

Water and Climate Change Adaptation in Transboundary Basins: Lessons Learned and Good Practices

Daniel Valensuela

International Network of Basin
Organizations

Jos Timmerman

Alterra Wageningen University and
Research Centre



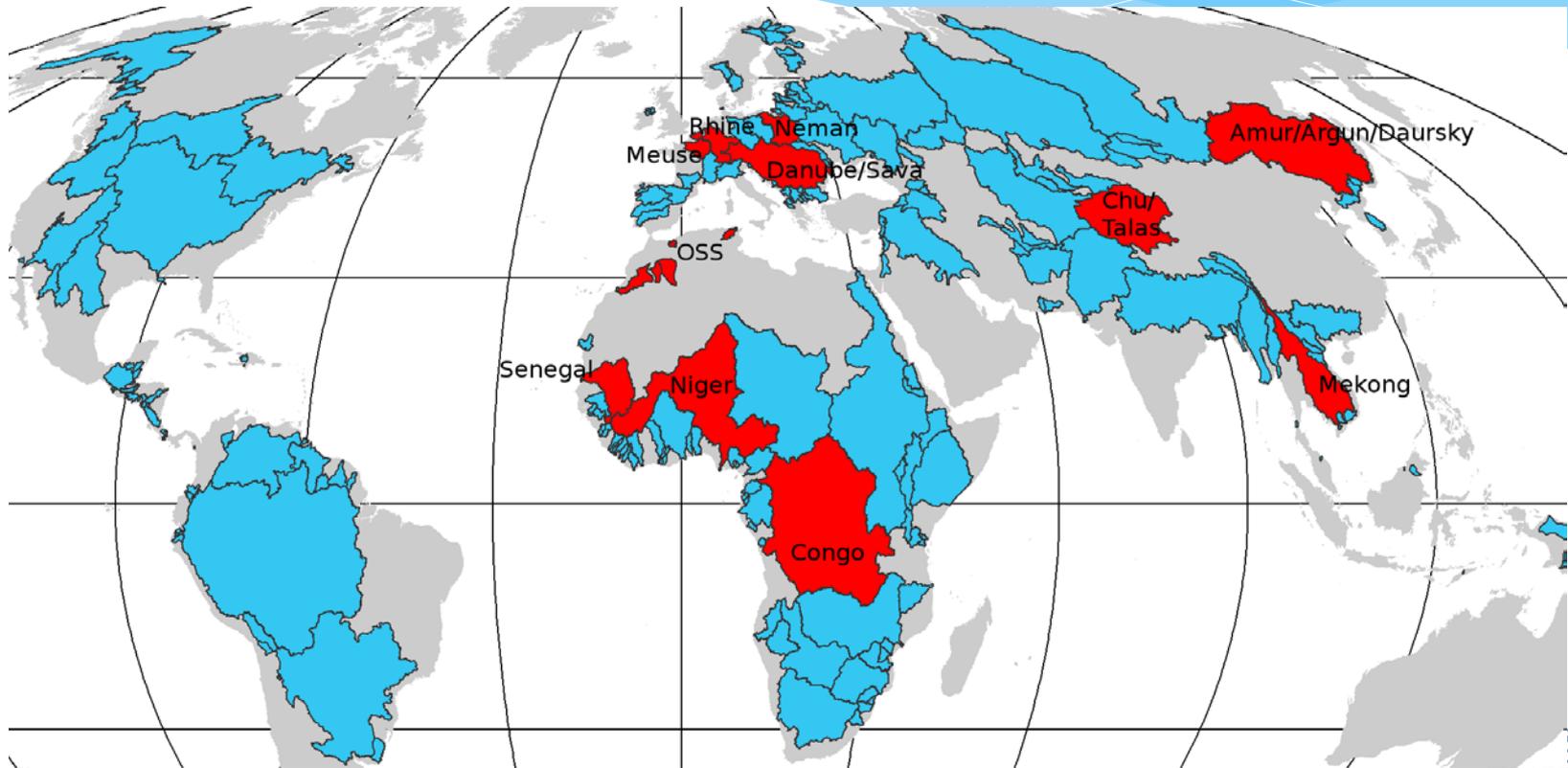
ALTERRA
WAGENINGEN UR



Convention of the Protection and Use of Transboundary Watercourses and International Lakes



Background: Pilot projects and network of basins

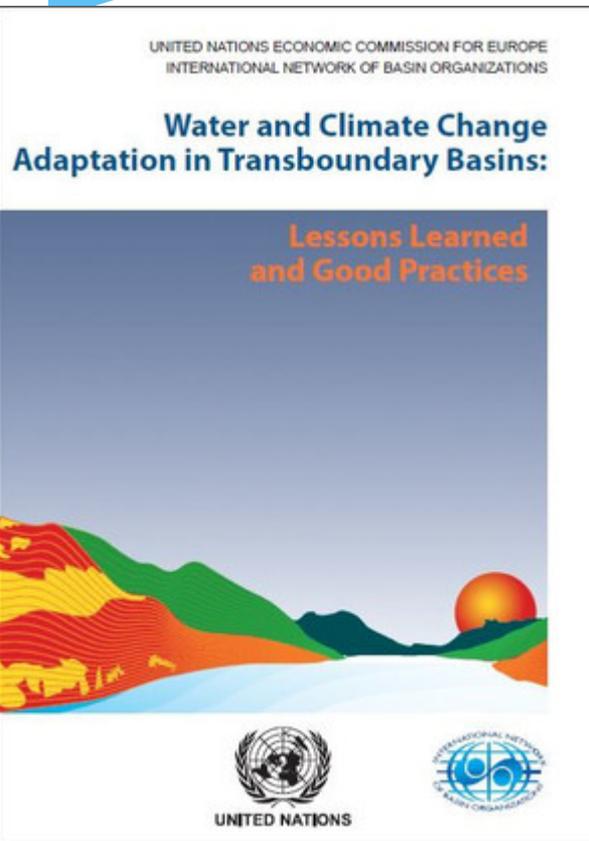


Background: Workshops and meetings

- * *Five Global Workshops on Adaptation to Climate Change in Transboundary Basins*
- * *Five meetings of the Core Group on Pilots / Global Network of Basins*
- * *Two Workshops on Transboundary Flood Risk Management*



The publication



- * **Process:**
 - * Drafting group
 - * Partnership with INBO, AGWA, WMO, GWP, OECD, IUCN and others
 - * Case studies
 - * Launch at World Water Forum, Korea 2015
- * **Some numbers:**
 - * 63 Lessons learned
 - * 58 Case studies
 - * Contributions from 80 experts worldwide



Members of the drafting group

Alistair Rieu-Clarke - Dundee University
Amadou Lamine Ndiaye - Senegal River Basin
Development Organization (OMVS)
Anna Kaplina - UNECE Water Convention Secretariat
Antonio Guerreiro de Brito - University of Minho, North
River Basin District
Daniel Valensuela - International Network of Basin
Organizations (INBO)
Eugene Simonov - Daurisky Biosphere Reserve, Pacific
Environment
Giacomo Teruggi – World Meteorological Organization
(WMO)
Hanna Plotnykova – Organization for Security and
Cooperation in Europe
Isabel Riboldi - World Meteorological Organization
(WMO)
John Matthews - Alliance for Global Water Adaptation
(AGWA)

Jos Timmerman – Wageningen University and
Research
Juan Carlos Sanchez - International Union for
Conservation of Nature (IUCN)
Kathleen Dominique - Organisation of Economic
Cooperation and Development (OECD)
Natalia Alexeeva - Global Water Partnership (GWP)
Nicholas Bonvoisin – UNECE Water Convention
Secretariat
Nicola Lamhauge - Organisation of Economic
Cooperation and Development (OECD)
Nickolai Denisov - ZOI Environment Network
Nguyen Huong Thuy Phan - Mekong River Commission
Climate Change Adaptation Initiative (MRC CCAI)
Roman Corobov - Eco-TIRAS International
Environmental Association of River Keepers
Sonja Koepfel – UNECE Water Convention Secretariat
Vahagn Tonoyan - Armenian National Policy Dialogue
Vladimir Korneev - Neman pilot project



The principle

Lessons learned

- Advice on how to develop one critical element of the ACC Planning process
- Current state of the art, state of know-how of the process resulting from experience

Case studies

- Give example(s) about one or more lesson learned
- Guaranty that lesson learned is linked to actual practice
- Providing information on the practical application



The structure

Chapter	Content
I. Introduction	
II. Context and process	Basin-wide approach; Uncertainty; Ecosystem-based approach; Link to other sectors/levels; Legal framework; Organizing the process; Capacity building– Communication
III. Vulnerability & impact assessment	Data collection, exchange and storage; Assessing vulnerability, opportunities & synergies; Use and integration of scenarios – models
IV. Developing adaptation measures	Structural / non structural measures; Basin-wide monitoring system; Prioritization of measures; Financing implementation
V. Monitoring & evaluation actions	Basin wide evaluation system; Regularly update vulnerability & impact assessment

Some examples (I)

- * Lesson 4. Integrate climate change within river basin management planning
 - * Case study 2.2 Developing a strategy for climate change adaptation in the Danube Basin
- * Lesson 8. Use ecosystem-based adaptation as a cost effective alternative to « grey » infrastructure
 - * Case study 2.6 Ecosystem-based approach and green infrastructure in Denmark
 - * Case study 2.7 Making the case for an ecosystem adaptation strategy in the great lakes Basin



Some examples (II)

- * Lesson 13. Design new transboundary agreements to be flexible
 - * Case study 2.13 Cooperation between Mexico and United States
- * Lesson 22. Ensure stakeholder participation in all steps of the development and implementation of adaptation strategies and measures
 - * Case study 2.21 Climate change stakeholder consultations in the transboundary Bugesera Basin shared by Rwanda and Burundi



Some examples (III)

- * Lesson 28. Facilitate the exchange of insights and experience between stakeholders on adaptation activities to learn and build capacities
- * Case study 2.26 Exchanges between basin organizations on climate change: First Rhine – Mekong symposium



Some examples (IV)

- * Lesson 33. Tailor messages to your audience, based on its characteristics and needs
- * Lesson 37. Use targeted approaches to raise awareness on the need of adaptation
- * Case study 2.30 « Colours of the Dniestr » : how to engage children in climate change adaptation



"Colours of the Dniestr" competition, Kulemah Yaryna, 10 years old, Ukraine



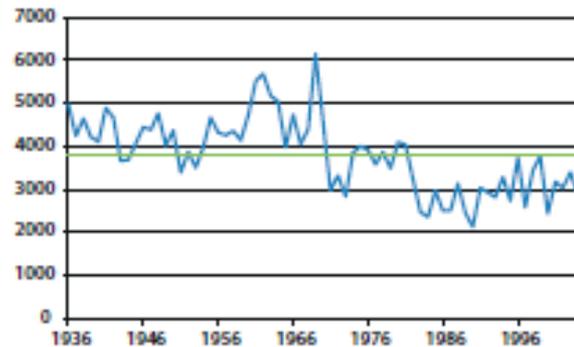
"Colours of the Dniestr" competition, Kubitka Alina, 17 years old, Moldova



"Colours of the Dniestr" competition, Teslyuk Evelina, 10 years old, Ukraine

Some examples (V)

- * Lesson 38. Identify information needs and processes for assessing, gathering, compiling and exchanging information
 - * Case study 3.1 Development of geoportal for Dniestr Basin
 - * Case study 3.2 Prediction of water levels of Ubangui River
 - * Case study 3.3 Joint database for the Neman River Basin

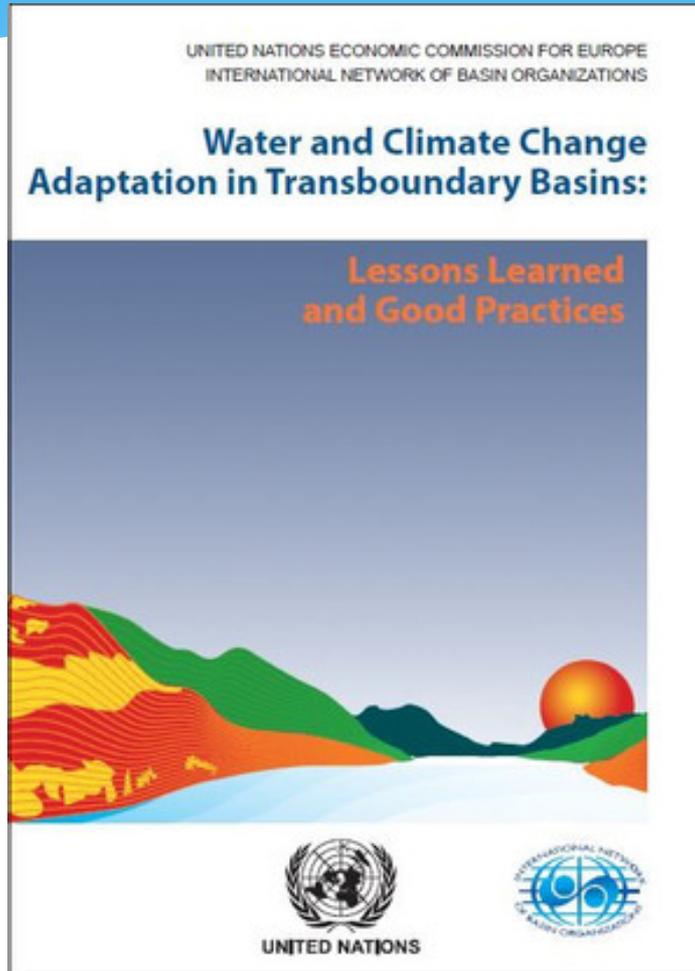


Some examples (VI)

- * Lesson 48. Develop a mix of structural and non-structural measures
 - * Case study 4.1 Structural interventions in the Senegal River Basin



We encourage you to read and use it!



- Russian version online available
- French soon available
- Some case studies taken up by UNFCCC online portal

Thank you for your attention



Convention of the Protection and Use of Transboundary Watercourses and International Lakes

