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Presentation Structure



I. Introduction

- A. Background
- B. Context
- **II. The Sahel Groundwater Initiative**
- A. Background
- B. Findings
- 1. Identifying Strategies to Improve Women's Access to Irrigation
- 2. Developing a Cadre of Female Hydrogeologists
- 3. Ensuring that gender is mainstreamed throughout the project



Background: Setting the Stage

Cooperation In International Waters in Africa (CIWA)



- A World Bank Multi-Donor Trust Fund with support from the Netherlands, Sweden, the UK and the European Union
- <u>CIWA's objective</u>: to strengthen cooperative water resources management and development to enable sustainable, climate-resilient economic growth in the region.
- Brings together national governments, regional organizations, international organizations, and civil society to ensure that stakeholders' concerns are addressed and resulting benefits are equitably distributed.

Let's be clear what "gender" is and is not



"Gender" is

About both women, girls, men and boys – the different things that women and men think and do, and the relationships between them



- "Gender" is not
- Only about women and girls
- Only women's responsibility
- > A Western or foreign concept
- An attempt to take away the rights of men and boys
- Only an issue for gender specialists
- About men and women as being homogeneous



CIWA is aiming for Gender Transformation

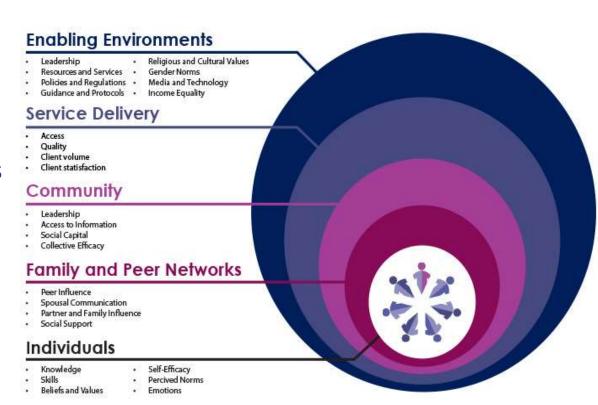




Adopting a Transformative Approach



- Requires a holistic and systemic approach
- Must address and reverse the deeprooted patriarchal norms and attitudes around gender
- Must occur at multiple levels, across multiple sectors, multiple times
- Should ensure sustainability of interventions
- Empowers women and men in multiple roles: reproductive, productive, community/political engagement



The Gender and Inclusion Continuum Framework



Source: Framework developed by DFID-funded Infrastructure and Cities for Economic Development (ICED) Facility

From Equality to Transformation



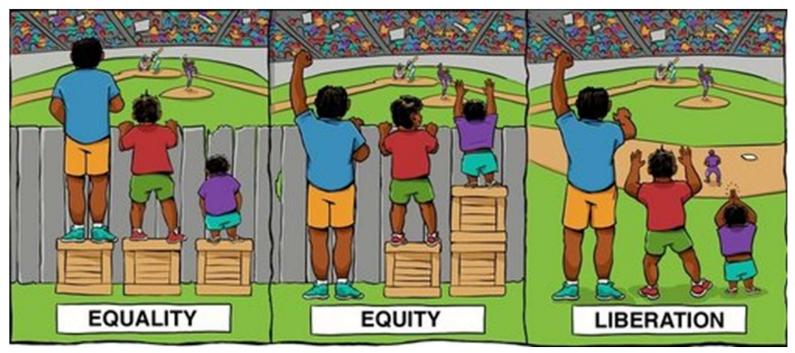


Image source: Center for Story-based Strategy

Ensuring women and girls can access the mainstream



Transformation is about reversing the socio-cultural norms and attitudes that prevent women and girls from having access, voice and agency





GESI Obstacles in the water sector



- Water is a male-dominated sector
- Governance structures do not accommodate women
- Socio-cultural barriers women face in WRM
- Stereotyping women as resource users
- Water ministries tend to be led by men
- Failure to move from commitment to implementation
- Lack of capacity and awareness at multiple levels
- Failure to allocate adequate resources to gender at the project and program level

There has
been limited
progress
addressing
GESI in the
water context



Context

Context: The Sahel



- One of the poorest regions: violence, food insecurity & extremism
- A climate change hotspot: a sustainable water resource is key
- Groundwater is an untapped resource: potable water, irrigation
- Most of the groundwater resources are transboundary
- Groundwater research in the Sahel has been extremely limited, and much of this research has been driven by overseas organizations
- Lack of knowledge re: groundwater availability, issues regarding groundwater accessibility, lack of local groundwater expertise.

Gender in the Sahel



- World's most unequal regions with strong patriarchal values
- High illiteracy, high rates of child marriage, high fertility rates
- Discriminatory social institutions covering formal and informal laws, social norms and practices continue to exclude women
- The few regional groundwater experts are predominantly male
- The lack of female role models in STEM and Water Resource Management
- Women face barriers to accessing irrigation technology



in Burkina Faso, Chad, Mali, Mauritania, Niger & Senegal



The Sahel Groundwater Initiative



 Transboundary cooperation on groundwater management in the Western Sahel (Burkina Faso, Chad, Mali, Mauritania, Niger, Senegal)

Three Components:

- 1. Remove the constraints and limitations to the use of groundwater for small-scale irrigation
- 2. Assess Opportunities for Development of Groundwater Resources in the Sahel
- 3. Inform a Strengthened Sahelian Groundwater Expertise: Male and Female

Methodology: Integrating a Gender Lens



- Review of documents on gender in the Sahel, gender and agriculture/irrigation, on STEM programs,
- Semi-structured interviews with regional and local institutions as well as individuals involved in gender
- Identification of women to serve on an Advisory Committee
- Provided technical support and review of work by local consultants conducting research in two areas: 1) barriers and opportunities to engage local hydrogeologists; 2) barriers and opportunities to ensure women's access to irrigation technology in the Sahel

Sahel Groundwater Initiative: Understanding and Applying the Gender Dimensions



Understanding & Analysis: Concept Note (CN) Phase

- Understanding "gender" within the Sahel context: link to three areas
- Brainstorming with Project Team to identify opportunities
- Integration of gender and social inclusion references in Concept Note

Practice – planning & implementation

- Applying findings from secondary literature review and stakeholder engagement to Inception Note
- Identifying methodologies to increase # of local female hydrogeologists e.g. STEM
- Linking project with strategic gender goals and opportunities e.g. irrigation,

Linking contextual understanding to practical applications at planning and implementation phase



Findings:

Gender and Irrigation

Findings: Challenges & Recommendations



Gender and Access to Irrigation: Findings



- 60-80% of farm labor is female but often unpaid: high rates of poverty
- When crops become profitable, men take over
- Women rarely own land: a major obstacle to accessing irrigation
- Women choose basic technologies: lack of funds & technical expertise
- Lack of access to information and help to maintain the technology
- Limited access to credit and insurance: connected to land ownership
- Heavy work burden at the household level: difficult to earn funds
- Women are excluded from decision-making processes

Recommendations: Inclusive technologies for irrigation

- Build gender capacity of relevant stakeholders
- Undertake studies on the gender context
- Introduce technologies and processes that link to women's capacity to access technologies
- Consider locally-available and affordable alternatives that are accessible to women
- Ensure allocation of land and resources that enables women to generate sufficient profit
- Facilitate women's participation and leadership in irrigation processes





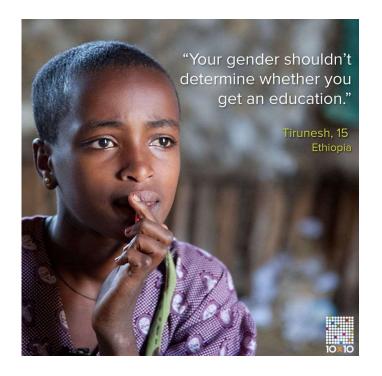
Leveraging regional and international commitments



Child marriage



Girl's Education



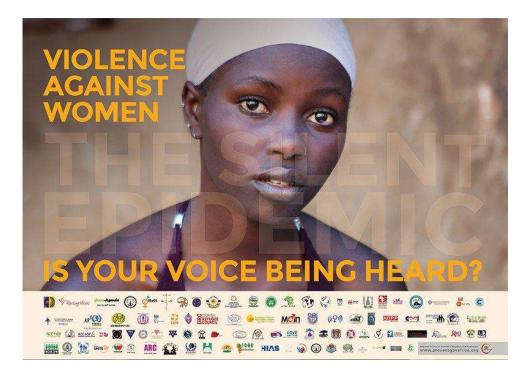
Building upon African GESI Campaigns and Programs



Female Genital cutting



Gender Based Violence



Integrating Gender throughout the Project Life Cycle



Knowledge sharing on gender-related findings

Tracking project progress against gender sensitive indicators

Collecting disaggregated qualitative & qualitative data

Monitoring and Evaluation

Gender expertise Adequate budget

Project planning

Engage women and girls in planning processes

Gender-specific interventions / capacity strengthening

Involve men and boys in key project activities

Implementation

Planning based on gender analysis and available data

Develop a logical framework that is responsive to identified gender inequalities

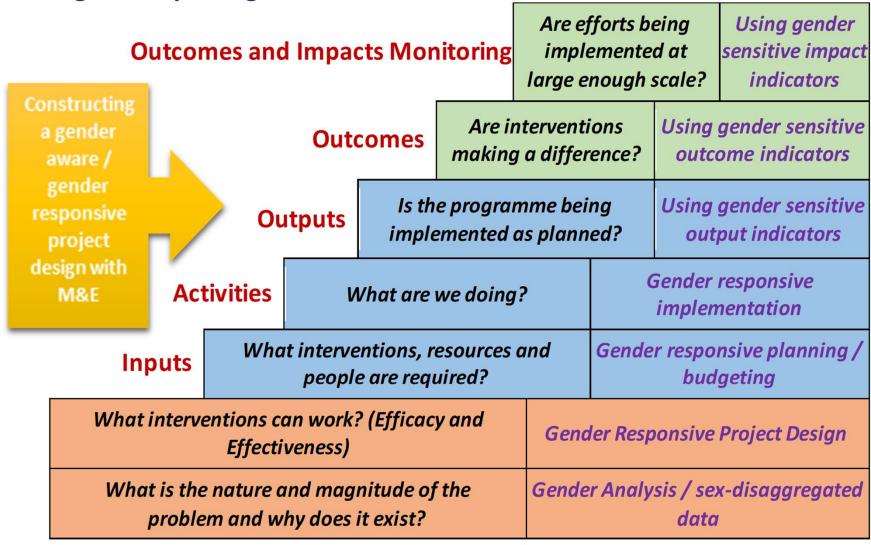
Analysis

Problem
Identification /
Need assessment

Identifying project-related gender inequalities

Using available sex-disaggregated data for project evidence base

Incorporating and Reporting Gender into M & E





Female Hydrogeologists

Challenges to women's educational pathway in groundwater science

 <u>Education challenges</u>: poor indicators in women's education, high drop-out rates, low literacy rates for women

 STEM studies: Girls are discouraged from studying STEM subjects: gender stereotypes, no role models, male teachers, parent bias

 Workforce challenges: discrimination, sexual harassment, lower pay and promotions



Gender equality in groundwater science

Target the education system

Extracurricular STEM activities

Role models and mentors

Identify Male & Female Champions

Awareness-raising of men & girls

Scholarships and partnerships





Thank-you! Merci!

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