Data Archival and Access through Water Data Portal



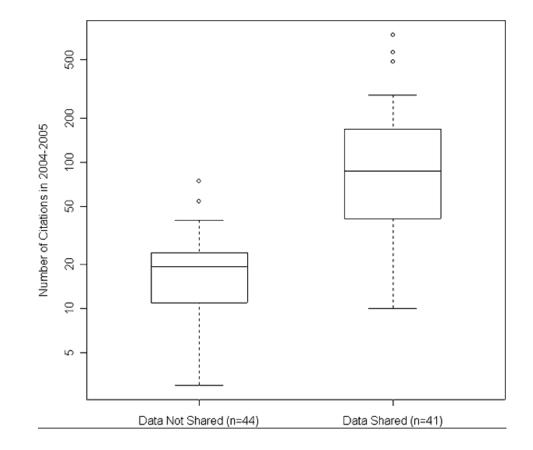
International Water Management Institute (IWMI)

Inception Workshop Turning Tragedy into Opportunity: Water Management Solutions for Flood Recession and Dry Season Farming in Nigeria

Abuja, Nigeria – 9th July 2014



Importance of Data Sharing



Source: Piwowar HA, Day RS, Fridsma DB (2007) Sharing Detailed Research Data Is Associated with Increased Citation Rate. PLoS ONE 2(3): e308. doi:10.1371/journal.pone.0000308



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Usual Scenario

on System 🔮 WATER & FOOD

- Large amount of data
 - individual computer or network storage devices
 - in the HQ and regional offices
- Data disseminated through various data portals:
 - Integrated Data and Information System (IDIS)
 - Remote Sensing Data Storehouse (IWMI DSP
 - Global irrigated area map
 - IWMI global wetland database
 - South West Asia drought monitor
 - Drought Information System
 - Water and Climate Atlas and others



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Scenario

- Staff Leaving/Projects closing
- No Backup of the data
- Data Duplication/Redundancy
- Limited Access
- Limited knowledge of where about of the Data







Requirement

- An integrated repository providing a one stop access to all data stored in IWMI's archive
- Access to data is provided in compliance with copyrights, intellectual property rights and data agreements







Water Data Portal

WATER DATA PORTAL Integrated poral for IWMI research data				
Home	About	Search	User	
	Welcome Welcome to the WaterData, an Integrated portal pr stored in IWMI's archive. It also provides access to IWMIDSP (http://www.lwmidsp.org). While providing agriculture related data, the system also supports projects. Access to data is provided in compliance rights and data agreements. As a User your access of limited to what you are authorized to use. Please wdata@lwml.org	o data In IDIS (http://dw.lwml.org) and access to large amount of water and data management In IWMI's research e with copyrights, Intellectual property to data stored In WaterData Is therefore	Login User Name SSiddiqui Password ••••••• Remember me Login	
Usage Meter Member Total: 1020 There are 0 registered	Descrit Contribution		Dee Fred	
members and 1 guests viewing the site.	Recent Contributors IWMIDSP(787) T. A. Boden, Russ Vose(216) Dr. Mats Lannerstad(34)		RSS Feed	
Disclaimer	 Dr. Mobin Ahmad(31) 	rdinator(33)		



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Data Sets

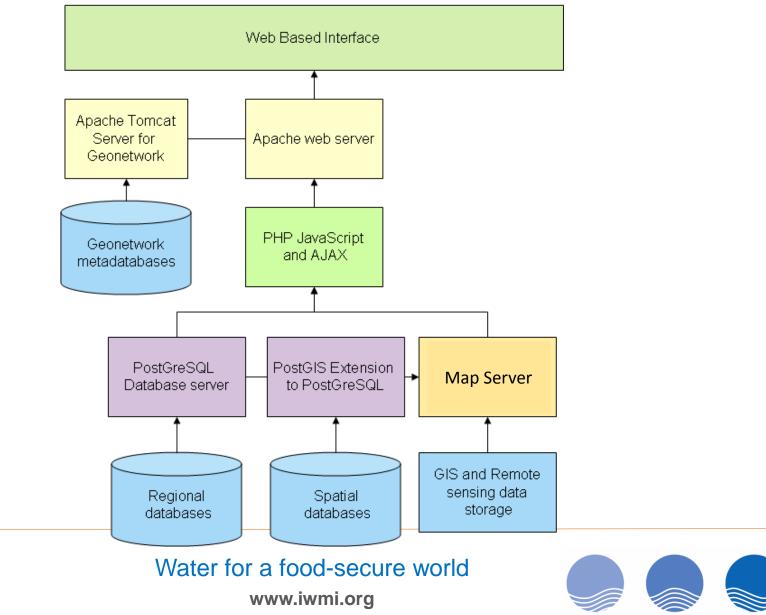
- Water Data Portal stores all datasets from earlier data portal (e.g. IDIS, IWMIDSP, etc.) as single data repository.
- Provide flexible access to Basin kits
- Information on Model Setups
- Integrated interface to share project data and submit data at project closure







Architecture





Data Access

- Enhanced feature to access all IWMI and project data
- The search features provide keyword search as well as spatial search for the whole repository
- Built-in Filter provide information on number of available dataset in different category







User/Access Management

- Levels of users
 - General Users
 - IWMI Users
 - Project
- Data managed at different levels
 - Country
 - Basin
 - Project



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User/Access Management

Completely	Public with	Files	Files
Public	Registration	Restricted	Restricted
All users can access metadata and download files	All users can access metadata but need agree to license/terms of use to download files	All users can access metadata, but files are only available to IWMI Users	Only Project team can access metadata and files. This means that the data can not even be found by searching for non-authorized users.



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Access Control

- Users can set up access privileges
- Administrator/Project Leader control on publishing dataset after checking the quality
- IWMI user can login with their network credentials to access the system
- Metadata could be viewed without login







User Interaction

- WDP maintains single style on presenting datasets throughout the system.
- Number of expected records (hits) are displayed against each filter-value.
- Users can do comment on datasets.
- Users can bookmark datasets. (for future references)
- Users can share useful web links.
- Most recent uploads in home page
- Contributors list in the home page
- RSS feed to publish in other web site





Access Issues

- A Dedicated Server
 - 16mb bandwidth
 - 68TB of storage space



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DEMO

Water Data Portal http://waterdata.iwmi.org



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Thank you!

URL - <u>http://waterdata.iwmi.org</u> Email - <u>s.siddiqui@cgiar.org</u> <u>n.yapa@cgiar.org</u>



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Questions





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