

RUN LATIN AMERICAN DELEGATION

March 18-26

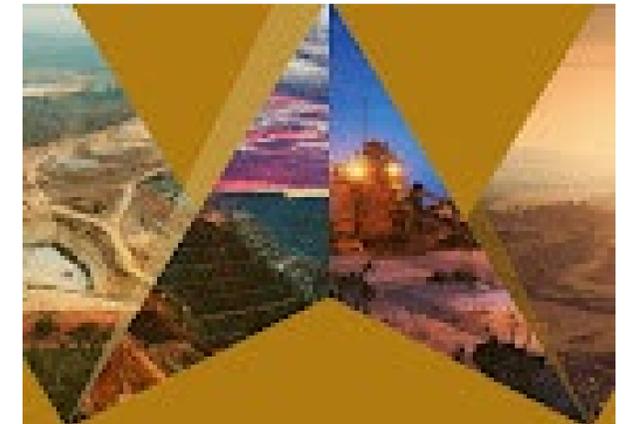


AUSTRALIA/CHILEAN RESEARCH

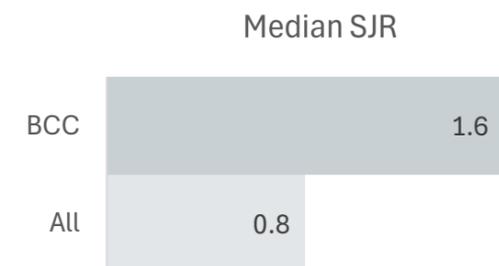
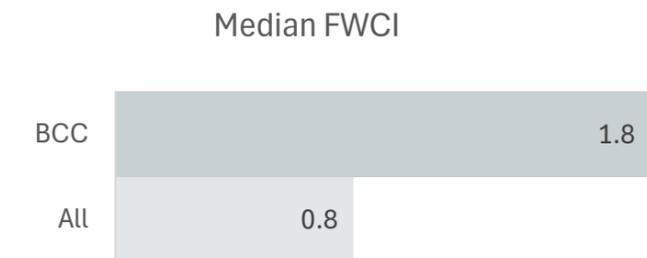
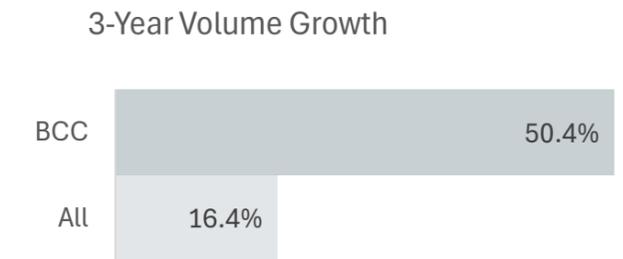
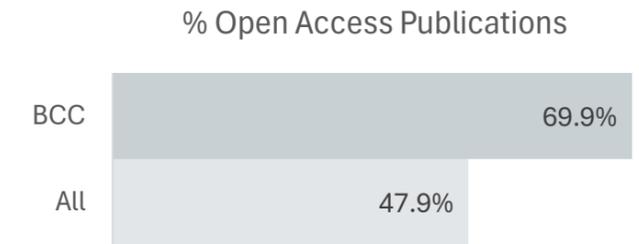
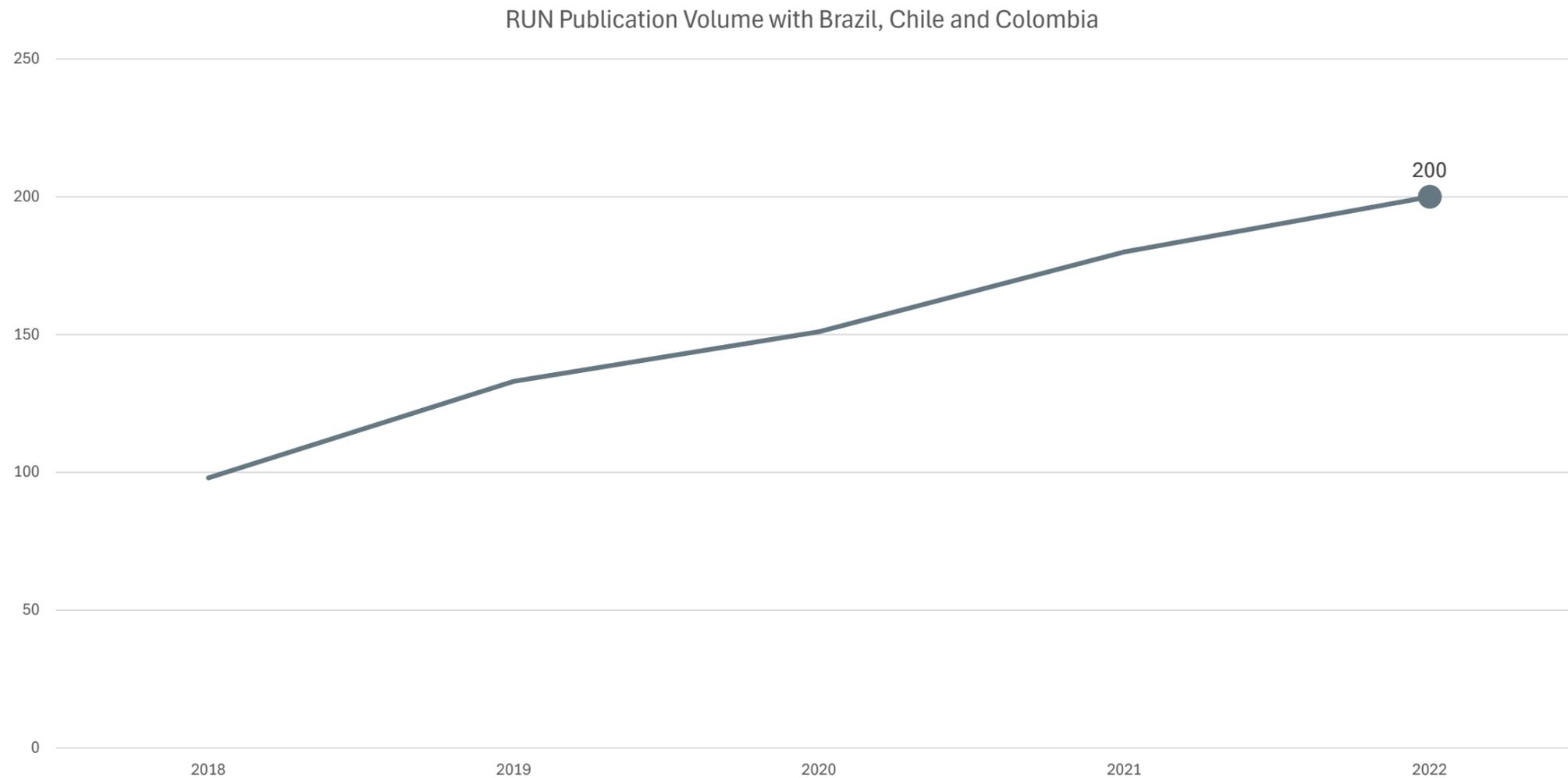


REGIONAL STRENGTH. NATIONAL SUCCESS.

- Australia has a long history of research collaboration with Chile, already cooperate in research on a range of issues of mutual interest
- Internationalisation is a key priority of both RUN universities and Chilean institutions
- Student mobility has been a focus, with Australia being an attractive study destination after the UK, US and Spain
- There are opportunities, with both countries sharing similar challenges, especially around climate change and renewables. Green hydrogen is a growing area of potential collaboration between both countries. There are other synergies eg., University of Queensland's Sustainable Minerals Institute, Australian Regenerative Medicine Institute at the Monash University – many adjacent opportunities in these field for RUN
- Through the Chilean Ministry for Science and Technology- emphasis on research, R&D funding, providing the opportunity for Australian institutions to establish joint and dual post-graduate research degrees with local universities –cotutelles



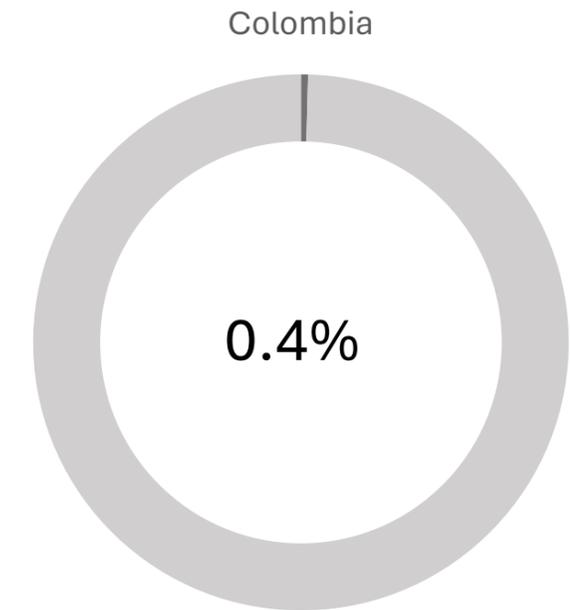
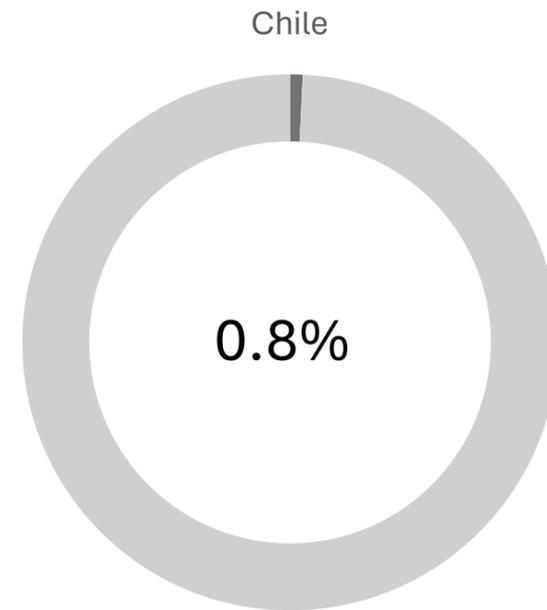
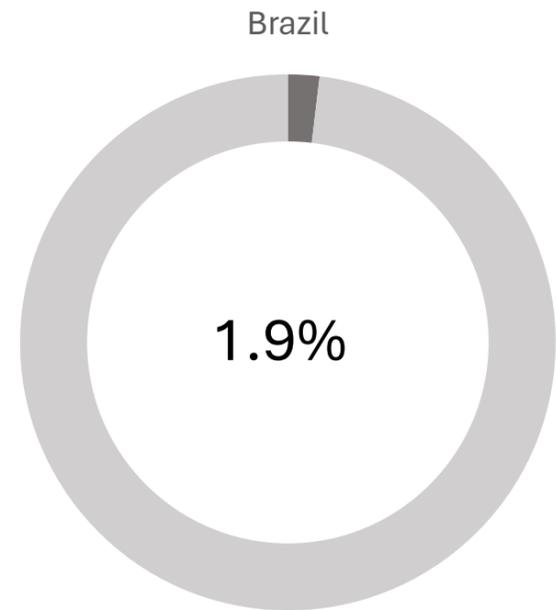
Research vitality: RUN collaborations with Brazil, Colombia and Chile



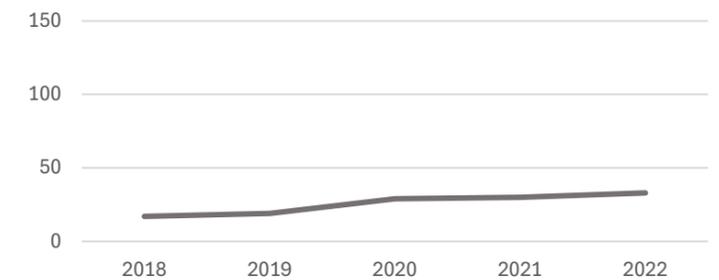
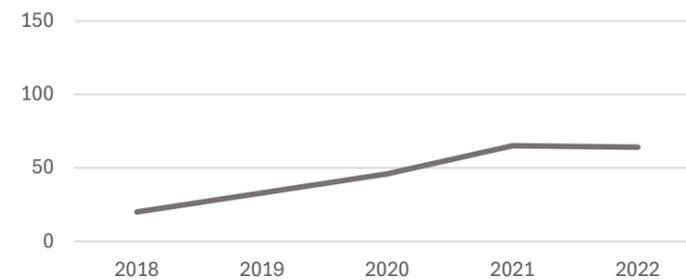
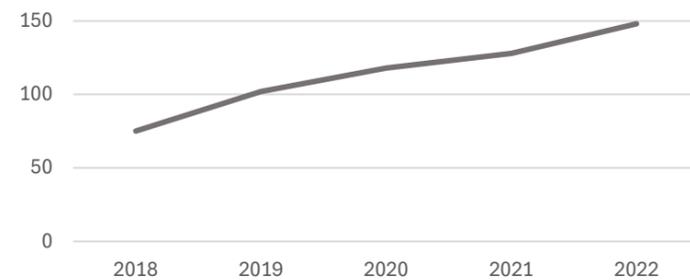
There is a significant growth pattern for research collaborations between RUN institutions and institutions in BCC (Brazil, Chile, Colombia). Research output from these collaborations grew from 133 publications in 2019 to 200 publications in 2022, a 3-year growth rate of **50.4%** compared to **16.4%** for all RUN publications in general. These collaborations are typically of higher quality, with a median field-weighted citation impact (FWCI) of **1.8** compared to **0.8** for the RUN alone.

Research vitality: RUN collaborations with BCC

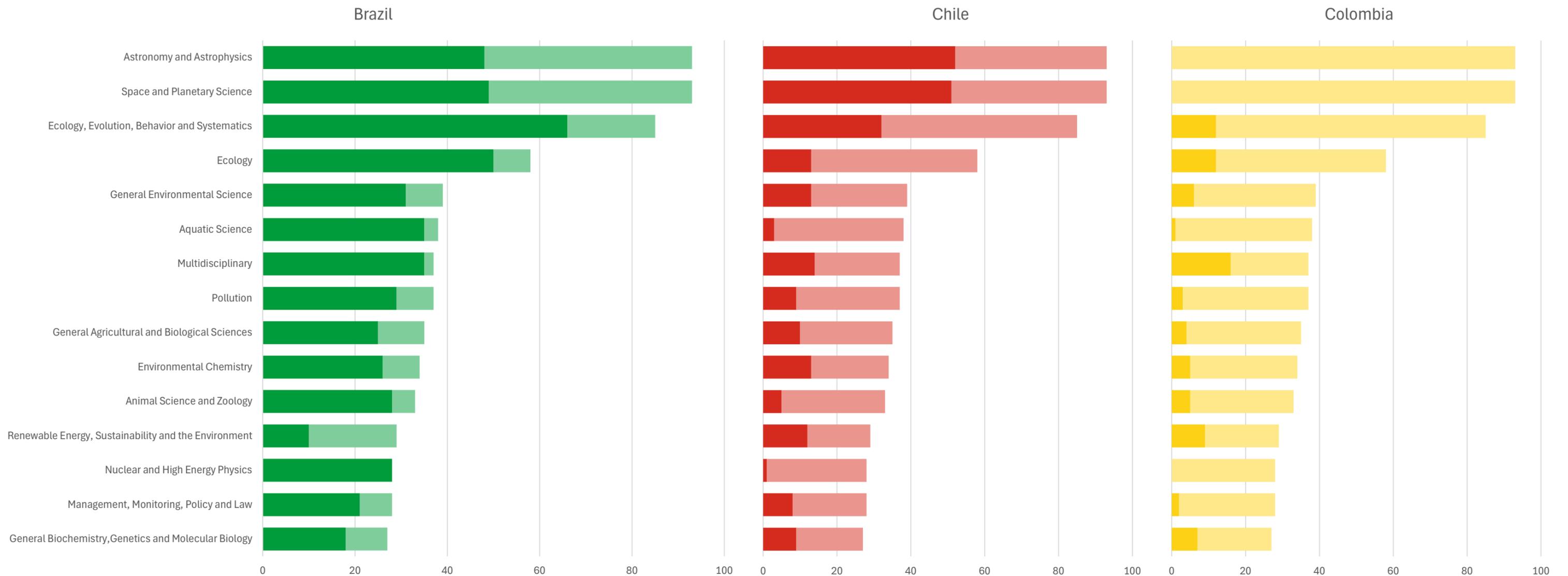
% Total RUN
publication
volume



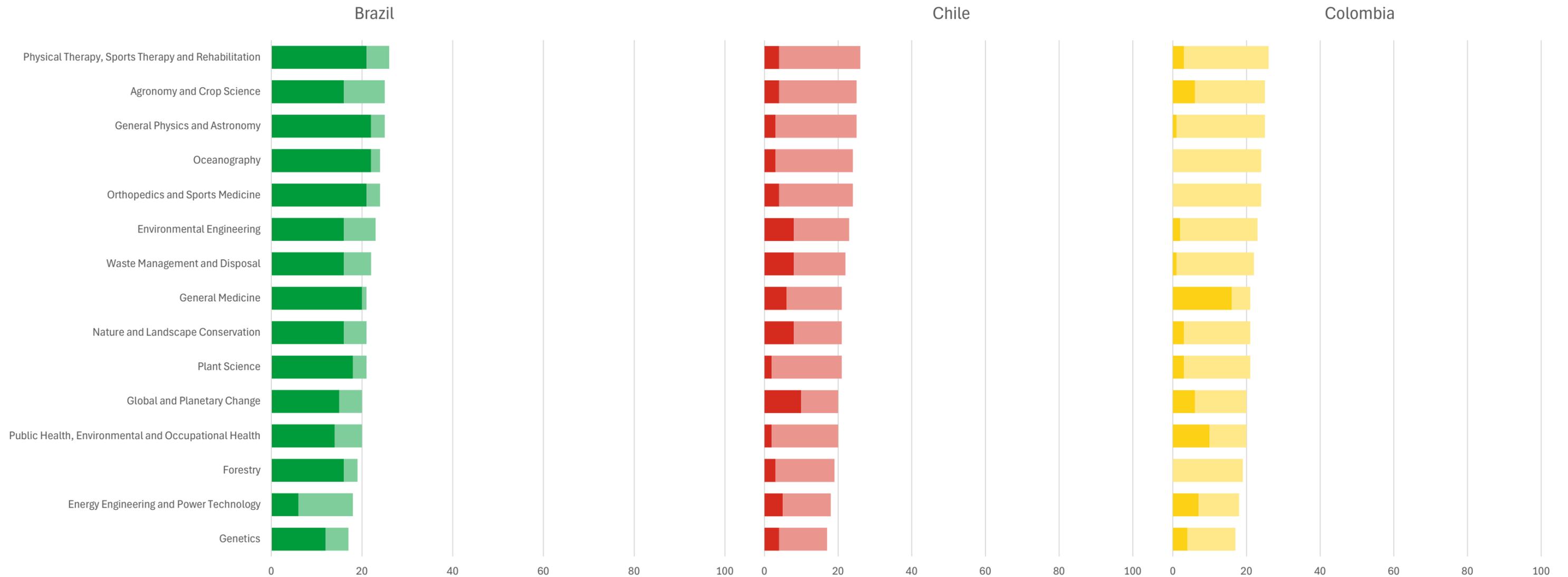
Publication
volume by
country



Publication volume by ASJC field (2018-2022)



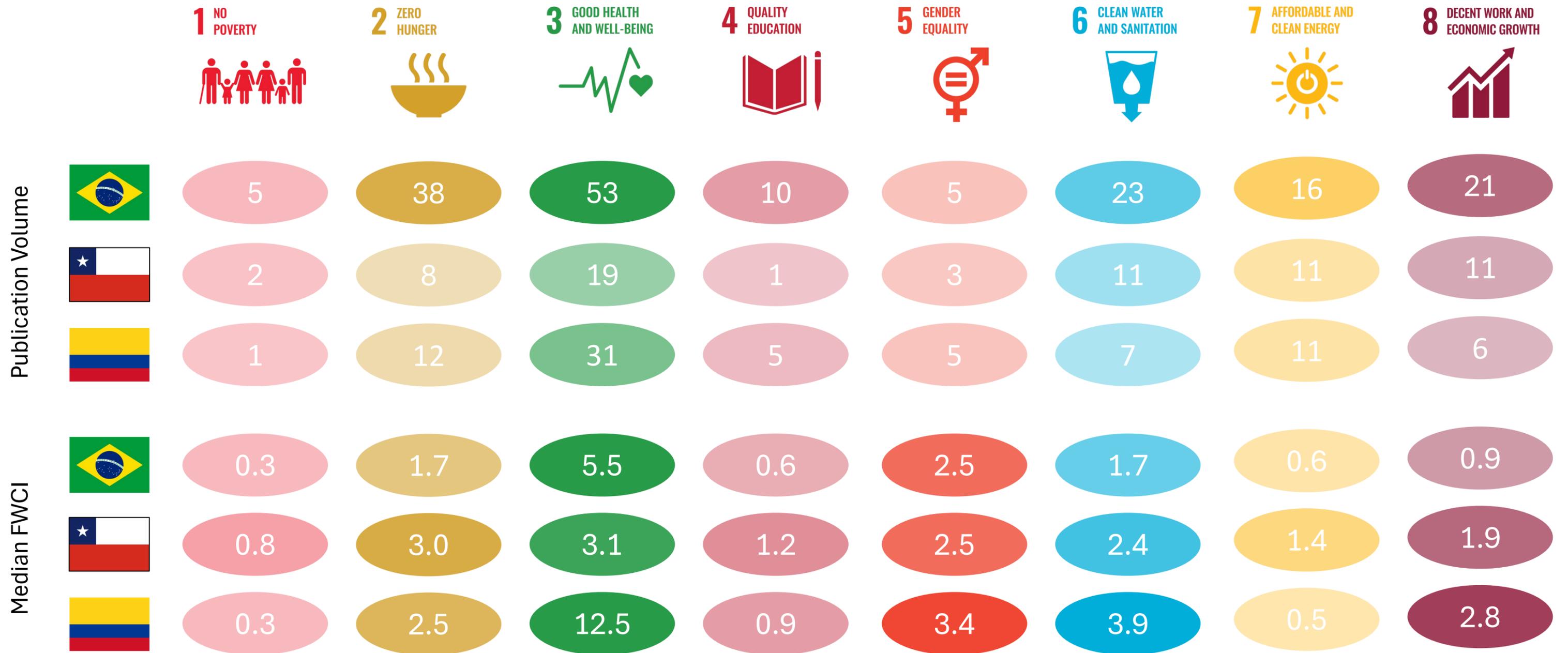
Publication volume by ASJC field (2018-2022)



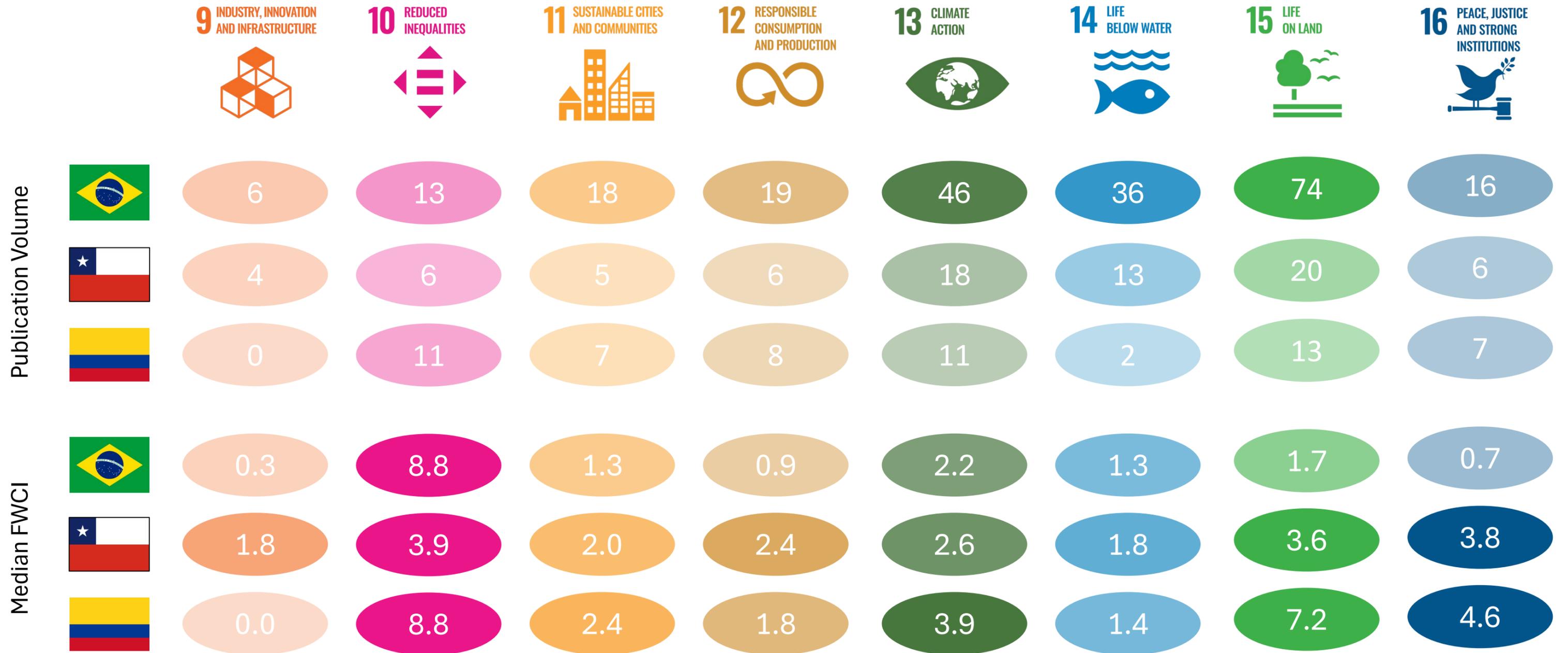
We also see a growing number of joint publications between Chilean and RUN units in fields such as Environmental Engineering, Global and Planetary Change, Waste Management, Nature and Landscape Conservation, Energy Engineering and Power Technology and Genetics

RUN output by country and SDG (2018-2022)

Collaborations between RUN and Chilean Unis In UNSDGs Chile



RUN output by country and SDG (2018-2022)



THE ACCORD

- Australian Universities investing in their own research –unsustainable
- Blueprint to transform HE sector in Australia for the next decade
- Meet Australia’s future skills challenges
- Equity lens Improving regional higher education
- Commitment to building a stronger research system
- Accelerate translation and commercialisation
- More university industry collab –especially in HDR
- Recommended more funding and funding the full cost of research
- Increased opportunities for early career researchers –fellowships
- First Nations self-determination

DRAFT NATIONAL RESEARCH PRIORITIES

- Australia will **reduce emissions** at scale by developing emissions reduction and removal technologies that support restoring our environments (*Support our pathway to net zero*).
- Australia will understand likely **future conditions and risks for our climate and environment** and draw on complementary knowledge systems to address and mitigate climate change impacts (*Understand and sustain our environment*).
- Australia will **protect habitats and biodiversity** by applying, maintaining, and sustaining Indigenous knowledge and knowledge systems to improve environmental stewardship (*Protect and restore biodiversity*).
- Australia will **protect and restore marine, freshwater, and terrestrial habitats, and their biodiversity** by managing them sustainably as holistic systems (*Protect and restore biodiversity*).

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION



- CSIRO collaborates in almost all fields of science and link to LA organisations through researcher exchanges, collaboration agreements tech transfer
- CSIRO's largest South American collaborator is Chile with science projects focusing on industries in mining, minerals, aquaculture, and water management.
- Bi-lateral arrangements with LA institutions
- Renewable energy, Advancing the Circular Economy, Plastics and Sustainability,
- Next Generation Graduates Program and Academy of Science graduate and internship programs



Bee project uses micro-sensing technology to track bees away from their hives to analyze the effects of pesticides, pollution, climate change, mining operations on the movement of bees and their ability to pollinate –collab between CSIRO, Vale Institute of Technology and Uni of Tasmania



Australian Research Council



- International organisations can collaborate on all grant schemes operated by ARC -Around 60 per cent of ARC funded projects have an international collaboration component
- **Linkage Program**—University/Industry partnerships focus on challenges or opportunities of relevance to research end-users –Linkages, Industrial Transformation Hubs, COEs (and Co-operative Research Centres
- **Discovery Projects** “Blue Sky Research” projects - Discovery Program funds excellent, internationally competitive research undertaken by individuals and teams –international postdoc and mid-career fellowships
- **Early Career and Future Fellowships** (mid-career)



Prof Brad Eyre from SCU whose recent ARC DP22 funded project on Dryland Flooding partners with NASA and CSIRO



STATE FUNDING

- Australian states develop their own implementation strategies, designing projects, fostering collaboration between institutions and researchers, as well as seeking international partners.
- State agencies develop their own funding opportunities to strengthen collab between unis and industry and often engage international collaborators to foster diplomatic ties and trade
- A number of state-based schemes around decarbonisation, renewable energy, clean tech, climate and energy action – maybe potential sources of collaborative funding
- Victorian government bi-lateral agreement with Latin America– two rounds of bi-lateral funding for uni led projects. Collaborations have developed between Latrobe, Deakin, Swinburne–domestic violence, low-cost sensors for water quality, water management



