



How is the Australasian region's Research Sector supporting the United Nations Sustainability Development Goals

Anthony Dona

Liz Smee

The Sustainability Development Goals



The SDGs:

- Were adopted in 2015 by the UN
- Provide a blueprint for solving some of the world's most pressing issues.
- Consist of 17 broad goals and a total of 169 measurable targets

The SDGs Report 2022 – United Nations

1 NO POVERTY END POVERTY IN ALL ITS FORMS EVERYWHERE

MORE THAN
4 YEARS OF PROGRESS
— AGAINST POVERTY —
HAS BEEN ERASED
BY COVID-19

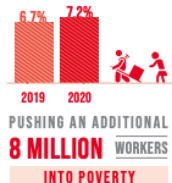


RIISING INFLATION AND IMPACTS OF WAR
IN UKRAINE **FURTHER DERAIL PROGRESS**

NUMBER OF PEOPLE LIVING IN EXTREME POVERTY IN 2022



WORKING POVERTY
RATE ROSE FOR THE FIRST
TIME IN TWO DECADES



UNEMPLOYMENT
CASH BENEFITS
DURING THE PANDEMIC (2020)



DISASTER-RELATED DEATHS **ROSE SIXFOLD** IN 2020

LARGELY AS A RESULT OF THE PANDEMIC



6 CLEAN WATER AND SANITATION
ENSURE AVAILABILITY AND SUSTAINABLE
MANAGEMENT OF WATER AND SANITATION FOR ALL

THE WORLD'S WATER-RELATED
ECOSYSTEMS
ARE BEING DEGRADED AT AN ALARMING RATE

OVER THE PAST 300 YEARS,
OVER 85%
OF THE PLANET'S WETLANDS
HAVE BEEN **LOST**

MEETING **DRINKING WATER, SANITATION AND HYGIENE** TARGETS
BY 2030 REQUIRES A **4X** INCREASE IN THE PACE OF PROGRESS



FOR AT LEAST
3 BILLION PEOPLE,
THE QUALITY OF THE WATER
THEY DEPEND ON IS
UNKNOWN DUE TO A LACK
OF MONITORING

733+ MILLION PEOPLE



ONLY ONE QUARTER

OF REPORTING COUNTRIES
HAVE >90% OF THEIR
TRANSBOUNDARY WATERS
COVERED BY OPERATIONAL
ARRANGEMENTS (2020)

A report is released each year on the progress towards the goals.

SARS-CoV-2 was a serious set back in the progress on most of the goals.

Has the World, or APAC region's research focus changed in this time?

The SDG Wedding Cake



2021 focus for the Australasian Region

SDG Tier	No. Publications ▲
ECONOMY	17,349
ENVIRONMENT	64,463
SOCIETY	264,015

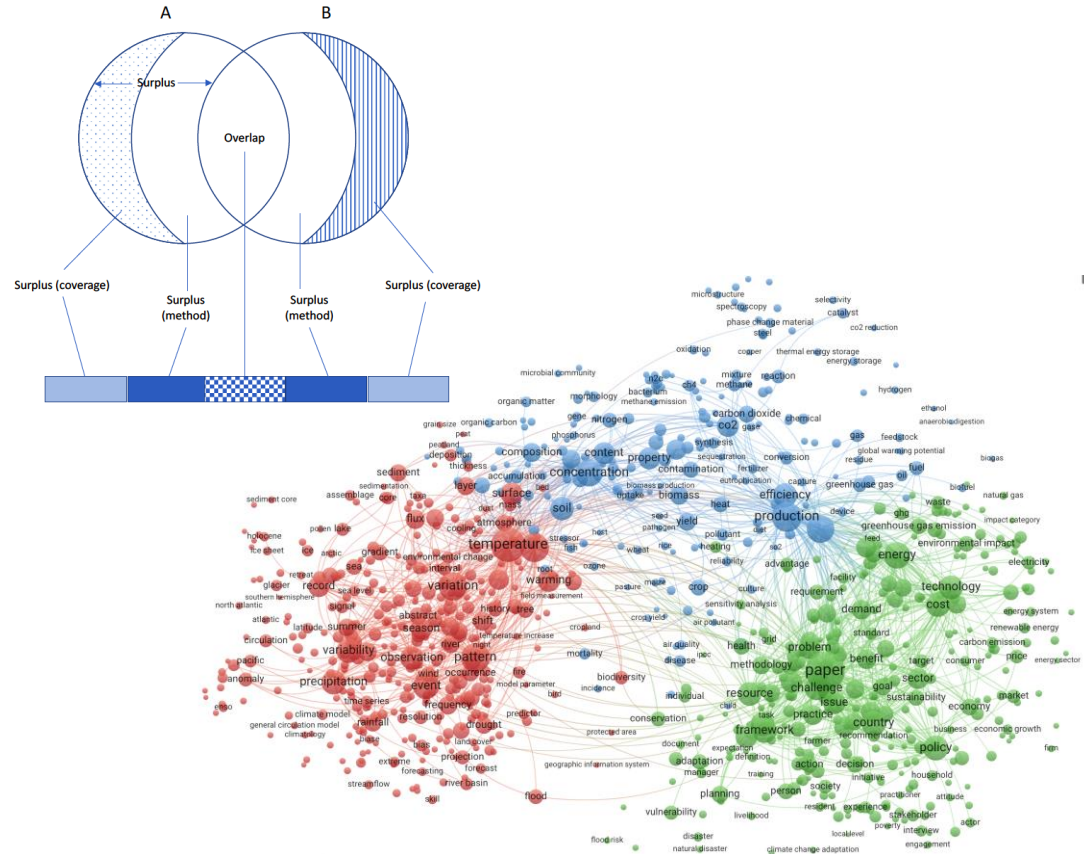
At a similar time the SDG wedding cake was conceptualised.

The wedding cake shows the biosphere as the foundation of society and the economy.

Does our regions research effort reflect this concept?

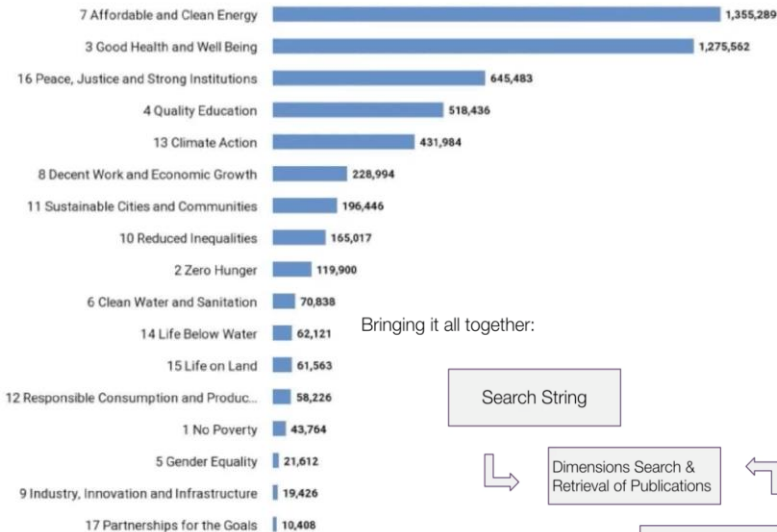
Philip J. Purnell
¹Centre for Science and Technology Studies,
 Leiden University,
 P.O. Box 905, 2300 AX Leiden, The Netherlands
²United Arab Emirates University, Al Ain, UAE
 Tel: +971 50 552 9356
 p.j.purnell@cwts.leidenuniv.nl
 ORCID: 0000-0003-3146-2737

As sustainability becomes an increasing priority throughout global society, academic and research institutions are assessed on their contribution to relevant research publications. This study compares four methods of identifying research publications related to United Nations

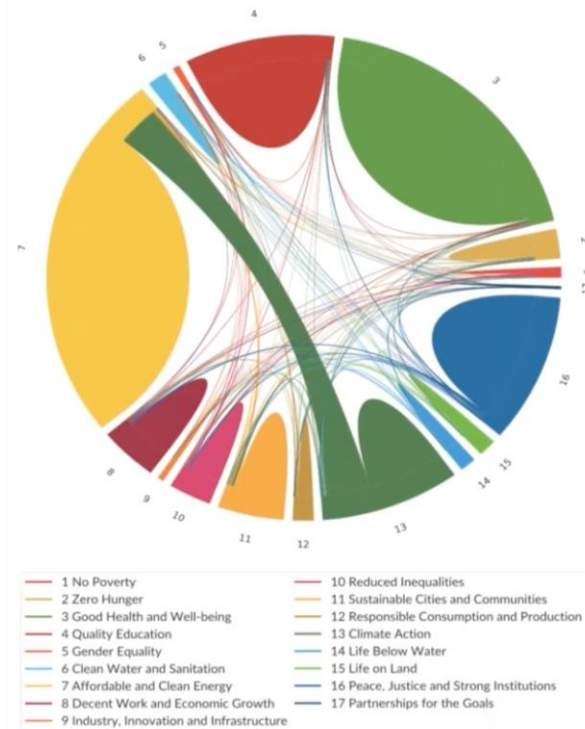
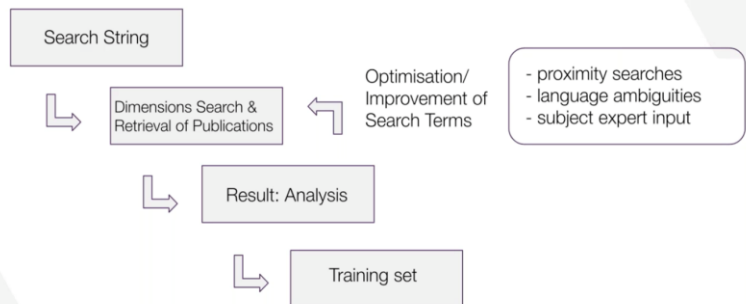


Mapping Publications & Grants to SDGs

number of publications in each research category. (Criteria: see below)



Bringing it all together:

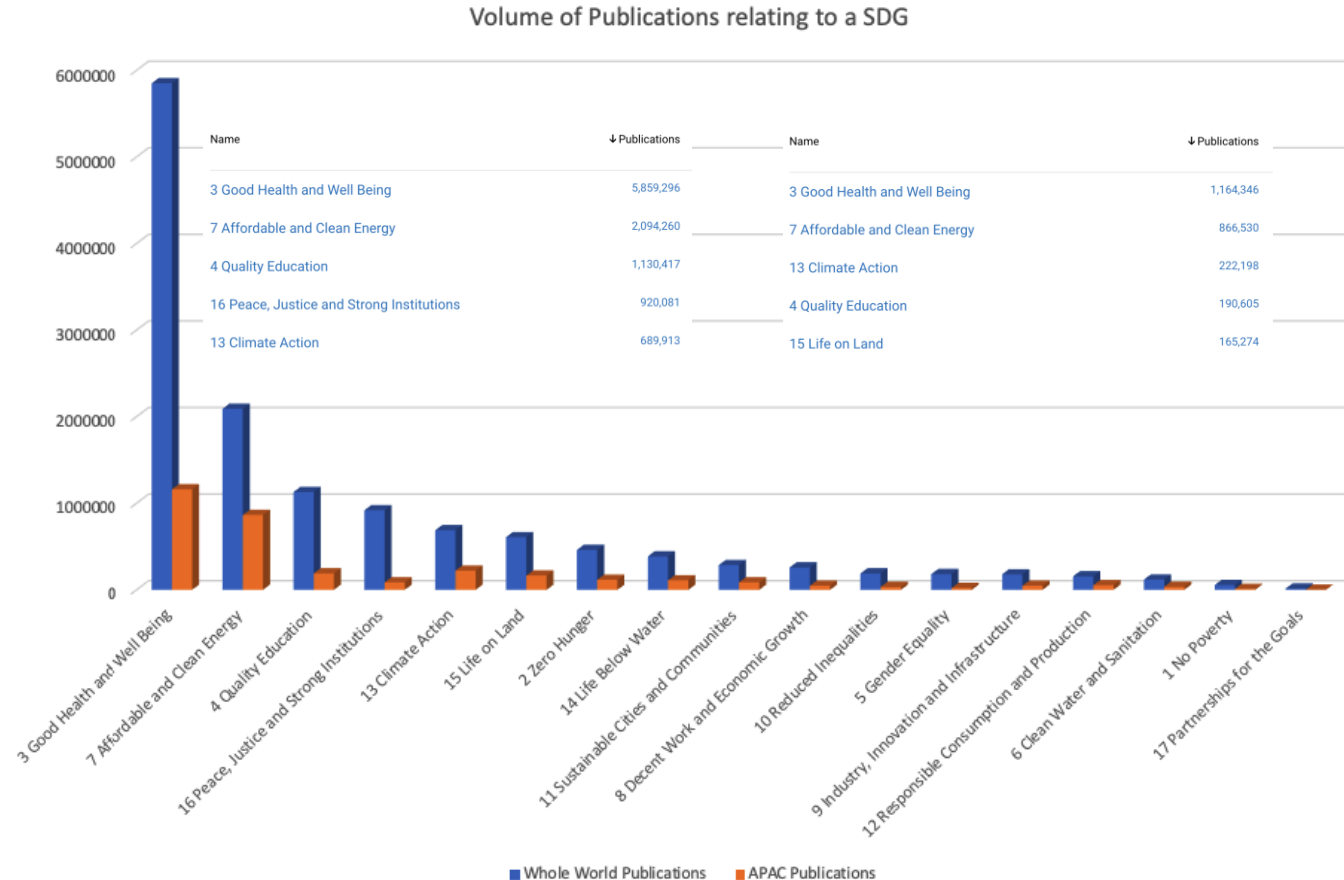


Focus Compared to World

The focus of the worlds publications is skewed across the 17 SDGs

The APAC regions focus looks somewhat similar but has subtle differences.

Despite the skewed focus the top 3 SDGs by volume are different

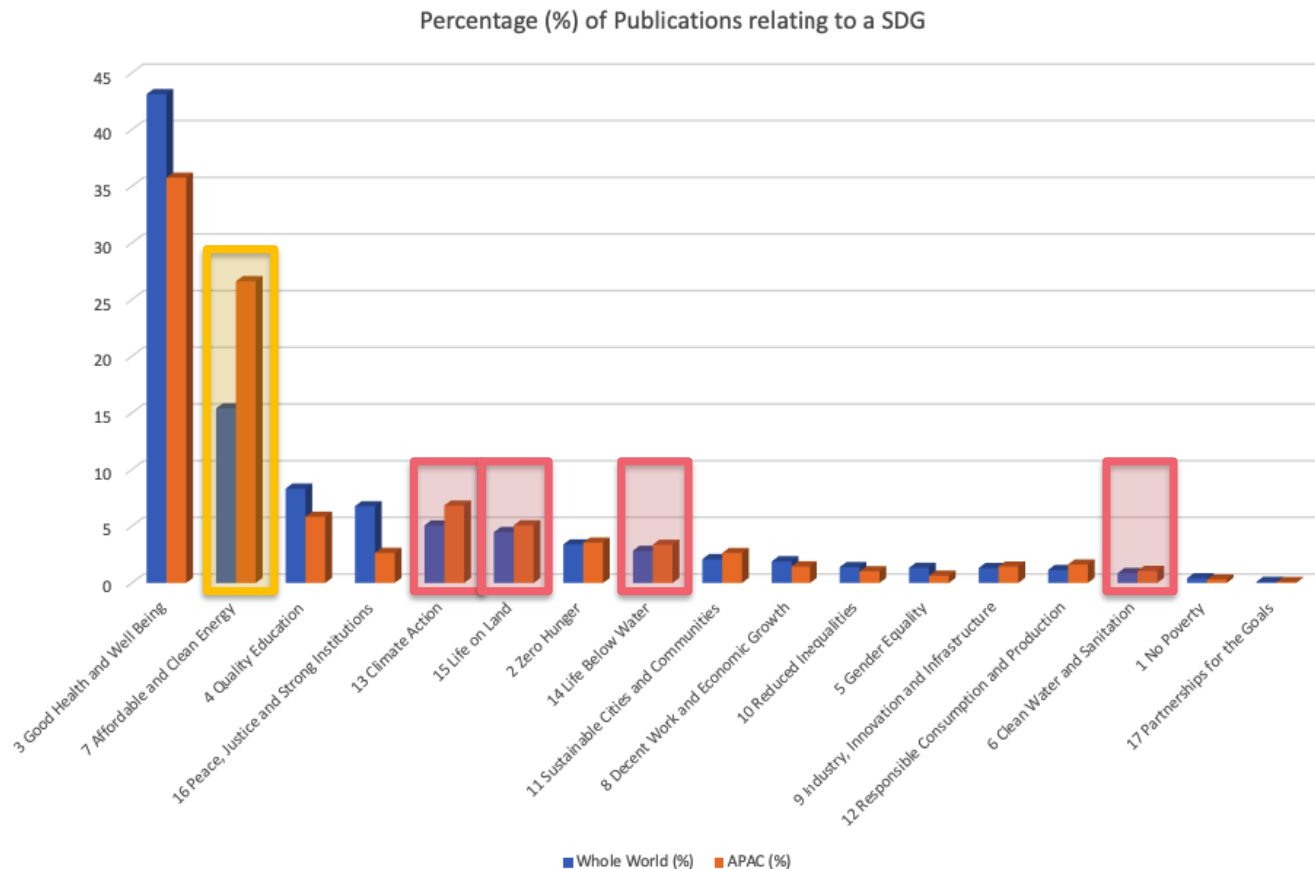


Focus Compared to World

Comparing the % of publications, the differences in focus are further elucidated

The APAC regions focus is more concentrated in the goals relating to the biosphere.

There is also a significant difference in the focus on **Affordable and Clean Energy**

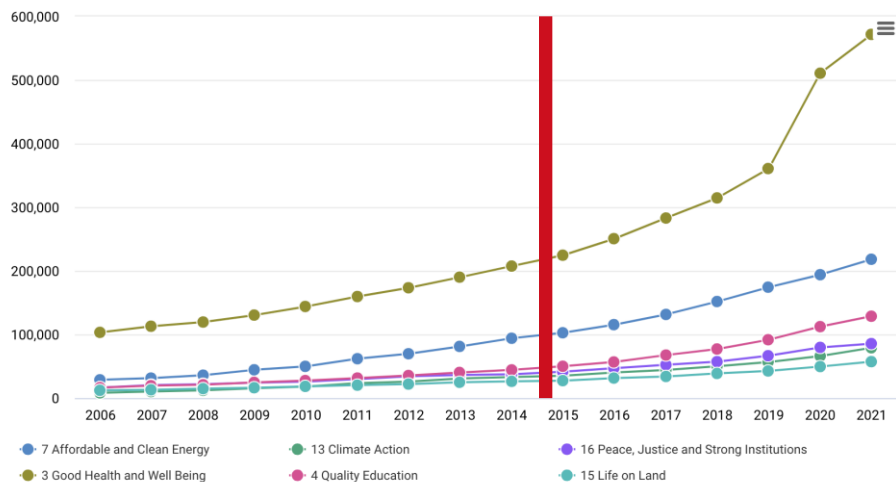


Trends Compared to Rest of World

Whole World

Show years 2006 to 2021 ▾

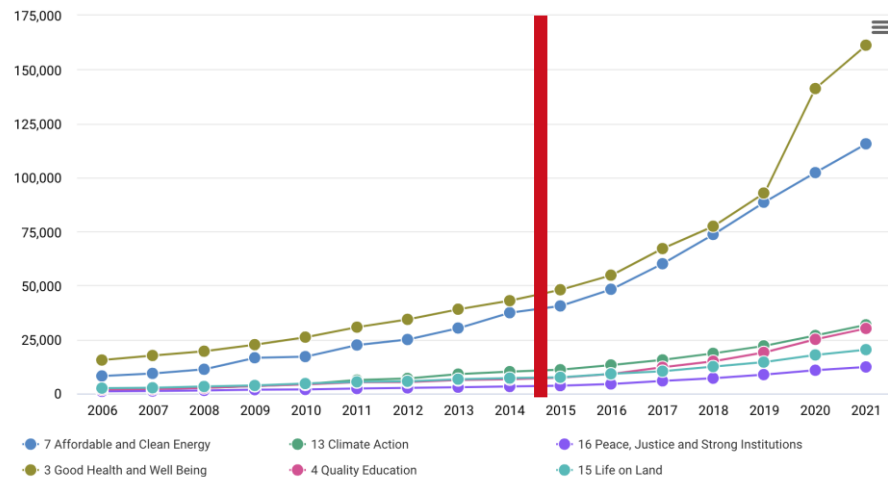
Chart | Table



APAC Region

Show years 2006 to 2021 ▾

Chart | Table



The increase in number (or even %) of publications supporting the SDGs has been increase steadily (even before the goals were introduced).

The significant difference in the focus on **Affordable and Clean Energy** in the APAC region has been around for many years. The last couple of years has seen a jump in **Good Health and Well Being** focus.

The APAC regions focus Dashboard

Now we are just looking at
Publications outputs from:

- Australia
- Indonesia
- Malaysia
- Singapore
- Thailand
- New Zealand
- Fiji

The focus is **Affordable and Clean Energy**



With Low Middle Income Countries

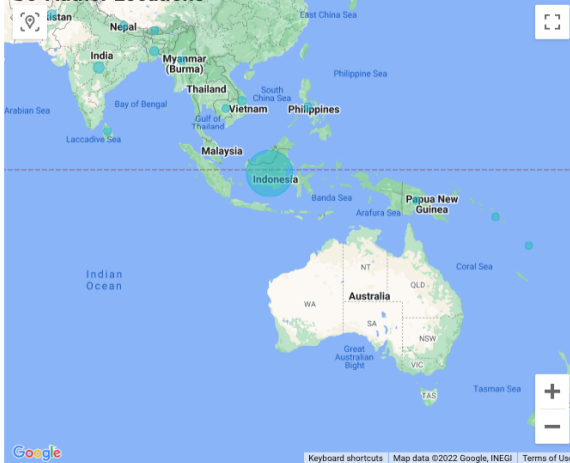
APAC Sustainable Development Goals

Publications 2015 - 2022

Powered by

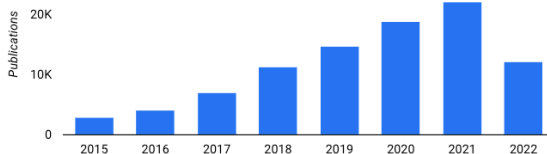


Co-Author Locations



1 • ● 71,290

30K

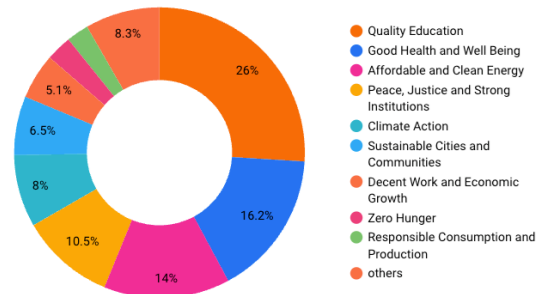


SDG Tier

No. Publications

SOCIETY	173,110
ENVIRONMENT	28,997
ECONOMY	19,283

1 - 3 / 3 < >



When the APAC region collaborates with **Low-Middle Income Nations** (as defined by the World Bank) the focus becomes **Quality Education**

Collaborating with China

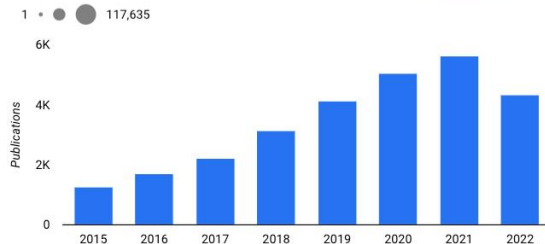
APAC Sustainable Development Goals

Publications 2015 - 2022

Powered by

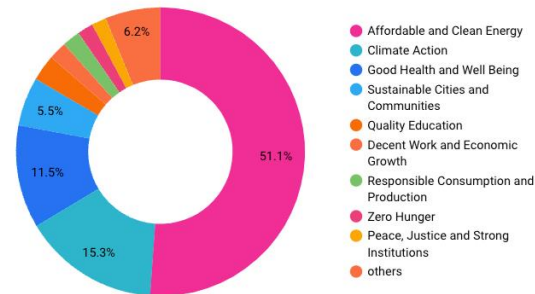


Co-Author Locations



SDG Tier	No. Publications
SOCIETY	56,518
ENVIRONMENT	14,797
ECONOMY	3,899

1 - 3 / 3 < >



When the APAC region collaborates with **China** the focus becomes **Affordable and Clean Energy** and **Climate Action**

Focus on Grant Funding

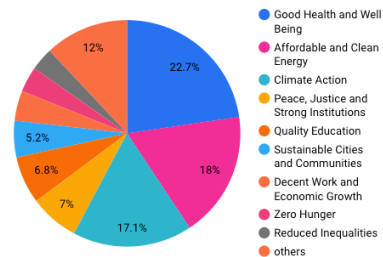
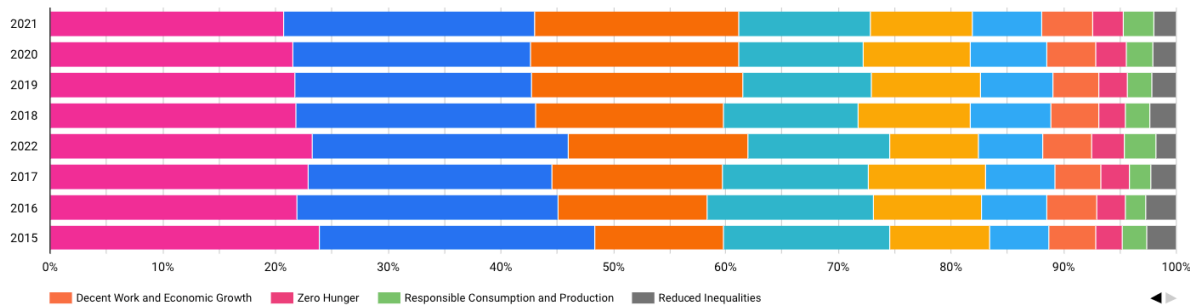
APAC Sustainable Development Goals

Grants Awarded 2015-2022

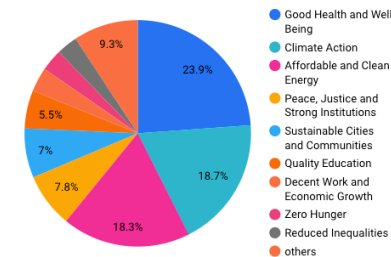
Powered by
Dimensions

Mapping **Awarded Grant Data** to the SDGs shows little change in funding focus despite a pandemic and varying levels of improvement across the goals

Percentage of Yearly Publications by SDG for the APAC Region



Grants Beginning 2015



Grants Beginning 2021/2022

Introduction to Dimensions and Google Big Query (GBQ)

TUESDAY, SEPTEMBER 20TH 1:00 PM – 2:00 PM AEST

Do you want to learn how Dimensions on Google BigQuery can benefit your organization? Join our webinar to find out more about accessing Dimensions on Google BigQuery.

Google Big Query is Google's cloud-based platform, enabling you to deliver custom analytics, AI applications, automated reports, and dashboards with Dimensions.

Discover today how you can perform advanced analytics at incredible speed, merge data with confidence and create custom dashboards and analyses with complete flexibility. We'll also look at the Asia-Pacific region research sector and how they are supporting the UN Sustainability goals via Dimensions GBQ.

Register now!

<https://www.dimensions.ai/webinars/introduction-to-dimensions-and-google-big-query-apac/>

The background of the slide is a close-up photograph of a dandelion seed head. A magnifying glass is held over the seed head, focusing on a single seed. The background is a soft, out-of-focus green and blue bokeh.

Thank You.

■ **Anthony Dona PhD**

Senior Director

a.dona@digital-science.com

■ **Liz Smeë MSc**

Product Solution Specialist

l.smeë@digital-science.com