



Strengthening the nexus of science, policy  
and diplomacy to advance the SDGs

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The International Network for Government Science Advice

# Sustainable Development Goals

- 17 goals, 169 targets
- A mix of very broad and aspirational goals in contrast to the specifics of the MDGs
- The MDGs were developed by an expert group, the SDGs were developed by an inclusive process
- They apply to all governments in contrast to the MDGs
- but the way they are interpreted and reported is voluntary
- The SDGs encompass virtually everything every society wants to accomplish
- Despite their flaws they frame the global agenda for another decade
- And in many ways all require access to the knowledge disciplines for progress



# International Science Council



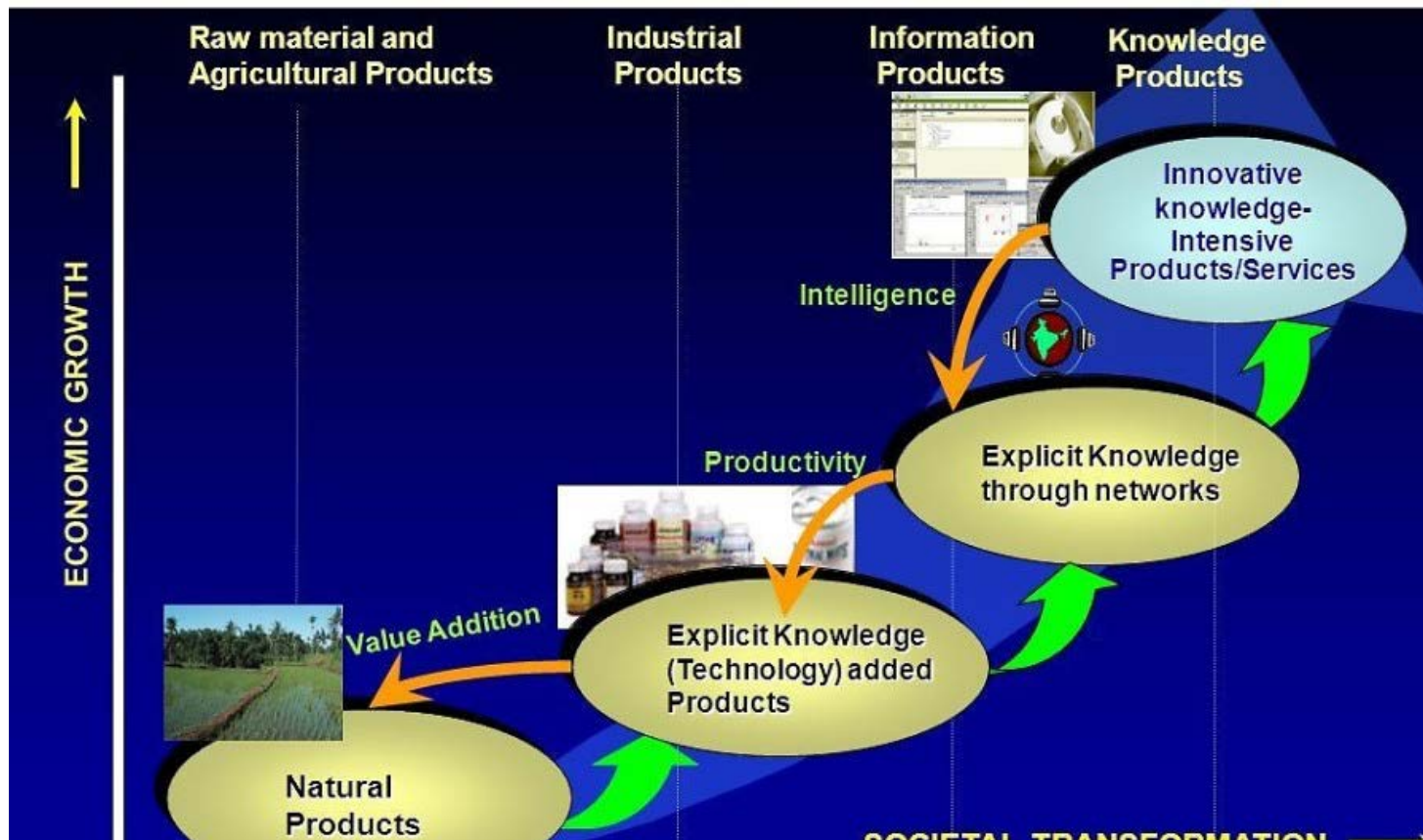
**International  
Science Council**  
The global voice for science



We have always lived in experimental societies



## EVOLUTION OF SOCIETIES





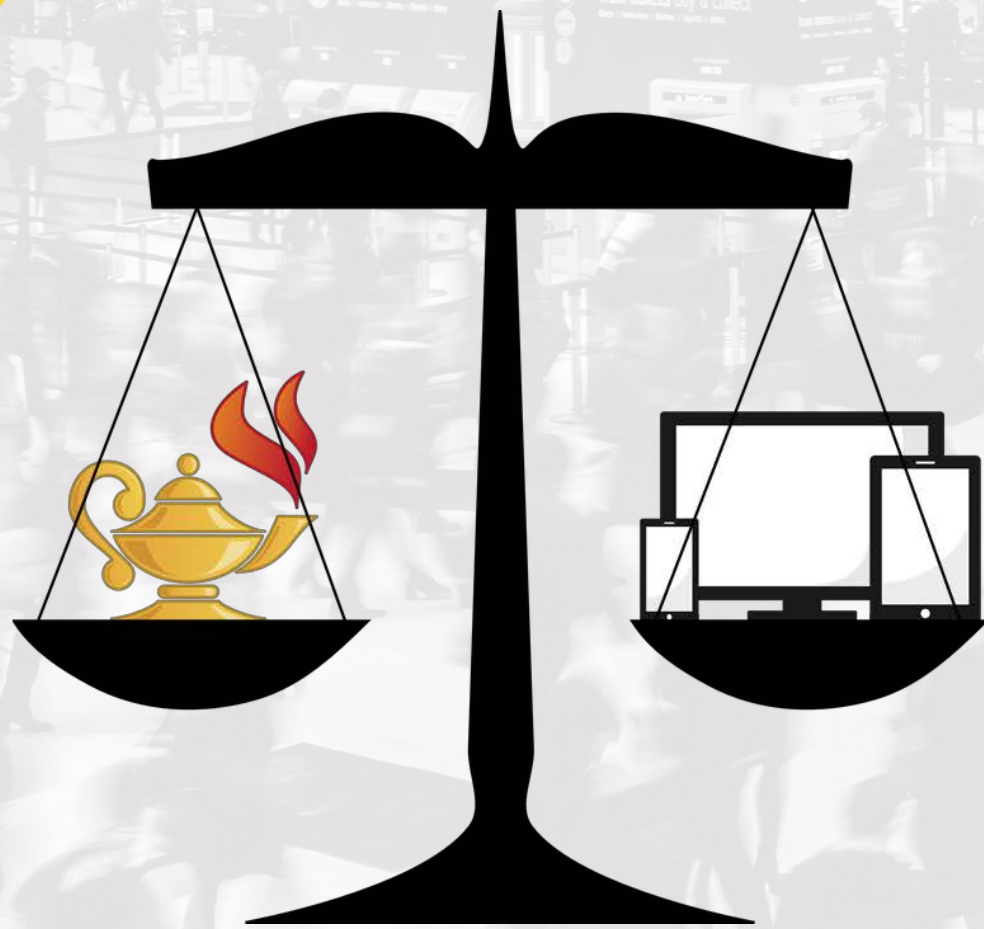
Find it here:

[www.ingsa.org](http://www.ingsa.org) > Resources >  
reports > understanding wellbeing

## Understanding wellbeing in the context of rapid digital and associated transformations

Implications for research, policy and  
measurement

**Sir Peter Gluckman Kristiann Allen**  
AUGUST 2018





# What is evidence?

- Scientific processes aim to obtain relatively objective understandings of the natural and built world.
- How the question is framed will affect the evidence produced and what is considered 'sufficient' evidence
- Co-development of knowledge is increasingly important.

# The post-trust, post-elite & post-truth context



#MINERMOJO

“  
YESTERDAY'S  
TRUST  
HAS BECOME TODAY'S  
SKEPTICISM

*Jeremy Miner*

**M**  
jeremyminer

## Post-truth

"relating to or denoting circumstances in which objective facts are less influential in shaping public opinion than appeals to emotion and personal belief."





# Science & the SDGs

- Application of current knowledge and technology
- What new knowledge, data and technology is needed
- Better use of science in applying the SDGs to enhance policy
- Science Diplomacy



# Science for the SDGs



**REVIEW OF TARGETS FOR THE SUSTAINABLE DEVELOPMENT GOALS: THE SCIENCE PERSPECTIVE**

ICSU  
International Council for Science

ISSG  
International Science Strategy Group



# Science for the SDGs



GLOBAL RESEARCH ALLIANCE  
ON AGRICULTURAL GREENHOUSE GASES

## Global Research Alliance on agricultural greenhouse gases

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### ABOUT US

The Global Research Alliance on Agricultural Greenhouse Gases brings countries together to find ways to grow more food without growing greenhouse gas emissions. It was launched in December 2009.

Awards

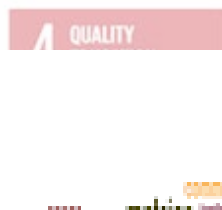
Contact us

On this page you can find more information about the Alliance and why the Alliance is needed.  
[Read the brochure.](#)

The Global Research Alliance on Agricultural Greenhouse Gases was launched in December 2009 and now has 49 member countries from all regions of the world. For more information on the membership, please see the Community pages.

The Alliance is focused on research, development and extension of technologies and practices that will help deliver ways to grow more food (and more climate-resilient food systems) without growing greenhouse gas emissions.

# Science & the SDGs



data

SCIENCE

education science research scientists support environment university research metrics methodology reproducibility tools students faculty projects space education project bridge science research activity fellows activities professor program institute



# SDGs & the need for science license



- » Biotech
- » Digital tech
- » Nanotech
- » Neuro tech
- » Green tech
- » 'other' (geo-eng / extraction)

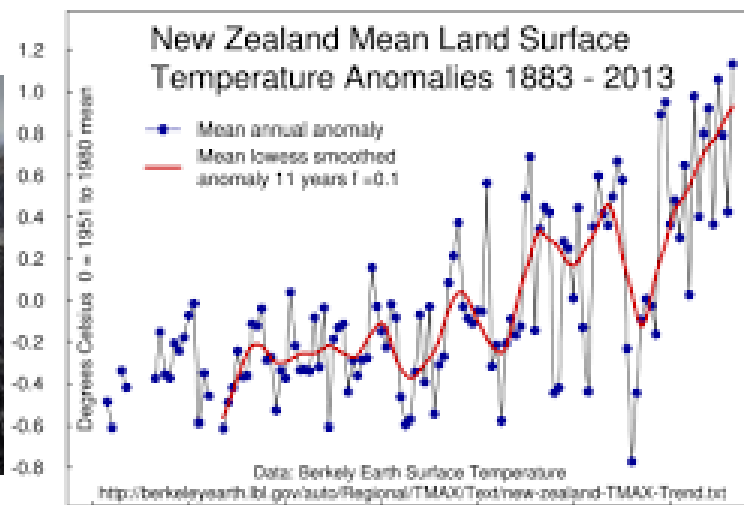
# Office of the Prime Minister's Chief Science Advisor NZ



## Mitigating agricultural greenhouse gas emissions: Strategies for meeting New Zealand's goals



July 2018





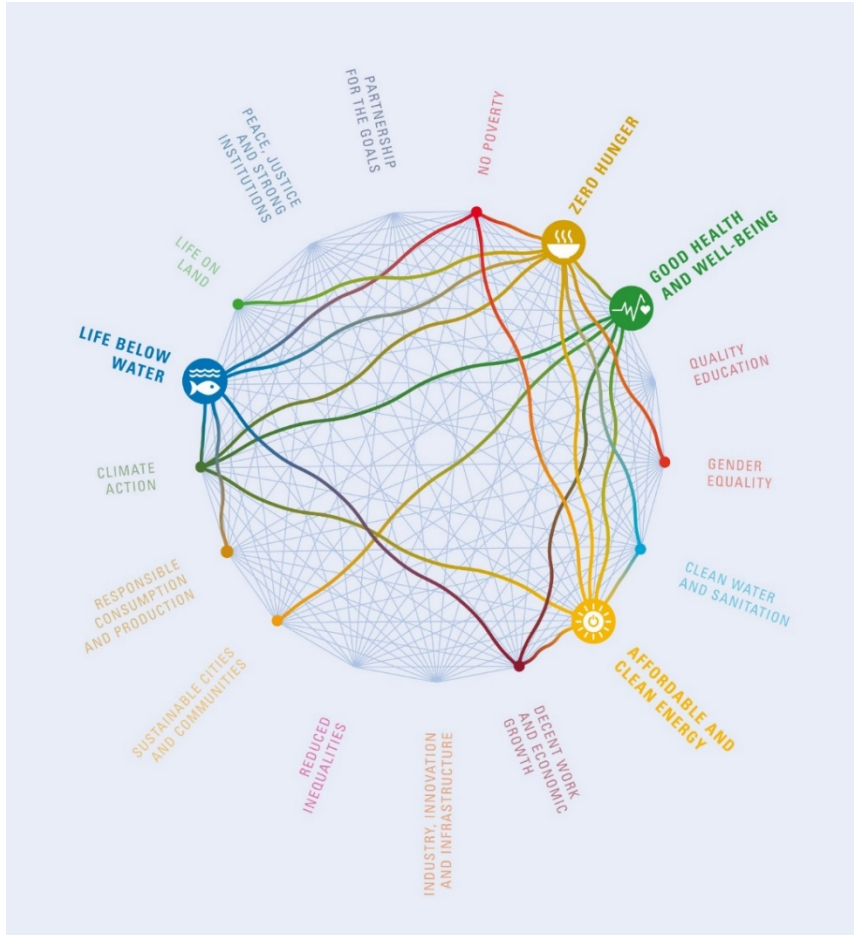
# There is a need to link science to the SDGs



## - Through impact on policy

- Policies and institutional structures exist; can't just map SDGs on top
- Reframe the SDGs in a holistic, manageable way
- Countries have the opportunity to work from manageable, but also to customize according to context and domestic priorities
- Link to bottom up pressures

# Can interactions be a key driver for implementation?



- Making the challenges of integration visible
- Some goals and targets have conflictual relationships; progress in one area may come at the expense of progress in others.
- Understanding potential synergies and trade-offs is critical for efficient and coherent implementation and monitoring
- Develop an holistic approach to drive system change



# Different Roles in a Science Advisory Ecosystem



	Knowledge generators	Knowledge synthesizers	Knowledge brokers
Individual academics	+++	++	
Academic societies/professional bodies		+	
Government employed practicing scientists	+++	+	
Scientist within regulatory agency		++	++
Independent think tanks		++	
What works units etc		+++	+
National academies		+++	+
Government advisory boards/science councils		++	+
Science advisors to executive of government		+	+++
Science advice to legislators		+	++





# Science Diplomacy: a broader and more utilitarian taxonomy



- Direct national interest
- Common interest
- Global interest

P.D. Gluckman, V. Turekian, R.W. Grimes, and T. Kishi, "Science Diplomacy: A Pragmatic Perspective from the Inside," *Science & Diplomacy*, Vol. 6, No. 4 (December 2017). <http://www.sciencediplomacy.org/article/2018/pragmatic-perspective>



# The International Network for Government Science Advice



- Over 4000 members from over 80 countries and growing
- Regional chapters
- Science diplomacy division
- Knowledge centre
- Forum for sharing, coordinating, networking
- Capacity building activities
- Open access learning resources
- Reports and research

[www.ingsa.org](http://www.ingsa.org)



# Thank you

