

DRAFT ANNEX: Discussion document for the development of a work plan for the IAI open science committee

Open science is an issue that several CoP members would like to see to further discussed and advanced in the IAI.

The tables below identifies a range of potential activities that can assist in building the foundational elements to allow IAI science outputs become more open, transparent and accessible to all. These activities reflect ideas raised at CoP23 and are structured around four key areas:

1. Open Science
2. Open Data
3. Open Access
4. Collaboration

Each activity includes a number of discussion questions for consideration by the Committee to help develop and shape a work plan.

In developing a work plan on the issue of Open Science, the Committee will need to consider some of the issues raised during CoP23 in terms of the potential costs of implementing activities within the IAI and capacity of member countries as well as the IAI Directorate to engage in this work.

As such, an important task for the Committee will be to prioritize any work on open science and outline a practical work plan that is achievable for the IAI and its member countries.

Open Science

Possible Outputs	Discussion Questions	Level of Priority? (high/medium/low)
Agree upon definitions with regards to open science	<ul style="list-style-type: none"> • Do we need specific definitions or can this issue be covered in the development of a vision, policy statement, or guidelines? • If definitions are developed, what terms need to be considered (open science, open data, open access etc...)? 	
Describe the state of open science across CoP members	<ul style="list-style-type: none"> • Should we encourage informal information sharing on open practices or should there be a formal process (e.g., a request for an environmental scan using an agreed to template)? 	
Develop a vision, policy statement or guidelines on open science applicable for the IAI	<ul style="list-style-type: none"> • What would be more applicable for the IAI: a vision? a policy statement? guidelines? • Does it need to capture other aspects, such as open data and open access? • What could be good models for a vision, policy statement, or guidelines? <p><i>Note: Asia Pacific Network for Global Change Research could</i></p>	

	<p><i>provide guidance.</i></p> <ul style="list-style-type: none"> • What are the core considerations given the IAI Directorate has no enforcement mechanism or regulatory role beyond the end of project funding? 	
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Open Data

Possible Outputs	Discussion Questions	Level of Priority? (high/medium/low)
Develop or review metadata collection standards for global change science data	<ul style="list-style-type: none"> • Are IAI projects already following certain standards for data collection through the NSF or other processes? • What standards already exist that are used by several countries? 	
Determine a sustainable location to post data catalogue/inventory (not the data archive)	<ul style="list-style-type: none"> • What options are there for posting a data catalogue or inventory? • Does the NSF already have mechanisms in place that could help facilitate this? 	
Explore potential open platforms that can help archive data relevant to IAI research programs.	<ul style="list-style-type: none"> • What exists already internationally, regionally, and within IAI member countries? • What are the challenges related to uploading data into these platforms? • What platform is most suitable 	

	for what type of IAI data?	
Identify best practices in the data lifecycle from data planning, collection, etc...	<ul style="list-style-type: none"> • What best practices exist in IAI member countries or in other organizations? 	

Open Access

Possible Output	Discussion Questions	Level of Priority? (high/medium/low)
Develop peer review publication citation list (the catalogue) with standardized metadata	<ul style="list-style-type: none"> • Will the citation list being prepared by the NSF meet this demand? • How can we achieve better access to abstracts and acknowledgements? • How can data be linked to publications? 	
Find a location to post publication citation catalogue	<ul style="list-style-type: none"> • What options are there? How does this relate to data catalogue discussion above? 	

Collaboration

Possible Outputs	Discussion Questions	Level of Priority? (high/medium/low)
Identify potential opportunities and synergies with other open initiatives by liaising between the Belmont Forum Open/UNEP GEO initiatives and the IAI	<ul style="list-style-type: none"> • What areas should be prioritized and when will the IAI be ready to start making these connections? 	