



IAP's Strategic Plan:  
An inter-academy roadmap to 2030?

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## The InterAcademy Partnership (IAP) Vision and Mission

**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.

**Mission**

To convene and empower the world's academies of science, engineering and medicine to work collaboratively to address issues of global, regional, and national importance.



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## IAP's Unique Strengths

- **Global technical expertise**
  - 138 member academies in sciences, health, engineering
  - 4 regional networks: Asia (AASSA), Africa (NASAC), Europe (EASAC), Americas (IANAS)
  - **>30,000** of world's most respected scientific, medical and engineering leaders in
  - **> 100 countries** around the world
- IAP plays a vital role in **strengthening academy capacity**
- **Independence and credibility:** merit-based
- **Policy relevance:** Members enable a unique **national- and regional-reach**
- **Amplification:** IAP provides a platform for academies to **reinforce and strengthen** their evidence-based statements, reports, and policy recommendations

## IAP Food and Nutrition Security and Agriculture (FNSA) Project



- 10 overarching questions developed
- Series of working group meetings coordinated by AASSA (Asia), EASAC (Europe), IANAS (Americas), and NASAC (Africa) IAP regional networks
- Produced four region-specific reports identifying 'hot spots' and critical issues, culminating in a global synthesis report



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## Lessons learned: the FNSA model

- Integrated approach, intersecting with **13 SDGs (1-3, 6-7, 9-15, 17)**
- Interregional cooperation is **synergistic**, adds **policy value**
- Provides recommendations for implementation at **global, regional and national levels**, customised for local circumstances and strategic needs
  - Climate-smart food systems
  - Incentives for consumers to change diets
  - Innovative foods
- **Built capacity** of academies and strengthened regional networks



**THE GLOBAL GOALS**  
For Sustainable Development



## Lessons learned: A variation on the FNSA Model

- EASAC report '**Ecosystem services, agriculture and neonicotinoids**' (2015): high visibility and impact, including at EU level.
- Agricultural practices differ regionally, as do use and impact of neonicotinoids requiring regionally-specific recommendations
- New project focuses on impacts in Africa in a step-by-step regional approach
- **European – African (EASAC-NASAC) collaboration could help magnify regional policy impacts at the EU and AU levels**



## IAP SDGs Project: Improving scientific input to global policymaking

*Carnegie*  
CORPORATION  
OF NEW YORK

- How **academies and scientists** can better inform global policymaking with a focus on the SDGs
- International working group nominated by academies and ISC
- Produced simple **“Guide to the SDGs”** showing entry points/ pathways for academies and final report



Summary final report released at this conference!



## Lessons learned: IAP SDGs project


- Vital to **engage members** in project
- Involvement of the **Global Young Academy** and the **National Young Academies** was key
- Four regional workshops in partnership with AASSA, EASAC, IANAS and NASAC
  - identified **practicable actions** at regional, national, institutional and individual levels
  - helped to build **national academy capacity** to get involved and strengthen regional engagement
- Built new, and strengthened existing, **partnerships** with the UN, ISC, others
- Recommendations informed the **IAP 2019-2022 strategic plan** and the **themes of this conference** (SDGs, role of academies)



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## Engaging with the UN




- Enables IAP and its members' work to inform **global policy**
- Recent examples include:
  - GLOBAL LEVEL**
    - **UN S&T Community Major Group consultation (through ISC)**, feeding directly into the UN High-Level Political Forum
      - E.g., Joint ISC-IAP-WFEO review of 2019 Global Sustainable Development Report (GSDR)
    - Side events/workshops: **UN STI Multistakeholder Forum, Biological and Toxin Weapons Convention, Organization for the Prohibition of Chemical Weapons**
  - REGIONAL LEVEL**
    - **UN Regional Commissions:** UNECE (Europe), UNECA (Africa), UNECLAC (Latin America and the Caribbean), UNESCWA (Western Asia) and UNESCAP (Asia-Pacific) through participation in **annual fora on sustainable development**
  - NATIONAL LEVEL**
    - Through member academy involvement in the **Voluntary National Review** process in their countries

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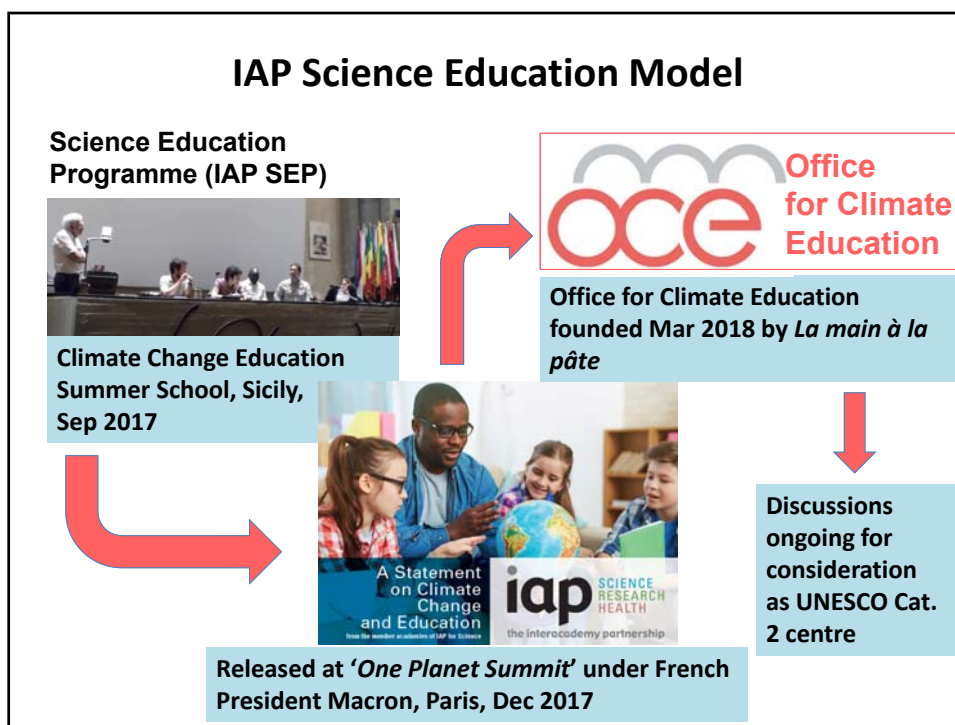


## Lessons Learned: Engaging with the UN



- Requires **sustained effort** to build and maintain relationships and agency engagement
- Engagement should be **built into project design**
- Critical need to **bridge the gap** between knowledge supply and knowledge demand
- The UN seeks **greater input** from the scientific community!  
But there is a recognized need for **better alignment of IAP/academy activities with international policy frameworks and timetables**, e.g., timetable for review of specific SDGs to ensure interventions are most useful
- Promising opportunities for academies to **independently review and assess existing reports** (VNRs, etc.)



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### Lessons learned: IAP Science Education Model

- Multiple SDGs, esp. **4 (Quality Education)**
- Project developed from IAP Science Education Programme Global Council meeting; funded by Smithsonian Science Education Center
- **Inquiry-based science education modules** trialled in different countries
- IAP engaged in review process and translations
- Developing additional modules to respond to other SDGs (e.g. Nutrition, incl. FNSA experts) as part larger vision of **'Smithsonian Science for Global Goals'** series


<https://ssec.si.edu/mosquito>



**THE GLOBAL GOALS**  
For Sustainable Development

Smithsonian | SCIENCE for Global Goals



**MOSQUITO!**  
COMMUNITY RESEARCH GUIDE

HOW CAN WE ENSURE HEALTH FOR ALL FROM MOSQUITO-BORNE DISEASES?

Developed by Smithsonian Science Education Center | in collaboration with IAP

## Four IAP strategic objectives (2019 – 2022)

- 1) **Build the capacity of, and empower, regional networks of academies and their national members**, who represent excellence in science, engineering and medicine in their countries;
- 2) **Empower** academies and regional academy networks to **provide independent, authoritative advice on global, regional and national issues** through synthesis reports, consensus statements, foresight studies, critiquing public policy processes and outputs, and convening key stakeholders;
- 3) **Communicate the importance of science, engineering and medicine** in terms of research, education, literacy, public discourse, and outreach;
- 4) **Build IAP as a progressive and more resilient global academies network**

### Objective 1: Build capacity of regional and national academies

- Support **cooperation and capacity building** of regional networks and national members through grants and professional opportunities;
- **Share academy good practice and guidance**
- Facilitate the inclusion and engagement of scientists, engineers and health professionals **across geographies, ethnicities, genders and generations**
  - Help build the **next generation of science and policy leaders, especially in low and middle income countries**
- Encourage member academies to **serve their respective societies** as relevant, proactive, accessible and visible institutions

## Objective 2: Provide independent, authoritative advice on global, regional and national issues

- Develop **high-quality, timely interventions on issues of regional and global importance** framed around international policy frameworks
  - **Topics include: supporting implementation of the SDGs; science education; agriculture and nutrition security; improvement of global health worldwide; biotechnology and biosecurity; and policy for science** among others
- **Focus policy efforts on organisations and processes with influential policy mandates**
- Encourage academies to **apply and leverage IAP outputs** in their national contexts



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## Objective 3: Communicate the importance of science, engineering and medicine in research, education and literacy

- Promote high-quality, responsible, open, **transparent and inclusive research**
- **Communicate and disseminate** academy outputs in innovative, accessible ways
- **Foster the next generation** of research and science policy leaders
- Promote **science education** to improve the teaching and learning experience in national and local education systems
- Support efforts in **science diplomacy**
- Promote **public engagement in** and appreciation of science, medicine and engineering



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#### Objective 4: Build IAP as a progressive and more resilient global academies network

- Ensure inclusion of **at least one early-career scholar** in all IAP activities
- Prioritize **diversity** considerations within IAP leadership, its working groups/committees and members
- Gain **greater impact and visibility** for the work of IAP and its component academies



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### An interacademy roadmap to 2030: How can IAP facilitate? (1)



#### IAP can lead academy policy and cultural shifts and model academy initiatives by:


- Being a learning organisation, adaptive and responsive to a fast-changing world
- Further emphasizing **partnership and collaboration** in our work
- Piloting **new ways of working within academies**, emphasizing responsiveness to policy demand and co-development
- Implementing **new forms of communicating/disseminating** advice and products

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17 PARTNERSHIPS FOR THE GOALS

## An interacademy roadmap to 2030: How can IAP facilitate? (2)



16 PEACE, JUSTICE AND STRONG INSTITUTIONS

**IAP can lead academy policy and cultural shifts and model academy initiatives by:**

- **Building up weak, new and less-resourced academies**
- Being **impact-driven and accountable**
  - Clear reporting and benchmarking
  - Open data principles
  - Greener practices
- Modelling **inclusivity** (career stage/age, gender, ethnicity, geography, etc.)
- Encapsulating the principles of **science in service to society** through our core activities (incl. nominations and rewards)

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17 PARTNERSHIPS FOR THE GOALS

## And at all times....



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**Recalling IAP's vision and mission:**

**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**.

**Mission:** **To convene and empower the world's academies of science, engineering and medicine** to work collaboratively to address issues of global, regional, and national importance.

**And retaining our core principles:**

- **Excellence**
- **Independence**
- **Inclusion and equity**

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