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# An introduction to: CPWF Challenge Program on Water and Food



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Institute for Water and Watersheds

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CGIAR Challenge Program on  
**WATER & FOOD**

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# Overview

1. The Challenge Program on Water and Food – What we do, why and how
2. Capacity Building activities and goals for the CPWF
3. Opportunities for North American partners



# Water productivity & Agriculture



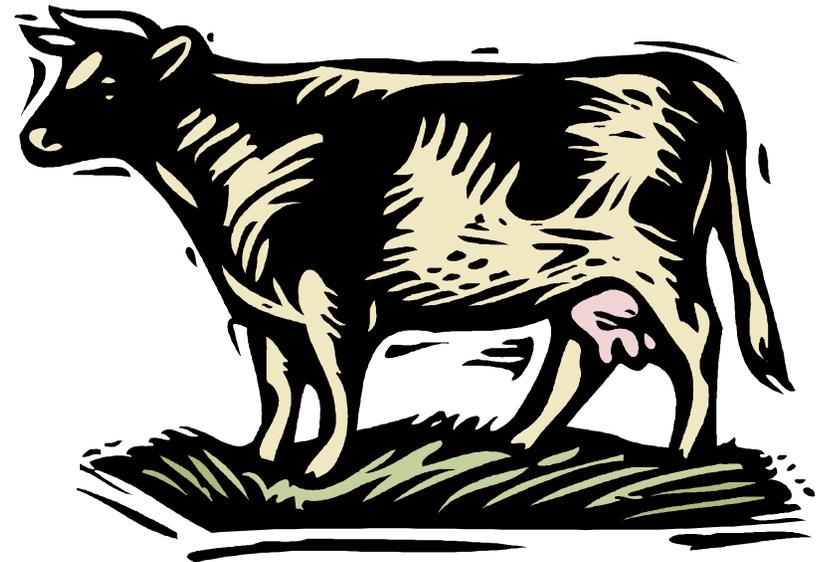
**2 - 5 litres  
daily**



**20 – 500 litres  
daily**



**500–3000 litres  
daily**



**2000 litres – vegetarian diet  
5000 litres – grain fed meat**



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# Water productivity & Poverty

Agricultural activities are main sources of **livelihood for more than 75%** of Africa's rural population



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# Water productivity & Poverty

Fish is source  
of animal protein  
for **1 billion people**  
world wide and  
**56% of world**  
**population derives**  
**20%** or more  
of their  
animal protein  
from fish



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# Water productivity

## & Poverty

In Nile basin **34.5% of agricultural GDP** comes from livestock production valued at **9 038 million USD**

In same region, **61% of the poor** are in mixed rainfed livestock production systems



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# Our task

To change the way we manage  
and develop water

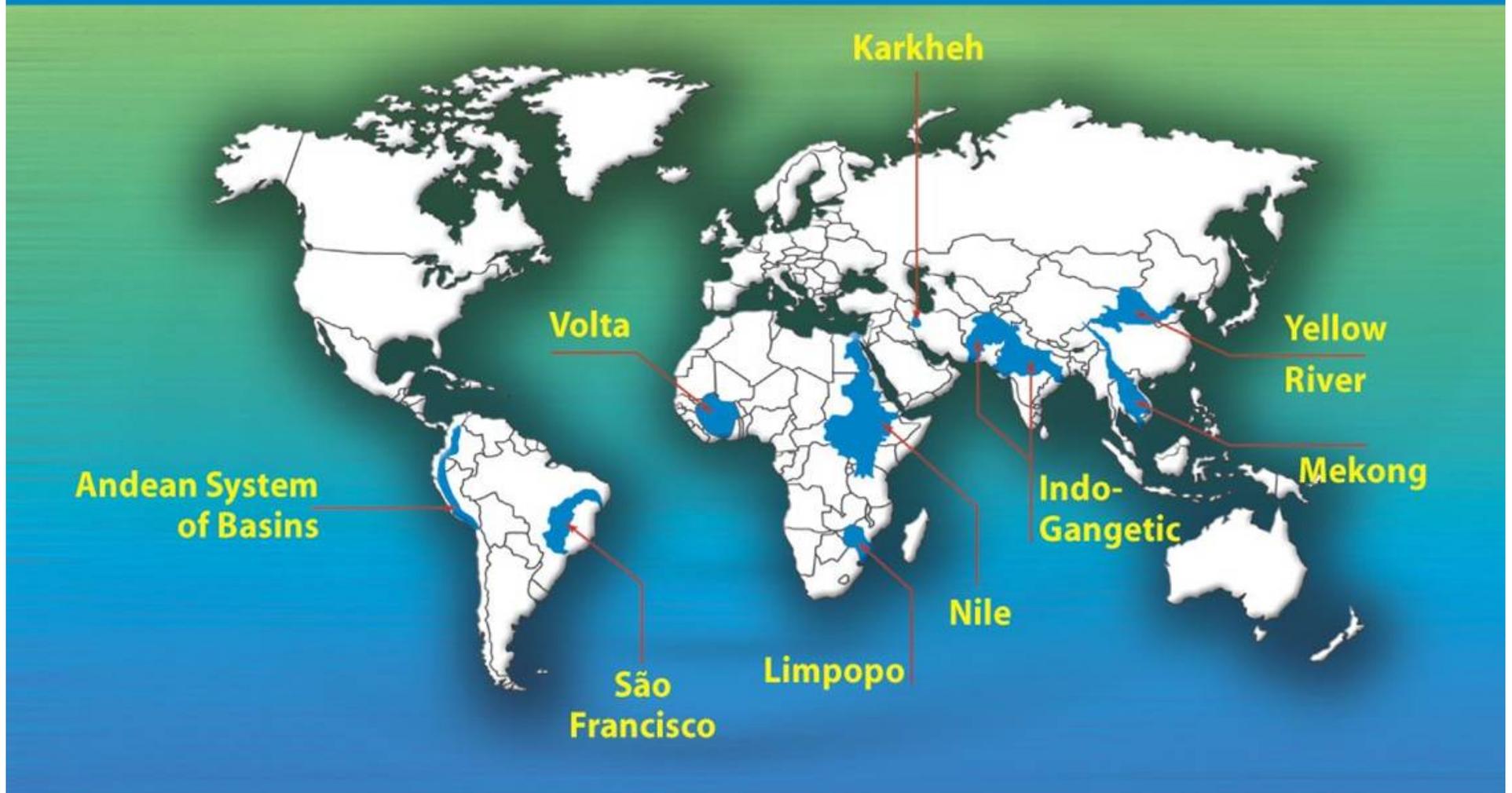
Through:

Integrative Collaborative Research



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# Benchmark river basins



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## CPWF RESEARCH THEMES

Crop Water  
Productivity  
Improvement

Water & People in  
Catchments

Aquatic Ecosystems  
& Fisheries

Integrated Basin Water  
Management

The Global Food & Water  
System



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## Consortium Partners

<p>CGIAR Future Harvest Centers</p>						
<p>Nat'l Agricultural Research and Extension Systems</p>						
<p>Advanced Research Institutes</p>						
<p>International River Basin Organizations</p>						
<p>International NGOs</p>						



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## Present estimates of donor contributions 2003 - 2008

	USD millions
	Present estimate
United Kingdom	17.1
World Bank	15.8
France	6.7
Netherlands	5.4
Switzerland	5.4
European Commission	5.4
Germany	2.7
Norway	2.6
Denmark	2.2
IFAD	0.9
Sweden	0.7
To be raised	0.6
<b>Total</b>	<b>65.5</b>



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## Principal streams of funding 2004-2008

- Competitive research grants (65% of budget)
- Small grants for impact (1.5% of budget)
- Basin focal projects (12% of budget)
- Synthesis research (12% of budget)
- Capacity building for scientists (0.5%, plus what is in projects plus fund-raising)
- **Total budget (first phase) USD 65 -75 million**



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# Capacity Building for Challenge Program on Water & Food: GOAL

Increase the ability of scientists to carry out integrated research on Water and Food with a basin perspective

Linking:

Human and natural systems

Food, Environment, Livelihoods, Institutions

Upstream Downstream

Local to Global



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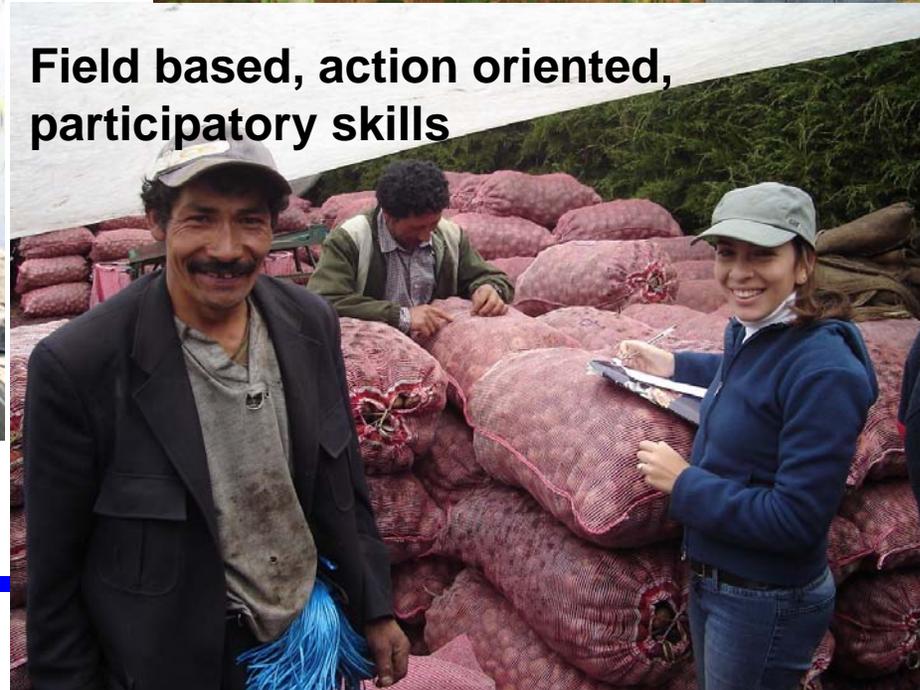
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Scientific Mentorship



Water productivity concepts, tools and methodologies



Field based, action oriented, participatory skills



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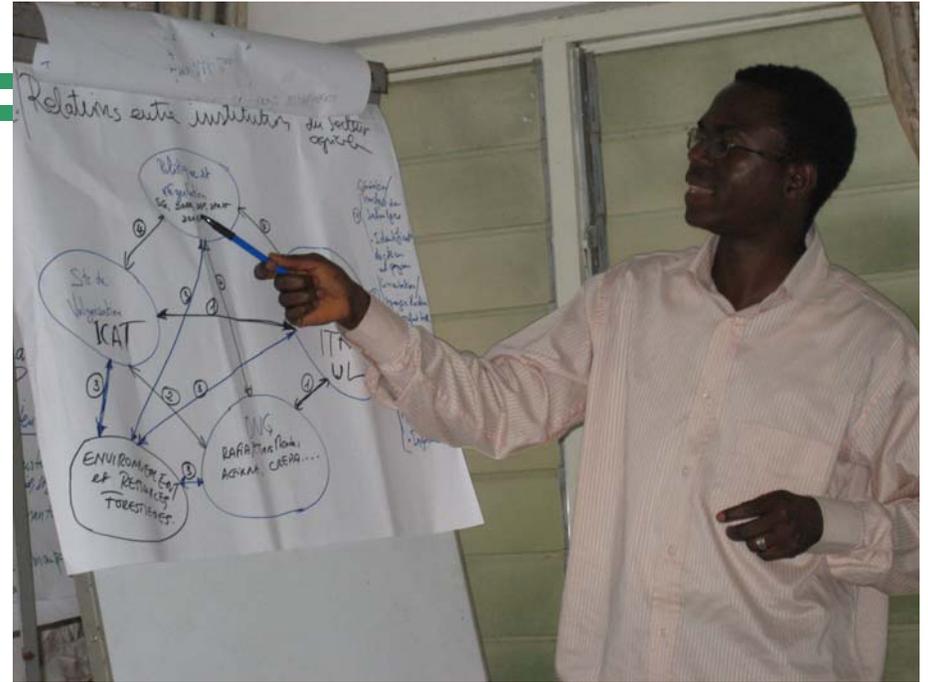
# Future CPWF Capacity Building: Strategy

- Context Relevance
- Application Orientation
- Existing Structures
- Adaptive Management
- Fill training gaps in CPWF research portfolio through demand driven programming implemented by learning institutions in the South and North



# Needs Assessment Seminars

- a. Better communication across stakeholder groups from project inception
- b. Field experience
- c. Assortment of mechanisms
- d. Attention to local needs married with global objectives



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# Future CPWF Capacity Building: **Programming**

## 1. CPWF Research Theme Applied Field Courses

Water Productivity training modules, designed collectively by CG Centers, supporting universities in the North, and implementation partners in the south

## 2. Interdisciplinary “Water and Food” Cohorts

## 3. In-service Training - Internships

## 4. “Advanced” Training Opportunities

Built from research projects as a mechanism to expand impact and bring people from different basins or countries or regions together for specialized training

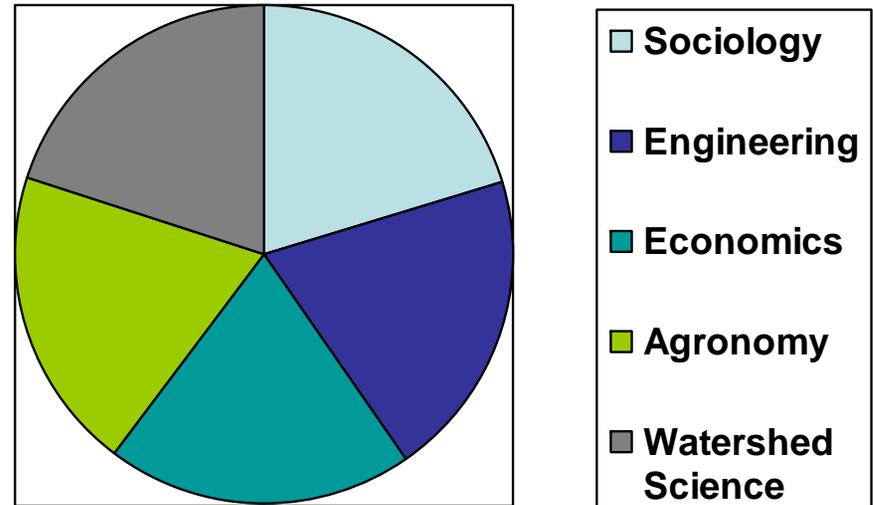


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# Water and Food COHORTS

- Interdisciplinary Post-graduate Degree Program
- Basin focus
- Students enrolled in different degree programs attend the same institution together
- Work on a linked project which corresponds to CP research goals (fall within one or more of the 5 themes)
- Independent or related to existing projects



**Delft Technical College, The Netherlands**

**KNUST, Ghana**

**University of Bonn, Germany**

**EPFL, Switzerland**

[mentor partners]

**CB Goals**

1. International opportunities

**VOLTA BASIN AUTHORITY**  
[mandate]

**CB Goals:**

1. Hydrological information
2. IWRM practitioners
3. Transboundary trust

**2iE, Burkina Faso**  
[cpwf cb host institution]

**CB Goals:**

1. More PhD staff
2. More Anglophone Lectures
3. More Anglophone Students

**SMALL RESERVOIRS PROJECT**  
IWMI – IRD - GLOWA  
[initial training theme]

**CPWF CBO**  
[monitoring & evaluation]

**CB Goals:**

1. More scientists using CPWF approaches
2. Sustained research partnerships
3. X-country and X- project linkages
4. Broadened country and institutional participation



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## CPWF Capacity Building is looking for partners...

1. With an interdisciplinary orientation
2. Interested in international agriculture and poverty reduction in Africa and Southeast Asia
3. Interested in international opportunities for their faculty and others
4. Interested in one or more of our research topics
5. Interested in building long-term partnerships with learning institutions in Africa and Southeast Asia



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# [www.waterandfood.org](http://www.waterandfood.org)

