

Transboundary basins & climate change: initiatives of International Network of Basin Organisations (INBO)

Budapest, 12th September 2018

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INTERNATIONAL NETWORK OF BASIN ORGANISATIONS

192 MEMBERS, 71 COUNTRIES, 8 REGIONAL NETWORKS

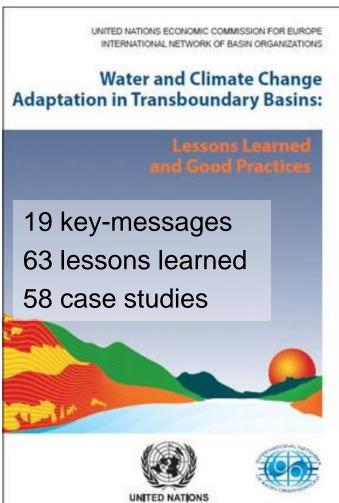




- Climate change is one of the pressures on water resources
- With impacts on floods, droughts, water uses and ecosystems
- Integrated Water Resources Management (IWRM) is an overall approach to plan water allocation, objectives for water bodies, monitoring, etc, involving stakeholders at basin level
- Cooperation between riparian countries is inescapable

Handbook: adaptation to climate change in transboundary basins





INBO in partnership with UNECE with GWP and others

COMMISSION ECONOMIQUE DES NATIONS UNIES POUR L'EUROPE RESEAU INTERNATIONAL DES ORGANISMES DE BASSIN

'eau et l'adaptation au changement climatique dans les bassins transfrontaliers :







ЕВРОПЕЙСКАЯ ЭКОНОМИЧЕСКАЯ КОМИССИЯ МЕЖДУНАРОДНАЯ СЕТЬ БАССЕЙНОВЫХ ОРГАНИЗАЦИЙ

Проблемы воды и адаптации к изменению климата в трансграничных бассейнах:







https://riob.org/en/documents/all-handbooks-basins-management

Handbook: adaptation to climate change in transboundary basins



Some key-messages

- Transboundary basin-wide cooperation reduces uncertainty and costs
- Transboundary adaptation is a challenge, but it can be more efficient and effective (sharing of data, methodologies, resources, enlargement of measures implementation)
- A transboundary basin organization with all the riparian countries plays a crucial role
- A flexible legal framework, such as a transboundary agreement, can be supportive
- Vulnerability assessment is especially important at the transboundary basin scale
- Adaptation measures and mitigation aspects are taken into account both

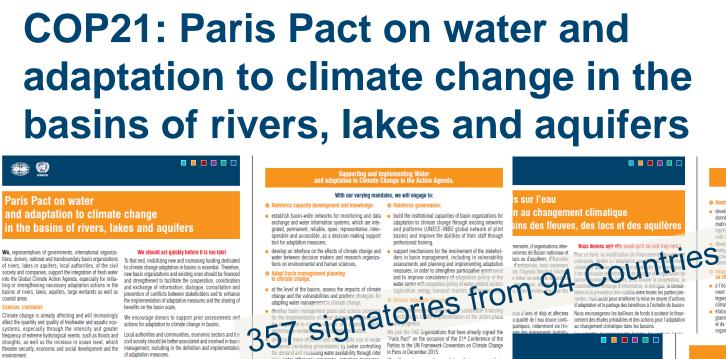
Handbook: adaptation to climate change in transboundary basins



Some lessons learned

- Ensure that adaptation policies consider climate change as one of many pressures on water resources.
- Develop an adaptation strategy at transboundary level, involving all sectors, ministries, and stakeholders.
- Build transboundary teams among scientists, administrative authorities, non-governmental groups and technical experts to enable joint actions, such as assessments and awareness rising.
- When selecting adaptation measures consider their impact on mitigation. Locate adaptation measures at most beneficial location in a transboundary basin and consider sharing costs & benefits (incl. environmental benefits).

adaptation to climate change in the basins of rivers, lakes and aquifers



artificial recharge of aquifers, rainwater harvesting, appli-

and other Natural Water Retention Measures (NWRM),

enhance the services of water-related ecosystems in Nance Initiative.

and restoration of wetlands and coastlines, reforestation Pact and Action Agenda.

cation of the polluter-pays principle, etc.,

DEVELOPMENT DIALOGUE

En fonction de nos mandats respectifs, nous nous engageons à

Renforcer les canacités et les connaissances :

- données à l'échelle des bassins et des systèmes d'information sur l'eau intégrés, permanents, fiables, ouverts util d'aide à la décision sur les mesures d'adaptation,
- oper une interface sur les effets du changement cliue et l'eau entre les décideurs et les organismes de

- · à l'échelle des bassins, évaluer les impacts du changement climatique et les vulnérabilités et élaborer des stratégies d'adaptation de la gestion de l'eau au changement

- de bassin pour l'adaptation au changement climatique au travers des réseaux et des plateformes existants (Réseau Mondial d'Organismes de Bassin pilotes de la CÈE-ONU et du RIOB) et améliorer les capacités individuelles de leurs personnels par la formation professionnelle,
- tiques d'adaptation du secteur de l'eau avec les poli tiques d'adaptation des secteurs connexes (agriculture énergie, transports, tourisme, aquaculture, etc.).

· élaborer des programmes d'investissement et mettre en réalisation des plans et des programmes d'action

développer des réseaux de surveillance et d'échange de renforcer les canacités institutionnelles des organismes

mettre en place des mécanismes pour impliquer les parties prepantes dans la nestion de bassin, notamment dans l'évaluation des vulnérabilités, la planification et la mise en œuvre des mesures d'adaptation, afin de renforcer la gouvernance participative et améliorer la cohérence des

place des mécanismes de financement durable pour la

- grammes d'action pour la mise en œuvre de ces stratégies et de mesures d'adaptation au changement climatique, et organiser des évaluations basées sur des indicateurs

支持和实施流域内气候变化适应性行动议程

根据我们各自所获的授权,我们承诺

- 开发流域内监测和数据交换网络以及可靠和开放 的、有代表性、可互操作和便于访问的永久性综合 水资源信息系统并将其做为制定适应性措施的辅
- 在决策者和研究机构之间建立起反映气候变化和水 资源对环境和人文科学的影响的界面,

❷ 按流域调整针对气候变化的规划和管理:

- 在流域内评估气候变化影响及脆弱性并制定出应对 气候变化的水资源管理适应性战略。
- 制定用于实施上述战略和气候变化适应性措施的流 域管理计划及行动纲领, 并根据相适用的绩效指标
- 通付要求控制和开发用水效率规划 蓄水措施 网络 现代化、处理后废水再使用、地下水人工回灌、雨水 回收和实施污染者付费原则等众多手段开发水资源 供应来更加节约和可持续性地使用水资源 (包括地
- 域组织之间 的合作, 以便促进有关流域管理和气候变 通过湿地保护和恢复、植树造林及其他天然保水措 化适应性领域内的最佳实践的专业知识和经验传递。 施(NWRM)等众多手段来改善水生生态系统对气候

- 通付现有网络和平台(联合国欧洲经济委员会 (CEE-ONU)和流域组织国际网络(RIOB)的全球试点 流域组织网络) 加强流域组织面向气候变化适应性 的制度能力并通过职业培训提高其工作人员的个人
- 落实利益相关者参与流域管理的机制,特别是在脆 弱性评估以及适应性措施的规划和实施方面,以便 加强参与性治理和提高水务部门的适应性政策与 其他关联行业(农业、能源、交通、旅游和水产养殖 等)的话应性政策之间的一致性。

• 制定投资项目以及落实用于计划和行动方案执行的

我们承诺将为我们的行动负责并在即将召开的水资源 和气候国际专题会议中报告现有网络 - 包括CEE-ONU-RIOB的全球试点流域组织网络 - 所取得的进展以及经 合组织水治理倡议

我们同样承诺积极促进上述公约以及水资源和气候行

	签署于(国家-城市):
	签署日期(B/月/2015):签字:
衔和职务:	
杓:	
	请于2015年11月20日前签署并附签署人照片发送至 righ@righ.era

In partnership with UNECE

Climate change is already affecting and will increasingly We encourage donors to support prior assessments and actions for adaptation to climate change in basins,

Local authorities and communities, economic sectors and the frequency of extreme hydrological events, such as floods and droughts, as well as the increase in ocean level, which civil society should be better associated and involved in basin management, including in the definition and implementation threaten security, economic and social development and the of adaptation measures.

We recognize that adaptation actions should be undertaken
Cooperation and exchange should increase between the instiwithout delay to minimize the impacts of climate change on tutions involved, especially among the basin organizations at the populations' health and safety, on economic development the global and regional levels in order to facilitate the transfer and the environment, considering the importance of the of experience and know-how on best practices in basin mana-



affect the quantity and quality of freshwater and aquatic eco-

systems, especially through the intensity and greater

The basins are natural areas where water flows on the

surface and in the subsoil: they are the relevant territo-

to climate change should thus be implemented at the level of

river, lake and aquifer basins, through a joint, participative,

شکل فقال و ملتزم، لاسبها فیما بخص تحدید تباییم تنفیذ

PARISZ015

أعمال التكيف

integrated and sustainable water resources management.

ries for organizing water resources management.

protection of water-related ecosystems.







First Name

Organization

creasing water availability through inter in Paris in December 2015.

alia: water efficiency programs, retention measures, We will report on our actions and share the progress made in

modernization of systems, reuse of treated wastewater, the forthcoming international conferences on water and

adaptation to climate change through inter alia protection We will also promote the signing of this water and climate

Signed in (Civ., Courts)

الميناء الجوفية من خلاصيه و درسه بصورت تطلب بيت عيد الميناء الجوفية من خلال سيطرة أفتش على الطالب و تطوير العرض: كبراضج كما بدا سنتخدام البيناء و تدليب الإختفاظ و تحديث الشبكات واعادة استعبال ميناء الصرف الصحب المعالجة و التعبئة الإصطناعية لليبناء الجوفية و جمع عياه

这些针对气候变化的适应性行动必须在河流, 湖泊和 含水层流域中通过对水资源进行加以协调。 便干参与。

الأمطار و تطبيق مبياً الهلوث بيفع، الخ...

www.cop22.ma 成威胁

climate, within existing networks, including the UNECE-INBO

global network of pilot basins and the OECD Water Gover

我们认识到必须立刻展开针对气候适应性的行动以尽 可能减少气候变化对人口健康和安全, 经济发展以及 环境的影响,同时也要考虑到保护水生生态系统的重

化适应性

一届大会

1号在巴黎

:闸组织形

的极端水

流域指的是表面或地下有水源流动的自然空间: 这是 最适宜进行水资源管理的地带。



2015 United Nations Climate Change Conference

我们必须迅速采取行动, 否则将为时已晚!

实现这一点的关键就在于调动不断增长的、专门用于流

域内与健变化影响活应性而等措的新资金 因此 有必

要加强和资助新兴和现有的流域组织, 以确保所有利

益相关者之间的合作、协调、信息交流、对话、协商和冲

突预防, 同时也为了更好地实现适应性行动在流域内的

我们鼓励资助者支持用于流域内气候变换适应性的可

地方当局和社区、经济部门、民间组织成员必须在适应

性措施的制定和实施等方面进一步密切彼此间的联系

必须加强所有相关机构之间 - 特别是全球和各地区流

以及对流域管理的参与。



PARIS PACT: 1st priority commitment



Reinforce capacity development and knowledge

- Establish basin-wide networks for monitoring (meteorology, hydrology, quality, uses, environment, etc), data exchange and Water Information Systems
- Improve data interpretation capacities to develop decision support tool
- Develop exchanges between research and decision making



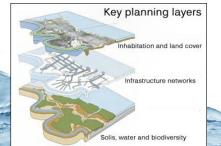


PARIS PACT: 2nd priority commitment



Adapt basin management planning

- Assess impact of climate change and vulnerability at basin level
- Produce adaptation strategies and develop associated River Basin Management Plans with performance indicators
- Control water demand for all uses: water saving, retention measures, network restoration, reuse, raiwater harvesting, polluter-pays principle, etc.
- Enhance water-related ecosystems services (Natural Water Retention Measures)



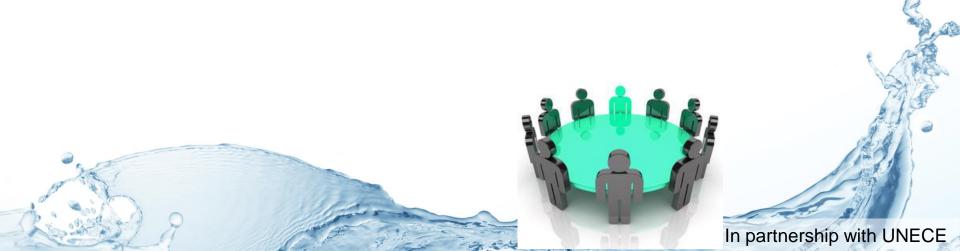


PARIS PACT: 3rd priority commitment



Reinforce governance

- Strenghten institutional capacities (experiences sharing) and individual capacities of Basin Organisations staff (training)
- Support mechanisms to involve stakeholders in basin management
- Improve consistency of policies (agriculture, energy, transport, tourism, fish farmin, etc.) with adaptatation policy for water





PARIS PACT: 4th priority commitment



Ensure adequate financing

- Establish investment programs
- Establish sustainable financing mechanisms (« Polluter/user pays » principle, financial equalisation, etc)
- Develop cross funding strategy



COP22: creation of the Global Alliances for Water and Climate (GAWC)



Gathering the networks of individual Alliances into the **GAWC**:

- Alliance of Basins (Paris Pact),
- Business Alliance for Water And Climate Change BAFWAC, launched by the Carbon Disclosure Project - CDP, the CEO Water Mandate, the World Business Council for Sustainable Development and SUEZ, which has now 44 member organizations, including 30 leading companies,
- Alliance of Megacities for Water and Climate, facilitated by UNESCO, ICLEI, SIAAP and Arceau-IDF, gathering 16 Megacities for a total population of 300 million inhabitants,
- Global Clean Water Desalination Alliance (126 signatories).

Secretariat of the GAWC: INBO http://www.water-climate-alliances.org/

Paris Pact « Water and climate projects » needs a specific tool



Water is the first victim of climate change,

Gap between donors and project holders,

Necessity to complement country approach with basin approach,

Lack of « interest » from donors towards micro or small projects:

Towards a Global Alliance for Water and Climate Incubator Platform (Gawcip) to develop more and better projects, with a focus on basin scale projects, including transboundary basins projects

THANK YOU FOR YOUR ATTENTION

To download the handbook (and others), to sign the Paris Pact and to gather more information:

https://riob.org/en

https://riob.org/en/documents/all-handbooks-basins-management

https://riob.org/fr/node/7342

http://www.water-climate-alliances.org/

