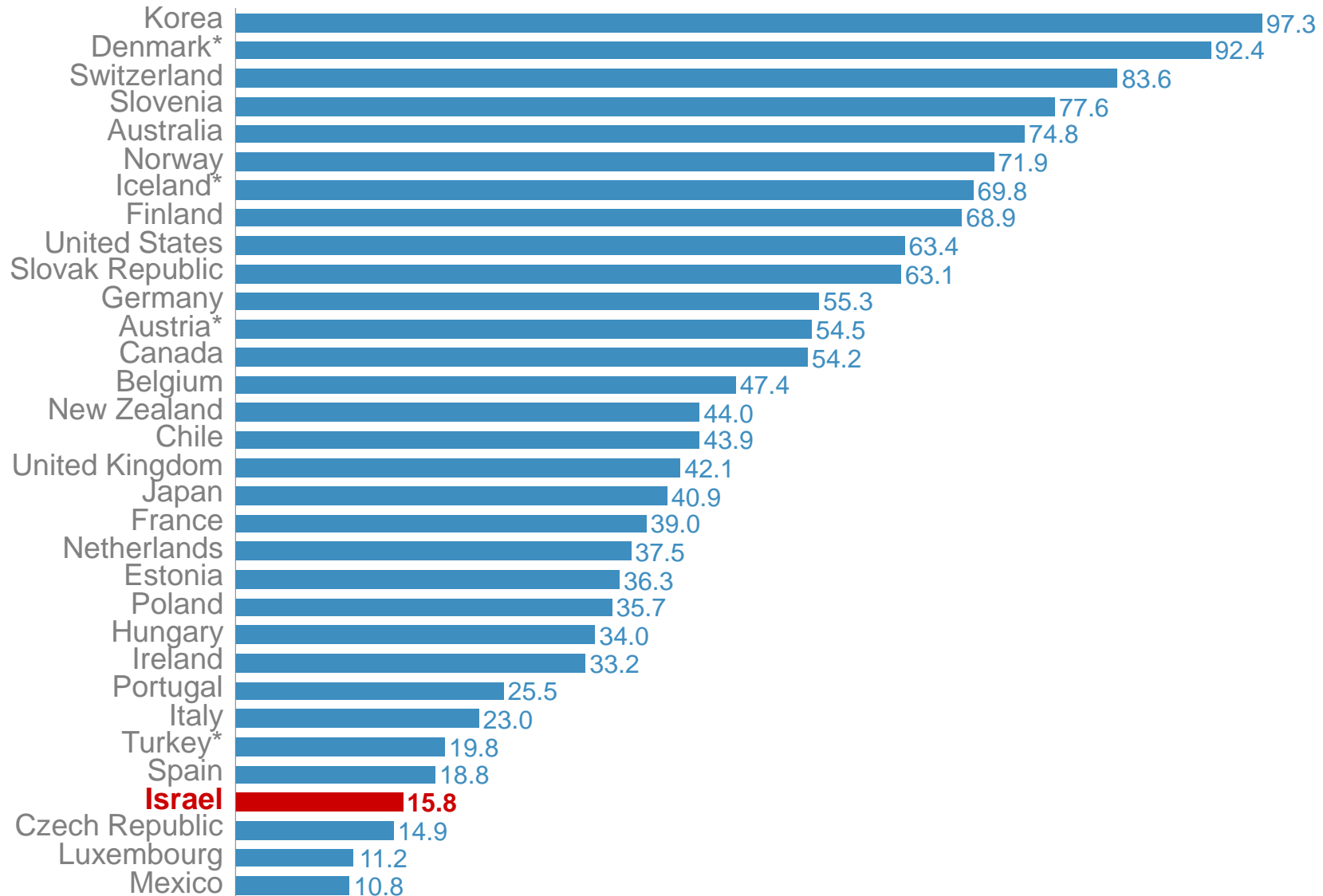
Professionally active nurses

per 1,000 population, 1998-2013



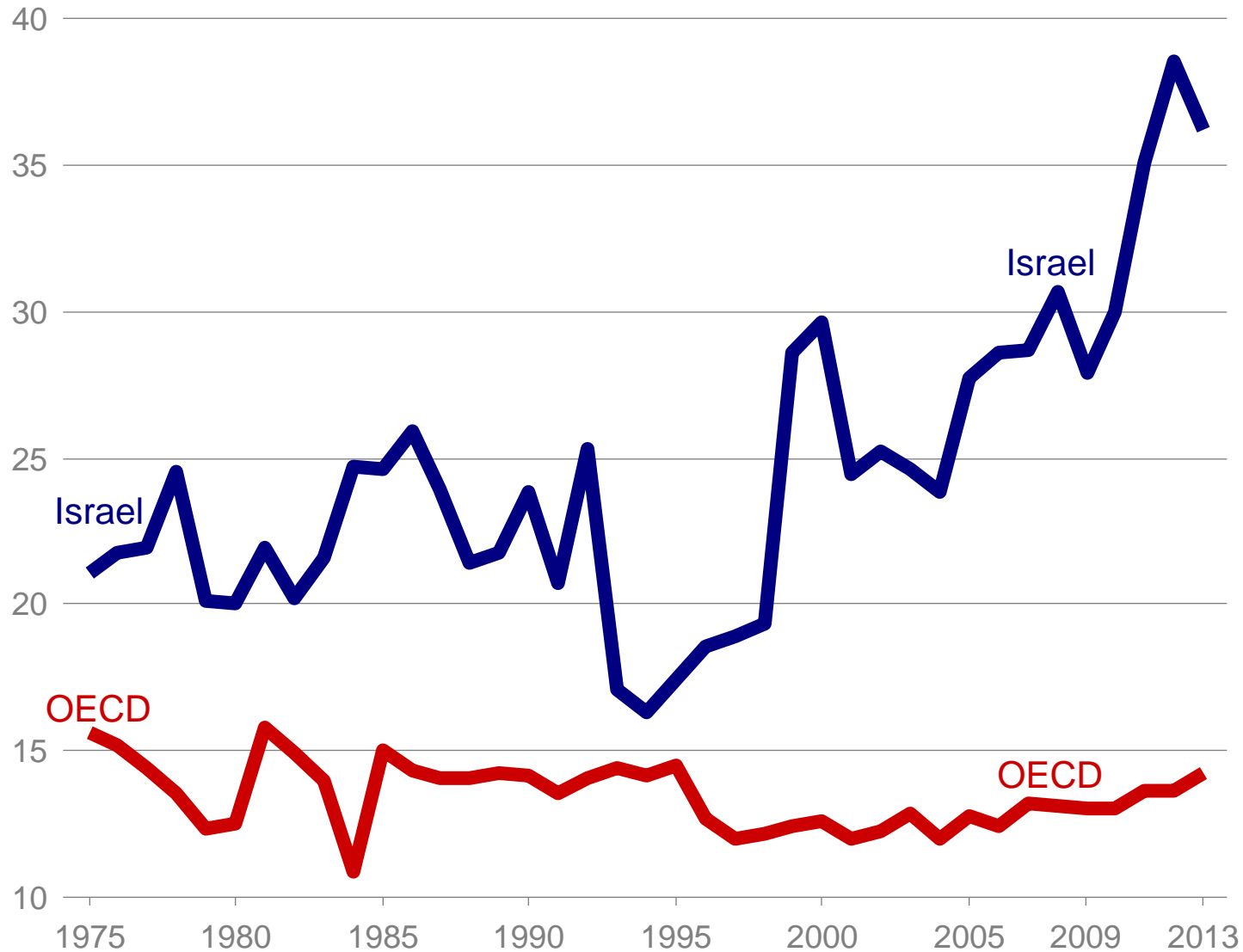
Nursing graduates

per 100,000 population, 2013



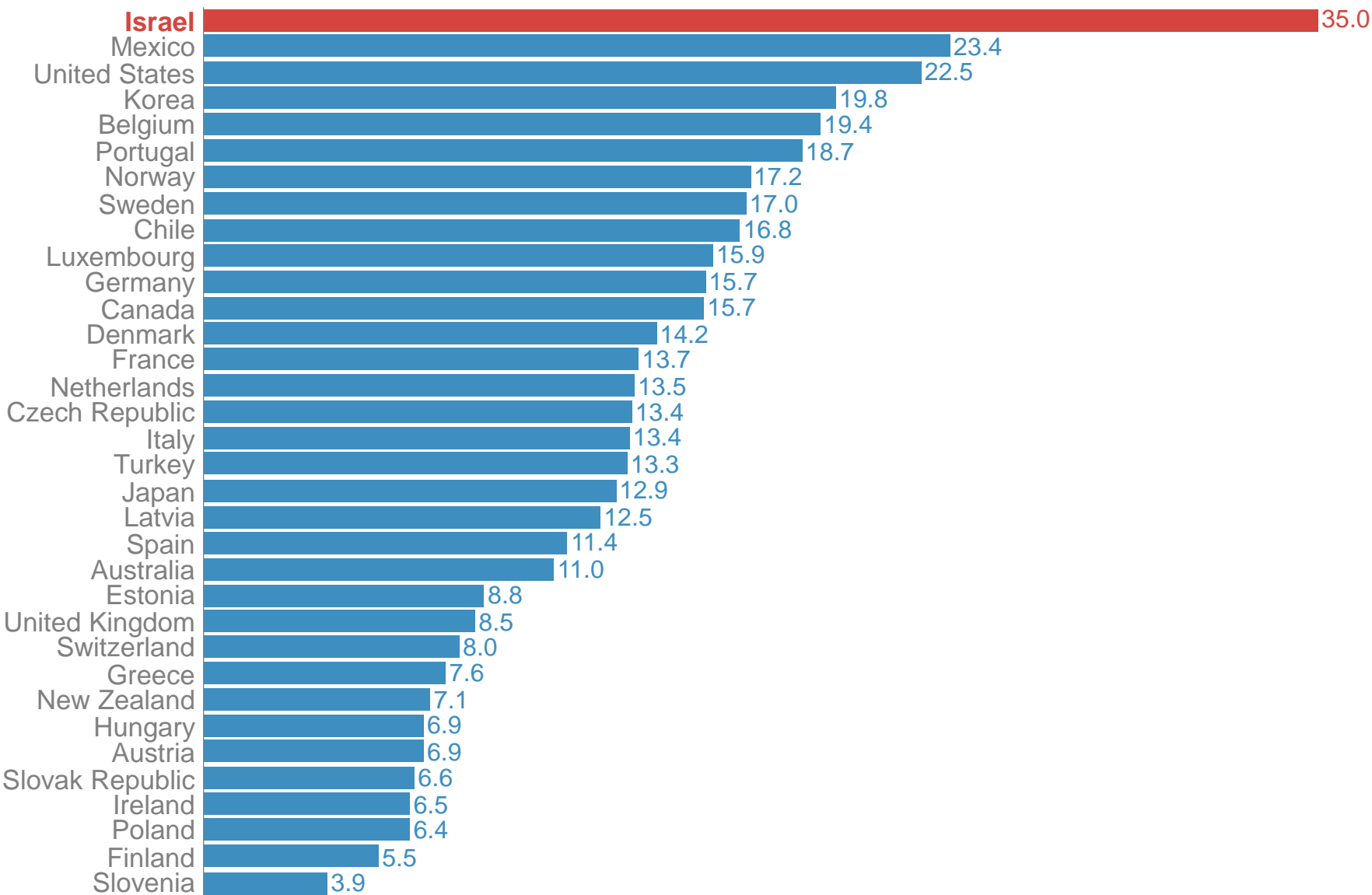
Deaths from infectious and parasitic diseases*

per 100,000 population, 1975-2013



Deaths from infectious and parasitic diseases¹

per 100,000 population, average for 2010-2014



source: Dan Ben-David, Shores Institution and Tel-Aviv University

data: OECD

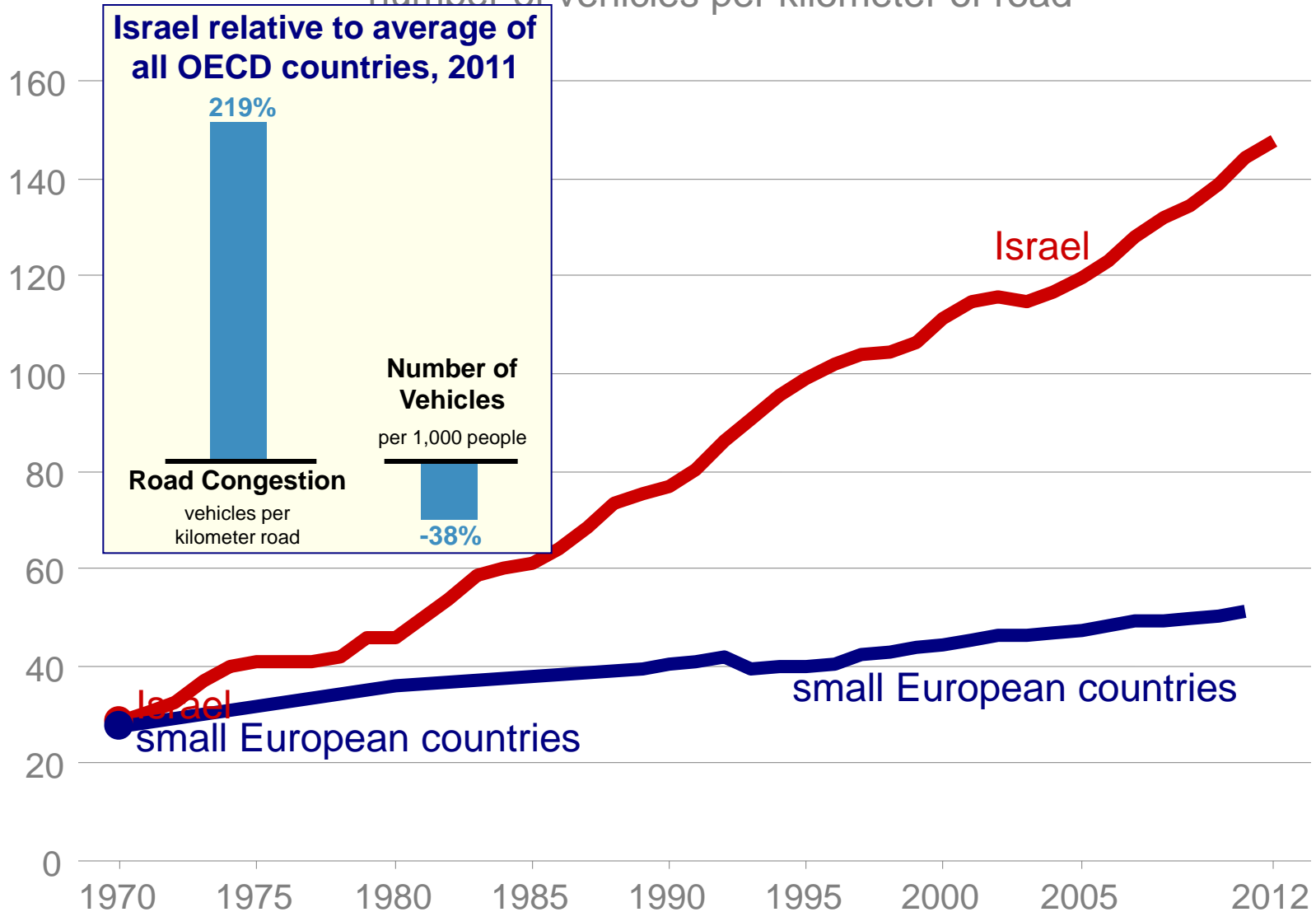
¹ adjusted by the ratio of standardized population to actual population

* 2013, ** 2012, *** 2011, **** 2010

Congestion on roads, 1970-2012

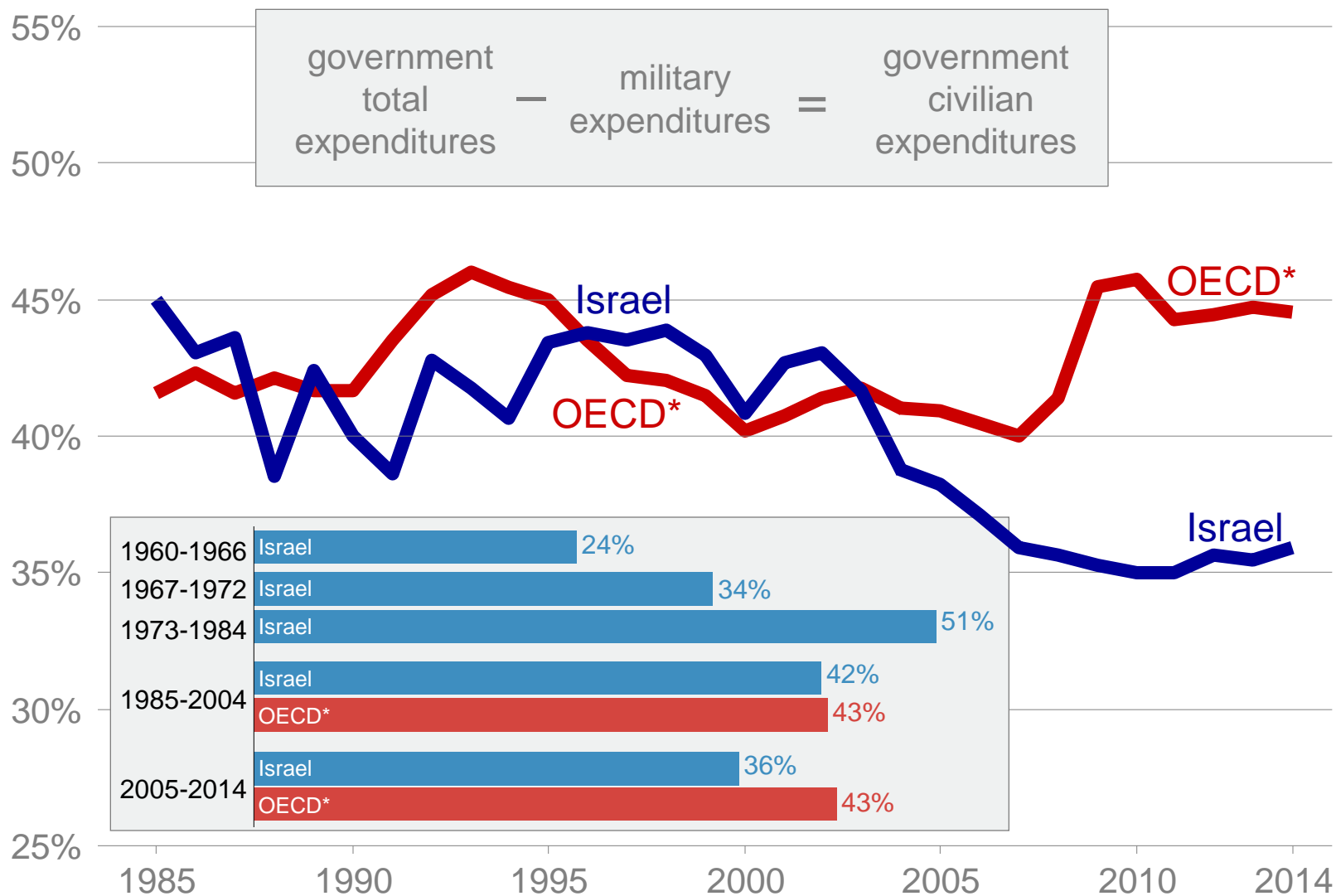
in Israel and small European countries*

number of vehicles per kilometer of road



Government civilian expenditures

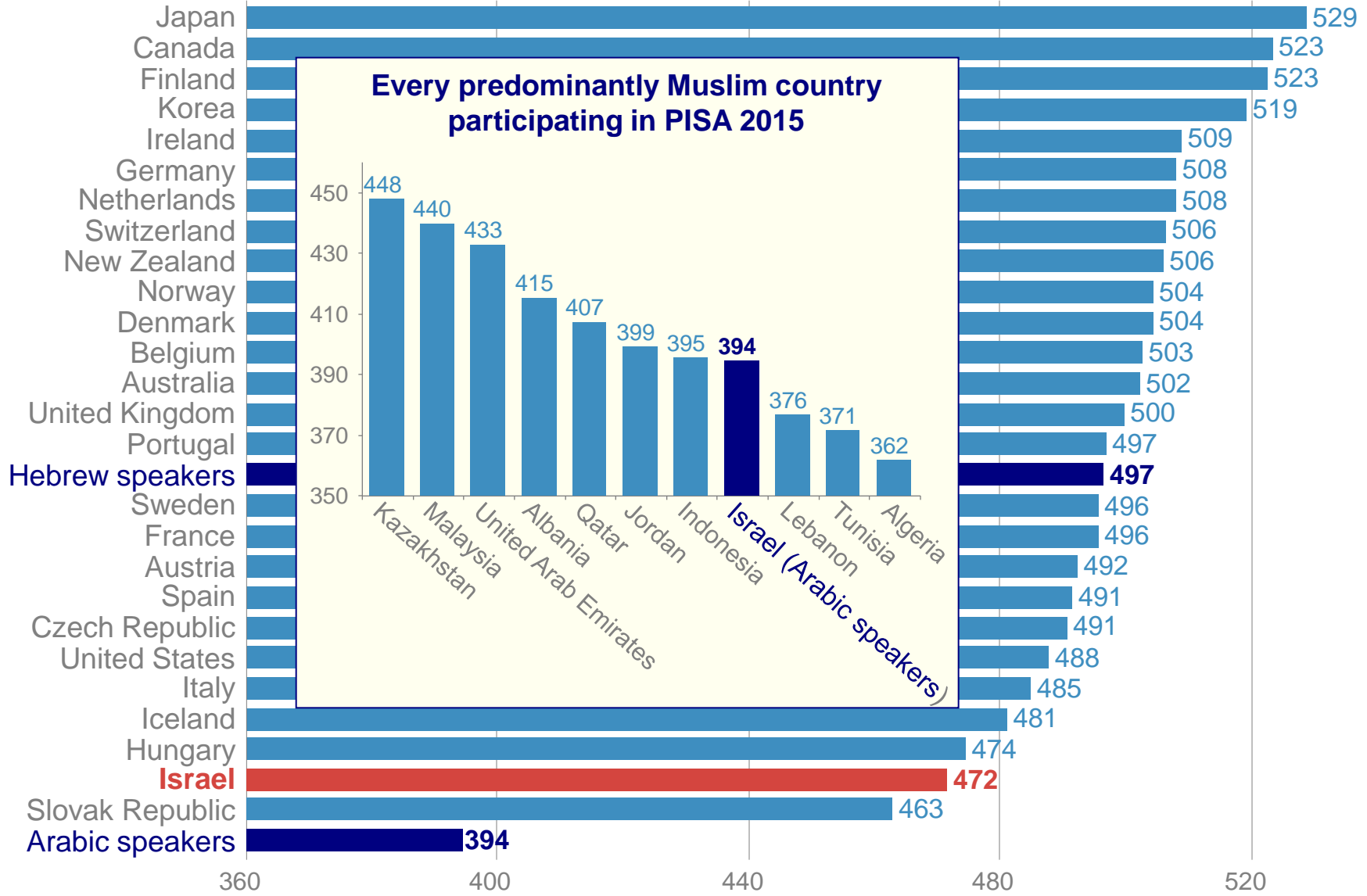
as percent of GDP, 1985-2014



Average level of education in developed world

Average achievement levels in 25 OECD countries and in Israel, PISA 2015 exams

Israel, not including ultra-orthodox Jews



source: Dan Ben-David, Shores Institution and Tel-Aviv University

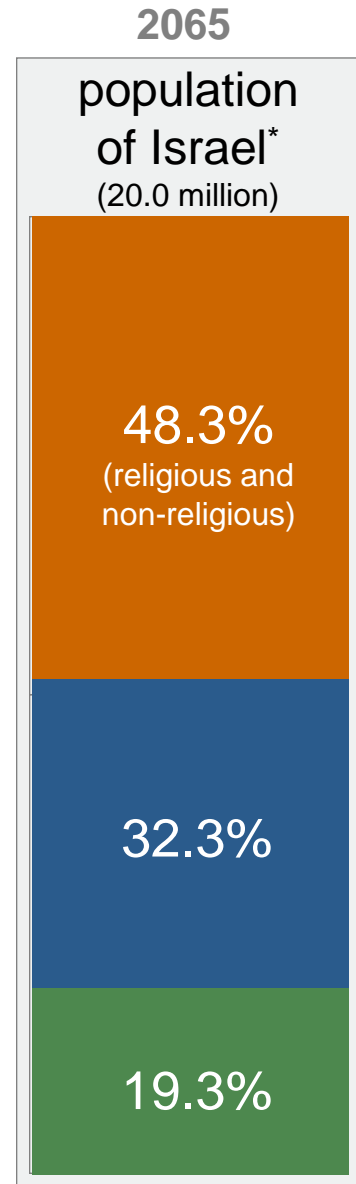
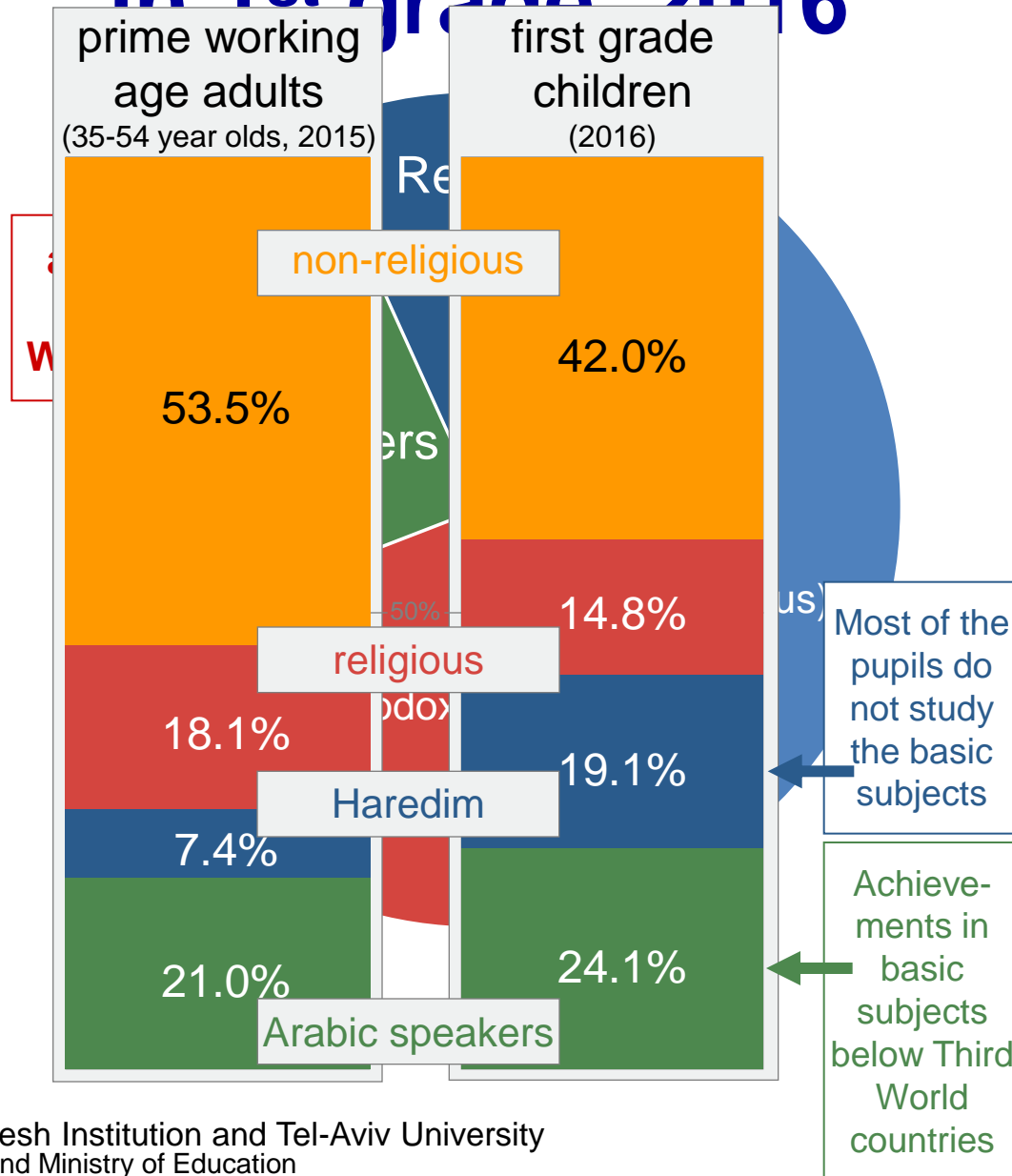
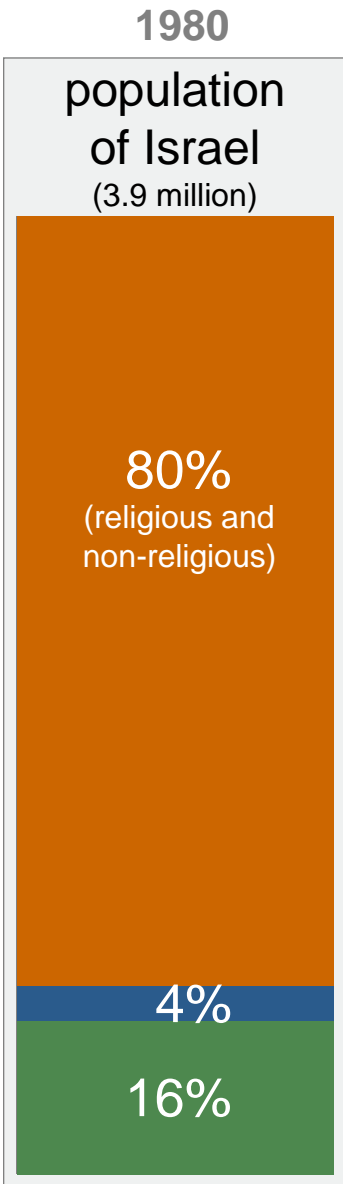
Data: PISA and Israel's National Authority for Educational Measurement and Evaluation

* national average in math, science and reading exams

Israel's changing demographics

Distribution of pupils in 1st grade 2016

each religious sector as share of total

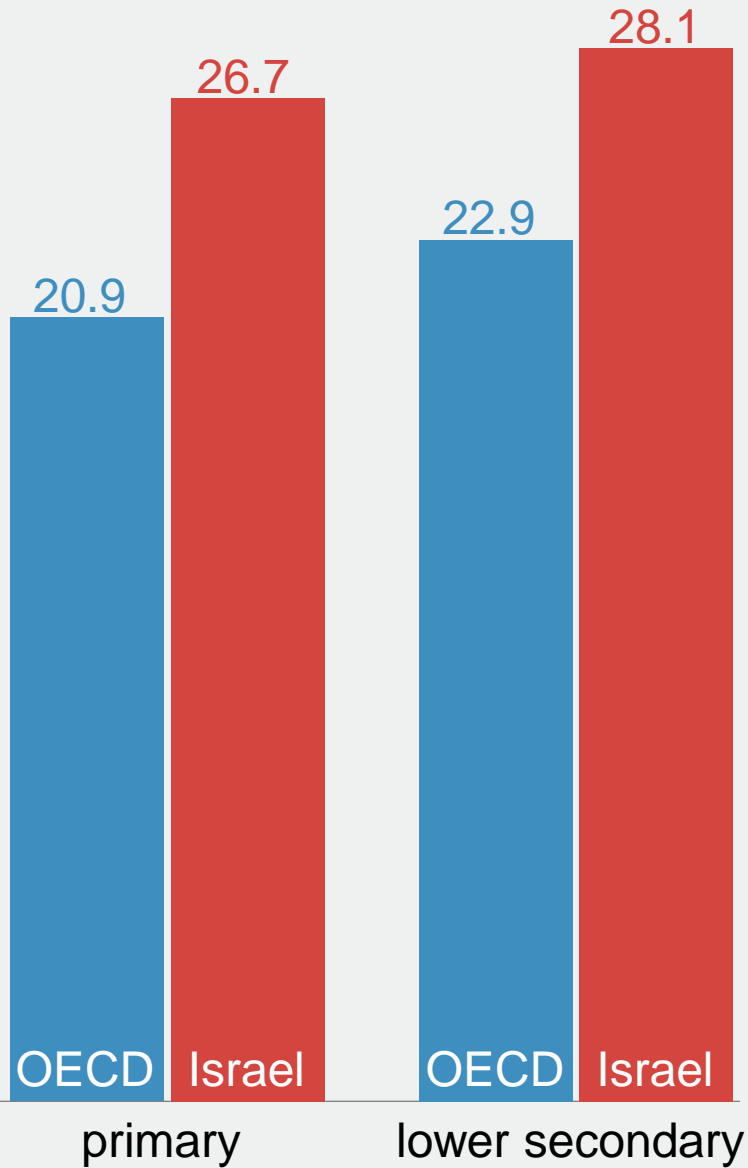


source: Dan Ben-David, Shoresh Institution and Tel-Aviv University
 data: Central Bureau of Statistics and Ministry of Education

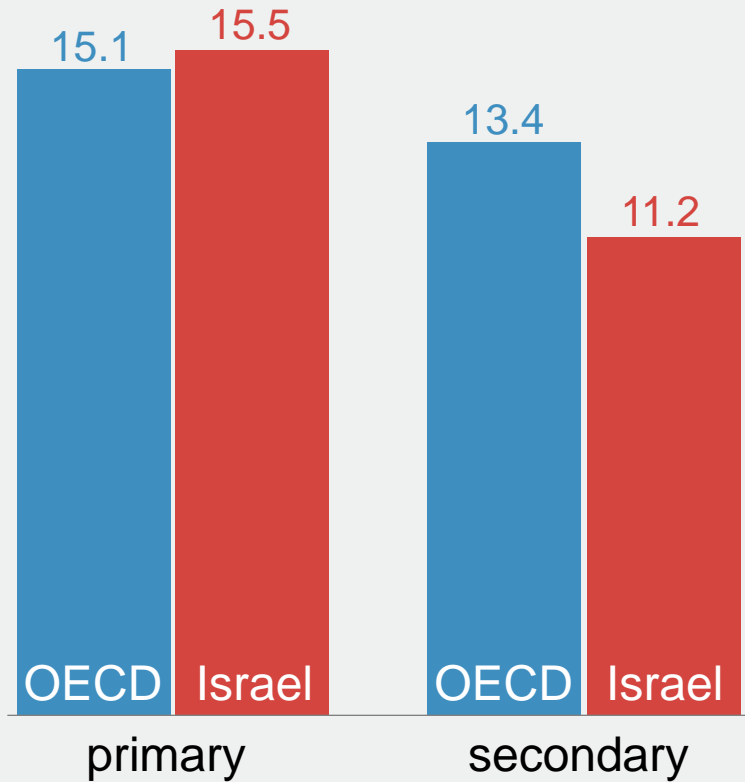
* midpoint projection

Average class size, 2014

(number of pupils per class)



Number of pupils per teacher*, 2014



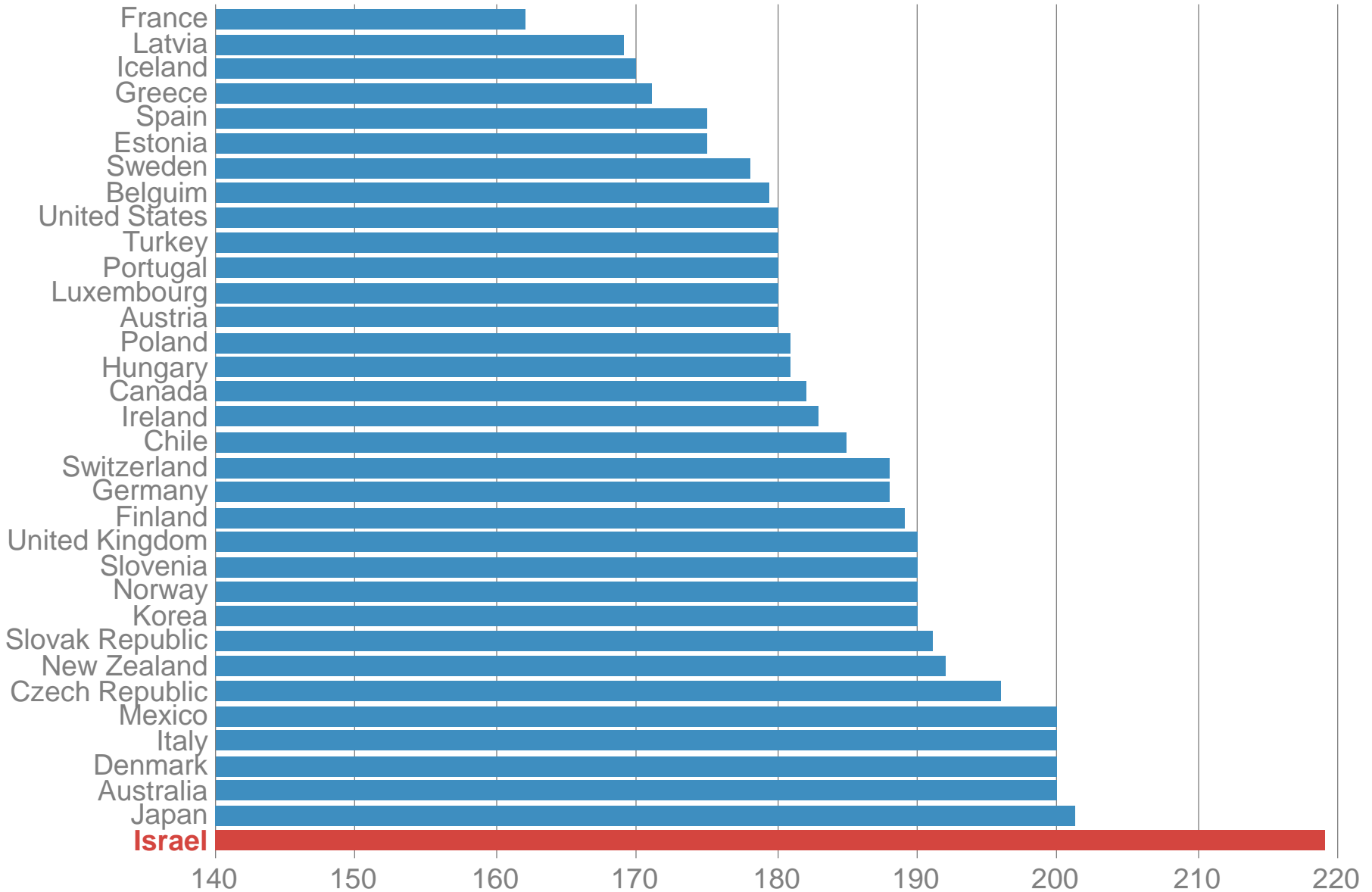
source: Dan Ben-David, *State of the Nation Report 2011-2012*, (updated)

data: OECD

* according to full-time equivalents

Average number of school days in year

Primary school, 34 OECD countries, 2016

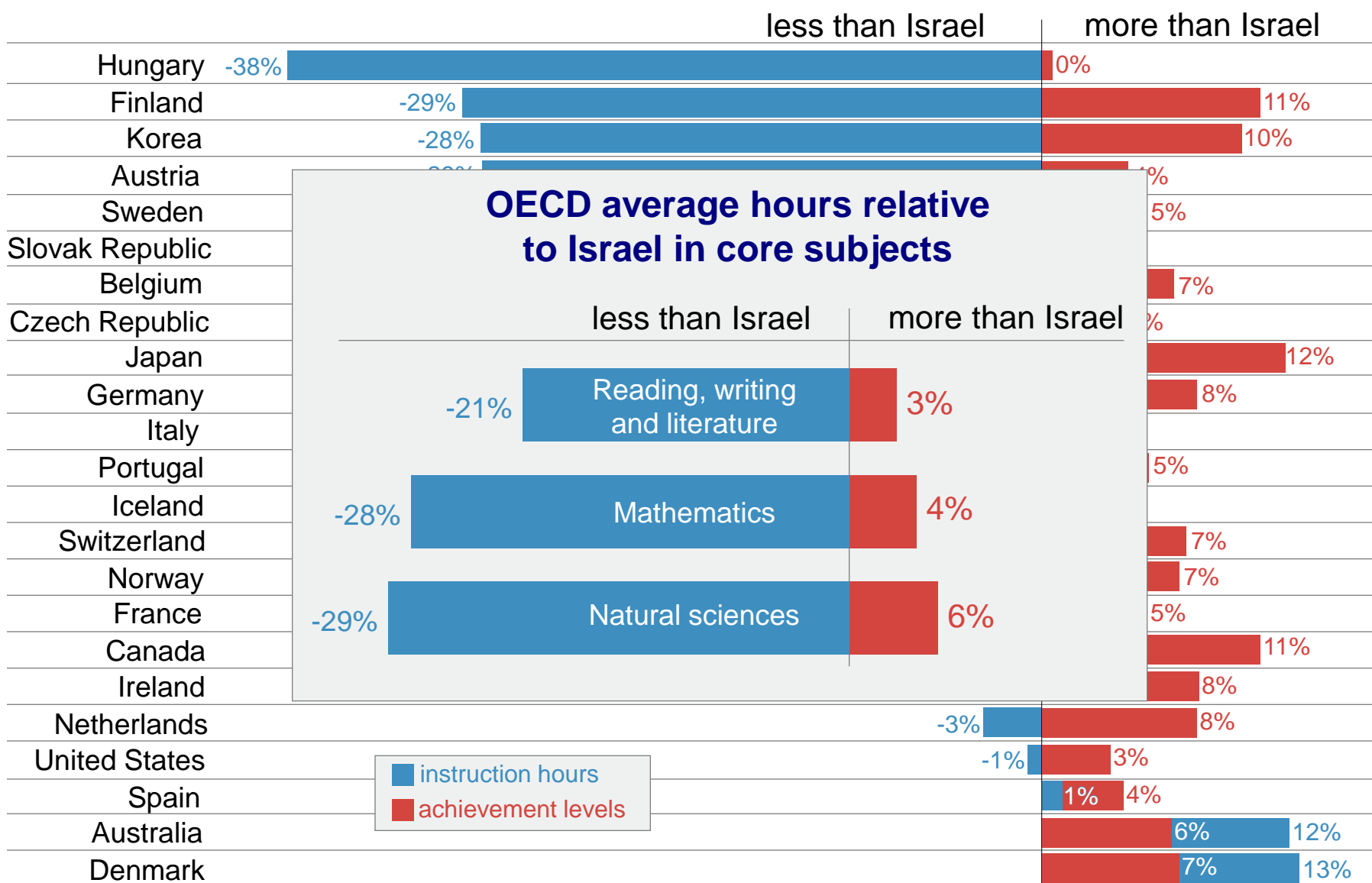


Source: Dan Ben-David, Shores Institution and Tel-Aviv University

Data: OECD

Instruction Hours and Achievement, 2015*

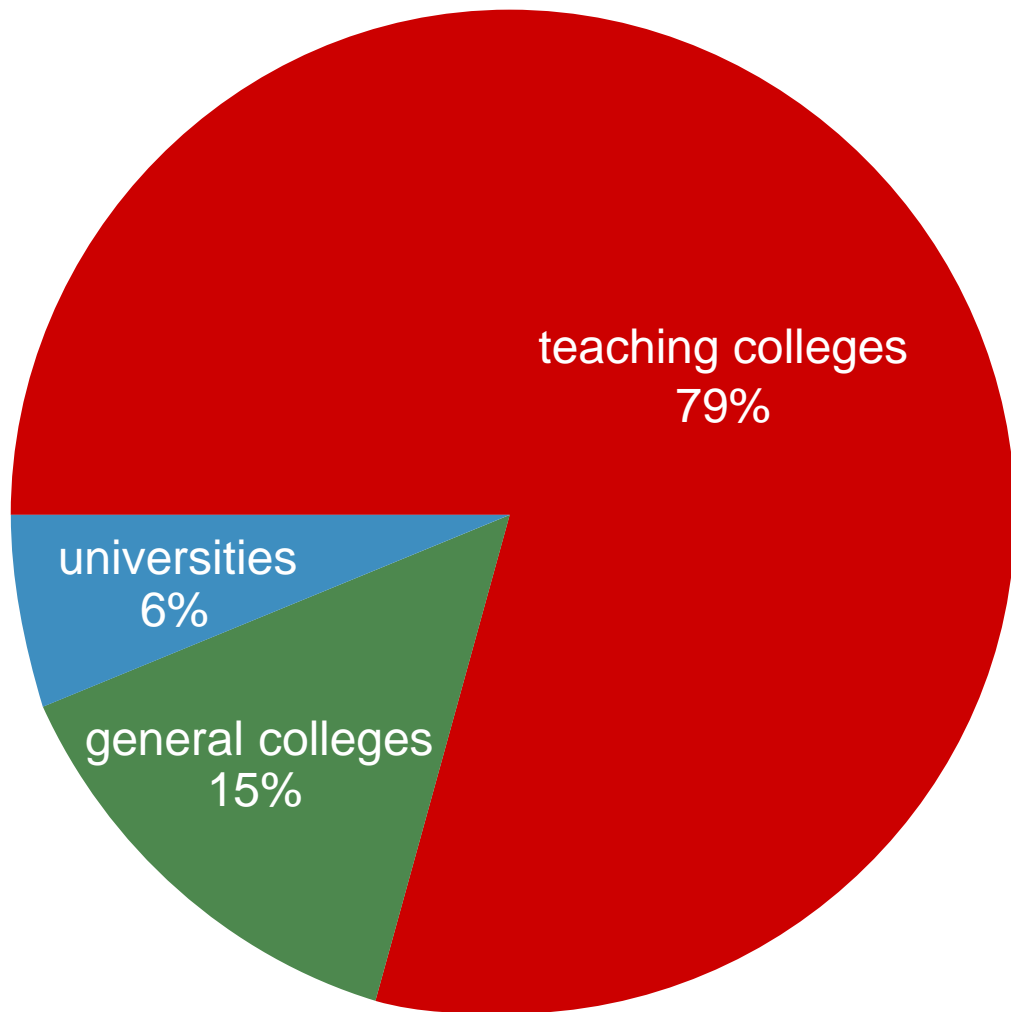
23 OECD countries relative to Israel



■ instruction hours
■ achievement levels

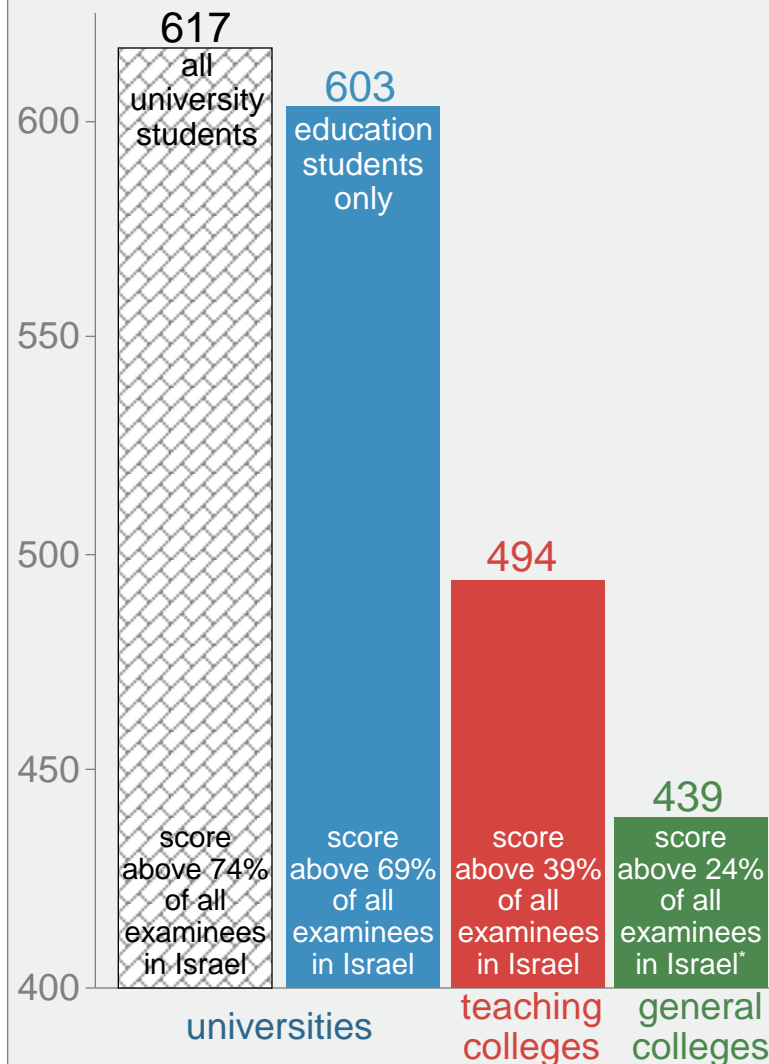
Distribution of education students

by type of institution, first year undergraduate students, 2014-2015



Average psychometric score

by type of institution, all first year education students, 2014-2015

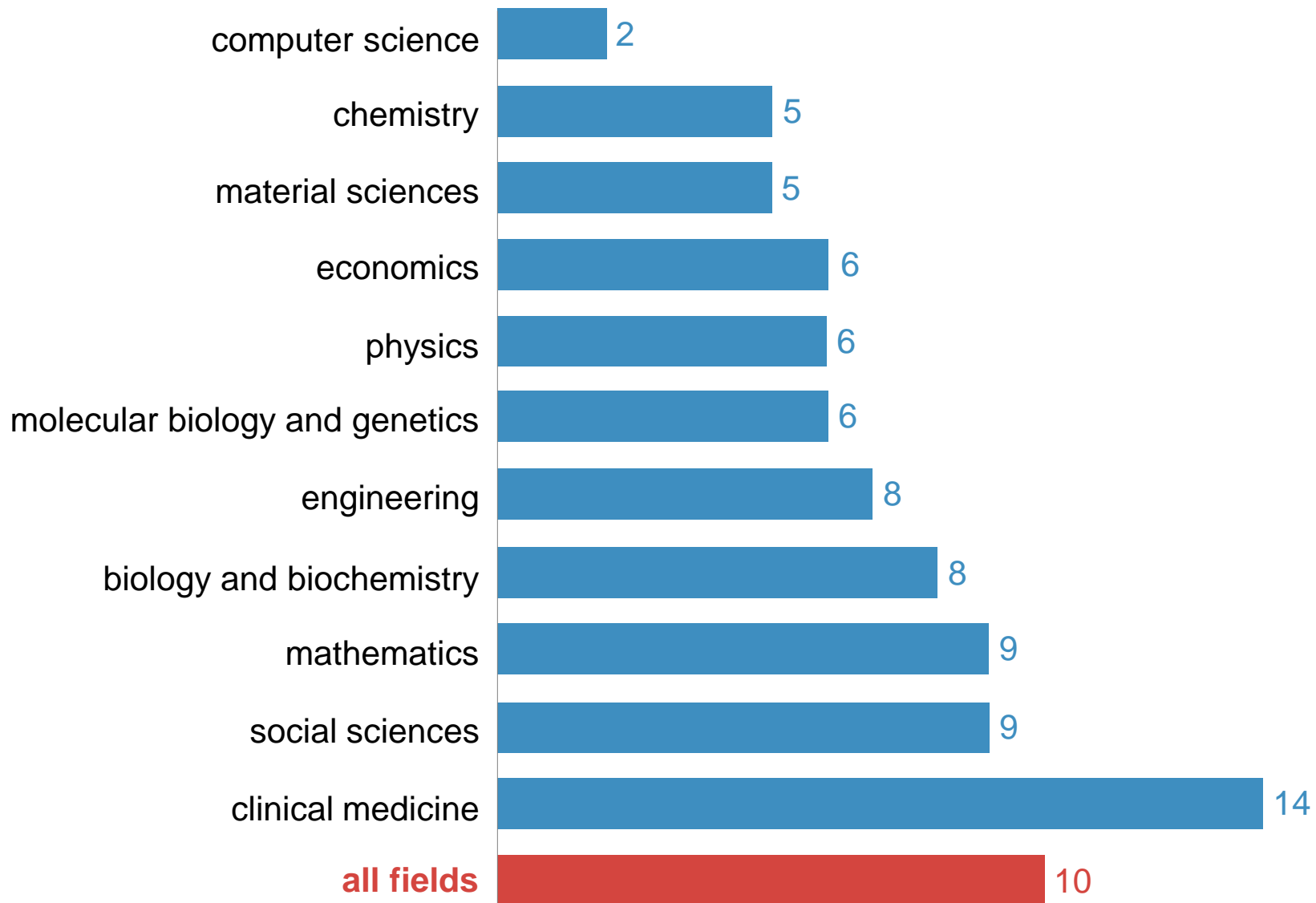


Source: Dan Ben-David, Shores Institution and Tel-Aviv University
Data: Central Bureau of Statistics

* The average psychometric score of all 1st year students in the general colleges was 529 (above 48% of all examinees in Israel).

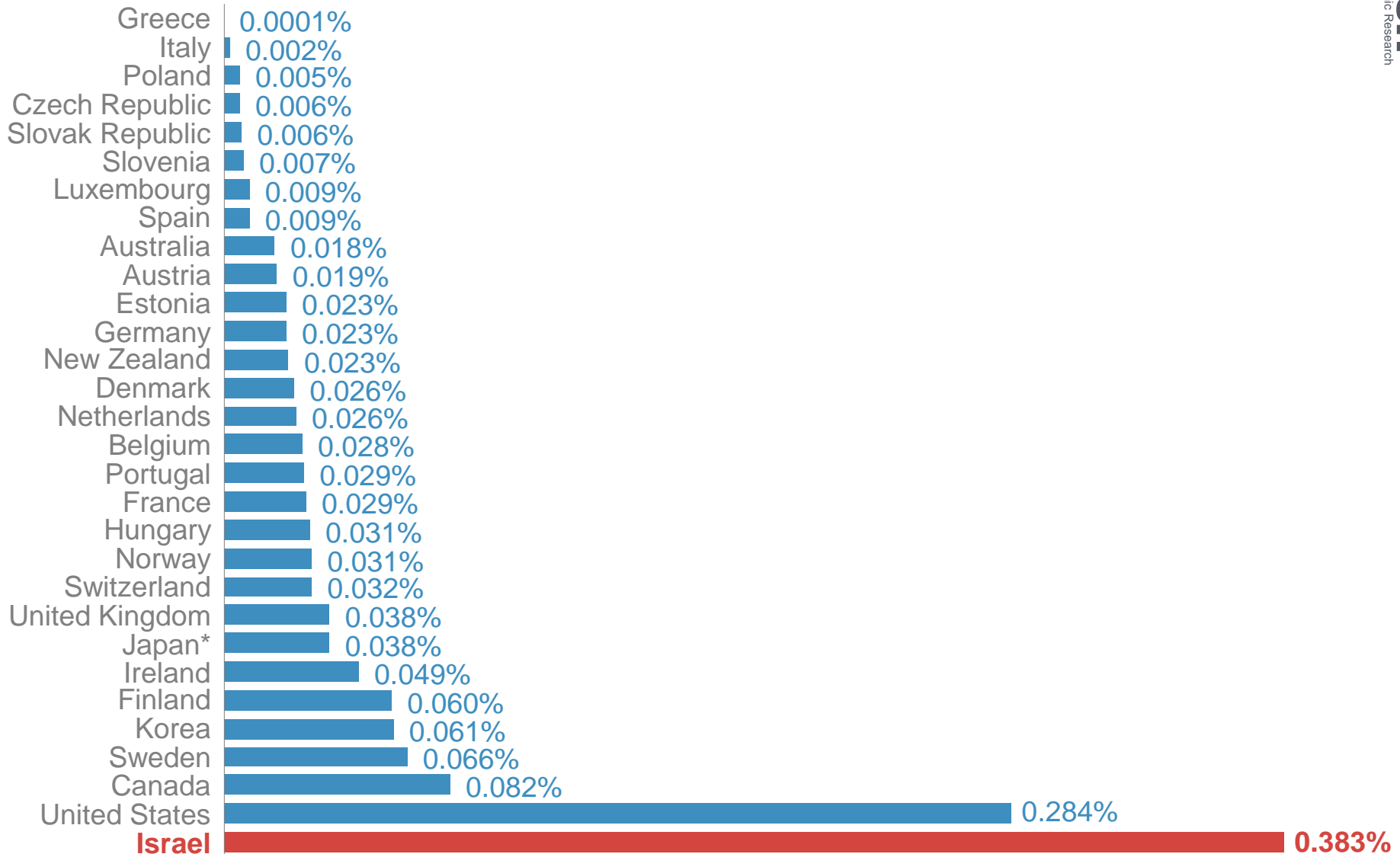
Israel's academic ranking in the world

according to academic citations by article, by selected fields, 2003-2013



Venture Capital Investments, 2014

29 OECD countries, as percent of GDP



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