

To tackle urban sanitation challenges, the World Bank's Water Global Practice and partners have jointly advanced **Citywide Inclusive Sanitation (CWIS)** and put it into action.



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More about Urban Sanitation:

- [Fecal Sludge Flow Diagrams \(SFDs\)](#) => link to SuSanA SFD generator page
- [Compendium of Sanitation Systems and Technologies, 2nd Edition \(2014\)](#), EAWAG
- [Sanitation 21: A Planning Framework for Improving City-wide Sanitation Services](#), IWA (2016)
- [Sanitation Safety Planning: Manual for safe use and disposal of wastewater, greywater and excreta](#), WHO (2015)
- [Achieving total sanitation and hygiene coverage within a generation: lessons from East Asia](#), WaterAid (2016)
- Low Cost Urban Sanitation by Duncan Mara (1996)
- [Planning and Design of Sanitation Systems and Technologies](#) MOOC by Eawag-Sandec

Onsite Sanitation/Fecal Sludge Management:

- [Faecal Sludge Management: Systems Approach for Operation and Implementation](#), IWA (2014)
- [Business Models for Fecal Sludge Management](#), IWMI (2016)
- [Faecal Sludge and Septage Treatment: a guide for low- and middle- income countries](#), Kevin Taylor (The World Bank/Gates Foundation 2018)
- [Introduction to Fecal Sludge Management](#) by CAWST (the Centre for Affordable Water and Sanitation Technology) and Eawag- SANDEC (2016)
- [Evaluating the Potential of Container-Based Sanitation](#), World Bank (2019)
- [Market Driven Approach for Selection of Faecal Sludge Treatment Products](#) by Eawag- Sandec
- [Fecal Sludge Management tools](#) by the World Bank

Online Courses:

- [Fecal Sludge Management](#) by the Asian Institute of Technology
- [Fecal Sludge Management](#) by UNESCO-IHE Delft



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- [Introduction to Fecal Sludge Management](#) by École Polytechnique Fédérale de Lausanne and Sandec

Sewerage:

- [PC-based Simplified Sewer Design](#), University of Leeds (2001)
- [Non-conventional sewerage](#) material, pS-Eau (2014)

Wastewater Treatment:

- [Domestic Wastewater Treatment in Developing Countries](#), pS-Eau (2004)
- [Tecnologías alternativas para la provisión de servicios de agua y saneamiento en pequeñas localidades](#), World Bank (2005)
- Wastewater Engineering: Treatment and Reuse, Metcalf & Eddy, Inc. (2002)
- Biological wastewater treatment in warm climate countries, IWA (2005) [Volume 1](#) and [Volume 2](#)
- [Co-treatment of Septage and Fecal Sludge in Sewage, IWA \(2020\)](#)

Sludge and Greywater Management and Reuse:

- [WHO: Volume 4: Excreta and greywater use in agriculture](#) (2006)
- Örmeci: Shaped by regulation: Current and future trends in sludge mgmt., Water 21, IWA (2014)

Wastewater Reuse:

- [Water Reuse for Irrigation, CRC press \(2004\)](#)
- [Wastewater Irrigation and Health, IWMI and IDRC \(2010\)](#)
- [Sustainable Treatment and Reuse of Municipal Wastewater](#), IWA (2012)
- [From Waste to Resource: Shifting Paradigms for Smarter Wastewater Interventions in Latin America and the Caribbean](#) by the World Bank

Financing and Subsidies:

- [Doing More with Less: Smarter Subsidies for Water Supply and Sanitation](#), World Bank (2019)
- [Public Funding for Sanitation: The many faces of sanitation subsidies](#), WSSCC (2009)

Policies, Intuitions and Regulations

- [Aligning Institutions and Incentives for Sustainable Water Supply and Sanitation Services](#), World Bank (2018)
- [Capacity Development for Inclusive Urban Sanitation Video](#) Series for consultants by Eawag-Sandec

Monitoring and Evaluation:



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- Urban Sanitation Sample Indicators
- [Sanitation mapper](#), WaterAid

Inclusion:

- [Health, Safety and Dignity of Sanitation Workers: An Initial Assessment](#) by the ILO, WaterAid, WHO and World Bank (2019)
- [Reducing Inequalities in Water Supply, Sanitation, and Hygiene in the Era of the Sustainable Development Goals](#): Synthesis Report of the WASH Poverty Diagnostic Initiative by the World Bank (2017)
- [Poor-Inclusive Urban Sanitation: An Overview](#), WSP (2013)
- [Women in Water Utilities: Breaking Barriers](#), World Bank (2019)
- [The Rising Tide: A New Look at Gender and Water](#), World Bank (2017)
- [Menstrual Hygiene Management](#)
- [Making sustainable sanitation inclusive for persons with disabilities](#), GIZ (2011)
- [Shared and Public Sanitation: Championing Delivery Models That Work](#), World Bank (2018)
- [Female-friendly public and community toilets: a guide for planners and decision makers](#), WaterAid, WSUP and UNICEF (2018)

Learn more about CWIS:
www.worldbank.org/cwis

