

# GLOBAL RESEARCH CHALLENGES IN CLIMATE CHANGE VULNERABILITY, IMPACTS, AND ADAPTATION

**Global Programme of Research on  
Vulnerability, Impacts, and Adaptation**

[www.provia-climatechange.org](http://www.provia-climatechange.org)

**UNEP, WMO and UNESCO**

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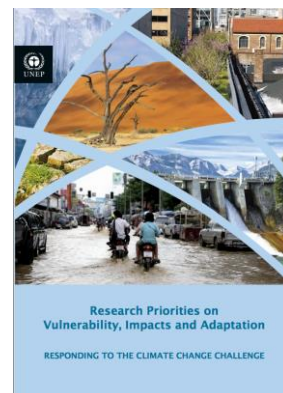
**PROVIA**



## PROVIA Research Agenda

*Develop and communicate to governments and international agencies a prioritized international agenda of research on VIA  
Vulnerability, Impacts and Adaptation*

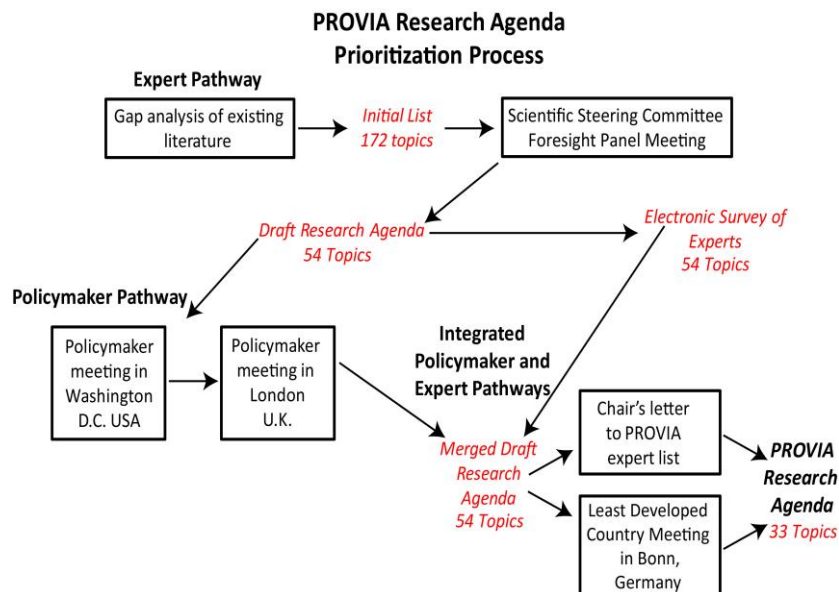
- PROVIA has developed a list of global VIA research priorities through a series of activities aimed at identifying research gaps and needs in this area.
- This involved gap analysis and consultation with scientists and policymakers to respond to the demand for better coordination of policy-relevant research.
- The PROVIA research priorities report summarized 33 global research priorities.



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Adaptation Futures  
2014 **PROVIA**

## Audience/Users

- Priorities are addressed towards research for enhanced policy and decision-making; reflect policymakers prioritization of what VIA information is most needed to serve decisions.
- Policymakers are defined to include a range of types of decision-makers and practitioners, including the UNFCCC, large international donors, funding agencies, members of government, and sector and agency specialists.
- The expert community, including international/national research directors and university researchers, are also key users; aim is to enhance framing and fundraising for VIA researchers.



## Research Priorities Framework

### Section A. Information Needed to Support a Broad Range of Policymaker Activities

- A.1 Identifying the Problem
- A.2 Advancing Vulnerability Reduction and Adaptation Solutions
- A.3 Providing Improved Cost-Benefit Estimates
- A.4 Enhancing Communication and Stakeholder/Public Participation



## Research Priorities Framework

### Section A. Information Needed to Support a Broad Range of Policymaker Activities

- A.1 Identifying the Problem
  - AF16 Risk Assessment**
- A.2 Advancing Vulnerability Reduction and Adaptation Solutions
  - AF16 Adaptation Planning**
- A.3 Providing Improved Cost-Benefit Estimates
  - AF16 Evaluation; Finance, Investment, and Business**
- A.4 Enhancing Communication and Stakeholder / Public Participation
  - AF16 Risk Assessment, Adaptation Planning, and Evaluation**





## Provia Research Priorities Framework

### Section B. Systems and Regions

- B.1 Key Systems
- B.2 Human Well-being
- B.3 Critical Geographical Areas



## Provia Research Priorities Framework

### Section B. Systems and Regions

- B.1 Key Systems
  - AF16 Food, Water, Ecosystems – Others???**
- B.2 Human Well-being
  - AF16 Public Health**
- B.3 Critical Geographical Areas
  - AF16 Cities, Arctic, Coastal – Others???**



## C. Emerging Topics

- C.1 Transformative Change
- C.2 Impacts of Geoengineering
- C.3 Legal Principles and Role of Law
- C.4 Food-Water-Energy-Security Nexus
- C.5 Participatory Processes for Mitigation and Adaptation Scenarios
- C.6 Integrated Impact Model Intercomparisons
- C.7 Decision Theory
- C.8 Risk Perception, Climate Knowledge and Behavior
- C.9 Governance, Collaborative Frameworks and Networks
- C.10 Long-Term Planning and Design



## C. Emerging Topics

- C.1 Transformative Change – **AF16 ???**
- C.2 Impacts of Geoengineering – **Mitigation**
- C.3 Legal Principles and Role of Law – **AF16 Institutions and Governance**
- C.4 Food-Water-Energy-Security Nexus – **AF16 Silos???**
- C.5 Participatory Processes for Mitigation and Adaptation Scenarios  
-- **AF16 Risk Assessment, Adaptation Planning, and Evaluation**



## C. Emerging Topics

- C.6 Integrated Impact Model Intercomparisons – **AF16 AgMIP**
- C.7 Decision Theory – **AF16 Decision-making Under Uncertainty**
- C.8 Risk Perception, Climate Knowledge and Behavior –  
**AF16 Disaster Risk Reduction, Risk Assessment**
- C.9 Governance, Collaborative Frameworks and Networks –  
**AF16 Institutions and Governance**
- C.10 Long-Term Planning and Design –  
**AF16 ???**



## Potential Directions for PROVIA Research Agenda

- Streamline research priorities for donors in preparation for IPCC AR6
- Unpack research priorities geographically, considering cross-cutting issues
- Link PROVIA research priorities with regional workshops and activities to strengthen adaptation actions
- Devise a strategy to track progress and priorities in VIA research into practice through Adaptation Futures

*... Discussion ...*