
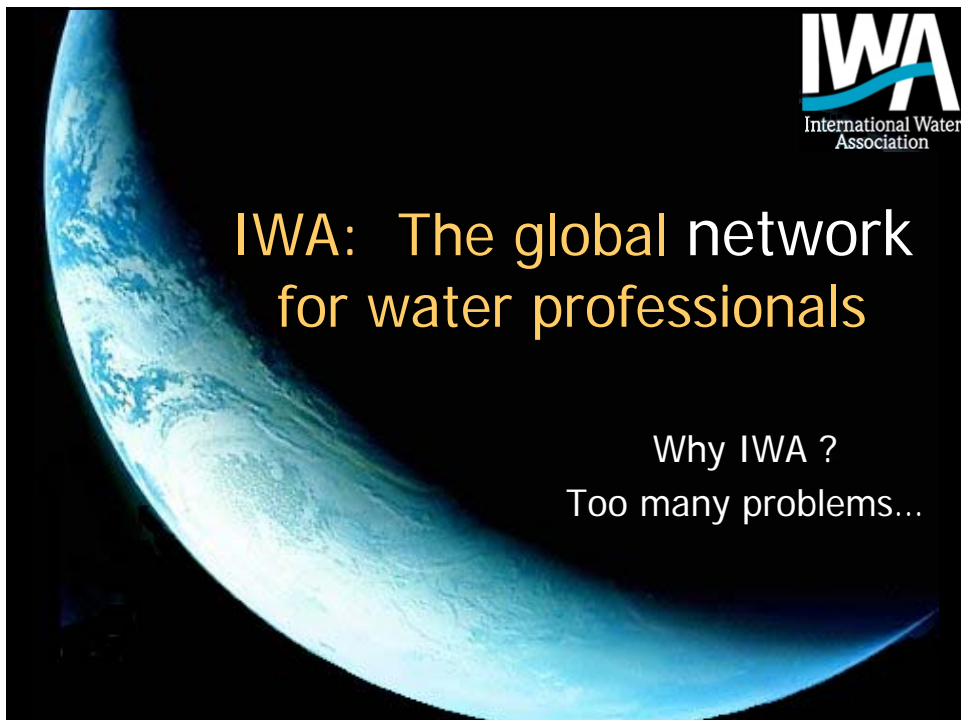


IWA: Meeting the Challenges of Water Professionals in the 21st Century


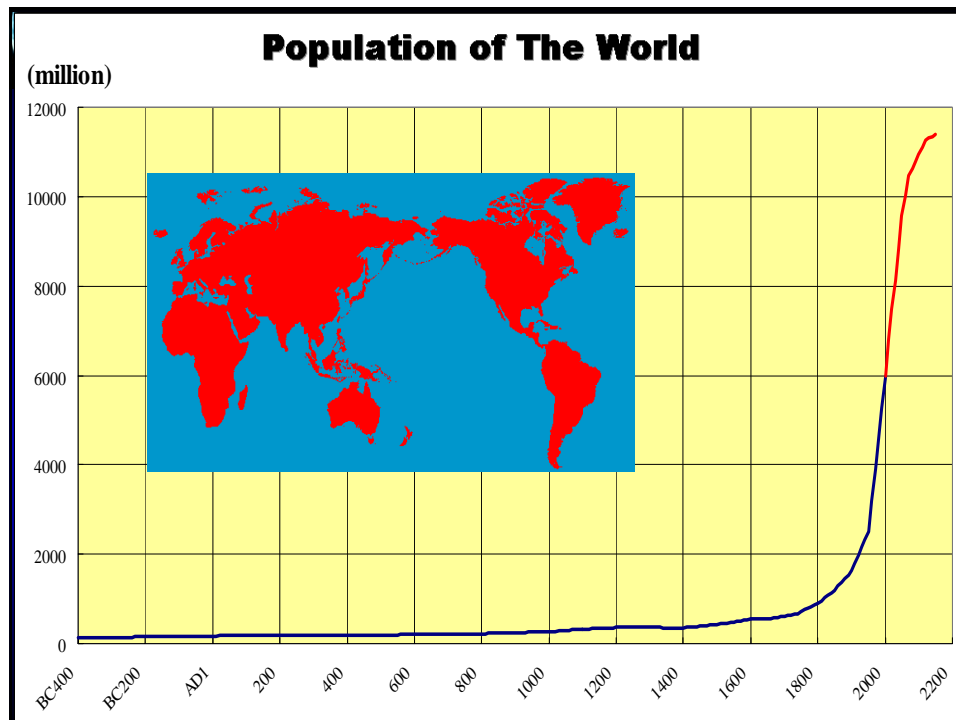
Belgian IWA
June, 13 2005

Peter Vanrolleghem
Laszlo Somlyódy, IWA President
Paul Reiter, IWA Managing Director



IWA: The global network for water professionals

Why IWA ?
Too many problems...



Emerging Challenges Ahead

- Resource capabilities and water stress
- Access to water and sanitation
- Reversing water quality degradation
- Growing demand and urbanization
- Climate change

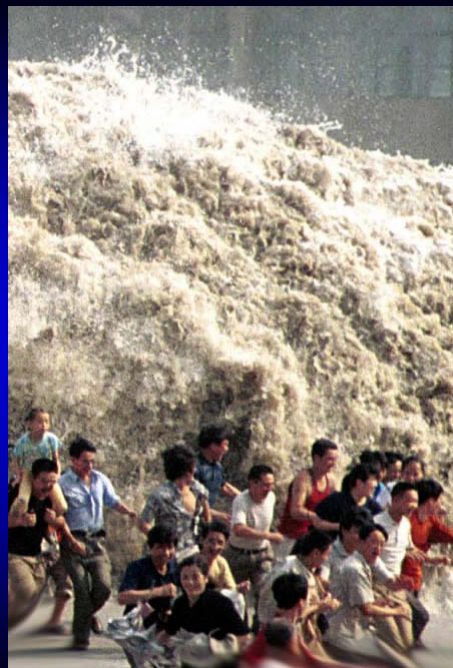
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TSUNAMI




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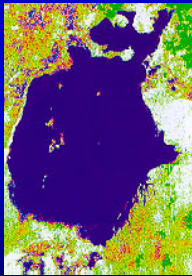
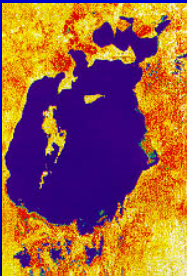
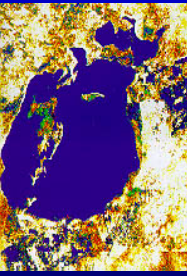
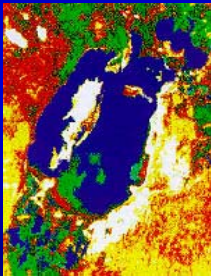
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The Aral Sea: lack of foresight

The process of drying up of the Aral Sea over the period of 1977 - 1995 is fixed on these space photos


1977

1984

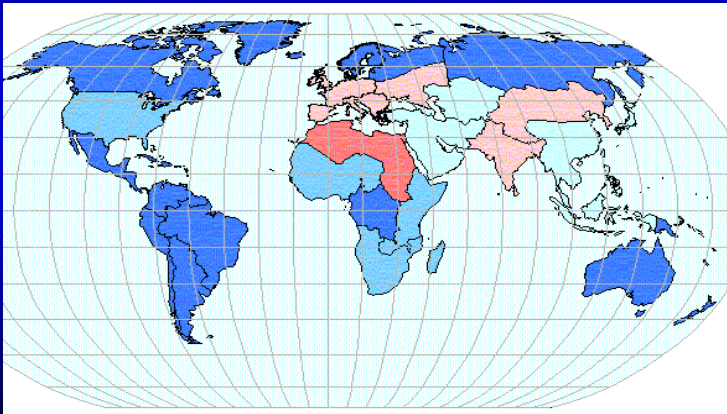
1989

1995

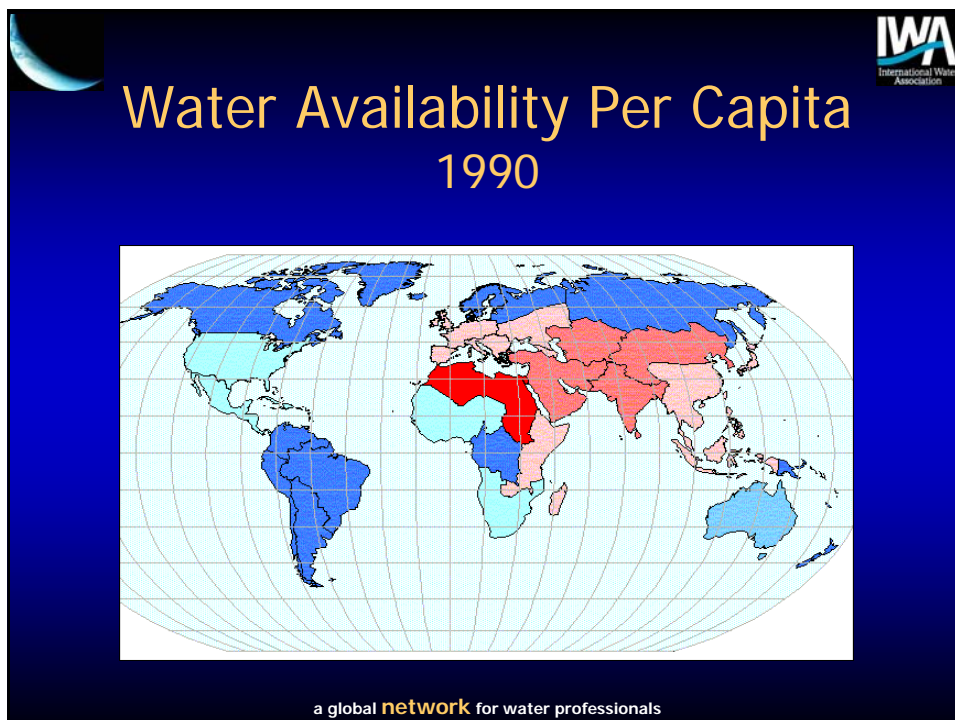
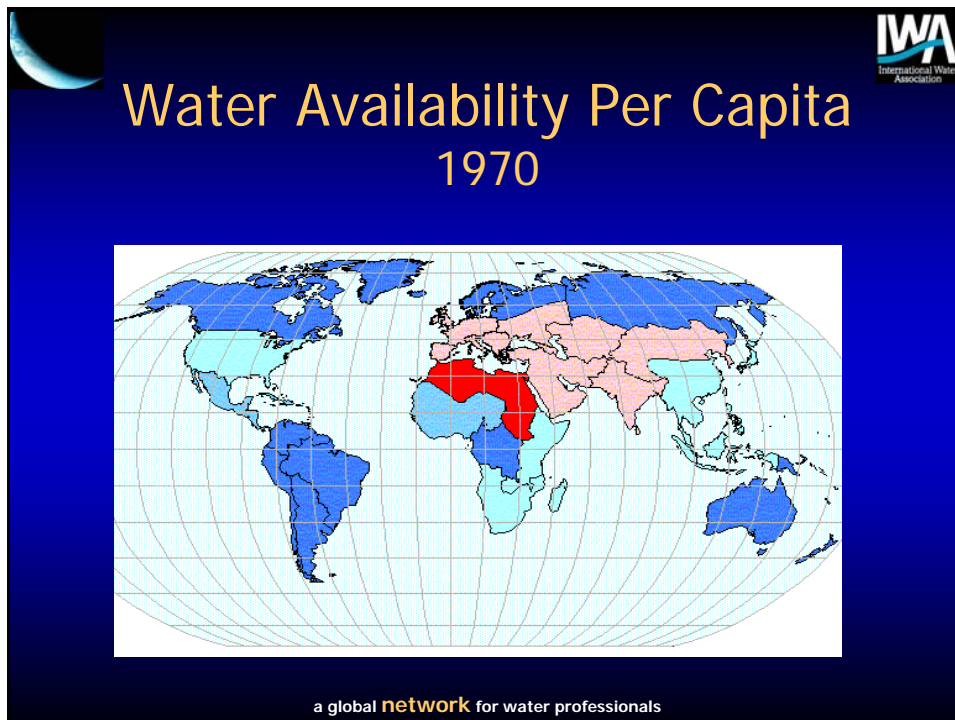
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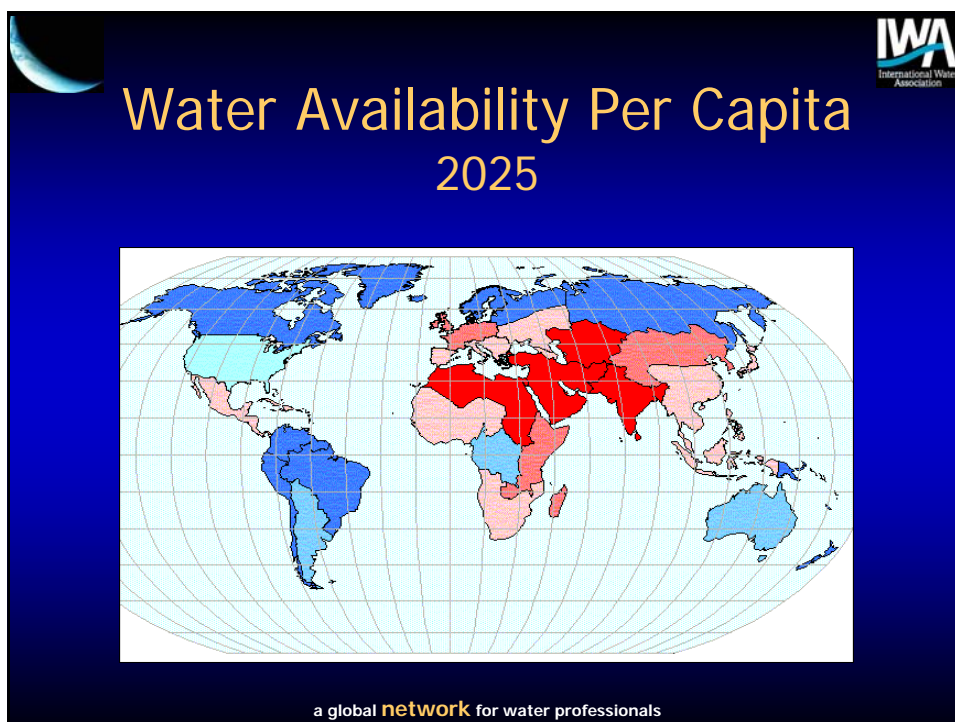
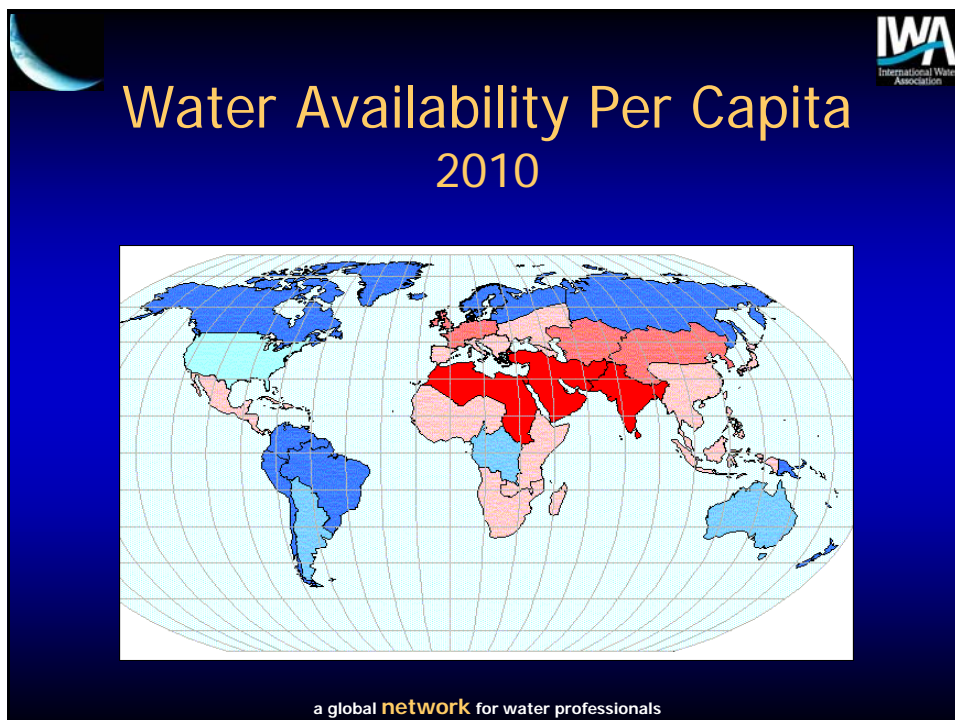


Water Availability Per Capita 1950



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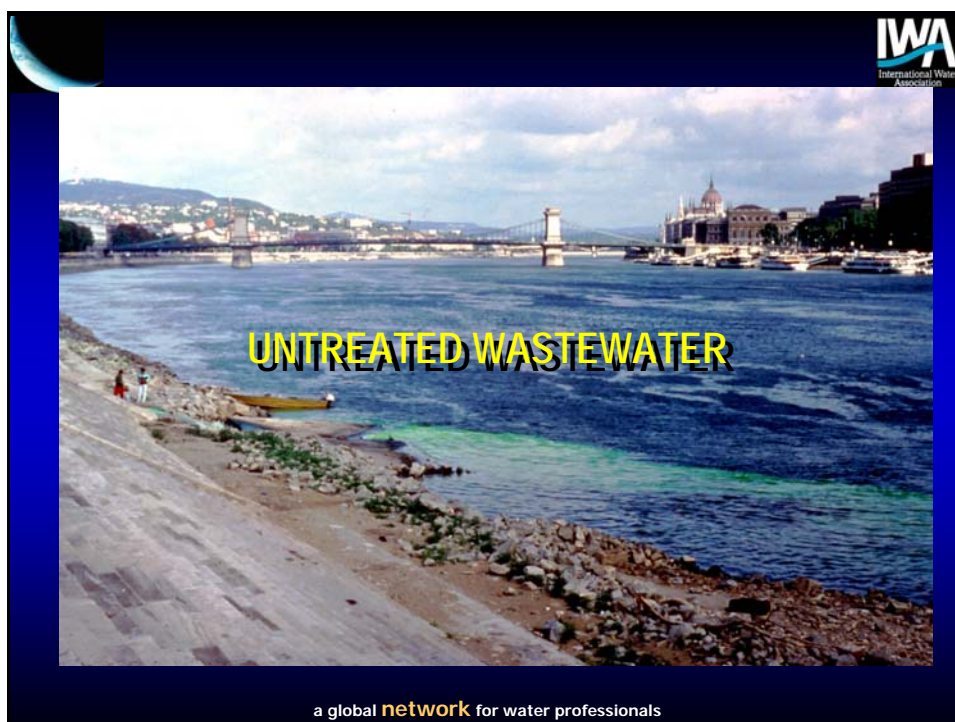
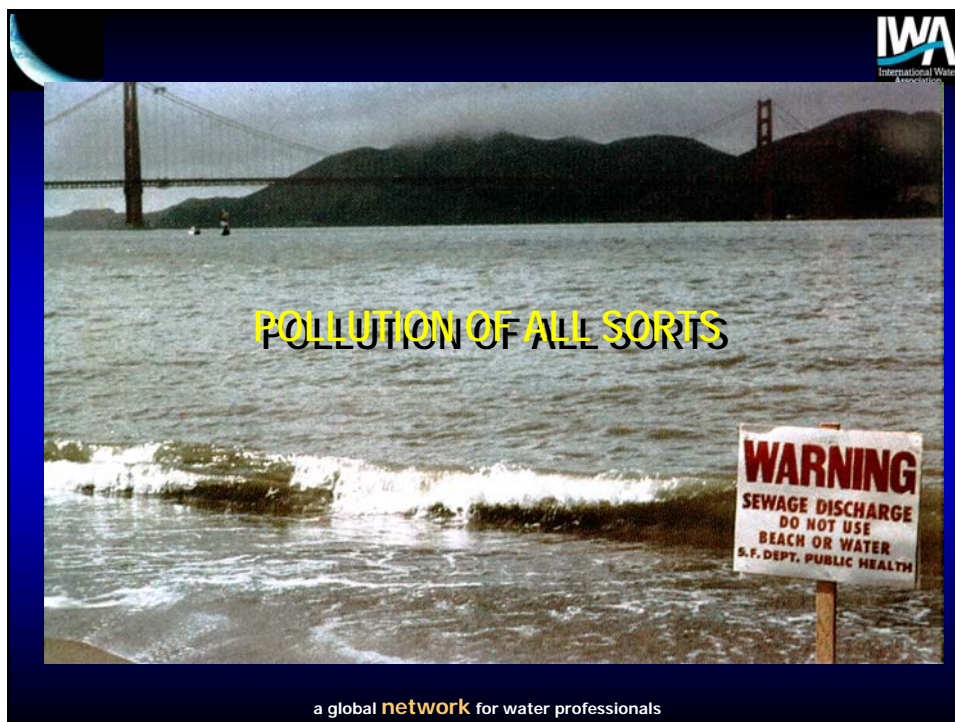


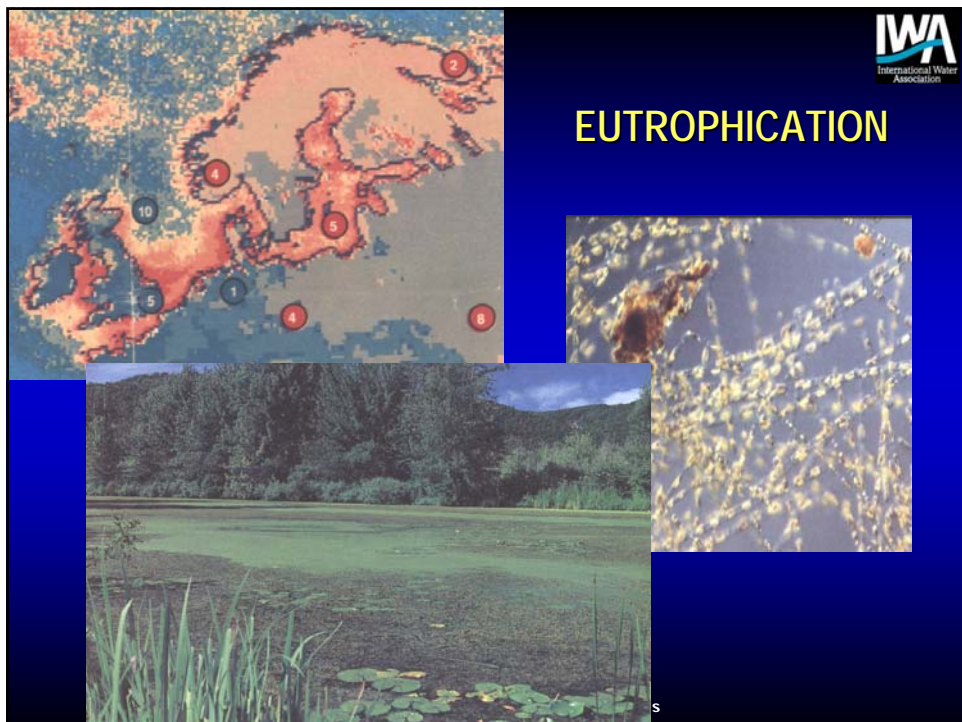
At the Same Time... Additional and Significant Water Quality Challenges

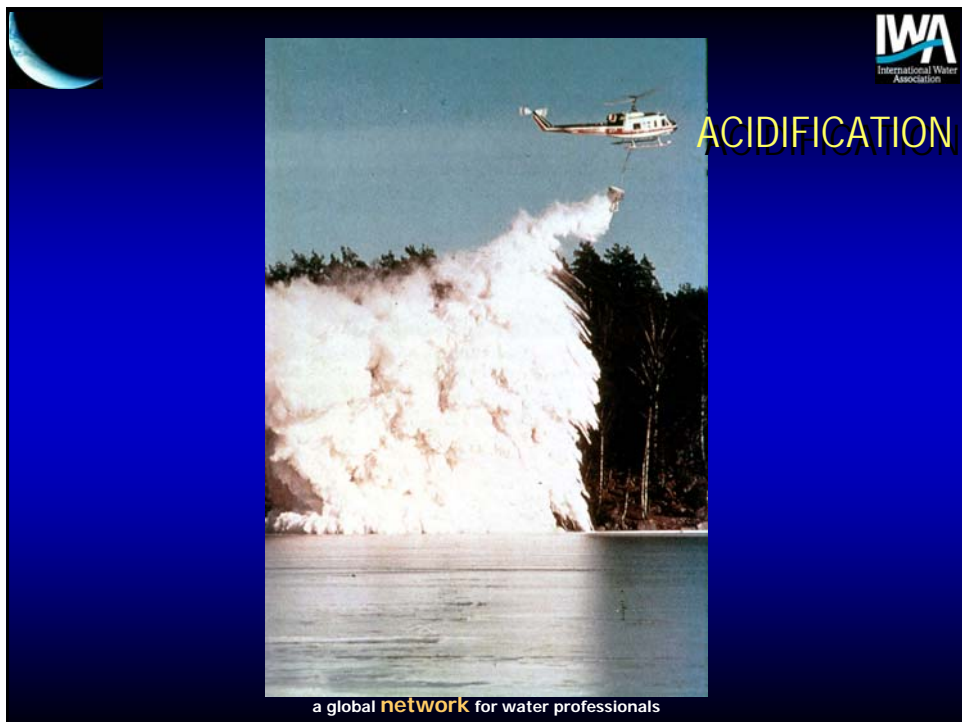
- Pollution and water quality degradation
- Nitrate and phosphate accumulation
- Growth in salinity
- Habitat loss
- Extinctions and reductions in biodiversity

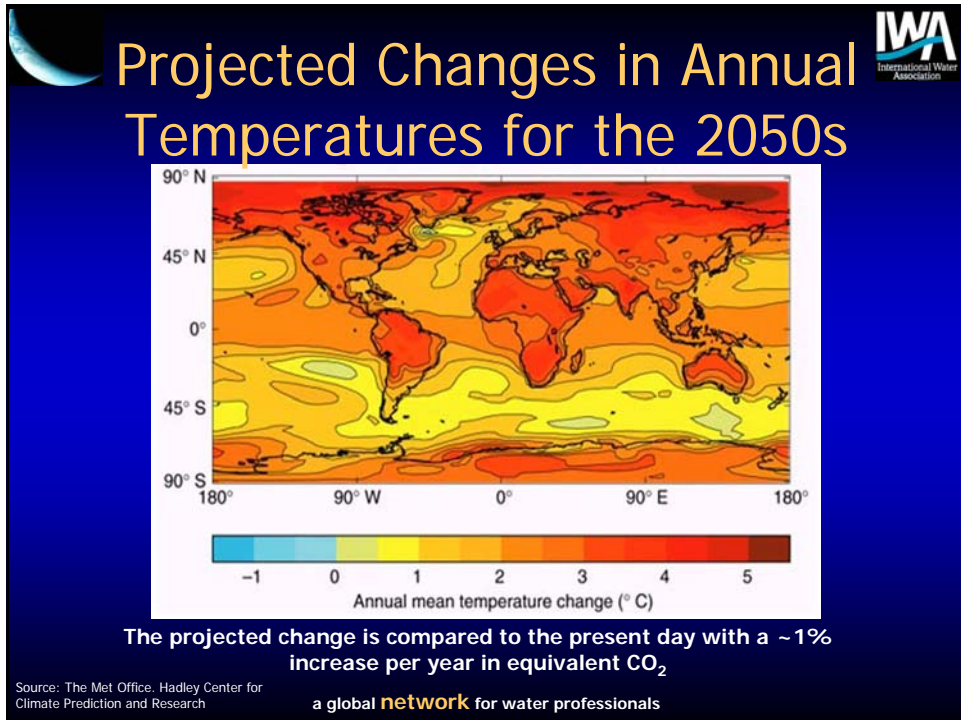
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Solutions through Innovation

- **Problems -> Innovation -> Solutions**
- **Innovation = Collaboration**
- **Collaboration:**
 - Across sectors – urban, industry, agriculture
 - Across professions – science, engineering, economics, policy
 - Across continents
- **IWA is a key platform for this collaboration**

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The global network for water professionals

There is a need for

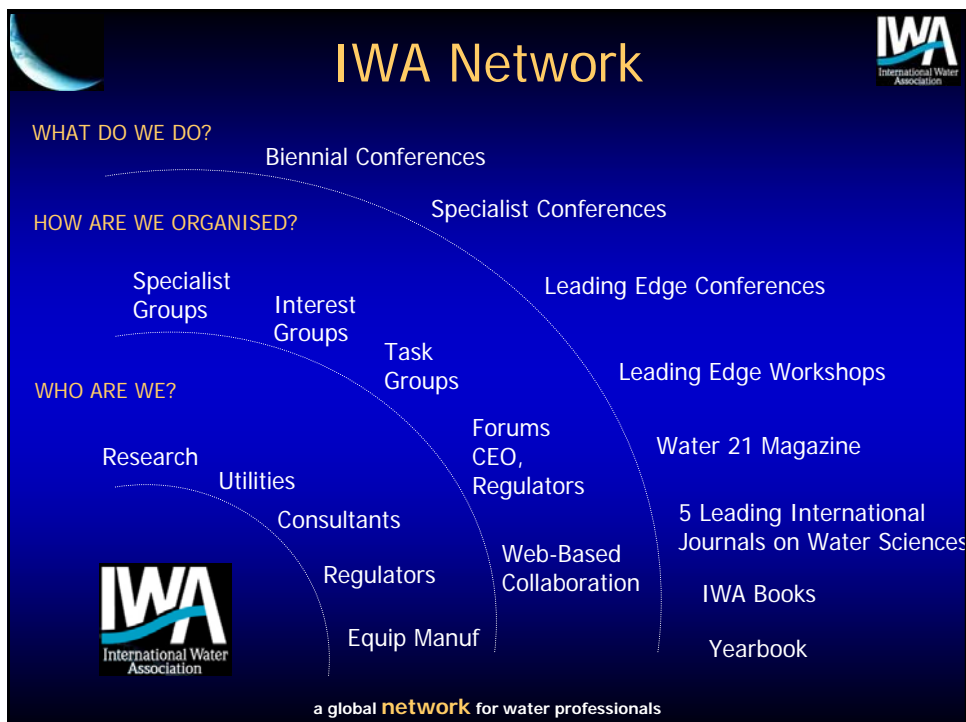
- ☞ Outstanding professionals & their network
- ☞ Innovative solutions & technologies
- ☞ Communication to politicians nationally and globally




IWA - *The Global Network* for Water Professionals

- ~10,000 members in over 120 countries
- **Professions:** Science & research, utilities, consultants, regulators, manufacturers
- **Scope:** All aspects of water management -> water and wastewater
- **Coverage:** Full range of the water cycle
- ***Leading Edge of Science and Practice***

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Meeting Members' Publication Needs

IWA publishing


- IWA publishing provides highly respected information services on all aspects of water, wastewater and related environmental fields





French expansion in Africa


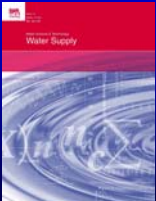
Australia's new quality framework
Debate: CEPT solution for developing countries


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IWA Journals




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Some of IWA Activities

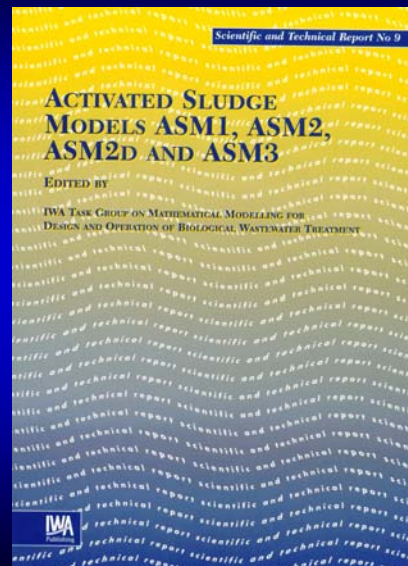
- World Water Congresses
 - Marrakech, September 2004
 - Beijing, Fall, 2006
 - Vienna, 2008
 - Montreal (?), 2010
- Leading Edge Conferences
 - Sustainable Water Management, Sydney, Australia 2004
 - Water Treatment Technology, Sapporo, Japan 2005
 - Asset Management, US, 2006
- Specialty Conferences
 - ~35 Specialist Conferences per Year

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Task Groups

- Lead to Scientific & Technical Reports (since '87: 20 made)
- Recent Task Group reports:
 - Instrumentation, Control & Automation
 - Mechanism and Design of SBRs for Nutrient Removal
- New Task Groups initiated:
 - Benchmarking of Control Systems for WWTP
 - Guidelines for use of Activated Sludge Models



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Benefits of IWA Membership – Staying at the “Leading Edge”

- Opportunity to participate in the IWA global and regional network of leading professionals
- Discounted access to world's leading journals on water science and technology
- Discounted access to IWA events
 - World Congresses, Leading Edge Conferences, 35 Specialty Conferences
- Subscription to IWA's magazine -- Water 21
- Most importantly – opportunity to know and work with the best and brightest (and nicest) people!

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Postscriptum

In the beginning God created the heaven and the earth. And the earth was without form, and void; and darkness was upon the face of the deep.

And the Spirit of God moved upon the face of the waters (Genesis 1:1-2)

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