

Harnessing the world's academies to achieve sustainable development

Potential NASEM - InterAcademy Partnership joint studies

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Roundtable on S&T for Sustainability
The National Academies of Sciences,
Engineering and Medicine
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IAP co-chairs (left to right): Depei Liu (China), **Peggy Hamburg (USA)**, Krishan Lal (India), **Cherry Murray (USA)**, Richard Catlow (UK), and Daya Reddy (South Africa)

The InterAcademy Partnership (IAP)

- IAP is a global network of **over 140 academies of science, engineering and medicine**
 - **> 30,000** of the world's leading scientists, engineers and medical experts
 - **Four regional networks** (Asia, Americas, Europe, Africa)
 - Includes the **Global Young Academy**
- **Vision:** for the world's academies to play a vital role in **ensuring that science serves society inclusively and equitably** and underpins **global sustainable development**



GLOBAL
YOUNG
ACADEMY

The Global Young Academy (GYA)



- A worldwide network of **200 early-career scientists** and 216 alumni from **83 countries**
- Competitively-selected for five-year terms based on **scholarly excellence** and demonstrated **service to society**

Mission

- **Empower** outstanding early-career researchers to lead international, interdisciplinary and intergenerational dialogue
- Develop, connect and mobilise **young talent from six continents**
- Promote reason and **inclusiveness in global decision-making**

Three Strategic Priorities:

1. **Build the capacity of, and empower,** regional networks of academies and their national members;
2. **Provide independent, authoritative advice** on global, regional and national issues; and
3. **Communicate** the importance of science, engineering and medicine in terms of research, education, literacy, public discourse, and outreach

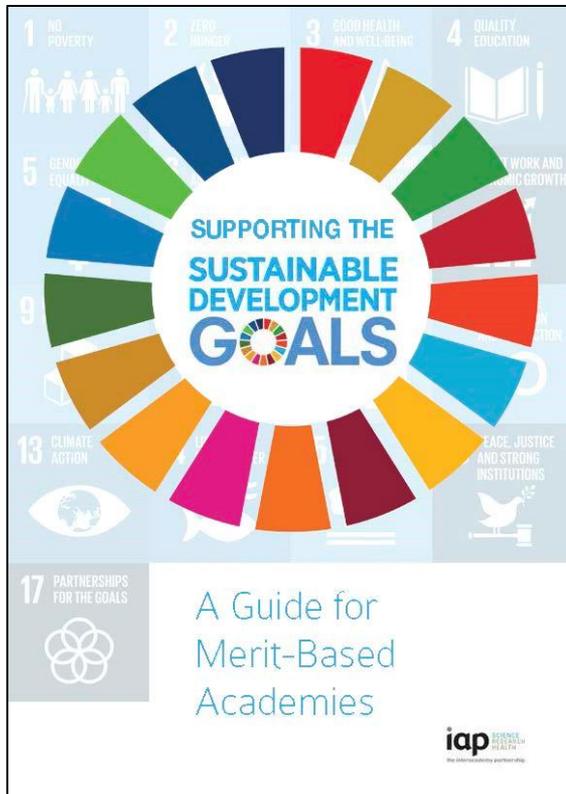
Selected recent sustainability-related outputs (1)

Agricultural innovation **Food system efficiency** **Nutrition, public health** **Competition for land environment** **FNSA & FNSA**

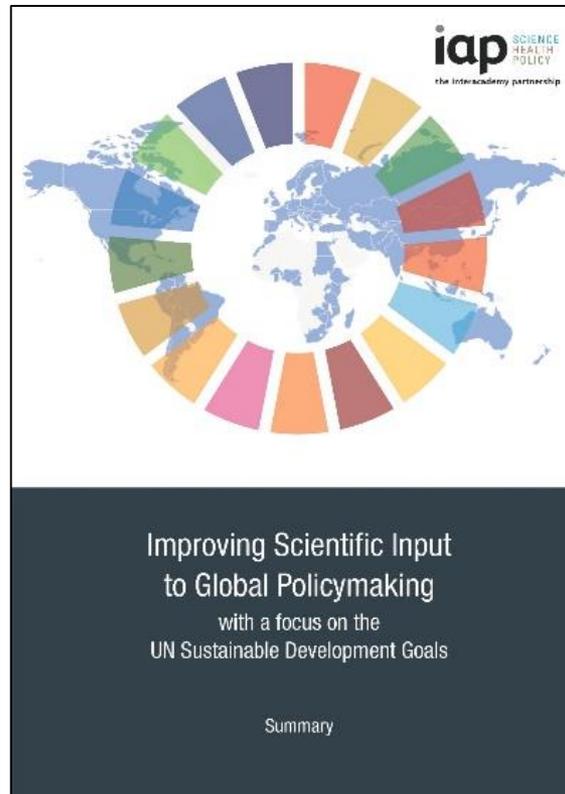


An integrated approach to Food and Nutrition Security and Agriculture (FNSA)

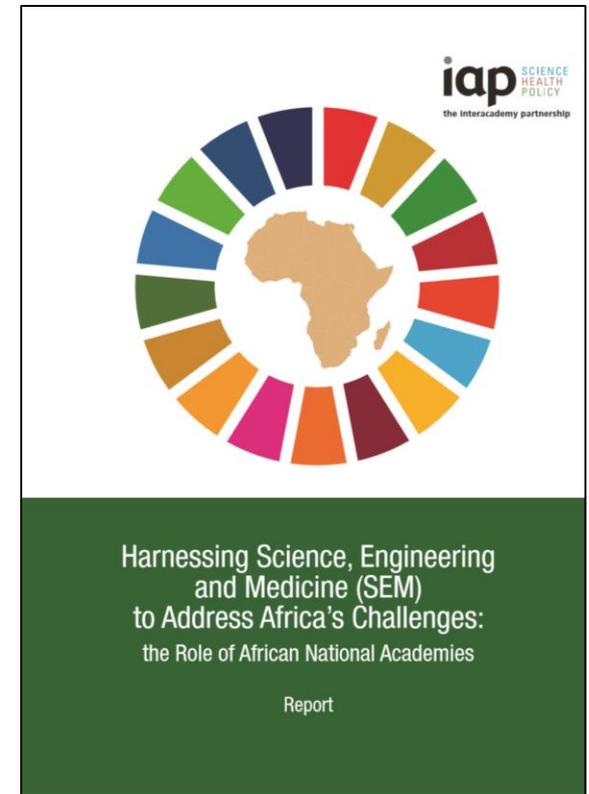
Selected recent sustainability-related outputs (2)



December 2018



May 2019



July 2019

Developing new projects

- 1. Cities; with a possible focus on the circular economy**
- 2. STI for the SDGs roadmapping**
- 3. Other follow-up initiatives also under consideration**

Cities and the circular economy

How can existing cities be retrofitted and new cities designed to fuel the circular economy?

- Envisioned as a three-year project involving all four IAP regional networks
- Approach: Regional networks together with city managers, planners, etc. develop set of key questions for four pilot cities, drawing on SDG indicators and targets
- Local, regional and global recommendations

Development Leads:

Cherry Murray, IAP co-chair

Anthony Clayton, IANAS Energy portfolio



STI for the SDGs roadmapping

Goals

- Ensure STI is embedded into/supports national development plans and is linked to local SDG implementation
- Advise local and national governments on how to minimize the risks and maximize the benefits of implementing the SDGs
- Build capacity and status of academies in developing countries

Approach

- Groupings of HIC and LMIC academies and policymakers produce evidence-based, time-bound policy plans



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