| T 20 | **Sanitation Costing Tool** |

Summary: This tool will assist you in estimating construction and maintenance costs of different sanitation technologies. It is based on detailed bills of quantities (BoQs) for selected technologies featured in the Compendium of Sanitation Systems and Technologies.

Application Within the Planning Process:
Step 5: Identification of Service Options
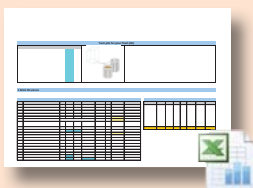**Step 7:** Implementation of the Action Plan

Related Tools:
T15 Compendium of Sanitation Systems and Technologies

Purpose The cost of sanitation infrastructure varies considerably in time and space, and it is often difficult to estimate costs because locally no experience or standardised design and cost estimation procedures exist for innovative, unconventional systems. This tool allows you to assess the cost implications of material, labour and maintenance required for a range of sanitation technologies. The cost estimations are calculated based on generalised BoQs and local unit rates for materials (e.g. the price of 1 bag of cement) and for skilled/unskilled labour. The bills of quantities are organised according to the numbering system used in the Compendium of Sanitation Systems and Technologies (**Tool T15**). However, generalised BoQs are not available for all the technologies included in the Compendium, because for many of them highly variable design alternatives exist – depending on specific local conditions, preferences and standards.

How to use this tool? After the pre-selection of possible sanitation systems (CLUES sub-step 5.1), use this tool to obtain a first idea on cost implications to inform the final decision. The BoQs are organised in separate Excel spreadsheets for each technology (**Document D20.1**). User interface technologies are differentiated between basic (low-cost) and advanced (higher cost) options. Copy the excel templates of the technologies you are interested in costing and enter context specific unit rates for material and labour to get informed cost estimates. The BoQs can also be used as a basis for the bidding documents later on when you move to implementation (step 7).

Resources

Document D20.1:
Bills of Quantities
D20.1.xls