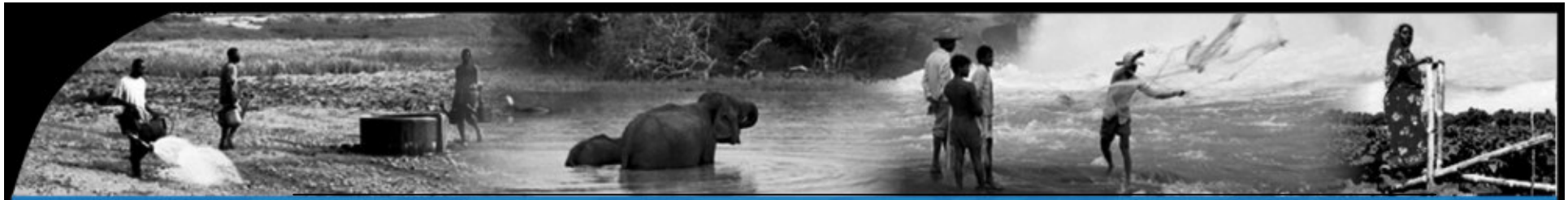

Development and Application of Knowledge Base

Work Package- 6

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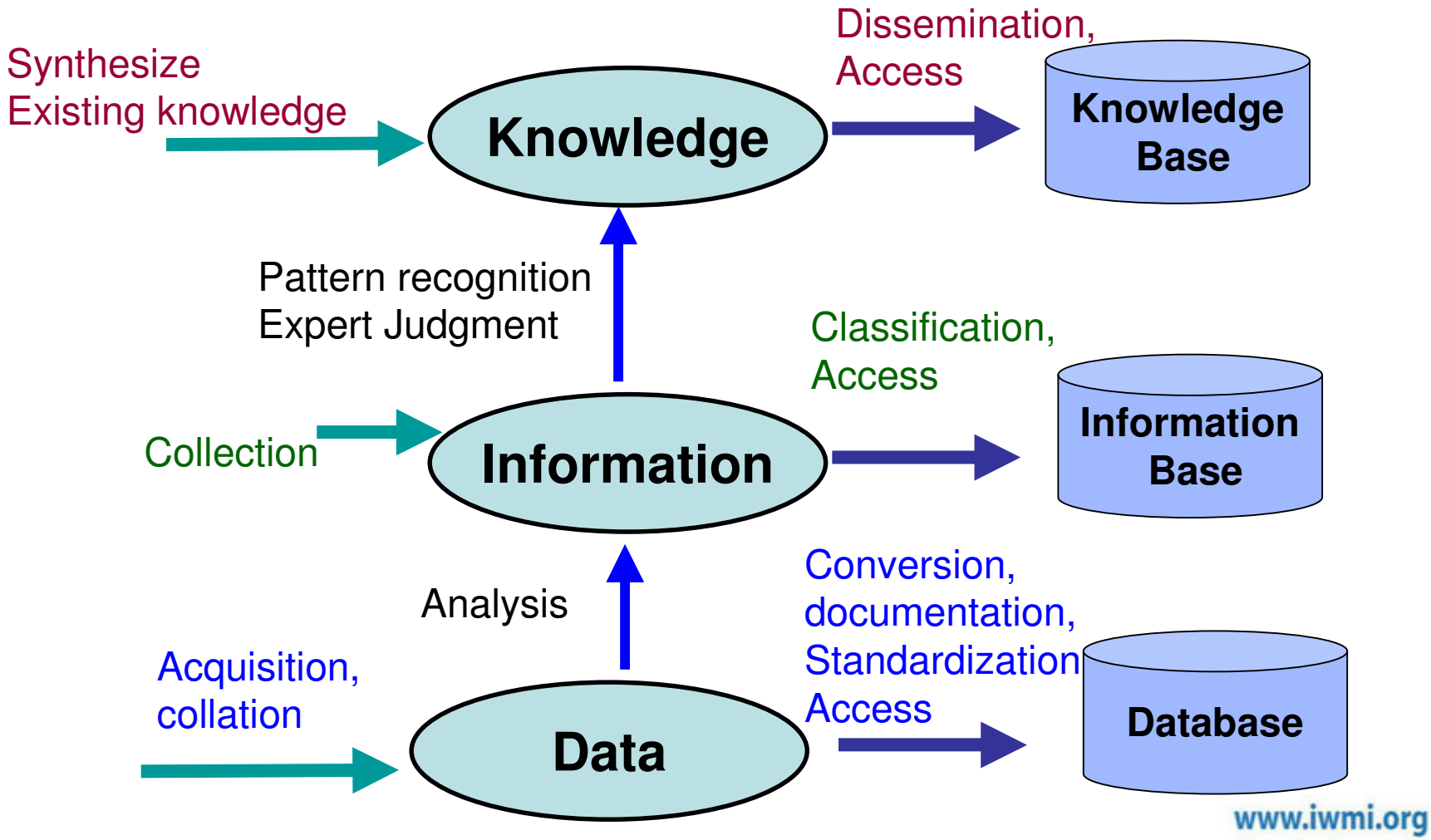
Introduction to WP-6

- Objective
  - The objective of the work package is to systematically acquire, process and disseminate data, information and new knowledge generated in the project to create impact
- Output
  - Repository of data collected from National and other global sources.
  - Database with online access for BFP project team and relevant stakeholders.
  - Web portals to publish project outputs.
  - Seminars, workshops, policy roundtables and publications for dissemination of new knowledge and policy advocacy

Knowledge Management Process



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Knowledge Management Functions

Component	Function
Data Management	**Data acquisition, Collation of spatial data, prepare metadata**
Access to existing knowledge	Knowledge harvesting, Sharing
Knowledge Development	**Investigation, analysis, synthesis**
Application	**Informed Decision making**
Knowledge Dissemination	**Publication, communication, Knowledge portal development**

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Data Management

Database Development and Access

- Data Acquisition
  - Data needs assessment by different work packages of the Project.
  - Inventory of data availability in IWMI and with partners and identify data gaps.
  - Identification of data sources in relevant countries
  - Acquisition of data from sources
- Data Access
  - Data standardization
  - Preparation of metadata
  - Load data into database
  - Web based access to data for researchers

Progress

- Data acquisition
  - District level data to support macro analysis has been done
  - Hydro-meteorological data collected from national sources and from internet
  - GIS and RS data collected from national sources and public domain
  - Sub basin level data collected for two sub basins
- Data access
  - Data have been shared among project team members

Future Plan

- Data access
  - Collection of data to support phase II studies
  - Organizing, documenting and archiving all the data collected
  - Upload data into database
  - Web access to all the data

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Information and Knowledge Management

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Goal

- Share the information and knowledge products as public goods
- Support decision making in the basin regarding natural resources and agriculture management
- Investment decisions by donors and the governments.

Method

- Develop web portals
  - Knowledge portal
  - Decision support portal
  - Map portal
- Dissemination workshop and seminars
- Engage communities

Knowledge Portal

Accumulate and share existing and generated knowledge on Issues

- Issues
  - Water (and land) availability
  - Water productivity
  - Water poverty
  - Prioritized interventions
  - Institutions and policy
- Knowledge type
  - Publications, Reports, Policy Briefs.
  - Case Studies and 'Bright spot' highlights.
  - Reports from Trans-boundary Round tables, conference presentations, media reports.
  - Training materials on tools and methods used in different studies.
  - Policy briefs produced by engaging the Planners, Stakeholders, Civil society Groups

DSS Portal

Organize tools to support investment decision by individuals, development agencies, NGOs, policy makers, donor agencies

- Methods and tools for poverty mapping.
- Water poverty maps for focused targeting of investments.
- Identification of sectors and regions with sub-optimal water productivity.
- Prioritized list and benefit-cost analysis of most-promising and region specific interventions for developing specific programs/ schemes.
- Concept Notes for future Projects by donors

Map Portal

Display spatial distribution and variation

- Maps related to
  - Water poverty
  - Water availability and variation
  - Water productivity and variation

Dissemination workshop and seminars

Ensure wider and targeted dissemination and learning from common experiences

- Focused and thematic workshop
- Conferences
- Policy round tables
- Policy advocacy

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BFP IGB Web Portal

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Background

Through whole/sub-basin basin analysis of hydrology and poverty, coupled with more detailed analysis of livelihood support systems, the Basin Focal project defines specific problems of water and agriculture, the people they affect, and the areas over which they occur. Further analysis identifies potential interventions for reducing poverty and improving productivity and seeks opportunities for impact through research from both existing and future projects and the partners

IGB Basin Facts

The Research Questions

- Quantitative and qualitative understanding of who is poor, why they are poor and experiences of poverty and coping strategies at sub-basin/ basin level.
- What are the inter-linkages between water and other (key) poverty determinants and what are water related options for alleviating poverty in the IGB?
- What is the water supply and water demand/ consumption over space and time in the IG basin and selected sub-basins?
- Understand and map the current status of water productivity in different agricultural systems across the IG basin.
- What are the linkages between water availability, access on water productivity?
- What is the causal relationship between water institutions and policy and their impact on poverty, productivity and environment?
- What are the specific pathways through which water policies and institutions influence water development, allocation and use?
- What are the most potential water and land centric interventions that mitigate poverty and improve livelihoods in different agro-ecological and hydronomic zones in the basin, and the likely impact of the proposed interventions?

Objective

The overall objectives of the Basin Focal Projects are:

- To reduce poverty and improve livelihoods amongst the poorest in the basin, especially those whose poverty is closely linked to a lack of water.
- To improve the overall productivity of water at the basin scale by sustainable use of water resources.
- To create an impact through synthesized and new knowledge developed during the project.

Methods

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IGB Basin Facts

Basin Area: 225 million-ha **Population** (2001): 747 million **Percentage rural**: (2001): India, 74.5; Bangladesh, 79.9; Nepal, 86.0; Pakistan, 68.0 **Mean annual rainfall**: : 1,254 mm **Climate**: Range of arid, semi-arid humid tropical, temperate **Water demand for India**: (2000): 338 billion m3 **Water demand for Bangladesh**: (projected, 2018): 24.4 billion m3 **Water demand for Nepal**: (2000): 14.8 billion m3 **Water demand for Pakistan**: (2001): 95.32 billion m3 **Total net cropped area**: 114 million ha **Percentage of annual water use by sector**: (1995): agriculture, 91.4%; domestic, 7.8%; industry, 0.5%; livestock, 0.3% CPWF Web site

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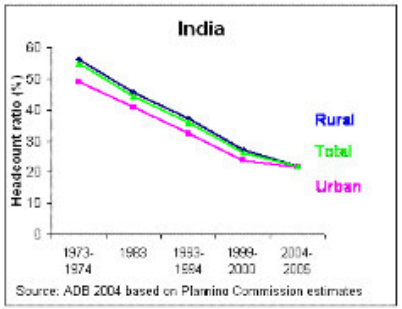
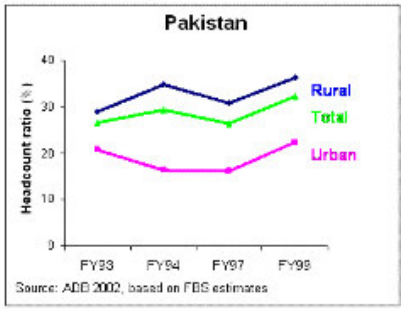
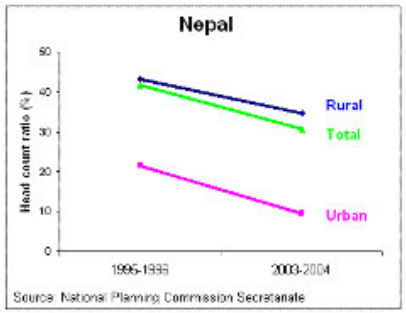
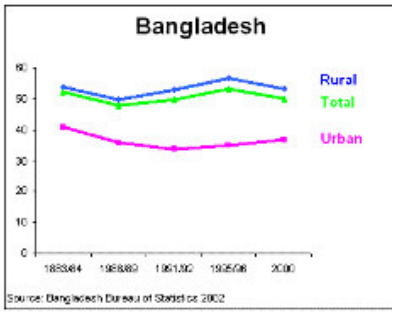
WP1: WATER POVERTY ANALYSIS

Effective and sustainable water-related poverty alleviation initiatives require high resolution sub-national poverty information at a river basin level. This work package will review and analyze the existing poverty and water-poverty information in order to bridge the gap/s between aggregate and specific analyses of poverty; illustrate the links between inter-sectoral uses of water, as well as the links between water and other determinants of poverty.









Rural and urban poverty in IGB Countries

Key Questions in WP-1

- Who are the poor and where are they located?
  - Poverty is multi-dimensional
  - Much has been done in different countries
  - But, need to find sub-national estimates/ poverty maps
- Dynamics of spatial and temporal variation of poverty?
  - How does Availability, Access and Quality of Water in conjunction with other assets (Land, wealth, skills, demographic and environmental trends, and access to other basic needs) contribute to productive agriculture or non-agriculture economic activities
- To what extent can increase access to water supply or better water management contribute to poverty alleviation in IGB?
  - What pro-poor agricultural water management interventions can help in IGB?
- Agrarian transformation in IGB with a special focus on water-land-gender-poverty relationship
  - How does land tenure, women empowerment, production systems, supporting systems and other rural institutions change in IGB
  - How these changes impacted incidence of poverty IGB?

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WP2: WATER AVAILABILITY AND ACCESS ANALYSIS

In this work package, water supply and water demand, will be quantified over space and time. The water supply side incorporates the distribution of water resources as well as a more detailed analysis of the primary physical components of the hydrologic cycle inclusive of atmospheric, surface and subsurface processes. The demand side incorporates water use and abstractions from multiple uses i.e. agriculture, irrigation, aquaculture, industry, domestic/urban use and hydropower. Thus providing a holistic basis to look at effective water management at the basin level.

There will be two levels of analysis

- Basin scale analysis will be based on synthesis and analysis of available secondary information
- Sub basin scale analysis will focus on 4 small sub-basins in different countries on the following issues:
  - Detailed water accounting and water balance analysis will be performed for all canal commands/sub-catchment
  - Understanding of hydrological/catchment characteristics and flow variability using appropriate hydrological tools/models
  - Assessment of environmental flow requirement
  - Water management scenario and recommendation for water reallocations

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WP3: WATER PRODUCTIVITY ANALYSIS

Under this work package, the main agricultural production systems in the basin will be determined including the dominant rice-wheat system, and other cereals, pulses, oilseeds, vegetables and fruit based systems usnig GIS, remote sensing and secondary national statistics. Analysis will also include those based on multiple uses of water and multi-enterprise farming systems involving crops, horticulture, livestock and fisheries, which are growing in importance. These systems will be ranked based on their area and associated dependent rural population.

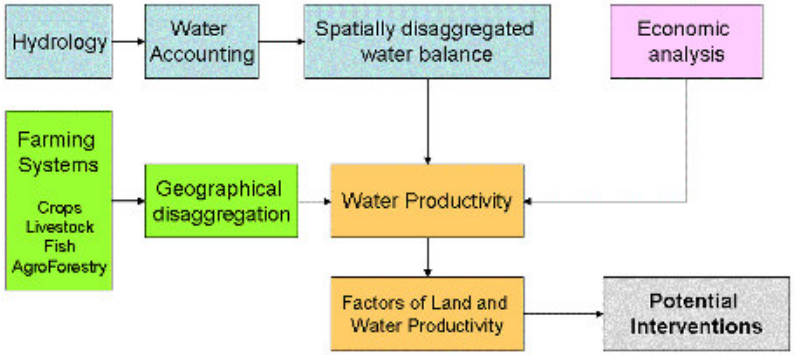

Figure 1: Water Productivity Analysis Approaches

Water productivity analysis is dependent on multiple indicators :

- A- Land Productivity
  - Land productivity or Yield (kg/ha)
  - Land Economic Productivity (GVP or GM)($/ha)
- B- Water Productivity
  - Physical WP (relative to I+R, I, ET and T) kg/m3
  - Economic Water Productivity:
    - Standardised $ WP (relative to I+R, I, ET and T) $/m3
    - GVP or Gross margin (relative to I+R, I, ET and T)$/m3
  - C- Water Balance Analysis

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WP4: INSTITUTIONAL ANALYSIS

This work pakcage will aim to provide an overview of water institution and policy issues in IGB's basin states through literature review undertaken at four levels: *Literature review on water and society; Generic literature on water institutions;Literature on region-specific water institutions; Literature on Informal Institutions*

Key Issues in WP-4

- What are the existing water and agriculture policies/institutions in IGB countries and their evolution?
- Pro-poor Agriculture Water Management (AWM) strategies.
- Energy irrigation nexus
- Culture fisheries
- Transboundary issue

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WP5: INTERVENTION ANALYSIS

This work package will gather and critically review the pertinent information on relevant interventions including determining the nature, location, sucess, adoption process, replicability and relationship to water resources. Literature review will include a review of experiences on relevant interventions and their implementation process. The review output of the interventions will relate to the broad agro-ecological zones and sub-basins, also considering the relative water availability, the social and institutional context, and drawing on the information already available and gathered in the other work packages.

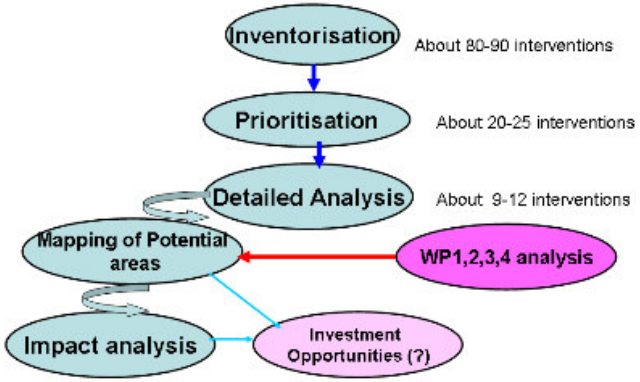

Figure: Intervention Analysis Process

Interventions categorization

- Scale of Intervention
  - Individual/ Household (Agronomic based, highly divisible, low fixed cost)
  - Community (Requiring collective action for adoption, high fixed cost)
  - Sub-watershed/ Watershed (Requiring institutional support, policies)
  - Part or whole of Command Area
  - Sub-basin and Basin
- Agro- Ecoregion / Regional Specificity
  - Upper Catchments (Himalayan zone)
  - Western Indo-Gangetic Plains
  - Eastern Indo-Gangetic Plains
  - Pakistan/ India/ Nepal/ Bangladesh specific
- Nature of Interventions
  - Physical based

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WP6:KNOWLEDGE BASE/SHARING

The objective of the work package is to systematically acquire, process and disseminate data, information and new knowledge generated in the project. Outputs include: *Online dataabse of collected data; Web portal to publish project outputs; Seminars, workshops, policy roundtables and publications for knowledge dissemination and policy advocacy.*

Knowledge Management Functions

Component	Function
Data management	Data acquisition, Collation of spatial data, prepare metadata
Access to Existing Knowledge	Knowledge harvesting, Sharing
Knowledge Development	Investigation, analysis, synthesis
Application	Informed Decision making
Knowledge Dissemination	Publication, communication, Knowledge portal development

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To view data availability for basin click on the basin name below :

IndoGanges

To view data availability for category click on the category below :

Agriculture Climate Land use and Soil Socio economic

Online data

Country/Basin: All | Category: All | Sub Category: All

Basin/Country	Category	DataSet	Metadata
IndoGanges	Water	Daily Discharge - Bangladesh(1965-1975 & 1990-2001)	View
IndoGanges	Climate	Rainfall - Bangladesh(1965-1975 & 1990-2001)	View
IndoGanges	Climate	Sunshine Hours - Bangladesh(1965-1975 & 1990-2001)	View
IndoGanges	Climate	Temperature Data - Bangladesh(1965-1975 & 1990-2001)	View
IndoGanges	Climate	Wind Speed - Bangladesh(1965-1975 & 1990-2001)	View

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Basin/Country	Category	DataSet	Detail	Metadata
India	Agriculture	Area yield and production of other cereal-kharif by district	Data	View
India	Agriculture	Area yield and production of other cereal-kharif by state	Data	View
India	Agriculture	Area, yield and production of oil seed by district	Data	View
India	Agriculture	Area, yield and production of oil seed by state	Data	View
India	Agriculture	Area, yield and production of other cereal - rabi by district	Data	View
India	Agriculture	Area, yield and production of other cereal - rabi by state	Data	View
India	Agriculture	Area, yield and production of pulses by district	Data	View
India	Agriculture	Area, yield and production of pulses by state	Data	View
India	Agriculture	Area, yield and production of rice by district and season	Data	View
India	Agriculture	Area, yield and production of rice by state	Data	View
India	Agriculture	Area, yield and production of tobacco and sugercane by district and season	Data	View
India	Agriculture	Area, yield and production of tobacco and sugercane by state	Data	View
India	Agriculture	Area, yield and production of vegetables by districts	Data	View
India	Agriculture	Area, yield and production of vegetables by state	Data	View
India	Agriculture	Area, yield and production of wheat by districts	Data	View
India	Agriculture	Area, yield and production of wheat by state	Data	View
India	Land use and Soil	District wise area under different landuse	Data	View
India	Agriculture	District wise fertilizer consumption	Data	View
India	Agriculture	District wise gross and net irrigated area by sources	Data	View
India	Agriculture	Number of tractors and pumpsets by districts	Data	View
India	Agriculture	Number of tractors and pumpsets by state	Data	View
India	Land use and Soil	State wise area under different landuse	Data	View
India	Agriculture	State wise fertilizer consumption	Data	View
India	Agriculture	State wise gross and net irrigated area by sources	Data	View

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- Sub optimal water productivity identification
- Analysis of interventions
- Targeting investment
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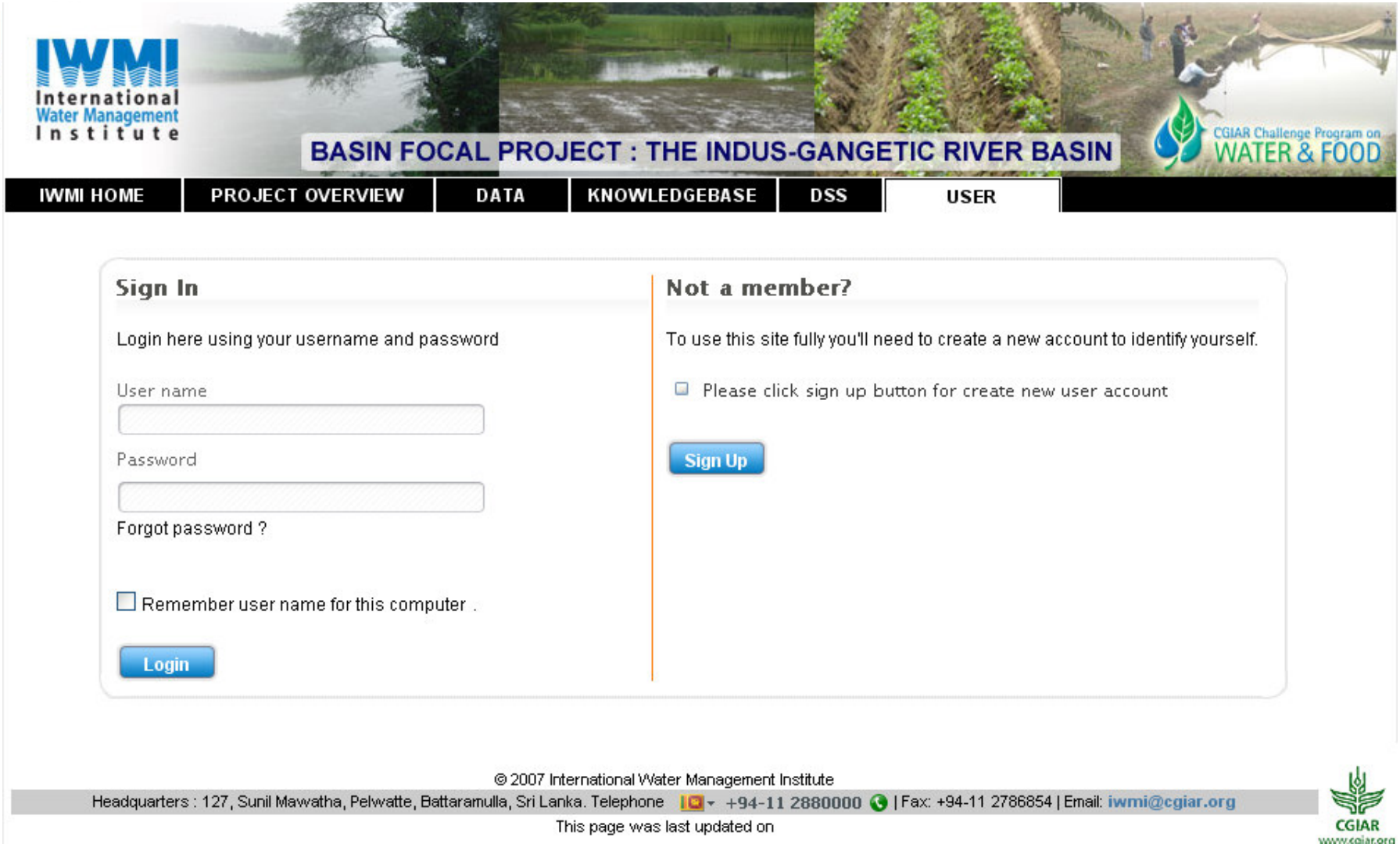

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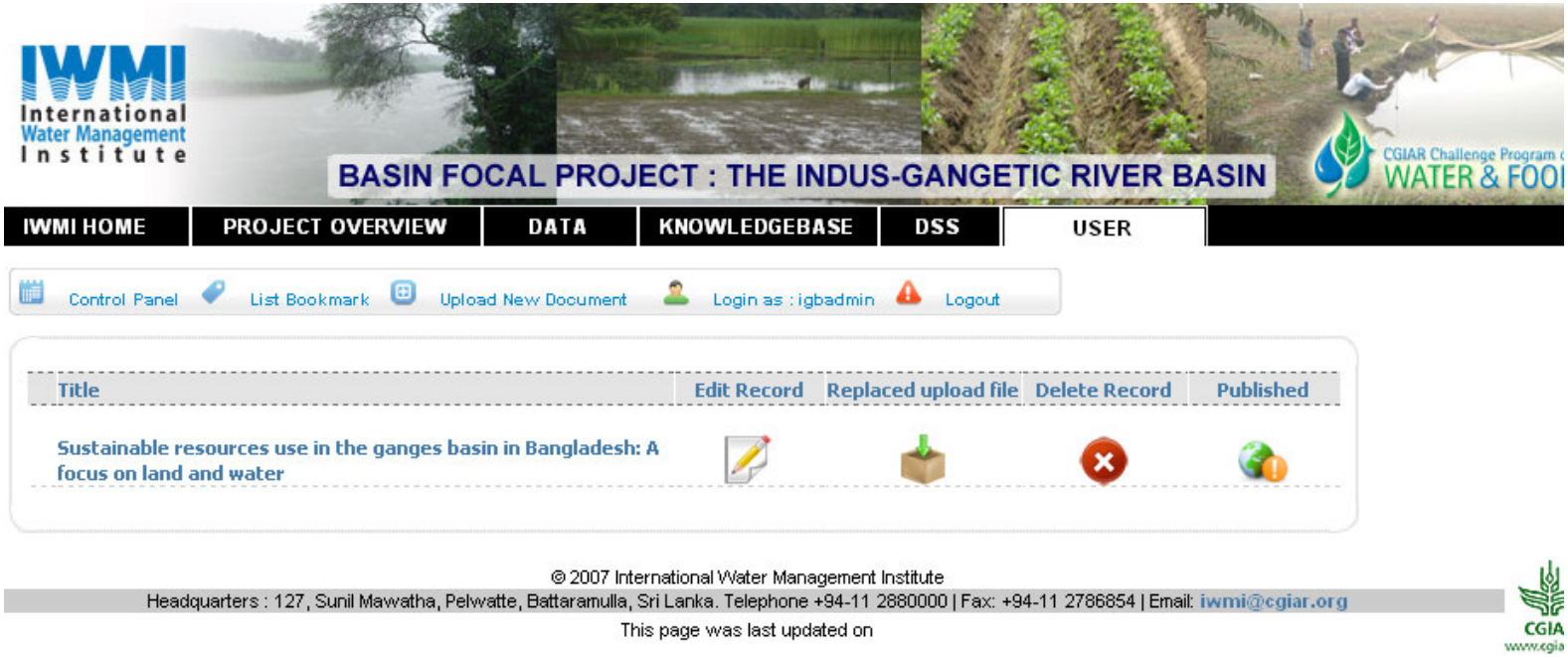

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Water use and **productivity** in a river basin**Water productivity** is defined as the ratio of the net benefits from **crop**, **... productivity** analysis can be applied to **crops**, **... Crop water productivity** basics **...iwmi.cgiar.org**/assessment/**...** /Chapter 7 **Water Productivity**.pdf

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untitled**...** high value **crops** to increase **productivity** of irrigation **water**. **...** and **crop** yield per unit area as measures of **productivity** of **water** diverted for irrigation. **...iwmi.cgiar.org**/Assessment/files_new/**...**/Sokoine_Literature Report.pdf

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10 Years of IWMI Research - An Overview3. **Crop water productivity**: Rather than focusing on the **... crop water productivity** (**crop** per drop) **... Water productivity** is a ratio between **crop** output and **...iwmi.cgiar.org**/About_IWMI/**...**/2004_2005 /images/areports/Section 3.pdf

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Conservation Agriculture:**...** degradation and that its advantage **in** terms of **crop productivity** may accrue only **... water** application and increased **water productivity** resulting **in** large **...**www.**agricasa.org.in**/CASA Conf Rep.pdf

Perspectives of soil fertility management with a focus on fertilizer **...**focus on fertilizer use for **crop productivity**. Sankaram Ayala* and E. V. S. Prakasa Rao **...** (which differ **in** soil, **water**, temperature, altitude, slope, **...**www.**ias.ac.in**/currsci/apr102002/797.pdf

2. Soil and **Water Productivity**Crop diversification also reduced. irrigation **water** requirement by 70–75 **...** conventional transplanted **crop**. **In** SRI, only 1,571 litres **water** was required to **...**www.**icar.org.in**/anrep/200708/Soil & **Water Productivity**.pdf

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Natural Resource Management**In** tubewell commands, the **crop water productivity** for applied **... Crop water productivity** alone does not depict actual use of. **water in** the command. **...**www.**icar.org.in**/anrep/200607/03-NRM.pdf

CENTRAL SOIL SALINITY RESEARCH INSTITUTE KARNAL – 132 001 (INDIA)management interventions that would help **in** optimizing **water**. **productivity in** the region. **... In** the rice **crop**, the effect of canal **water** use was still **...cssri.nic.in**/papers/SynthesisPpr-1-NEW.pdf

Report on the "Role of education **in** addressing Livestock, Environment **...In** case three, the **Crop-Water Productivity** across farming systems was studied **in ...** 2.1 Search and select **crops** with high **water productivity ...intercooperation.org.in/...**/Workshops/TIBILI_30_CONFERENCE_REPORT.pdf

Geospatial Research **in** Agriculture**... crop productivity** per unit land per unit applied **water** with equity **in** distribution. **... in** relation to **crop** production chickpea **productivity** and stability **...**www.**gris.net.in**/ag.htm

Crop Diversification and **Water** Resource Management More **Crops** per Drop **...**Sensitization and motivation of farmers to shift to alternative **crops in water ...** achieved through increase **in productivity** and bridging the yield gap. **...**www.**tn.gov.in**/spc/workshop/agri_diversification_wrm.pdf

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Future Plan

- Upload all project outputs in the portal
- Collaboratively create a knowledgebase on IGB basin
- Include DSS tools in the portal
- Create a knowledge network through participation

International Water Management Institute

Thank you

Questions Comments?