LESSONS LEARNED FROM ISO 30500

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ISO 30500: 2018

Non-sewered sanitation systems—General Safety & performance requirements for design & testing

A prefabricated integrated treatment unit with
- a frontend component (Toilet facility)
- a backend component (Treatment facility)

What ISO 30500 Addresses

An estimated 2.3 billion people lack access to basic sanitation

A lack of safe, private sanitation is associated with the highest overall levels of malnutrition, poverty, and disparity between rich and poor, and makes women and girls more vulnerable to violence.

January 2016….the 17 UN Sustainable Development Goals (SDG) were launched

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Sustainable Development Goal 6.2

By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations

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PRINCIPLES OF ISO 30500

* To support the development of stand-alone sanitation systems designed to address **basic** sanitation needs and promote economic, social, and environmental sustainability through **strategies that include minimizing resource consumption** (e.g. water, energy) and converting human excreta to safe output.

* To promote the implementation of sanitation **systems where increased sustainability** is desired, or where traditional sanitary sewer systems are unavailable or impractical and thus, to ensure **human health and safety** as well as protecting of the environment.

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CONSIDERING WOMEN

"The design and implementation of the system shall ensure that users with little or no literacy or **those who do not have technical expertise** are able to safely and effectively use the system frontend"

"NSSS shall be capable of treating, at a minimum, …**menstrual blood**….and other bodily fluids/solids."

additional categories of input: **menstrual hygiene products**

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CONSIDERING WOMEN

Unhygienic (public) toilets and latrines threaten the health of women and girls who are prone to reproductive tract infections caused by poor sanitation (Phillips-Howard et al., 2011).

The standard has explicitly set minimum requirements for women hygiene

To avoid the need for frequent toilet use, women often drink less, causing severe health impacts (urinary tract infections, chronic constipation and other gastric disorders). Toilet-avoidance dehydration is a particular health threat to pregnant women (UNESCO, 2018).

"The sanitation system shall allow continuous use without unreasonable waiting times between uses"

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CONSIDERING WOMEN

Operational Requirements

“If the starting of the sanitation system operation requires mechanical force to be applied by users, this force shall be no greater than 25 N.”

The standard makes reference to existing standards on ergonomics, which address the need for women, children and people with disabilities

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Integration with SDG 5

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CARRYING THE LESSONS

- **Women must be part of standards development**

- **National Standards Bodies must strive for balanced women representation in the Technical Committees**

- **Women must be part of policy-setting**

- **Women must be considered catalysts of economic development**

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CONCLUSION

5 GENDER EQUALITY

"If you are successful, it is because somewhere, sometime, someone gave you a life or an idea that started you in the right direction. Remember also that you are indebted to life until you help some less fortunate person, just as you were helped."

Melinda Gates

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THANK YOU

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