Harnessing the world’s academies to achieve sustainable development

Potential NASEM - InterAcademy Partnership joint studies

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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
The Global Young Academy (GYA)

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**

• 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**
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)

An integrated approach to Food and Nutrition Security and Agriculture (FNSA)
Selected recent sustainability-related outputs (2)

- **December 2018**: A Guide for Merit-Based Academies
- **May 2019**: Improving Scientific Input to Global Policymaking with a focus on the UN Sustainable Development Goals
- **July 2019**: Harnessing Science, Engineering and Medicine (SEM) to Address Africa’s Challenges: the Role of African National Academies Report
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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