

A Framework for
Creating and Sustaining
Diverse Water
Institutions in the
Danube

Sarah Keener, Global Thematic Lead Social Inclusi World Bank, June 1st, 2023



EQUAL AQUA | Strategic partnerships



Equal Aqua, a global Partnership Platform for Inclusive Water Institutions, to advance the efforts to close gender gaps in **employment** in water writ large.

www.worldbank.org/equalaqua











































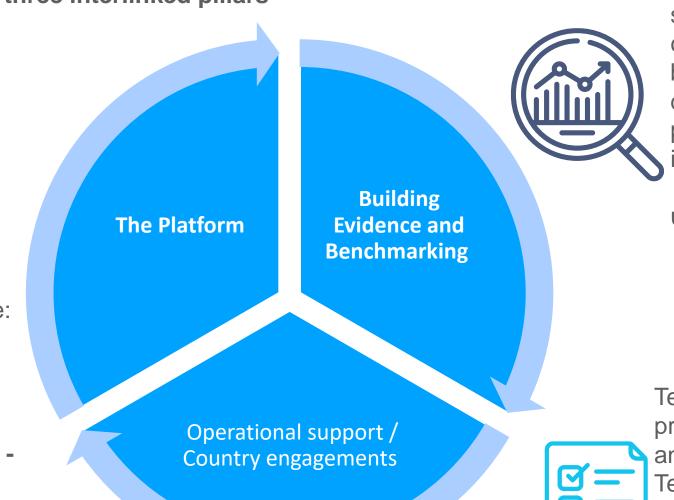
EQUAL AQUA | Pillars

Equal Aqua is guided by three interlinked pillars



EA partners form a community of practice: regular meetings, training opportunities, and knowledge exchanges

- 19 official partners -



HR surveys and scorecards, comprehensive benchmark database, and documenting good practices, and effective interventions

- data from 240+ utilities-

Technical Assistance provided by the Equal Aqua and Inclusion in Water Team, and partners

- 58 World Bank projects -

EQUAL AQUA | Framework

At each stage of an employee's career cycle, women face barriers as well as opportunities.

Different utilities will have different issues to address.



DIAGNOSIS

HR survey Scorecards Database



ATTRACTION

- Gender roles marked through social norms
- · Divisions of labor
- STEM graduates
- · Role models



RECRUITMENT

- · School-to-work transition
- Targeting candidates/job advertisements
- Hiring process



RETENTION

- Work-life balance
- Family-friendly policies
- Fair wages
- Work environment
- · Sexual harassment
- · Work facilities and amenities



ADVANCEMENT

- Training, mentorship, and networking opportunities
- Opportunities for leadership



EQUAL AQUA

Several challenges affect the representation of women in the water sector, but there are also tremendous opportunities to achieve gender parity.

Attraction: BARRIERS

- Stereotypes and social norms
- Occupational segregation
- Low levels of female graduates in technical fields
- Lack of role models

OPPORTUNITIES

- Career talks, role models, and other outreach campaigns
- Bring your daughter to work day
- Scholarships for women in STEM studies

Recruitment:

BARRIERS

- School-to-work transition bottlenecks
- Female graduates are not targeted as candidates
- Gender biases in the hiring process

OPPORTUNITIES

- Women engineers recruited directly from
- universities
- Inclusive job advertisements
- Gender-balanced hiring committee

Retention

BARRIERS

- Lack of work-life balance
- Inadequate familyfriendly policies
- Unsupportive workplace environment
- Wage gaps
- Sexual harassment

OPPORTUNITIES

- Maternity, paternity, and parental leave policies
- Separate sanitation facilities for men and women
- On-site lactation rooms
- Regular pay gap assessments

Advancement *BARRIERS*

- Fewer training, mentorship, and networking
- opportunities
- Exclusion from opportunities for advancement and leadership

OPPORTUNITIES

- Transparent promotion process Awards to recognize female leadership in the field
- Equal access to technical and managerial training for all

EQUAL AQUA | Benchmarking



SPOTLIGHT on Building evidence and benchmarks – How is data collected and used?

- Confidential HR Surveys are distributed to water utilities. The surveys include questions around:
 - ✓ **General HR Information**(e.g., the total number of employees disaggregated by gender, the total number of female managers, etc.)
 - ✓ Policies and programs (e.g., family-friendly arrangements such as flexible work, maternity leave, etc.)
 - ✓ Training Opportunities
 - ✓ Work environment (e.g., separate toilet facilities for men and women, the existence of lactation rooms, etc.)

Available in Arabic, French, Khmer, Portuguese, Spanish



2. Confidential Scorecards are generated for institutions to measure progress against previous data and regional and global averages.

Sample scorecard - excerpt

	Diversity scores in		Average ² diversity scores across all utilities in:			
	the inst	itution	Country X		Sub-Saharan Africa	Global
Share of employees in utility that are women	2022	2020	2022	2020	19.7%	19.3%
Share of engineers in utility that are women	↑12.1%	10.1%	10.3%	7.0%	13.2%	20.4%
Share of managers in utility that are women	↑20.0%	15.0%	13%	12.2%	16.6%	21.8%



3. The data is anonymously aggregated and fed into a public database hosted by Equal Aqua for insights into gender inclusion in water institutions. It is now the largest database of its kind

EQUAL AQUA | Benchmarking



Data is aggregated and fed into public database for insights into gender inclusion in water institutions

240+ utilities











Added features include:

- Multiple languages, new filters and categories and interactive features
- Added labels and information for a more user-friendly experience

CLOSING GENDER GAPS IN WATER JOBS

Water is a crucial source of jobs, both directly, as an employer in water services, and indirectly, through the economic opportunities that depend on water. Women remain an untapped resource for the water sector - only 1 in 5 utility employees are female. Greater diversity is linked to higher financial performance, innovation and customer satisfaction.

This dataset illustrates gender gaps in employment drawing on survey results from Women in Water Utilities: Breaking Barriers report, and additional surveys collected as part of Equal Aqua platform. Utilities can use it to compare their performance to other utilities in their region and globally.

Explore the Tool

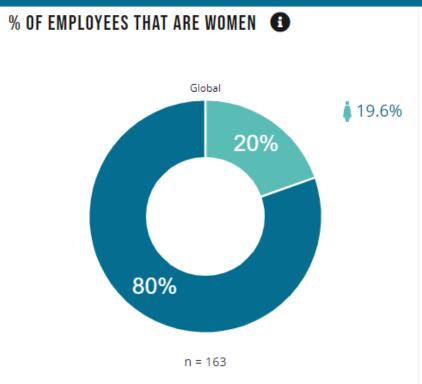
About the Data

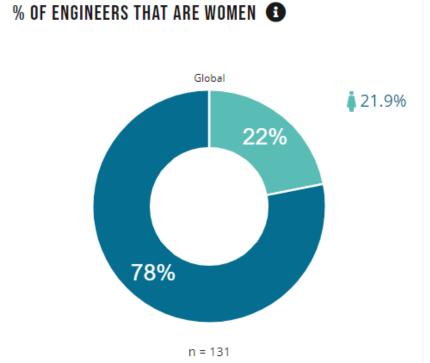
https://wbwaterdata.org/breakingbarriers/home/

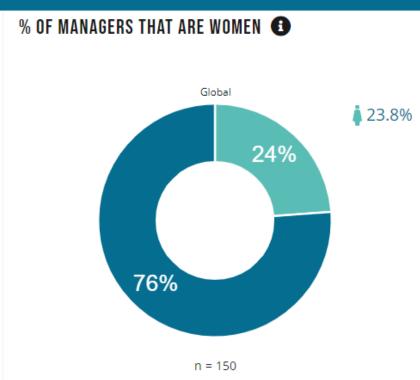


Women are underrepresented in water and sanitation utilities

SHARE OF SALARIED EMPLOYEES IN THE AVERAGE INSTITUTION





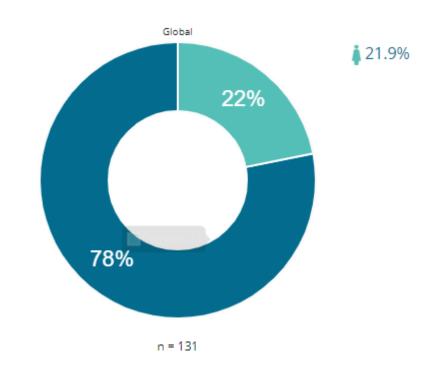


A diverse workforce brings numerous benefits, including increased financial productivity, greater innovation, and improved customer satisfaction.

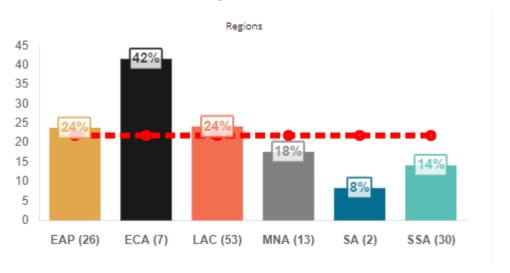


Share of engineers who are women is around 22% in a utility globally



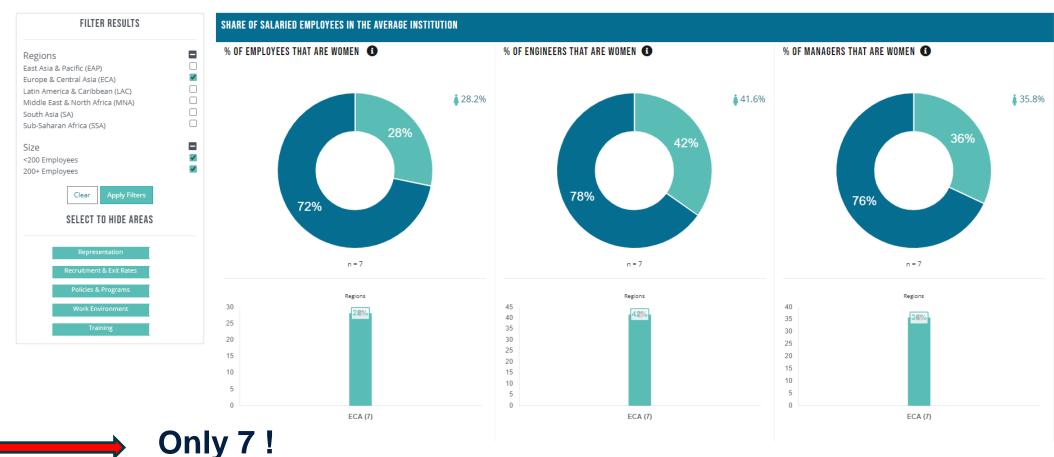


There are stark regional variations



Women are often concentrated in administrative positions and are excluded from technical occupations. But occupational segregation is costly.



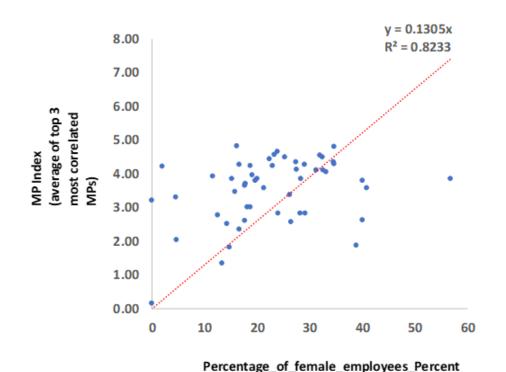


Paucity of *easily* comparable data on women in water utilities. However, this is changing with Danube Water Program benchmarking & IBNET



Why does comparable data matter?

Figure 1b: Female employees vs MPs Index



- The more balanced the ratio between male and female staff in a water utility, the more likely it is to perform better in terms of core management practices (for example, in terms of non-revenue water).
- Earlier analysis (2020) also showed a correlation between other key indicators (% customers with interruptions, % chlorine tests passed, hours of water outages, water quality tests, hours service per day) for larger (250+) utilities.

Source: World Bank staff calculations using NEW IBNET data based on 90 utilities that participated in the beta version.



Water Institutions -

organiza

Table 14: Gender composition of the personnel in each Water Basin Agencies

•	Water Basin Council	members	Men %	%	from Law no. 9970 "On gender equality in Albania"
	Drini River Basin	23	72 %	8% 😐	Women representation is really low
• With cli	Mati River Basin	15	100%	0% 🙁	Women are not represented in Water Basin Council
and yet organiza	Ishëm-Erzeni River Basin	21	62.5 %	37.5% 😊	Women representation is in accordance with the law quotas
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• Some of	Vjosa River Basin	27	83.4	16.6% 😐	Men dominate in the Water Basin Council

Conclusion according to the defined quotas

From "Gender Agenda and Action Plan for Water Supply and Waste Water Sector in Albania 2019-2030", German Federal Ministry of for Economic Cooperation and Development, GIZ, REC-Albania.



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- STEM graduates
- Role models



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ADVANCEMENT

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- Opportunities for leadership





Where are we in the Danube?

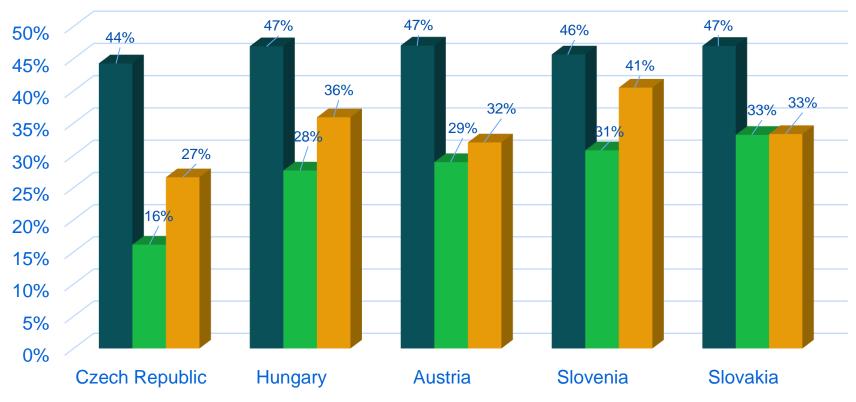


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Diverse contexts: In some countries rates of female employment are very low = competition for scarce female employees -> Invest in attraction.

Danube Participating Countries: Context



- Women Employed (% of total workforce)
- Women in Science and Engineering Professionals (% of total)
- Women in Senior and Middle Management (%)

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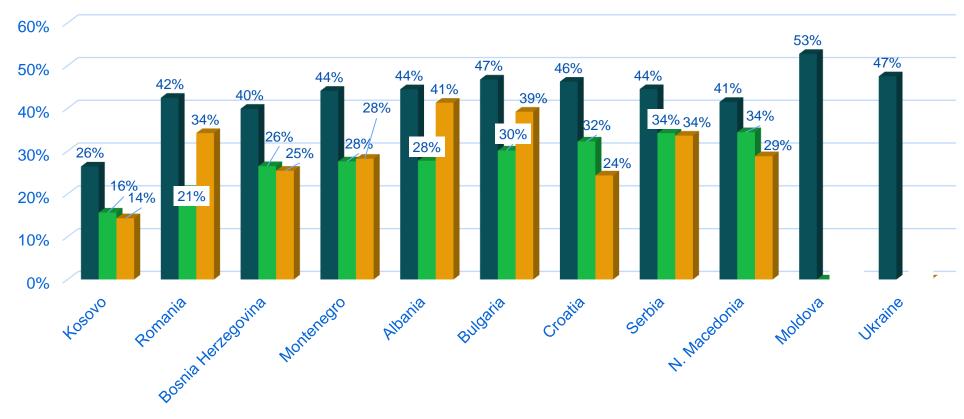


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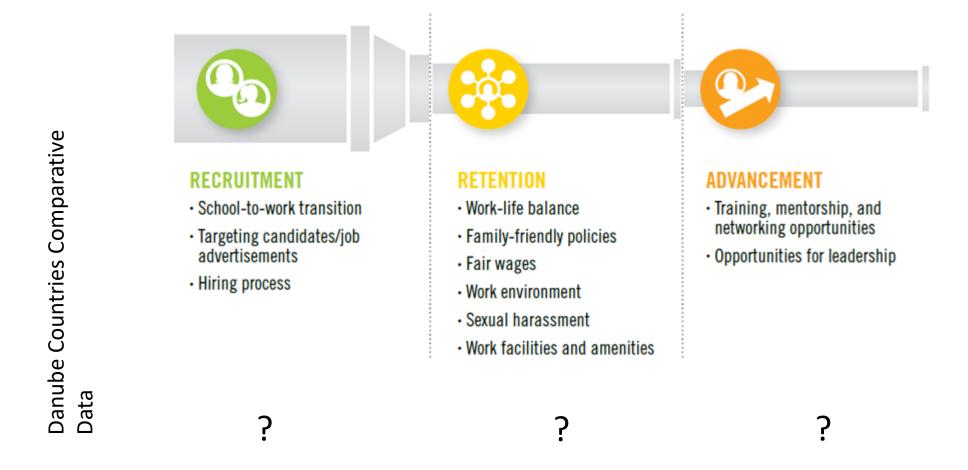
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Danube Target Countries: Context

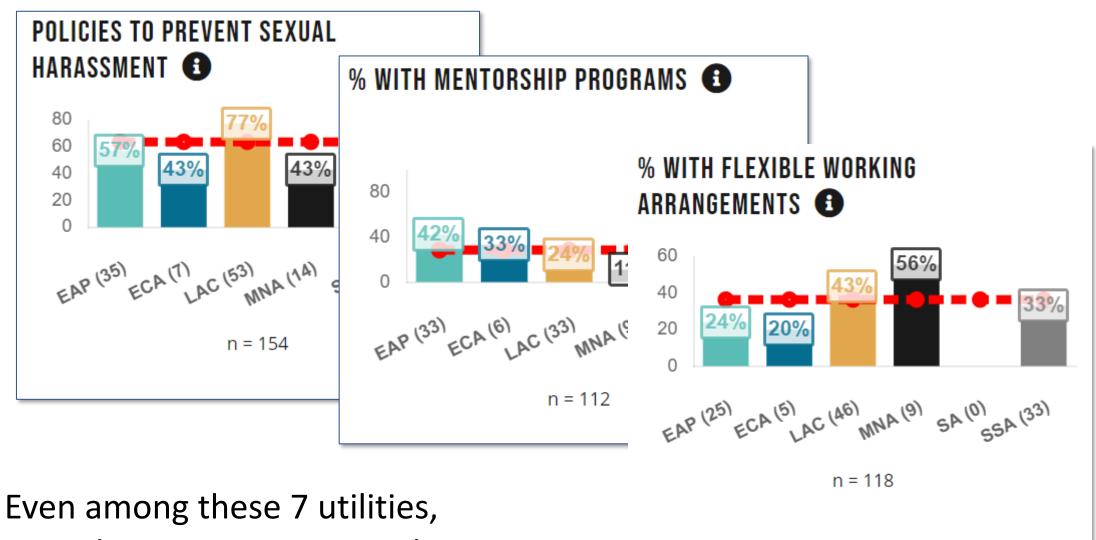


- Women Employed (% of total workforce)
- Women in Science and Engineering Professionals (% of total)
- Women in Senior and Middle Management (%)

Where are we in the Danube Water Institutions?



Where are we in the Danube Water Institutions?



some important gaps remain.

Diversity in the Labor Force: Youth in Danube Water Institutions

Challenge: New technologies and innovation needed for circular economy, water and climate (reuse) demand younger workforce

Context:

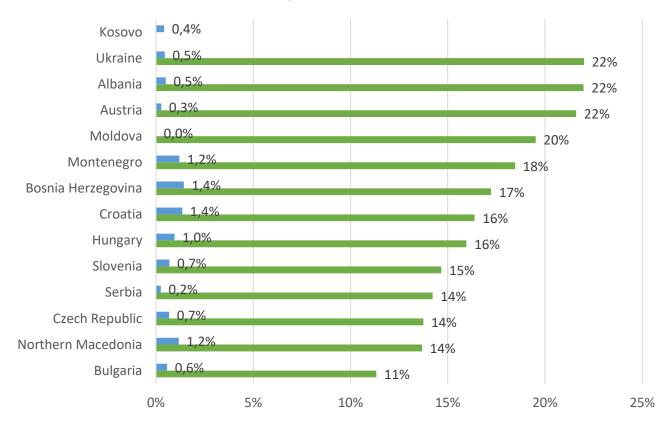
- Massive emigration from Western Balkans [Brain drain]
- 40% young emigrants from Albania highly educated vs. 6% from Bosnia Herzegovina
- West Balkans expected to lose 1 million youth in next decade
- Since 1990:

Serbia has lost 9% of its population Northern Macedonia 10% Bosnia and Herzogovenia 24% Albania 37%



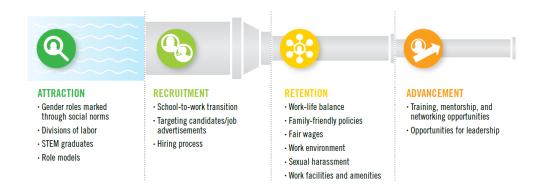
Diversity in the Labor Force: Youth in Danube Water Institutions

Youth Labor Force, and Youth Labor Force in WSS+



- % Total Labor Force Age 15 29 in Water Supply, Sewerage, waste management and remediation
- % Total Labor Force Age 15 29

- Systematic data on youth <u>from</u> water institutions (and on age of water workforce) is lacking
- Most likely facing similar or more challenges as in the US (where, for example, one-third of the water workforce eligible to retire in 10 years)



Diversity in the Labor Force: Youth in Danube Water Institutions Considerations Looking Forward

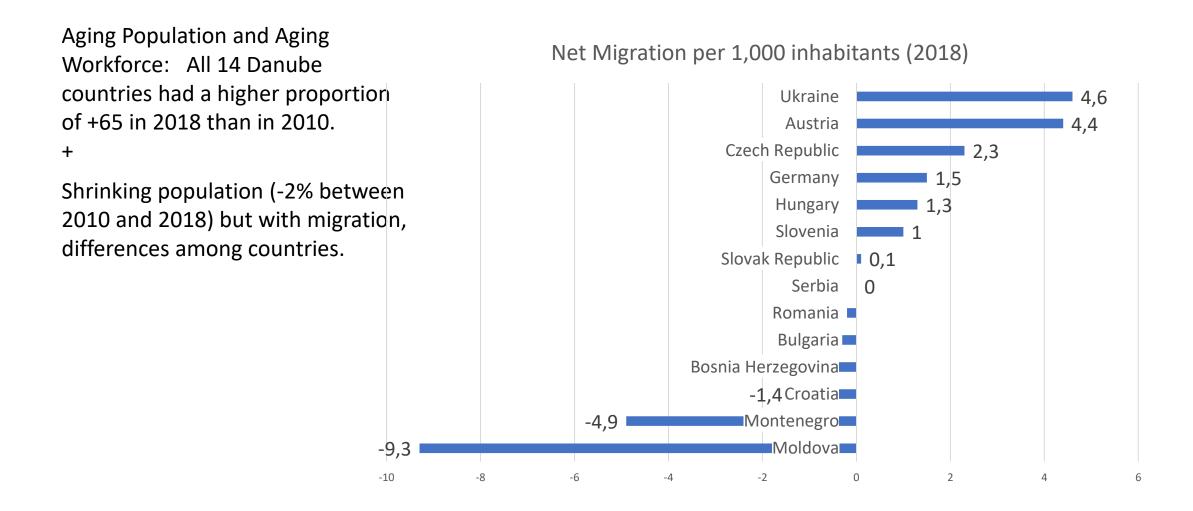
- Many initiatives
 - Danube Transnational Program YOUMIG
 - Danube Youth Council
 - Youth Policy Forum
 - Western Balkans Platform on Education and Training
 - Montenegro, North Macedonia, and Serbia have introduced dual education systems
 - Youth Guarantee program (Western Balkans)....

- Bringing it together
 - Use framework to better track whether efforts to attract, recruit, promote and retain young workers are working
 - Benchmarking, diagnostics at water institution level and across countries on workforce age
 - Integrate lessons from youth organizations, scale up mentorships, efforts at attraction early on

Thank You!

Extra Slides

Danube - Regional Challenges



ATTRACTION

Barriers:

- Social norms/ stereotypes
- Occupational segregation
- Low levels of female graduates in technical fields
- Lack of role models

Promising approaches:

- Career talks, role models, and other outreach campaigns
- Presentations at schools, colleges, and the community
- ✓ or scholarships for women in STEM studies, are just a few examples.

"The utility is so male dominated, that within weeks of joining the utility, most women want to leave! The utility needs to hire more women so that a culture is created where everyone feels comfortable."

-Female water quality officer, Ghana









Barriers:

- School-to-work transitionbottlenecks
- Female graduates are not targeted as candidates
- Gender biases in the hiring process

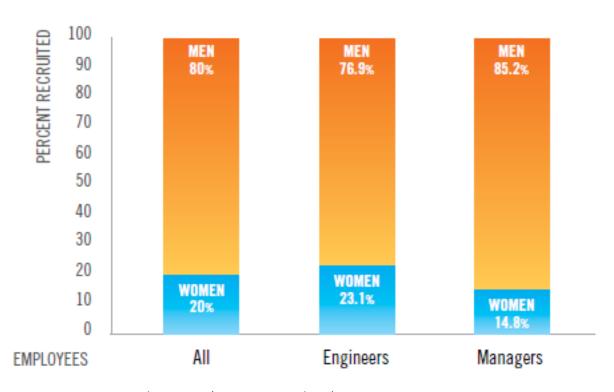
Promising Approaches:

- Women engineers can be recruited directly from universities
- ✓ Internships that have genderbalanced participation
- ✓ Inclusive job advertisements
- ✓ Gender-balanced hiring committee
- And having targets to expand gender diversity





Recruitment of Men and Women in Water Utilities in the Past 12 Months, 2018



Source: Responses to utility survey (N: 44 water utilities)

"It could be helpful to ensure women are aware that there is a potential to apply to these positions that positions are open, and that they are just as suited to apply."

-Female employee, Kosovo



Barriers:

- Lack of work-life balance
- Inadequate family-friendly policies
- Unsupportive workplace environment
- Wage gaps
- Sexual harassment

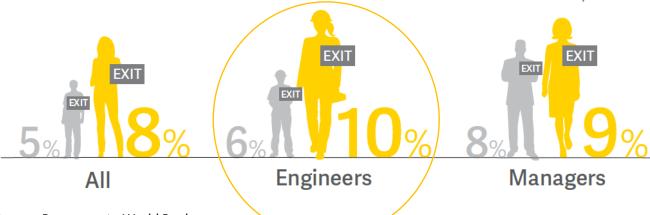
Promising Approaches:

- ✓ Maternity, paternity, and parental leave policies
- Separate sanitation facilities for men and women
- On-site lactation rooms
- Anti-sexual harassment policies
- And regular pay gap assessments



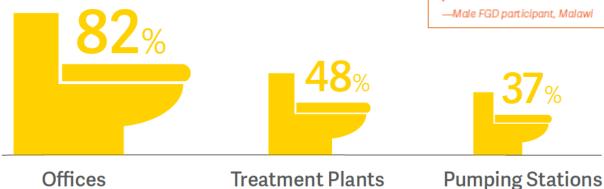






Source: Responses to World Bank Utility Survey (N = 49).

TOILETS FOR WOMEN IN WATER UTILITIES



Source: Responses to World Bank Utility Survey (N = 60)

"The utility has no washrooms or changing rooms for men and women, so women change their clothes to work-suits at an open place in the presence of men."

-Male FGD participant, Malawi





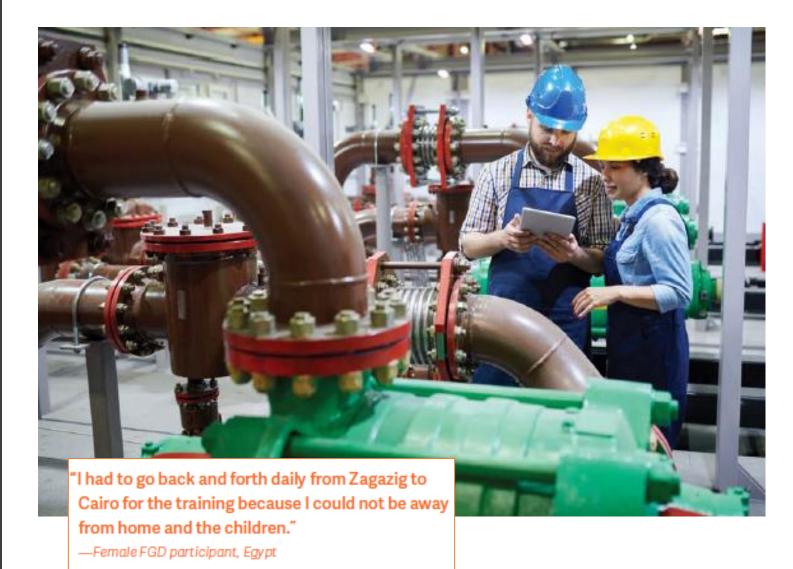
ADVANCEMENT

Barriers:

- Fewer training, mentorship, and networking opportunities
- Exclusion from opportunities for advancement and leadership

Promising approaches:

- Equal access to technical and managerial training for all
- ✓ Mentorship programs and femalerun professional networks
- Transparent promotion process and promotion criteria
- ✓ Or targets for gender composition in leadership positions



CORE INDICATORS: Performance





- Drinking water coverage (%)
- Continuity (hr/day)
- % customers 24/7 supply
- NRW (I/Conn./hr or %)



- Sanitation coverage (%)
- Continuity (hr/day)
- Wastewater Collected and Treated (%)



Commercial Operations

- Collection rate
- % of Metered connections
- Service complaints resolved
- Drinking water quality



• Operational cost coverage (%)



- Number of employees per 1000 connections
- Percentage of female employees

For specific communities the core indicators will be expanded in the next phase:

- Indicators on sanitation after consultation with CWIS
- Regional subsets of dashboards for partners such as IAWD, PWWA, ESAWAS
- Standard reports on performance improvement
- Change in KPIs over time



CORE INDICATORS: Management Practices



Meter Reading
Payment Methods
Communications channels



Operations

Asset Management
Infrastructure Maintenance
Non-revenue water



Financial

Operational cost recovery Financial planning and forecast Infrastructure life cycle



Organization & Strategy

Balance and timing of targets Performance tracking and Review



Attracting and managing Talent Promotion and retention mechanisms



Climate Change

Water Savings
Water Sources Conservation
Green Infrastructure



Integrity

Transparency
Disclosure
Procurement Protocols

Next phase considerations

- Change in Management Practices over time
- Standard reports on Management Practices
- Overviews of performance per practice area



Albania – Gender Representation in WRM

Table 14: Gender composition of the personnel in each Water Basin Agencies

Gender composition Water Basin Council	Number of members	Men %	Women %	Conclusion according to the defined quotas from Law no. 9970 "On gender equality in Albania"
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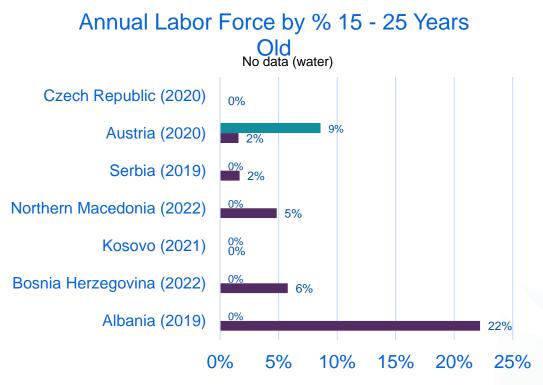
Excellent example. Need to scale up cross-country data.

Some other regions just starting to leverage regional river basin organizations to scale up benchmarking on gender diversity.

Alosa MACI Dasili	0070	4U% 🐸	paranceu representation or both genuers.

From "Gender Agenda and Action Plan for Water Supply and Waste Water Sector in Albania 2019-2030", German Federal Ministry of for Economic Cooperation and Development, GIZ, REC-Albania.

Diversity in the Labor Force: Youth in Danube Water Institutions



- % in Water Collection, Treatment, Disposal activities 15 25 years old
- % in Waste collection, treatment, disposal activities 15 25 years

- Systematic data on youth in water institutions (and on age of water workforce) is lacking
- Most likely facing similar or more challenges as in the US (where, for example, one-third of the water workforce eligible to



