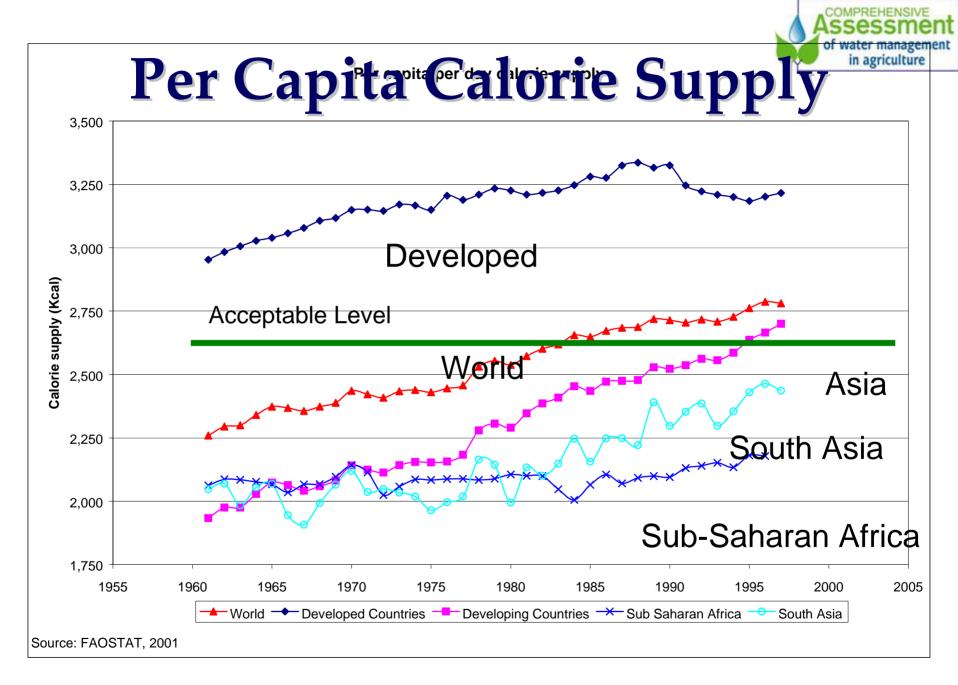


The Comprehensive Assessment of Water Management in Agriculture

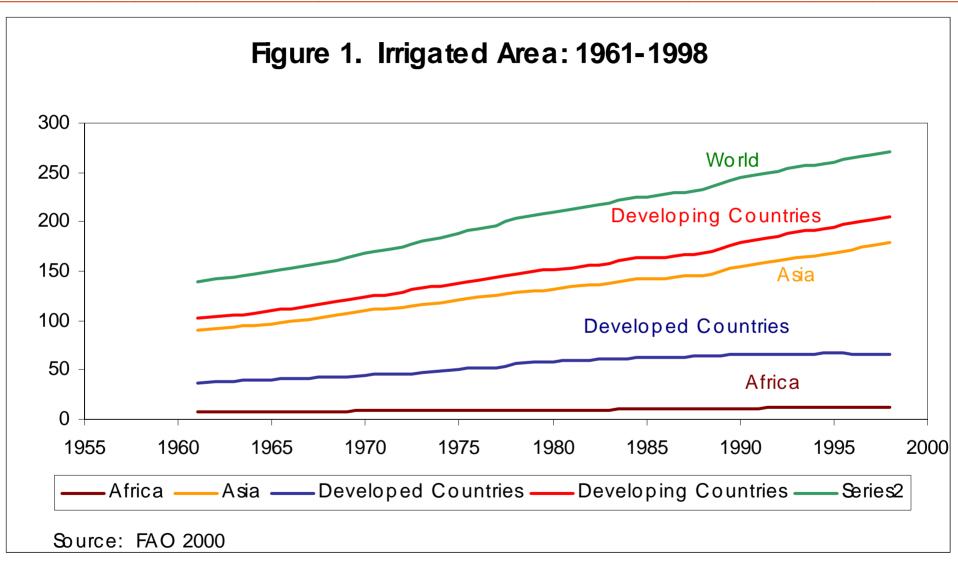
AN OVERVIEW



Why the CA?

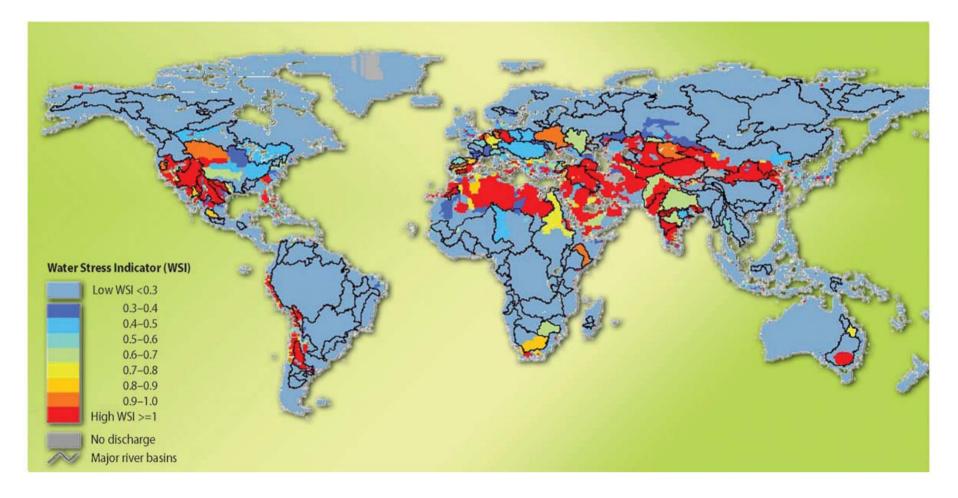








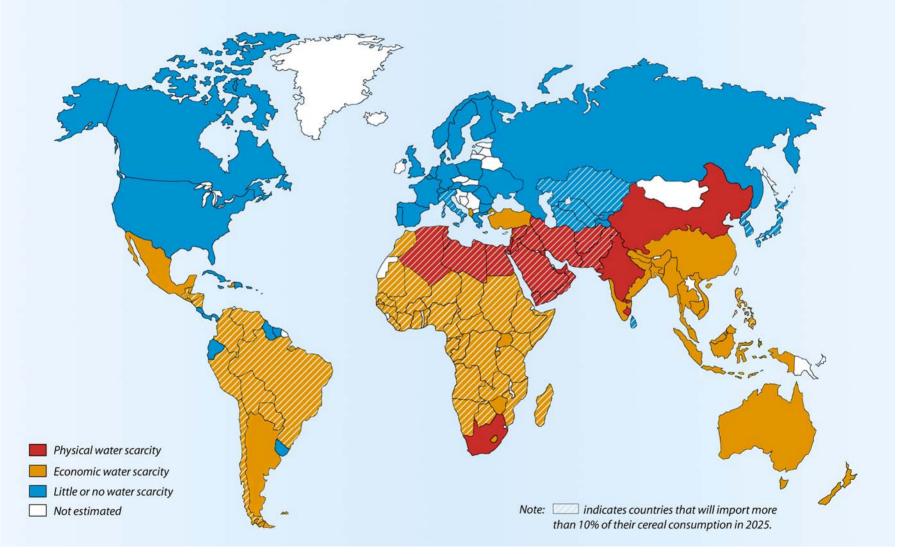
Environmental Water Stress



Source: IWMI, WRI, Kassel University

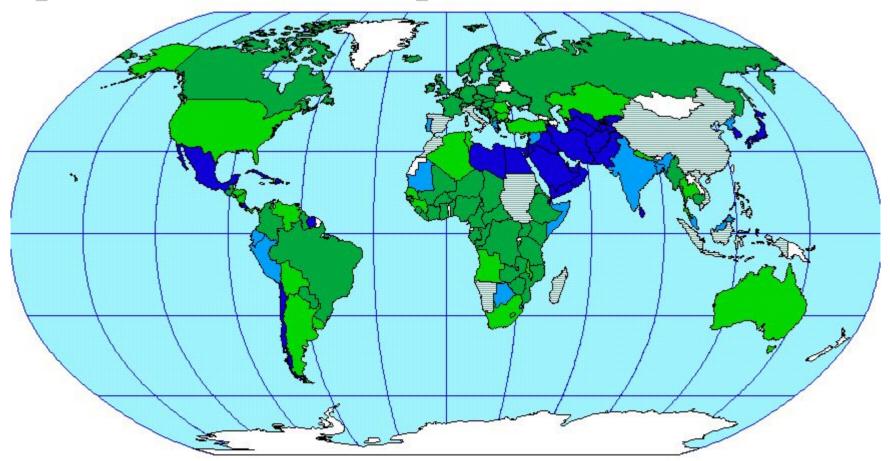


Projected Water Scarcity in 2025



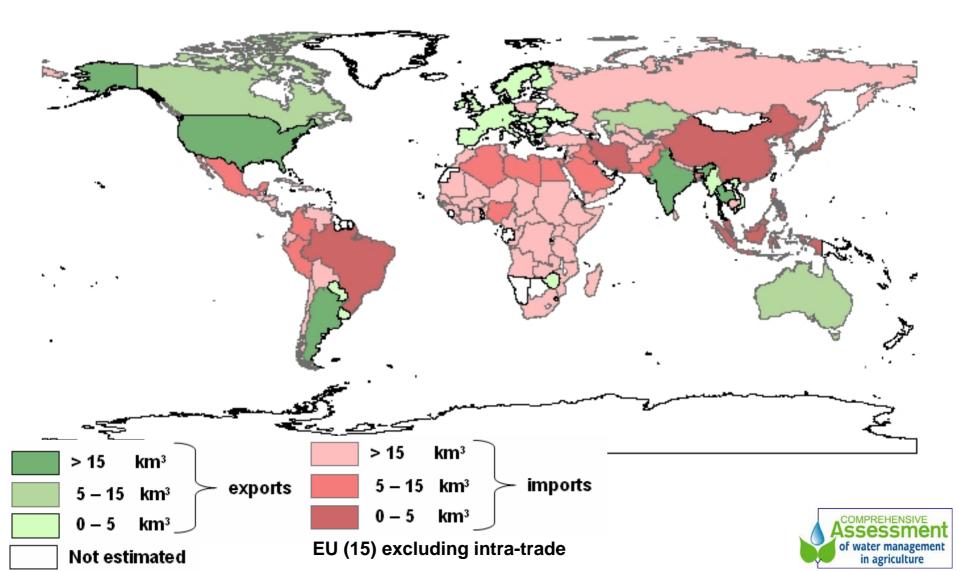


World map of Green and Blue water dependence in food production

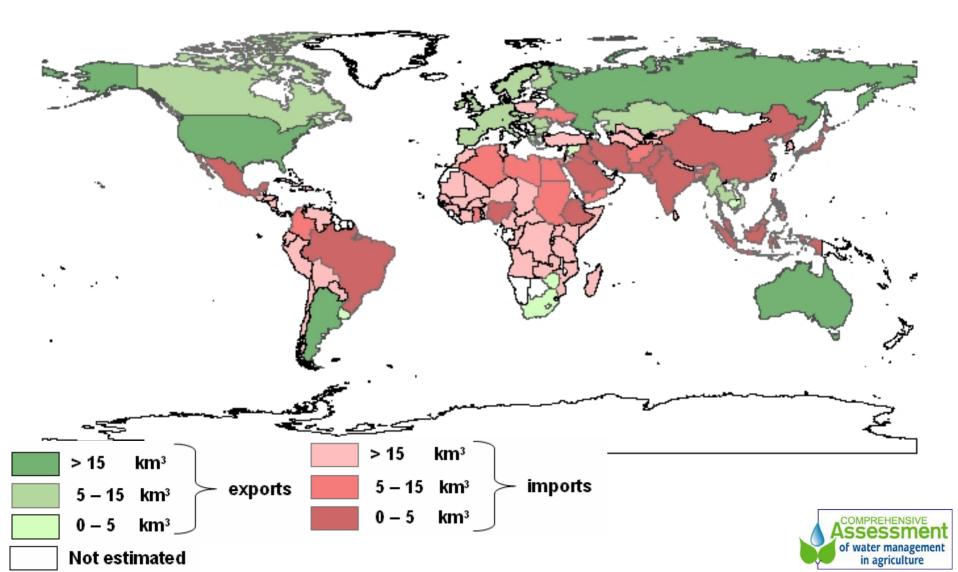


Source: Rockstsrom et al, 2003, Water Productivity in Agriculture: Limits and Opportunties for Improvement

Virtual water flows (1995) measured in crop ET, cereals



Virtual water flows (2025) measured in crop ET, cereals





Introducing the CA



The CA:

Water, Food and the Millennium Development Goals

How can water for food be developed and managed to:

- Help end poverty and hunger
- Ensure environmentally sustainable water-agriculture practices
- Find the balance between food and environmental security?



The Assessment brings together researchers, water managers, development professionals, policy makers to take stock of:

- the impacts of the past half-century of water development for agriculture
- The water management challenges communities are facing today
- * the solutions people have developed



For Better Investment and **Management Decisions** By farming communities, governments, and donors to meet food and environmental security goals in the near future considering their impact over the next 25 to 50 years



The CA Program

For an improved knowledge on agriculture water management in agriculture

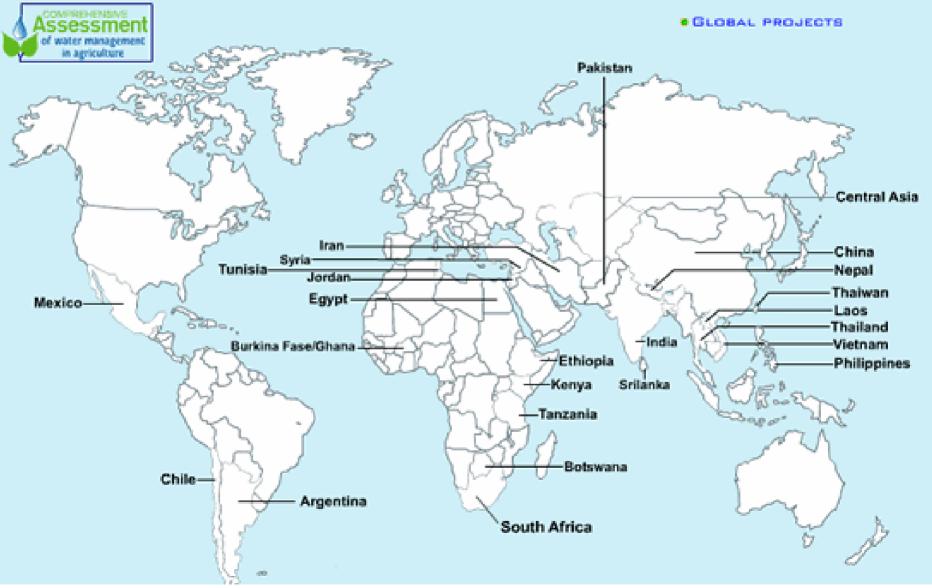
- * an assessment synthesis report
- * assessment research documented in a CABI book series, research reports, journal articles, discussion papers, working papers, briefs, and other outlets.
- Assessment tools and information including models (e.g.WaterSim), data and information tools (global map of irrigated areas, environmental flow map, information on virtual water trade), literature reviews (irrigation impacts).
- Capacity building
- Buildup of a community of practice and *networks of* water, food and environment partners



Builds on Initial Research Phase

- ✤ A first phase of the project sponsored <u>65</u> research projects done by <u>180</u> people from <u>149</u> institutes. Results are documented in a variety of publications:
- A book series of 8 available in 2006. (water productivitypublished, coastal zone conflicts, groundwater, rainwater, land and water degradation, water laws, water pricing, and basins).
- Peer reviewed publications in numerous outlets including the CA Research Report Series (available on CA website).
- Other material includes 9 books, 48 workshop proceedings, 3 discussion papers.
- Briefs and media material. CA results have presented in ID21, SciDev, Bridges, and numerous media publications including New Scientist.
- Presentations at Stockholm Water Week, Water Dome, World Water Forum, and numerous conferences.







CA Program Support

- Governments of Netherlands, Switzerland, and World Bank Support to the CGIAR for System Wide Initiatives for "core" support of assessment activities.
- Grants to assessment activities by: Governments of Netherlands, Sweden (through the Swedish Water House), Switzerland, Taiwan, Japan, EU (through the ISSIIM project), and Austria, the OPEC foundation, FAO, the CGIAR Challenge Program on Water and Food and the Rockerfeller Foundation.

Numerous in-kind contribution by participants of the assessment program and process.

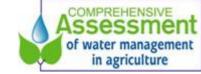


Steering Committee

- Patrick Dugan, Worldfish
- Suhas Wani, ICRISAT
- Eiman Karar, DWAF, South Africa
- Solution Set Strain Set Strain Str
- Sina Castillo, Novib-Oxfam, Netherlands
- Jean-Marc Faures, FAO
- Bas Bouman, IRRI
- * Theib Oweis, ICARDA
- David Molden, IWMI

Co-sponsors

- FAO, CGIAR
- RAMSAR, CBD

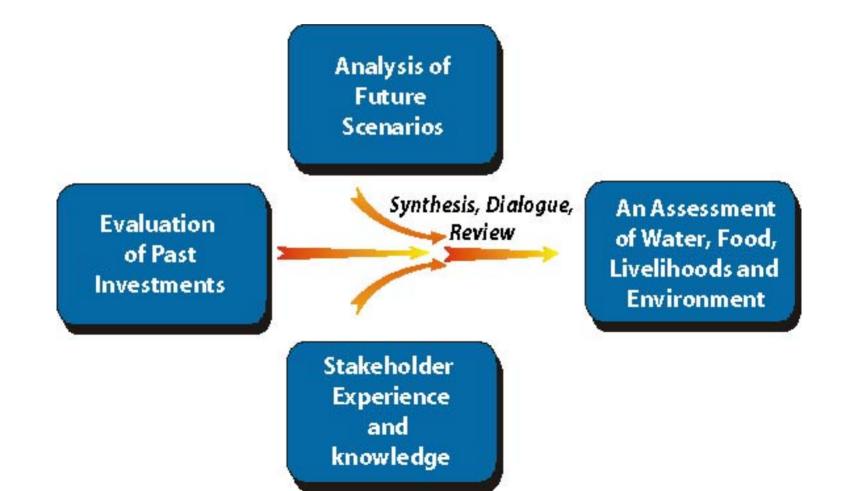


Synthesizing Results Producing the Assessment Report



Where are we now?

Synthesize CA research and any other relevant experience and knowledge.





The Synthesis Report

- An assessment of water, food, livelihoods and environment
- That influences investment and management decisions on water and agriculture
- To reduce poverty, malnutritition and hunger, while promoting environmentally sustainable practices (the MDGs)

	Review	Assessment of water management in agriculture
Audience	Scientists	Decision-makers
Conducted by	One or a few	Larger and varied group
Issues/topic	Simple and narrow	Broad and complex
Identifies gaps in	Research: driven by curiosity	Knowledge for implementation: problem- driven
<i>(Un)certainty statements</i>	Not required	Essential
Judgement	Hidden, more objective	Required and clearly flagged
Synthesis	Not required	Essential to reduce complexity
Coverage	Exhaustive, historical	Sufficient to deal with main range of uncertainty



The Assessment

- Trends, conditions, response options, scenarios
- As comprehensive as possible on waterland-food-livelihoods-environment
- Credible, authoritative key messages
- Built by a process that encourages stakeholder participation and buy-in
- Transparent, inclusive, globally diverse teams of authors
- Delivered as a technical volume and an overview for policymakers.



Outline

Section 1

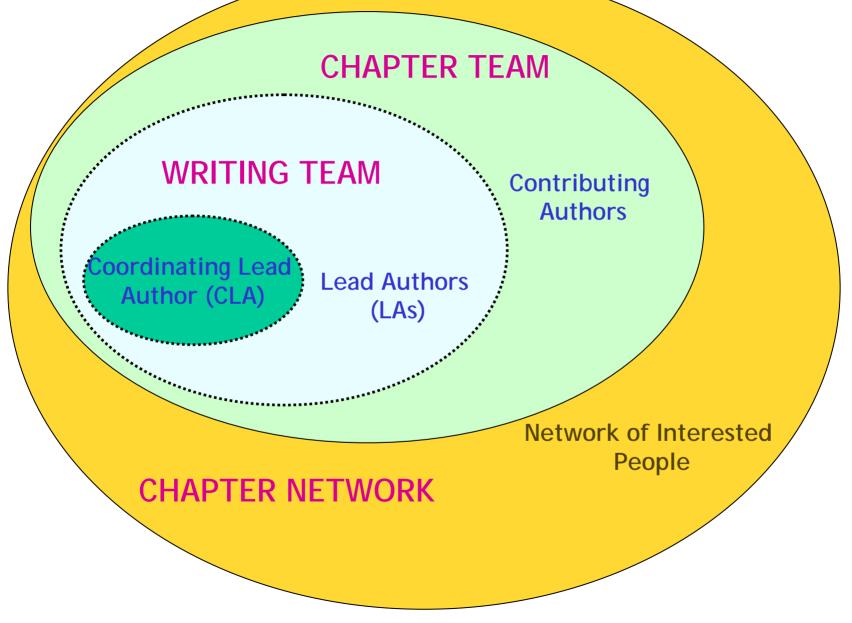
- Introduction
- Conceptual
 Framework
- Impacts of WMA
- Section 2
 - Rainfed
 - Irrigated
 - Groundwater
 - Low Quality Water
 - Fisheries
 - Rice
 - Land
 - Basins
 - Livestock

- Section 3
 - Water Productivity
 - Secosystems
 - Policies & Institutions
 - Poverty
- Section 4
 - Scenarios
- Section 5
 - Overview for Policy makers

Building the Assessment of water manager in agriculture

- Participatory approach engaging communities of practices to develop chapters around each CA question and cross cutting issue
- Each chapter has author team 10 20 with 3 to 4 lead authors including one coordinating lead author (CLA), plus larger consulting network (100+)
- Teams from a diverse background experience, gender, location
- Thorough and extensive scientific and stakeholder review process for credibility







Teams

- Chapter Teams & chapter networks-3 to 4 lead authors for writing, contributing authors, network
- Cross-cutting issue teams same composition with additional responsibilities of interacting across chapters
- Scenario Team core team plus CLAs
- Reviewers independent,
- Secretariat supports process



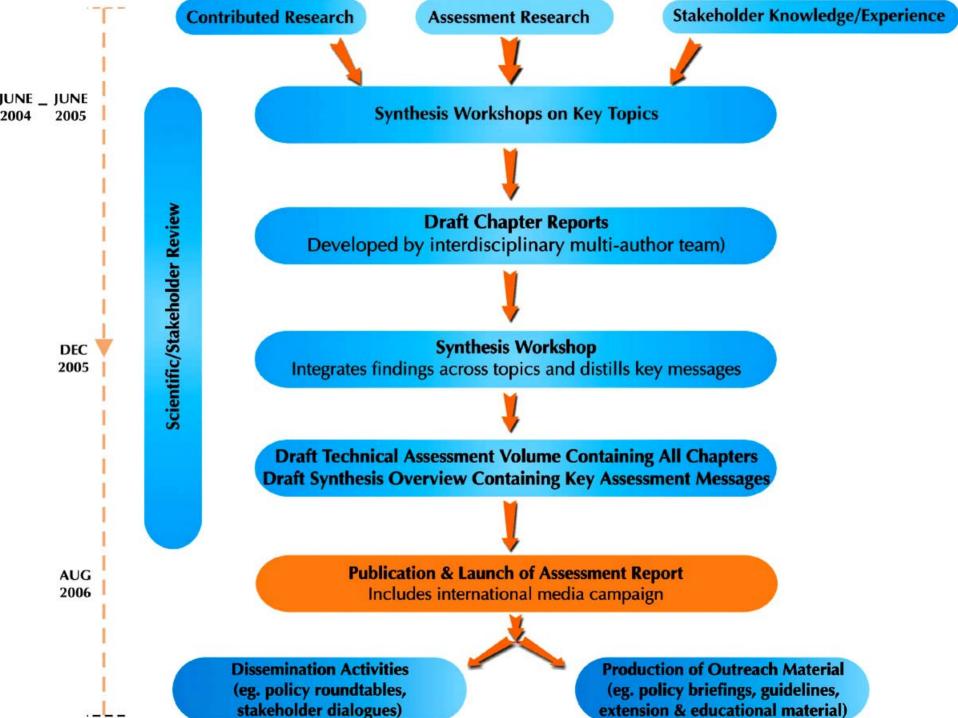
Cross Cutting Issues

- *Ecosystems, Policies & Institutions, Poverty, Gender, Health, Climate Change, Productivity
- Gender, Health, and Climate Change
 - Incorporated across chapters
 Working groups on these to:
 Identify issues for chapters
 Provide content for chapters



Co-sponsors

- FAO, the Ramsar Convention on Wetlands, the Convention on Biological Diversity, and the CGIAR
 - Provide questions and issues for the assessment
- In discussion with Ramsar/CBD and CGIAR/CPWF to make a special report
- Linked to IAASTD





Detail of the Timeline

- Nov 2005 to April 2006: chapter finalization with internal reviews across chapters, scientific review and wide consultations and reviews with chapter networks
- April 2006 editing and publishing
- Through July 2006 editing, layout,
- August 2006- delivery of the Summary for Decision Makers (SDM) in Stockholm
- Aug Sep 2006 publishing
- Sept/Oct 2006 delivery of assessment at a launch (to be organized)



Thank you

For further information visit: www.iwmi.org/assessment

or write to complassessment@cglar.org