In June 2018, AVSI started the 2-year UNICEF-funded PENCILS project, in 52 schools (42 in EES and 10 in LS) targeting approx. 30,000 pupils and 2,500 teachers. The project includes the construction of 28 TLS, 13 gender-segregated latrines, 16 kitchen and stores, 18 fences.
In a bid to learn from previous experience, AVSI launched in an effort to avoid common shortfalls (ex. TLSs attacked by termites, latrines by wind)
AVSI has strived to build long-lasting TLS that can be improved by the community in a bid to increase value for money and foster local ownership.
1. Solid foundations (to build upon)

230mm thick plinth wall, with 500mm height. capable of sustaining the roof and creating a buffer from termites

1 feet high raised verandah to avoid flooding during rainy season
2. Reinforced walls and firm roofing

- G28 corrugated iron sheets to resist strong winds and increase overall durability
- Wire mesh reinforced bamboo walls for durability of temporary solution
- 1400mm bamboos walls fixed on top of concrete plinth
3. Safe and healthy structures

- Casted concrete floors to improve pupils’ health
- 75 mm diameter metallic poles to resist termites and avoid collapse
4. Mainstreaming WASH and nutrition

Metallic doors to reduce vandalism and risk of theft

3-meter depth pit
5. Context-specific solutions

In Lake States, where the cost of materials is extremely high, and the drier climate makes termites less aggressive, metallic poles were not employed. Still, the average cost of a TLS in LS was $13,000, as compared with the $8,200 spent in EES. Likewise, the cost of latrines was 6,100 in EES and 8,500 in LS.
Ways forward
Lesson learned:

• **Context specific approach:** technical solutions and costs vary greatly depending on soil composition, environmental conditions that affect durability, and availability of materials

• **Invest in human resources:** in-house construction engineer is needed

• **Invest in follow up activities:** to review durability at 6 months and one year and learn from it

• Provide some **top-up resources** and **demand quality in exchange:** $10k should be considered the benchmark for a semi-permanent TLS
Pending challenges:
Cost effective solution for fences: wood fences built in the past, by different companies, all did not last even one year. A 500m bamboo fence can cost around $9,000; a chain-link fence, that can last several years, $14,000 approx. (other solutions are also viable ex. natural fences)
AVSI Thanks you for your attention!
APPENDIX 1: On-going project of education
AVSI South Sudan (as of April 2019)

Since 2013
St. Mary’s College
Juba-based tertiary education institution, the only one in SSD offering a 3-year diploma program devoted exclusively to the training of primary school teachers.

Since 2005
Distance support program
AVSI’s global comprehensive and personalized scholarship program. It supports 600+ students in 6 primary schools and 2 secondary schools in Ikwoto and Torit County (EES). Its aptness to foster female education has been proven repeatedly.

Since 2017
WFP’s FFE program
Monitoring of the distribution of food in 28 schools of Ikwoto (EES) and 14 schools of Cueibet (LS). A pilot to procure locally grown food is under discussion with WFP ‘s representatives of the HGSF division.

2016 - 2019
Torit Technical Institute
3-year project supporting the only functioning public institution in EES offering 1-year vocational training programs (tailoring, carpentry, construction)

Worth mentioning: in response to the cholera outbreak, in 2017 AVSI implemented the CHF-funded rapid response project of hygiene & sanitation in 9 schools in Kapoeta (EES)

2018 - 2020
PENCILS
2-year UNICEF-funded EiE project, it supports 47 primary schools in 5 out of 8 counties in EES and in Cueibet county in Lakes State (LS). A cost-effective model to conduct nutritional screening in schools (based on BMI) is being piloted.

BRICE
Cross-country 2-year EU-funded project focused on Accelerated Learning Programs, which in SSD operates through 2 centers in Torit and 2 in Ikwoto

2019
ICROSS
Cross-border AICS funded project aiming at facilitating the return of refugees from Uganda, including by providing to South Sudanese in Northern Uganda school vouchers to be used in Ikwoto county schools.
Appendix 2.b - Plans, Sections, and Elevations view of the TLS-Lakes State
Appendix 2.c - Plans, Sections, and Elevations view of sex segregated latrine

PROJECT
Construction of 3 Stances latrine

FUNDER
UNICEF

IMPLEMENTER
AVSI - South Sudan

SHEET TITLE
Plan, Section, Elevations

DRAWN BY
Maliamungu Moses

SHEET ID
AVSI/DR/PP2018/003

SCALE
1:50, 1:00

DRG No
003

CHECKED BY
AVSI - South Sudan
Appendix 3 - List of researches and evaluations on Education conducted by AVSI Foundation


• List of further AVSI Foundation’s researches on SSD. https://www.humanitarianresponse.info/en/operations/south-sudan/assessments