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80-90	Wrap-up/ Next steps	Karl Schultz

International Platform on Adaptation Metrics

Karl Schultz, Steering Committee Chair

Executive Chairman, The Higher Ground Foundation

Meeting Purpose

- The imperative for an International Platform on Adaptation Metrics (IPAM)
- Story of how IPAM has developed
- IPAM's structure and activities
 - Overall/Subcommittees
 - Metrics Mapping and Evaluation Project
- How you can get involved
 - Institutions/Experts/Funders
- Elicit feedback
 - Polls and Discussion Session

The Adaptation Imperative

- Global Heating

Humans already caused 1.0° Cmore to come

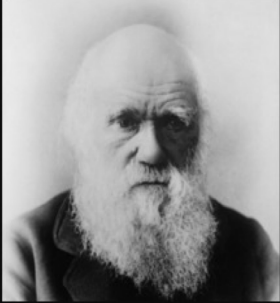
- Climate Impacts

Rising sea level, melting ice, amplified extreme weather events (torrential downpours, powerful storms), heatwaves and droughts, alteration of many ecosystems, crop productivity reduction, pests and diseases

- Adaptation

"The process of adjustment to actual or expected climate and its effects"

Charles Darwin



It is not the strongest of the species that survives, nor the most intelligent that survives. It is the one that is the most adaptable to change, that lives within the means available and works co-operatively against common threats.

AZ QUOTES

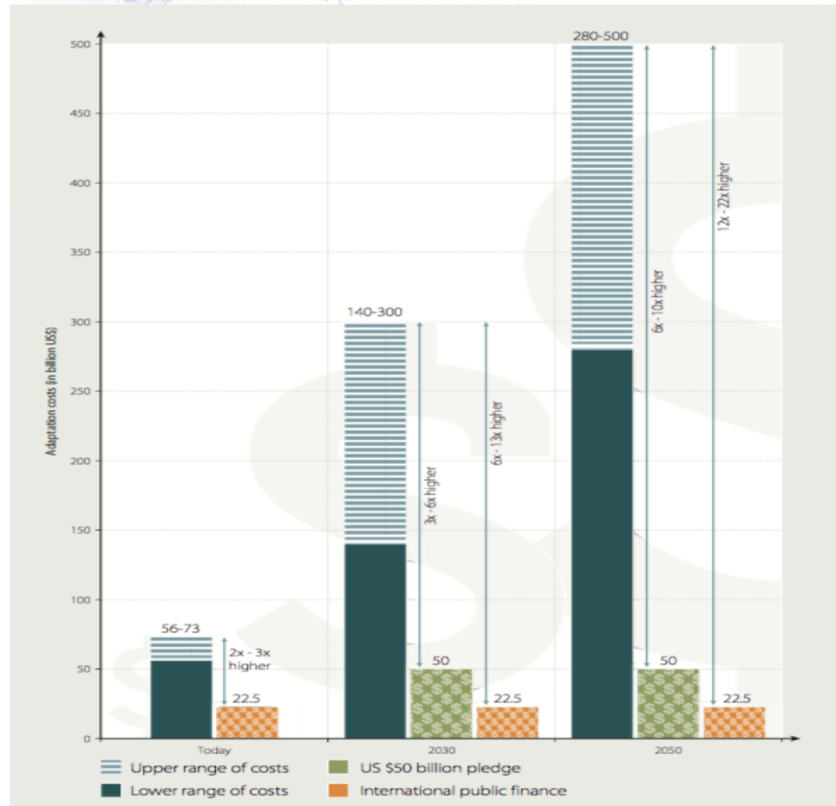
Importance of Metrics for Adaptation

“What get’s measured get’s done”

Metric: *a system of standard of measurement*

- Assess vulnerability, risk, resilience or climate impacts, to track implementation of adaptive responses and to monitor and measure adaptation results.
- Enhance project efficiency by measuring progress and results
- Better allocate investment
- Ease the comparison of adaptation results between programs, projects and activities.

The need for an International Platform on Adaptation Metrics



Source: UNEP, *Adaptation Finance Gap Report*, 2016

- There is no dedicated space to convene and focus expertise on the challenges of adaptation metrics.
- Gap between adaptation needs and realized adaptation finance.
- Key barrier: consensus on metrics to help governments, businesses, and financial institutions to identify and steer investment.

The IPAM Vision

- Become the reference platform for adaptation metrics across scales and sectors, and co-develop metrics and tools going beyond the state of the art to respond to emerging adaptation needs.
- Create synergies among its members to refine and advance concepts in science, governance, management, project monitoring & evaluation, communication, capacity building and climate finance.
- Harmonization and learning across sectors and disciplines

IPAM's Objectives

- Connect experts, practitioners and decision-makers
- Facilitate the co-design of metrics
- Develop approaches, instruments, tools and facilities that support effective finance of and policy making for climate adaptation
- Promote capacity building, research exchange and data enhancement, standards and metrics harmonization and consensus



IPAM's Origins:

First conference on Adaptation Metrics in Skhirate, Morocco



Prior to 2016 UNFCCC Conference of Parties 22 (COP 22) in Marrakech
Convened under auspices of Presidency of the COP, Morocco





The 2017 Conference

Mohammed VI Polytechnic University, in Ben Guerir

Focused on the two sectors most cited in the adaptation part of Nationally Determined Contributions (NDCs), Water and Agriculture.





The 2018 Conference

Mohammed VI Polytechnic University, in Ben Guerir

This third edition was coupled to an **IPCC outreach event on the Special Report on 1.5 degrees** and preceded by advanced courses on adaptation and adaptation metrics for **African scholars** (October 24-25, 2018)

This third edition focused on three sectors, adding the theme of resilient cities to the ones of the previous edition



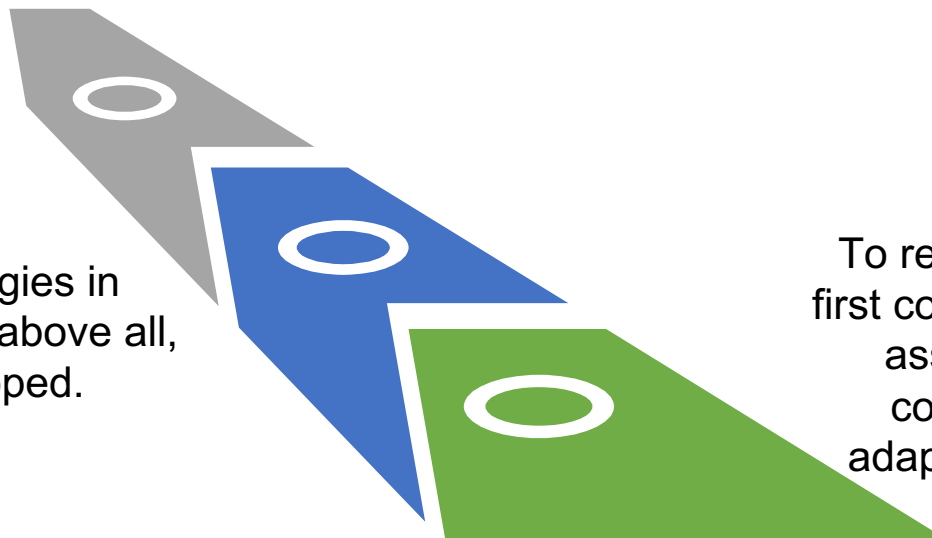


The 2019 Workshop

Salé, November 22, 2019

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

To create an **International Platform
on Adaptation Metrics**



To propose a platform format consolidating synergies in terms of research frame, targeted outcomes and above all, purpose of the metrics to be identified and developed.

To review the outcomes of the three first conferences and establish a rough assessment of the findings, the concepts and the definitions of adaptation metrics used across the world.



Introducing IPAM's Founding Institutions:

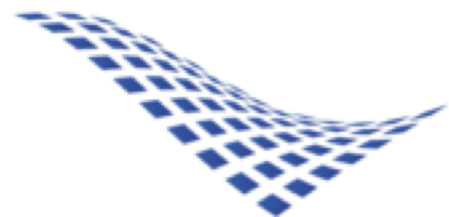


INITIATIVE
AAA

ADAPTATION OF AFRICAN AGRICULTURE



African Scientific
Research and
Innovation Council



MOHAMMED VI
POLYTECHNIC
UNIVERSITY

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Klima Aldaketa Ikergai

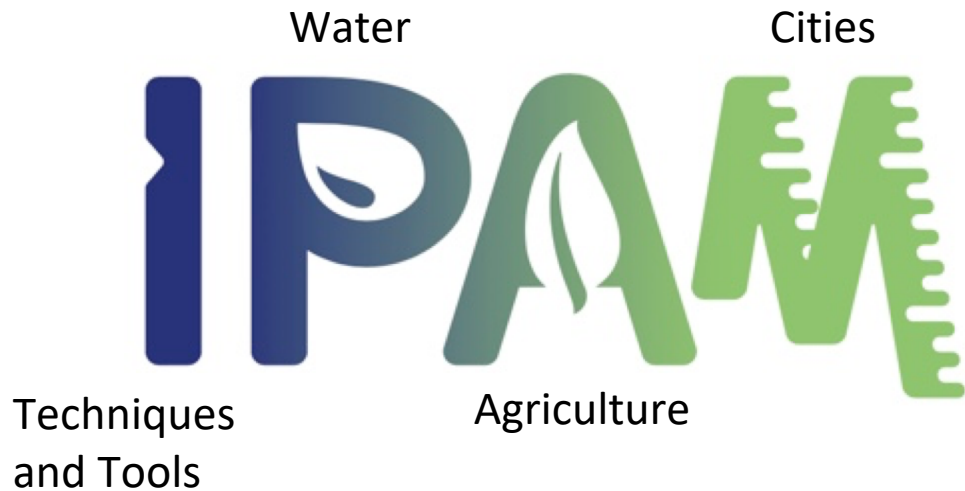
Sustainability, that's it!



IPAM Formative Structure

- Currently governed by Steering Committee of founding institutions
- Organized around sectoral and functional practice subcommittees
 - Harmonization of techniques and metrics across sectors through cross-committee integration
- Seeking institutional and expert participation
- Will undertake activities based on member direction and seek resources and collaborations with different organizations to meet focused needs

IPAM needs you, and other top experts and institutions



Join IPAM.

Let others know about IPAM.

Poll No. 1:

What are the priority adaptation metric challenges?

- 1) Approaches to compare different adaptation project results
- 2) Sectoral adaptation metric standardization /harmonization
- 3) Lack of universal adaptation metrics
- 4) Insufficient knowledge of and application of existing metrics
- 5) Poor understanding of tools and techniques to develop and use metrics
- 6) Metrics don't match existing data available, data quality invalidates metrics
- 7) Other?

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IPAM's Secretariat Representative

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IPAM's Sub-Committees

- IPAM activities are guided by the Steering Committee and Subcommittees
 - Subcommittees are led by institutional members
 - Associate members may join Sub-Committees
- Subcommittees bring together expertise
 - across sectors (agriculture, water, cities)
 - or issues/disciplines (techniques and tools)
 - Sub-themes (e.g. in water, “flood management” or “drought management”)
- They undertake communications, define challenges, and work on projects to formulate solutions relevant to their area

Next steps for each sub-committee:

- *Formulate specific objectives and define communications and work programs.*
- *Identify and recruit relevant experts, institutions, and financial support to implement their programs.*

IPAM's Subcommittees



Agriculture



Riad Balaghi

ipamagriculture@aaainitiative.org



Cities



Marta Olazabal

ipamcities@aaainitiative.org



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Water



Driss Ouazar

ipamwater@aaainitiative.org



African Scientific
Research and
Innovation Council

Techniques and Tools



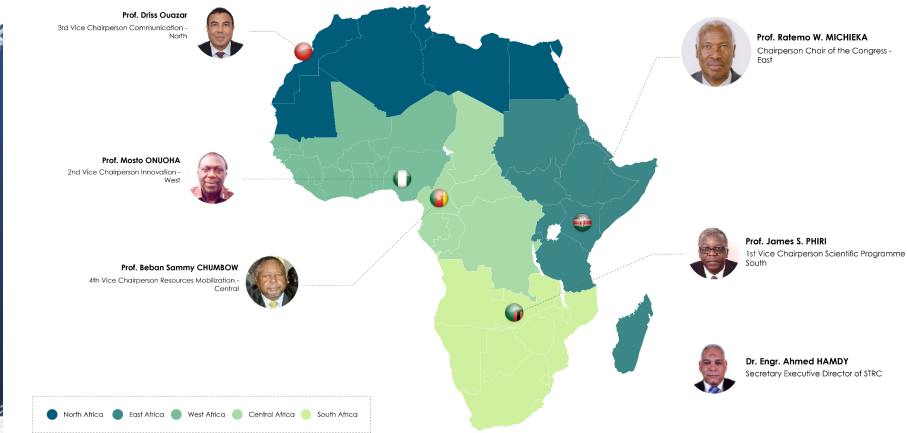
Karl Schultz

ipamtools@aaainitiative.org



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Why a Water Sub-committee?



Water Adaptation is a fatality for:

- **Resource itself (water as a good and risk - quality, quantity),**
- **Form (surface or groundwater, nonconventional),**
- **Multiple Usages (agriculture, domestic and industrial, nature),**
- **Approaches and methodologies to quantify, protect (risk related analysis), plan and manage, and implement adaptation actions to include climate change effects and impacts (methodologies, metrics and techniques).**

IPAM Water - Objectives

- Sensitize and highlight the value of water in terms of quality, quantity, and usages, and the importance of wise and rational use
- Promote water related data observatories especially in Africa – Data matters for further steps
- Estimate the impact of climate changes on all types of water resources and hydraulic infrastructures
- Develop new methods and realistic assumptions for hydraulic infrastructures calculation
- Put more emphasis on education through tutorials online, and discussion's forums and portals
- Co-develop, co-construct, share, evaluate - advanced vision, methods and techniques, integrated planning (IWRM and Nexus combined paradigms), decision making, water metrics, etc. combining highly advanced systems analysis, numerical technologies (artificial intelligence concepts, data science, modeling and simulation, and optimization)

IPAM Water – Poll.

What do we need more? (multiple answers possible)

- 1) Integration of climate change risks and adaptation concerns , and impacts into project planning and design, for more climate-resilient development. Today's choices will shape tomorrow's vulnerabilities
- 2) Appropriate engineering design, execution and implementation, management, maintenance and repair related infrastructures issues are to be developed, strengthened, improved and/or modified in conjunction with planning, policy, budgeting, capacity building, governance, and our behavior towards water
- 3) Sharing experience and expertise effectively through all the adaptation process from parameters/factors, unknowns of adaptation, key challenges encountered and key solutions to meaningful case studies (success and/or failure)
- 4) Proactive planning required rather than reactive planning
- 5) Approaches and methodologies to quantify, protect (risk related analysis), plan and manage, and implement adaptation actions to include climate change effects and impacts (methodologies, tools, metrics and techniques, Knowledge based Decision tools) are highly required
- 7) Ad hoc sub IPAM Water committees are welcome to join our efforts for sustainable development (thematics: water as a good and risk - quality, quantity, surface or groundwater, nonconventional), Usages (agriculture, domestic and industrial, nature), IWRM, Nexus, Adaptation embodied hydraulic infrastructures design

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Why a Techniques and Tools Subcommittee?

Challenges in Adaptation Metrics:

- Complexity of systems/interactions and needs
- Not just physical; social, economic, political
- Data availability, quality and comparability problems

Exciting and relevant techniques and tools are rapidly emerging:

- Digital Tech
blockchain, internet of things, machine learning
- Decision Science
modeling, futures literacy, scenario planning
- Social Science
community consultation, surveying techniques,and ways of understanding what counts to and for whom
- Business and government
practices and resources ... insurance, census, fintech,
- Art and civil society
literature, street art, demonstration, social media



Techniques and Tools: Goals and next steps

- Merge and add new approaches to each discipline's "tool kit" for:
surveilling - archiving - sharing - evaluating - co-developing and piloting
- Encouraging innovation and quality improvements to:
data - foresight - metrics - monitoring approaches - evaluations and decision making
- Encourage trans-disciplinary perspectives and also "fill in" for extra topics not covered by committees
health - disaster risk reduction - supply chain - ecosystems



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Why an Agriculture Subcommittee?



- ❑ Agriculture, and therefore food security, is already affected by climate change, and it will be increasingly affected in the future.
- ❑ In the agriculture sector, and due to its complex and multi-dimensional nature, a wide range of adaptation metrics can be used for social, economic and agri-environmental monitoring & evaluation of agricultural projects.
- ❑ Hundreds of metrics are listed in the literature (ex: see the Climate Smart Agriculture Programming and Indicator Tool developed by CGIAR). Such metrics may be used to track and improve the performance of on-going projects and the design of future projects, from local to global scales.

Objectives of the Agriculture Subcommittee

The final objective is to **develop pragmatic, comparable, standardized and cost-efficient metrics** to track performance of adaptation projects in their human, agri-environmental, and financial dimensions, in order to help :

- ☐ Estimate the technology and knowledge gap ;
- ☐ Estimate the finance gap (by governments, donors, banks, development agencies and private sector) ;
- ☐ Allocate resources, and to record how projects are converted into outcomes and impacts to better adapt to climate change, in the framework of countries' agriculture strategies, NDCs and NAPs.

Poll 4 - Agriculture Subcommittee Poll

- **What should be top action tracks ?**

- 1) Assess gaps in terms of adaptation knowledge, data and metrics, from practitioners to funders ;
- 2) Harmonize and inter-connect existing metrics, from project activities to funders ;
- 3) Develop composite metrics to improve the understanding of adaptation, for comparative assessment across contexts ;
- 4) Develop an operational adaptation M&E system, to inform adaptation progress (NAPs, SDGs, NDCs, etc.) ;
- 5) Develop a geodatabase collaborative platform for mapping existing adaptation metrics worldwide ;
- 6) Develop capacity building materials for practitioners ;
- 7) Promote interconnections between key actors, to create more systematic and transparent approaches to generating and selecting effective adaptation metrics ;
- 8) Others (please suggest) ?

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Why a Cities Subcommittee?

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Sustainability, that's it!

- **Evidence** of worldwide local adaptation progress assessments points out that:
 - Progress is concentrated in larger and richer urban areas,
 - There is a general lack of implementation,
 - Monitoring and Evaluation (M&E) frameworks are far from being fully developed and implemented.

“What gets measured gets done.” 

There is a need to close the cycle to facilitate implementation, experimentation and learning.

- Regardless the increasing attention to local adaptation planning worldwide, there is no effective integration of adaptation M&E in **decision-making processes in practice**.

Cities Sub-committee: ipamcities@aaainitiative.org

 [@martaolazabal](https://twitter.com/martaolazabal) | marta.olazabal@bc3research.org

IPAM International Platform
on Adaptation Metrics

Goal of this subcommittee

The **final goal** of the **Cities Subcommittee** is to advance the **co-creation of usable adaptation measurement frameworks** & metrics for local planning and management practice.

This will help stakeholders to

1. develop **learning** processes that can deliver practical/effective solutions
2. **measure benefits and (avoided) costs**, and thus, justify budgets and agendas.
3. increase the **legitimacy** of adaptation actions and investments.



Poll 5 - Cities Subcommittee Poll

Which are the barriers for the use of adaptation metrics in local planning practice?

- 1) Lack of local adaptation policies (no policy, no measurement).
- 2) Lack of awareness and financial support for monitoring and evaluation.
- 3) Lack of knowledge on how to identify useful metrics.
- 4) Lack of knowledge on how to effectively use adaptation metrics for decision making.
- 5) Lack of tools and capacity to support monitoring, evaluation, reporting and learning processes.
- 6) Unavailability of quality data or high costs for data acquisition and processing.
- 7) Lack of policy implementation commitment (no measure, no proof).
- 8) Others.

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IPAM membership: options & benefits

The 170 first registrations showed an interest that needs to be structured

Continent	Registered	Countries
Europe	73	14
Africa	35	12
Asia	34	11
North America	15	2
Latin America	10	6
Pacific	3	2
Total	170	47

Interest for the 4 existing sectors reaches 50 to 67%

The main other topic of interest brought up were:

- Environment/Forestry/NbS (26%),
- Health (22%),
- Energy (13%)
- Policies - Disaster risks - Infrastructure (10% each)
- Investment – Social – Local development (5% each)

IPAM membership: options & benefits

Candidate members can affiliate to IPAM, in one of these three categories :

- **Institutional Members** (voting members in Steering Committee).
- **Associate Members** (individuals, non-voting, but may be involved in issue or sectorally-oriented sub-committees, sign a charter).
- **Sponsors** (non-voting, not involved in committees or events).
- Anyone interested can sign up to the **newsletter**



Poll 6 - MembershipPoll

In order to join IPAM, would you like :

- 1) Your organization to be an institutional member?
- 2). Yourself to be an associate member?
 - 1) To consider participating as a sponsor?
 - 1) To propose a new sectoral committee?

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Adaptation Metrics Mapping & Evaluation: A cross-committee inaugural project for IPAM

Paris Agreement does not forward any adaptation metrics, nor request their development.

However:

Art. 7 recognizes (para. 9(d)) importance of monitoring, evaluation and learning from adaptation, and demands (para. 14(d)) review of overall progress in achieving “global goal on adaptation” (para. 1)

Art. 13 establishes transparency framework for Nationally Determined Contributions.... para. 5: provide “good practices, priorities, needs and gaps” for Parties’ adaptation actions under Article 7

This suggests need for frameworks and metrics applicable across countries, sectors, and over time.



Paris Agreement

The Parties to this Agreement,

Being Parties to the United Nations Framework Convention on Climate Change, hereinafter referred to as “the Convention”,

Pursuant to the Durban Platform for Enhanced Action established by decision 1/CP.17 of the Conference of the Parties to the Convention at its seventeenth session,

In pursuit of the objective of the Convention, and being guided by its principles, including the principle of equity and common but differentiated responsibilities and respective capabilities, in the light of different national circumstances,

Recognizing the need for an effective and progressive response to the urgent threat of climate change on the basis of the best available scientific knowledge,

Also recognizing the specific needs and special circumstances of developing country Parties, especially those that are particularly vulnerable to the adverse effects of climate change, as provided for in the Convention,

Taking full account of the specific needs and special situations of the least

Adaptation Gap Report Criteria for Globally Comparable Indicators of Adaptation

Criteria	Description	Associated articles in the Paris Agreement
1. Aggregable	Does the measure reflect a consistent definition of adaptation that is comparable at the national level, and is available for a comprehensive number of countries globally such that data could be systematically aggregated (qualitatively or quantitatively)?	Article 14 focus on collective progress and Article 7 inclusion of overall progress To some extent Article 7's consideration of adaptation recognition
2. Transparent	Are definitions, assumptions, and methods transparent and consistent between countries?	Article 13 requirement for a transparency framework to inform the global stocktake
3. Longitudinal	Can the measure be tracked over time to monitor and evaluate progress?	Article 7 and 14's focus on progress implies tracking over time
4. Feasible	For global synthesis/aggregation of national assessments submitted to UNFCCC: Does the measure avoid placing undue additional reporting burden on countries? For global tracking of adaptation using publically available data: Is the measure reasonably available or can it be collected for all countries?	Implicit
5. Coherent	Does the measure reflect a concept or construct that is coherent with a general understanding of what constitutes meaningful adaptation? Are assumptions underpinning the use of proxies empirically validated or theoretically sound?	Implicit in the Paris Agreement, particularly Articles 7, 13, and 14
6. Sensitive to national context	Is the measure sensitive to diverse national contexts (for example, different political, economic, and socio-cultural priorities and resources)? Does the measure avoid unjustified, poorly evidenced, or generalized assumptions — implicit or explicit — regarding what is 'good', 'appropriate', or 'sufficient' adaptation?	Implicit but unspecified; degree of desired normativity unresolved

Adaptation Gap Report Criteria for Globally Comparable Indicators of Adaptation

Project Objectives:

- ☐ Support practitioners, funders, policymakers and research community to identify, deploy, and build on existing and emerging adaptation metrics.
- ☐ Strong “user need” framework: informs evaluation framework

Project Activities:

Phase 1:

- Definitions
- User purposes/standards required
- Survey of metrics, positioning/evaluating metrics
- Define tools and techniques required for metrics creation and use

Phase 2 - Creation of an open source tool:

- Geographic database for data collection from ongoing projects
- Metrics generation and use from data to modelling
- Capacity building and metrics sharing

Metrics Mapping and Evaluation: Structure/Next Steps

- Identify organizations interested in supporting initiative:
seeking multi-stakeholder support to strengthen buy-in and expert/financial resource-base
- Share project concept with interested supporters
to refine concept and secure funding
- Trans-sub-committee driven initiative
for strong connection with sectoral experts and users + tool builders
- Regular updates on project progress
to broader IPAM/stakeholder community

Metrics Mapping and Evaluation: Structure/Next Steps

Speak with secretariat or any steering committee members if interested!

Secretariat :

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Techniques and Tools :

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Water :

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Agriculture :

ipamagriculture@aaainitiative.org

Cities :

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Poll 7 - Mapping and Evaluation Poll

What do you believe are the most critical gaps in publicly available information on adaptation metrics and tools? (Select up to three)

- 1) Absence of information on the relative value and quality of different metrics for practitioner use
- 2) Gaps in understanding how to effectively apply adaptation metrics to particular projects, programs, and policies
- 3) Lack of usable data to deploy for desired metrics, and lack of competence/resources on how to evaluate data quality and usability
- 4) In-sufficient access to and know how on how to deploy tools for monitoring projects, programs and policies
- 5) Lack of standards for developing and deploying adaptation metrics
- 6) Lack of viable approaches to communicate/translate in meaningful ways adaptation metrics to user communities
- 7) Lack of approaches to model and create metrics needed for user specific objectives
- 8) Other

Time (min)	Item	Speaker
0 - 25	IPAM introduction	Karl Schultz , The Higher Ground Foundation, IPAM Chair
	Keynote address	Abdalah Mokssit , IPCC General Secretary
	Opening word	Abir Lemseffer , Director General of the AAA Initiative Foundation, IPAM's secretariat
25 - 50	Subcommittees purpose	Riad Balaghi , AAA Initiative Foundation
	IPAM Water	Driss Ouazar , African Scientific, Research and Innovation Council
	IPAM Tools & Techniques	Karl Schultz
	IPAM Agriculture	Riad Balaghi
	IPAM Cities	Marta Olazabal , Basque Centre for Climate Change
50 - 60	IPAM Membership: Options & benefits	Karim Anegay , IPAM Secretariat
	Adaptation Metrics Mapping & Evaluation Project (Proposal)	Karl Schultz
	Poll results	Karl Schultz/ Karim Anegay
60-80	Discussion	Marta Olazabal (Moderator)
80-90	Wrap-up/ Next steps	Karl Schultz

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