

Critical mass

The countries and territories scoring highest for innovation, according to the World Intellectual Property Organization's Global Innovation Index, tend to have impressive researcher density. **Data analysis by Bo Wu.**
Infographic by Simon Baker and Tanner Maxwell.

TRANSFORMATIVE CULTURE

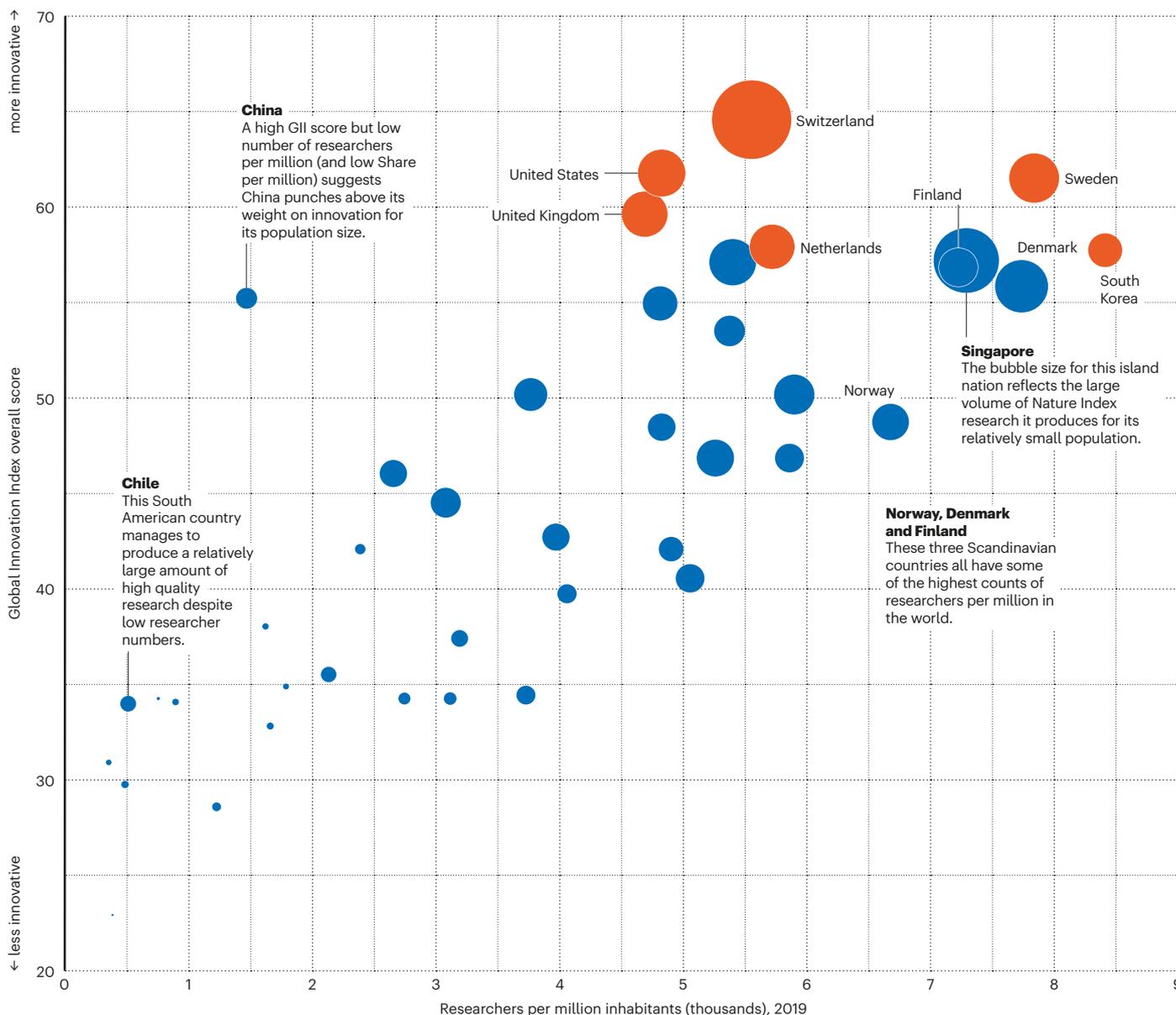
The chart below shows the relationship between overall scores obtained by each country/territory in the 2022 Global Innovation Index (GII) and the number of researchers per million people in that location (in 2019). Bubble size, meanwhile, shows the volume of research in the Nature Index (as measured by Share in 2021) relative to population size.

Legend

Leading GII countries

Other countries

Circle size represents Share per million population



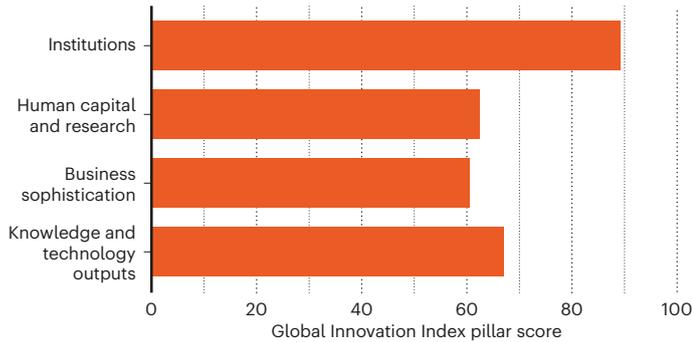
SOURCE: NATURE INDEX, WIPO GLOBAL INNOVATION INDEX (2022), UNESCO, WORLD BANK, THE LENS

WORLD LEADERS

These charts show the six leading nations by overall GII score. Shown are their Gross Expenditure on Research and Development (GERD) as a percentage of GDP (2019); population size (2021) and the number of institutions in the top 100 ranked by 'patent influence metric' in this supplement. The bars show their separate scores in four areas — or 'pillars' — of innovation measured by the GII.

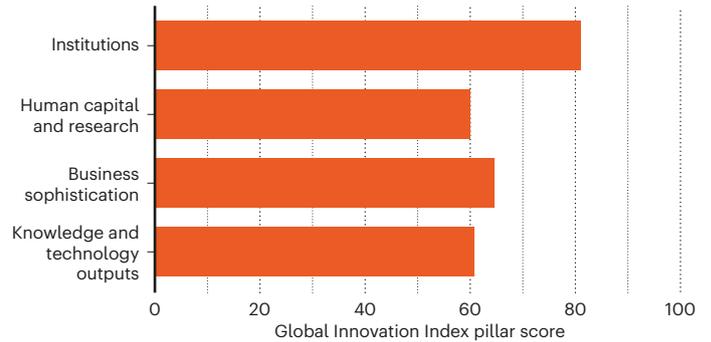
SWITZERLAND

GERD as % of GDP: 3.15
Population: 8.70 million
Institutions in top 100 of Innovation ranking: 5
Top institution in Innovation ranking: F. Hoffmann-La Roche



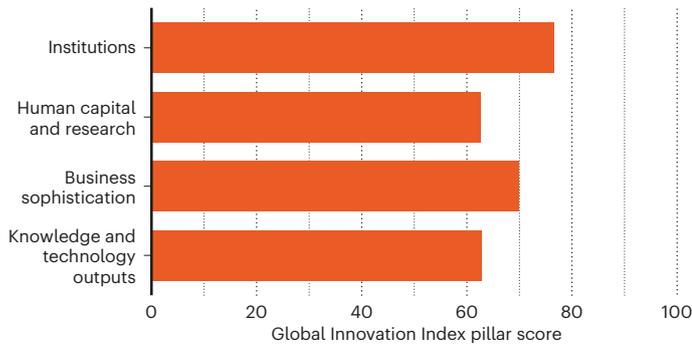
UNITED STATES

GERD as % of GDP: 3.17
Population: 331.89 million
Institutions in top 100 of Innovation ranking: 61
Top institution in Innovation ranking: Salk Institute for Biological Studies



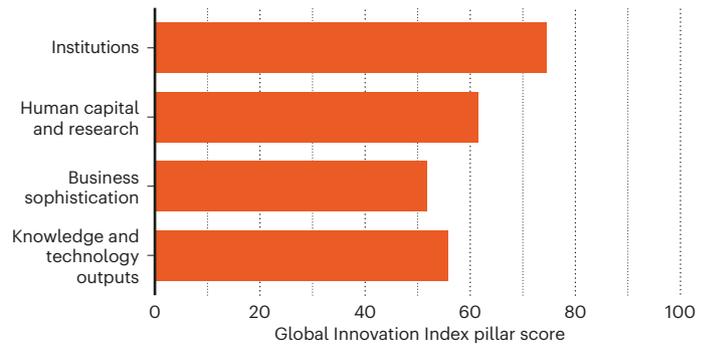
SWEDEN

GERD as % of GDP: 3.39
Population: 10.42 million
Institutions in top 100 of Innovation ranking: 1
Top institution in Innovation ranking: Karolinska Institute



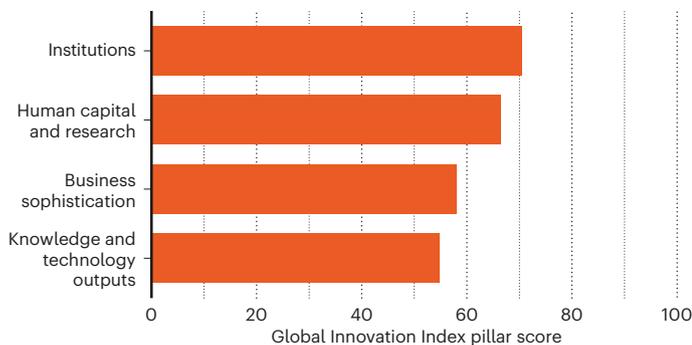
UNITED KINGDOM

GERD as % of GDP: 1.71
Population: 67.33 million
Institutions in top 100 of Innovation ranking: 4
Top institution in Innovation ranking: Wellcome Sanger Institute



SOUTH KOREA

GERD as % of GDP: 4.63
Population: 51.74 million
Institutions in top 100 of Innovation ranking: 5
Top institution in Innovation ranking: Korea Institute of Science and Technology



NETHERLANDS

GERD as % of GDP: 2.18
Population: 17.53 million
Institutions in top 100 of Innovation ranking: 0
Top institution in Innovation ranking: Eindhoven University of Technology

