

Hurdles facing science in the Americas.

UNESCO SCIENCE REPORT

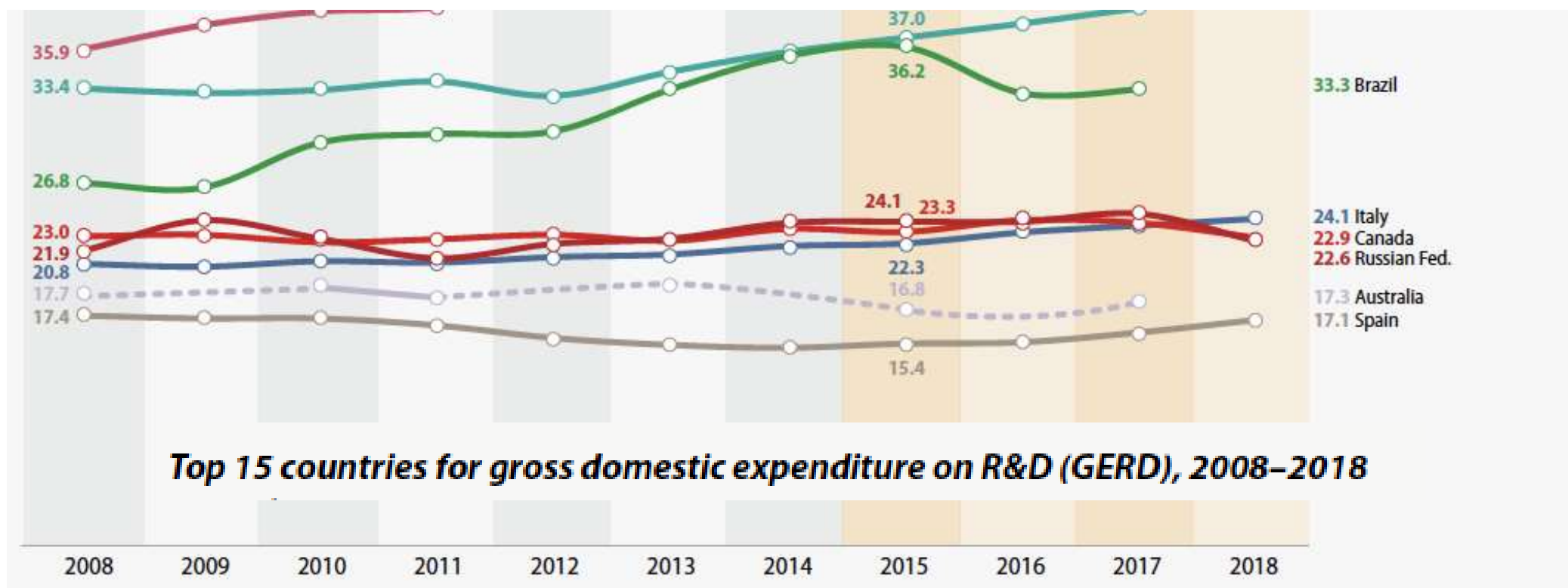
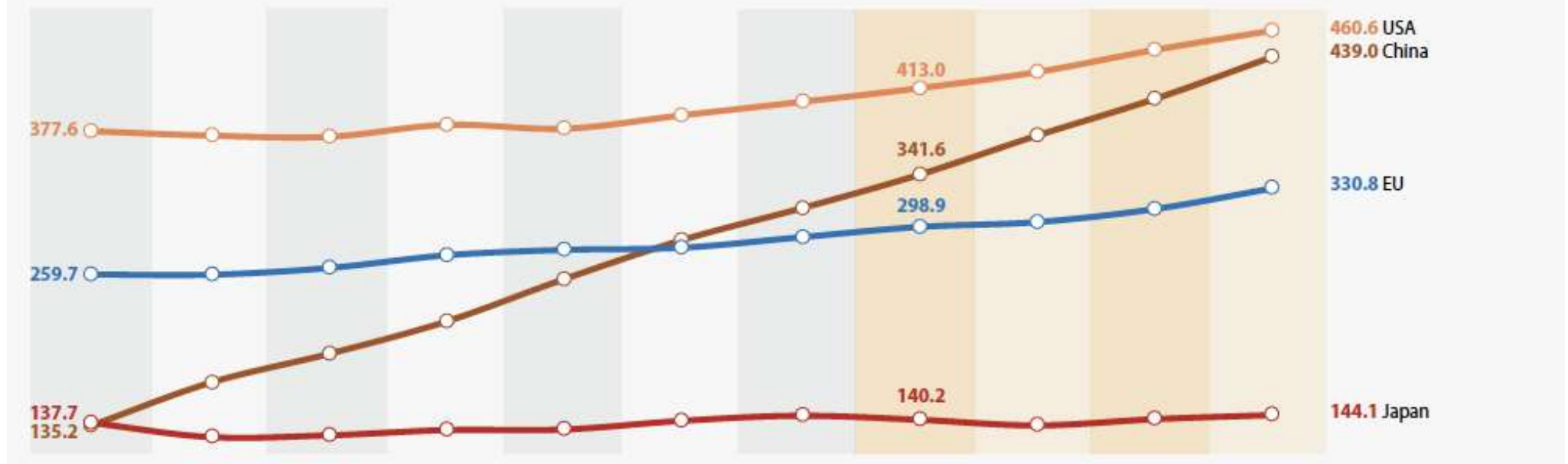
The race against time
for smarter development

<https://unesdoc.unesco.org/ark:/48223/pf00003772>

Change in research spending by region, 2014–2018

In PPP\$ billions





Top 15 countries for gross domestic expenditure on R&D (GERD), 2008–2018

Change in research expenditure as a share of GDP, 2014 and 2018 (%)

Among countries with a difference of at least $\pm 0.10\%$ of GDP

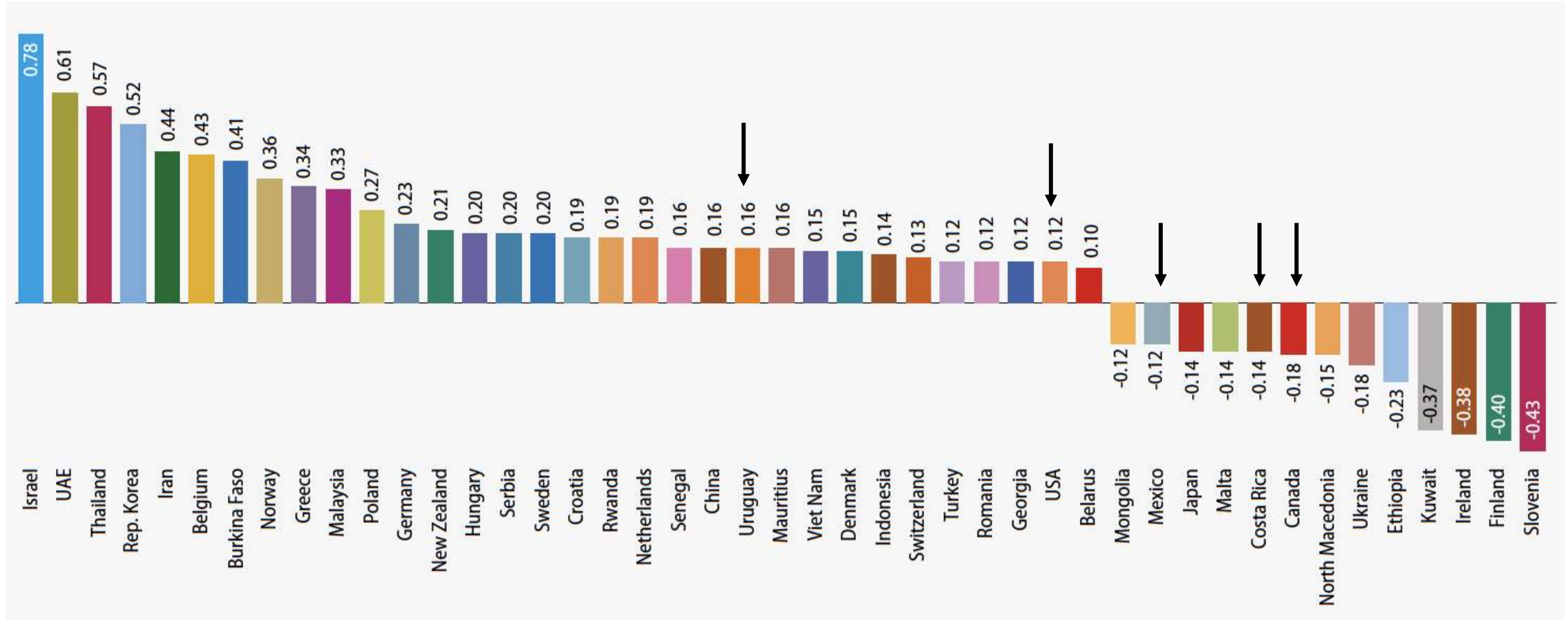
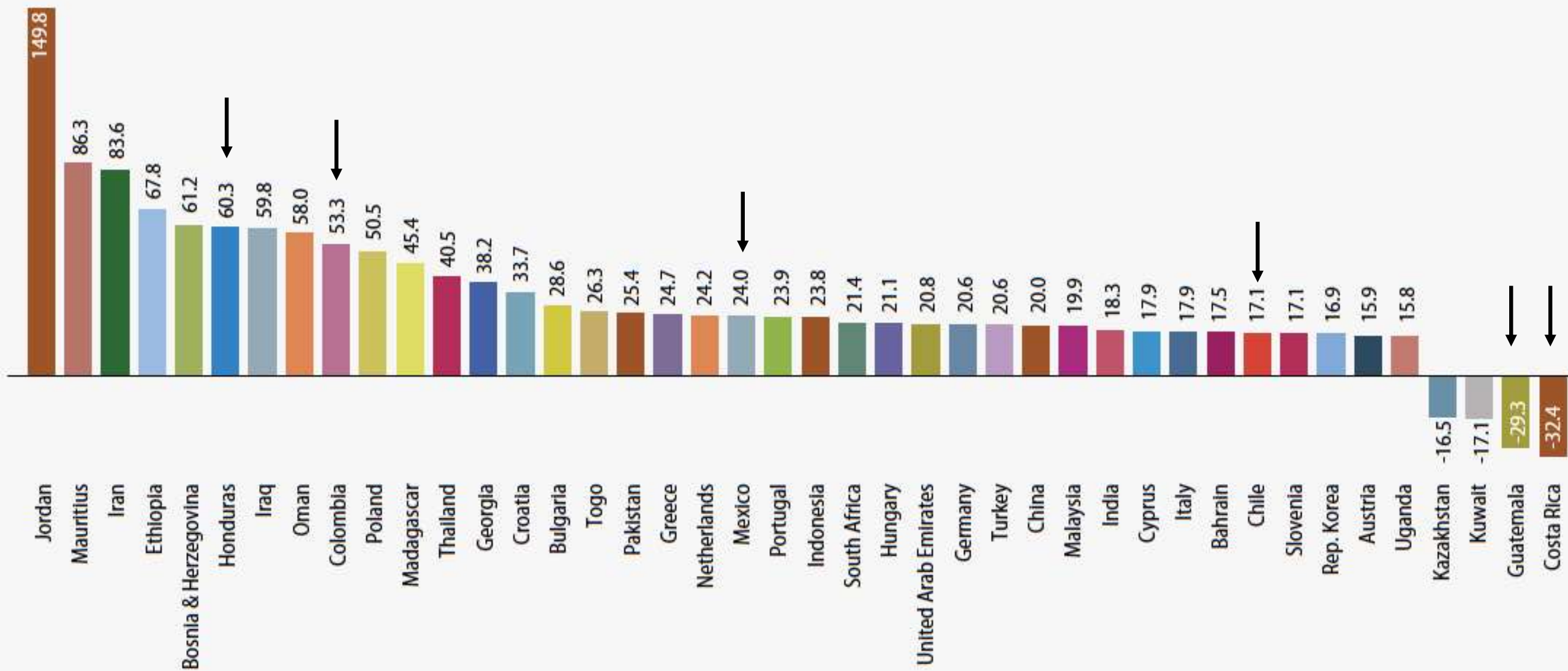


Photo of old equipment

Photo of researcher

Change in researchers (FTE) per million inhabitants, 2014–2018 (%)

Among countries with a change of at least 15%



>10 institutions

Filling teaching requirements with contract workers



Brain drain

**How can we deal with
the hurdles?**



Pic of children

Photo re climate change

SUSTAINABLE DEVELOPMENT GOALS

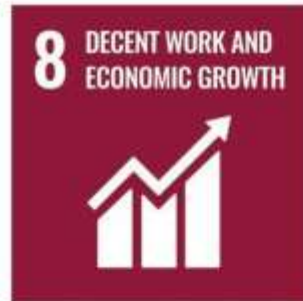
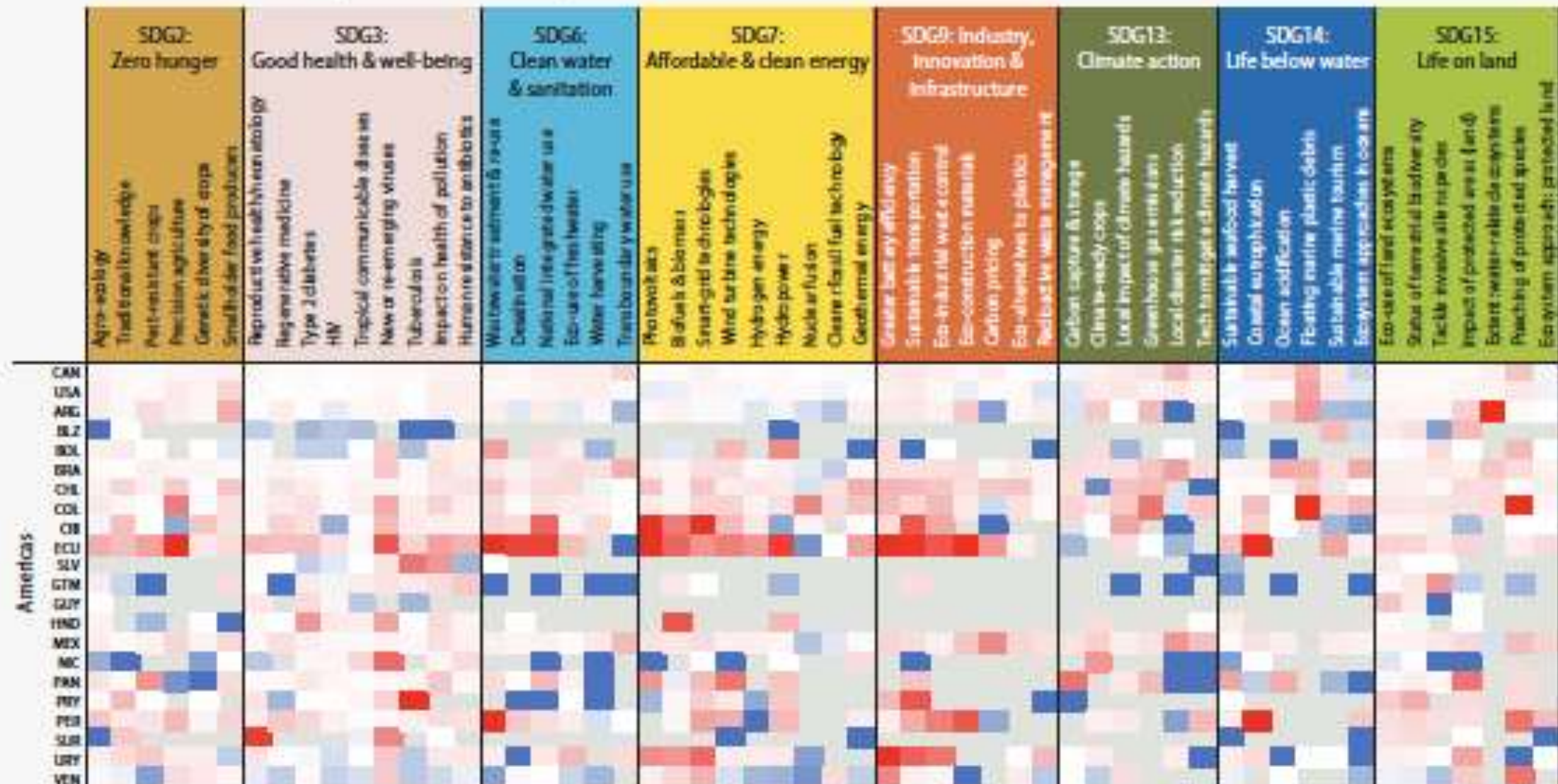


Figure 1.7: Heatmap showing change in scientific publishing on 56 topics related to the Sustainable Development Goals, 2012–2019



Growth rate:

Decline in output

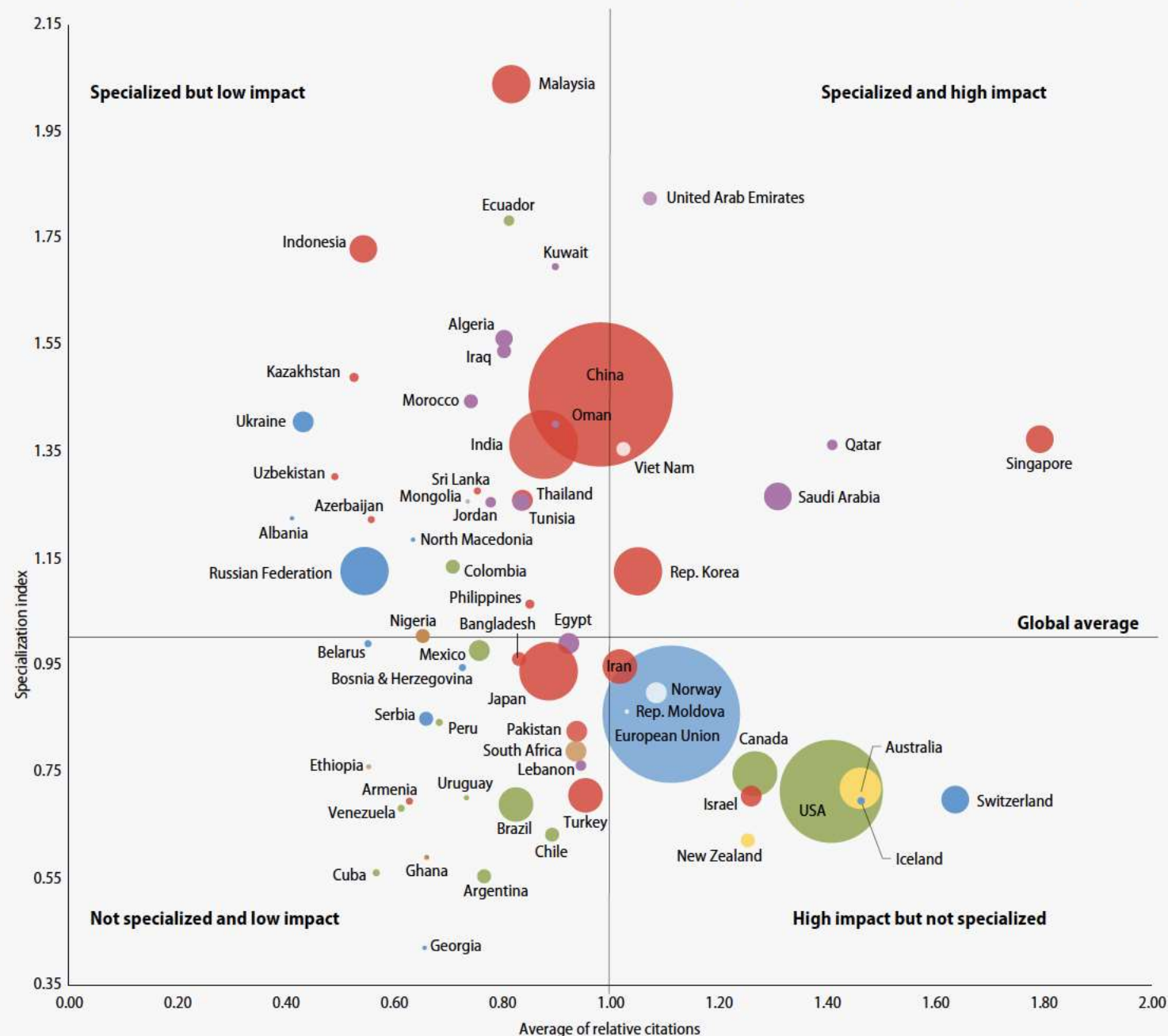
No change

Growth in output

No output for the first or both periods

Specialization and average of relative citations for cross-cutting strategic technologies by country and region, 2011–2019

Among countries with at least 1 000 publications in this broad field over 2011–2019. The size of the circle is proportionate to the volume of publications



Challenges and Opportunities for Food and Nutrition Security in the Americas

The View of the Academies of Sciences



IANAS Regional Report
November 2017

Retos y oportunidades de la seguridad alimentaria y nutricional en las Américas

El punto de vista de las Academias de Ciencias

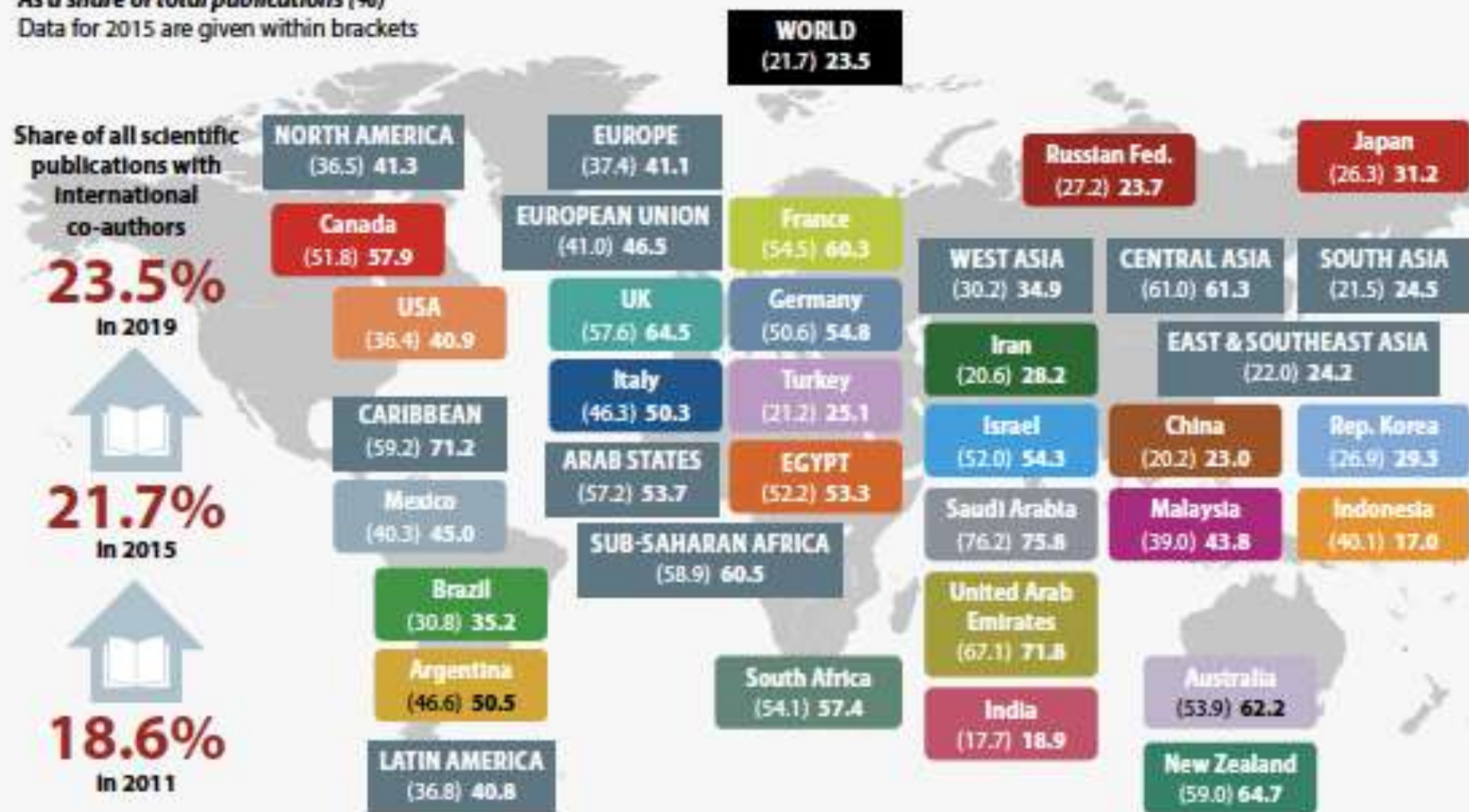


IANAS Reporte Regional
Noviembre 2017

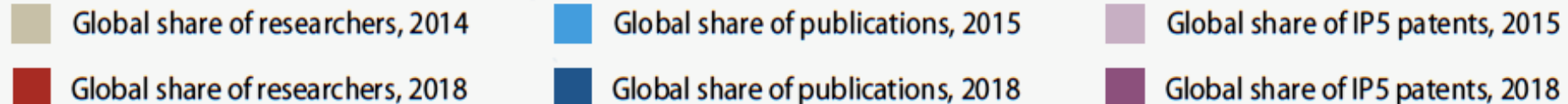
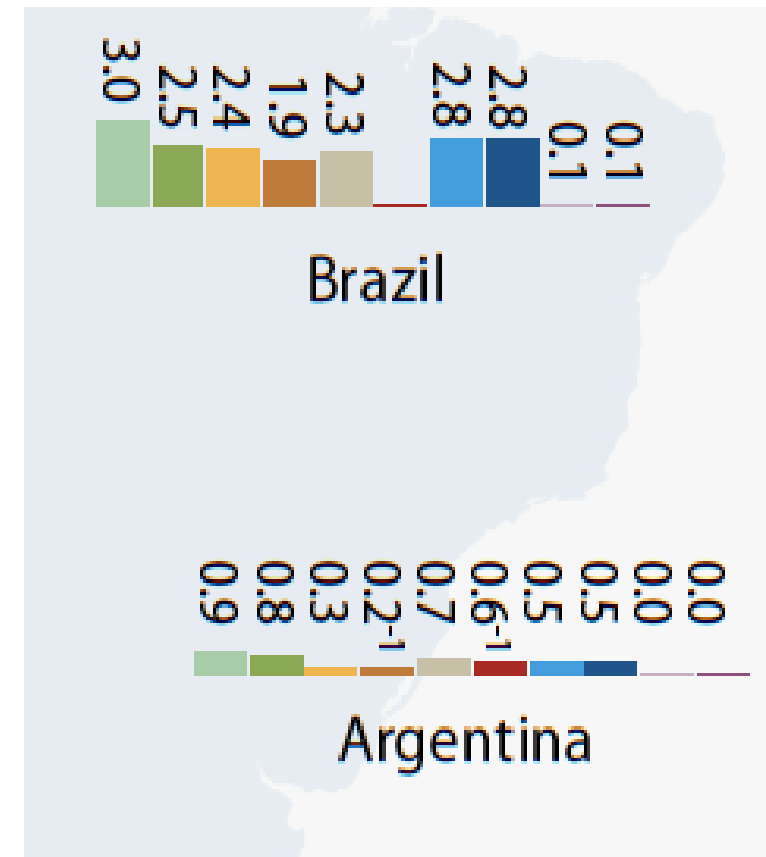
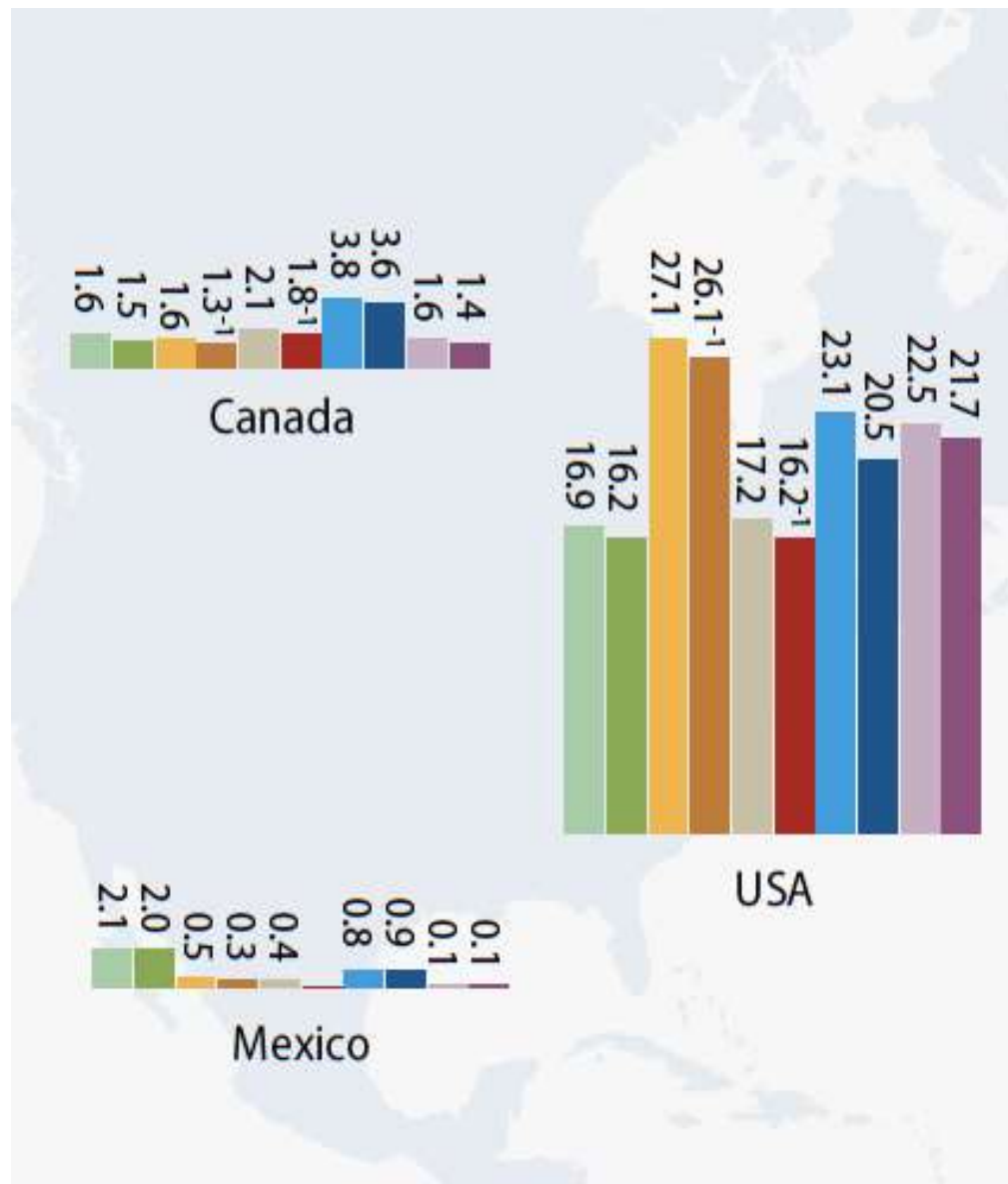
Figure 1.4: International scientific co-authorship, by region and selected country, 2015 and 2019

As a share of total publications (%)

Data for 2015 are given within brackets



Hitting above our weight in terms of publication output



**How can we deal with the
hurdles for young
scientists?**

**Broaden the diversity of
training in grad school**

**Offer greater access to
distance learning**

Connections to Sustain Science in Latin America