

Lessons from COVID 19 and the case for NSS

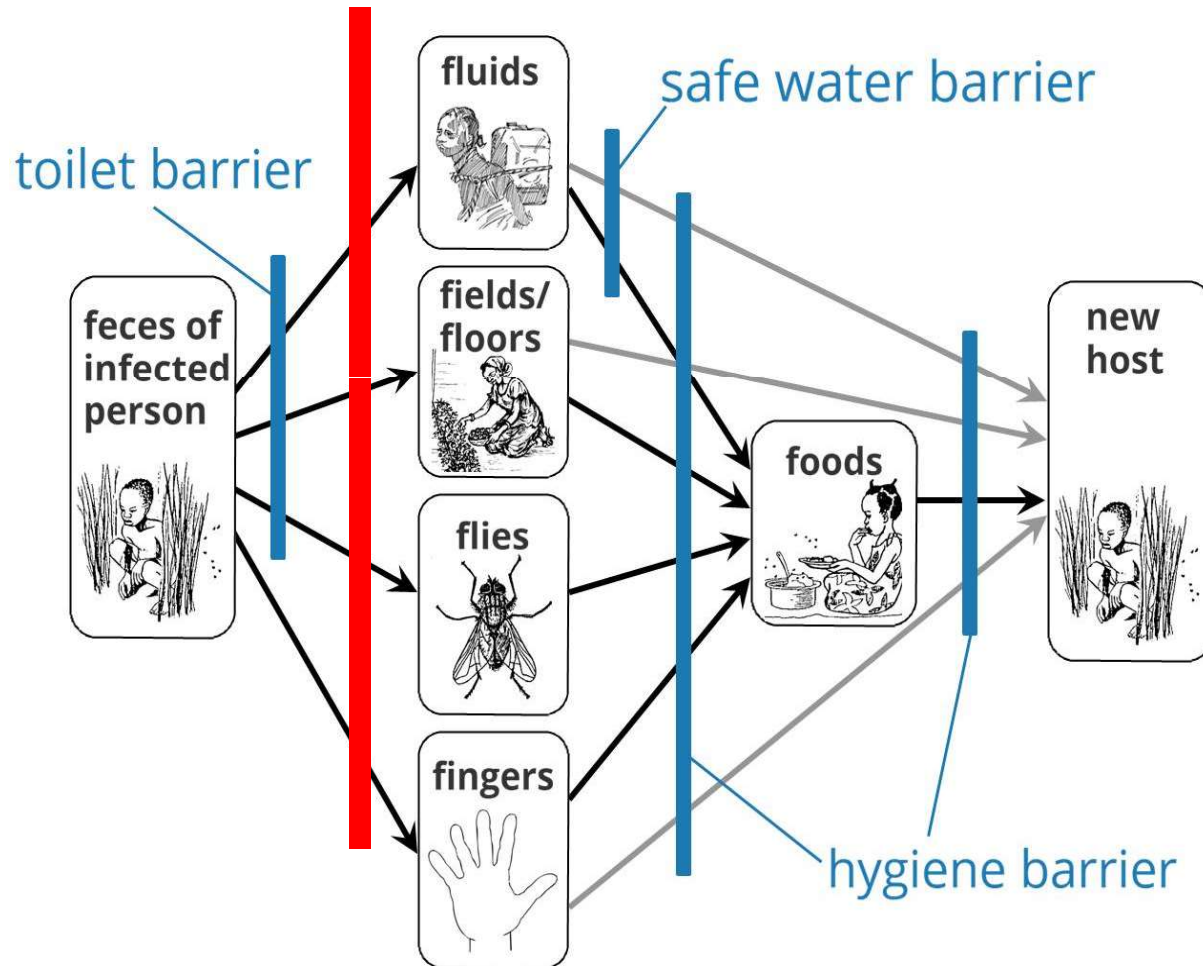
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Water Research Commission



WASH services as barriers to disease

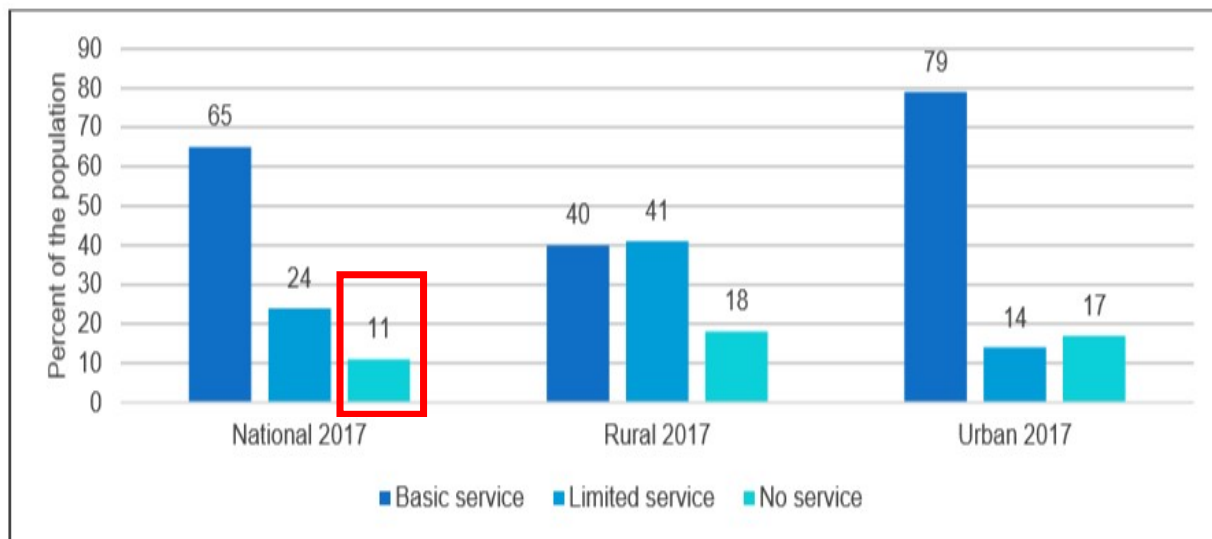
Water resources barrier



Source: [Water 1st International](#) (f-diagram2015) ; Adapted from Wagner and Laniox ; WRC K5 1886/11)

Source: SDGs Country Report 2019 – South Africa (STATS SA, 2020)

Access to hand hygiene facilities



Source: SDGs Country Report 2019 – South Africa (STATS SA, 2020)

- Frequent and proper hand hygiene for **ALL**
- **Emergency water supplies**
- **Factsheets - promotion of hand hygiene and behaviours**
 - Communities without access to piped water
 - Household handwashing units

Best Hygiene Practice to Curb the Spread of COVID-19



Frequent and proper hand hygiene has been identified as one of the key measures in preventing the spread of COVID-19. Not only is proper hand hygiene important in curbing the spread of this particular outbreak but this practice is also important in preventing the spread of other harmful microorganisms in general.

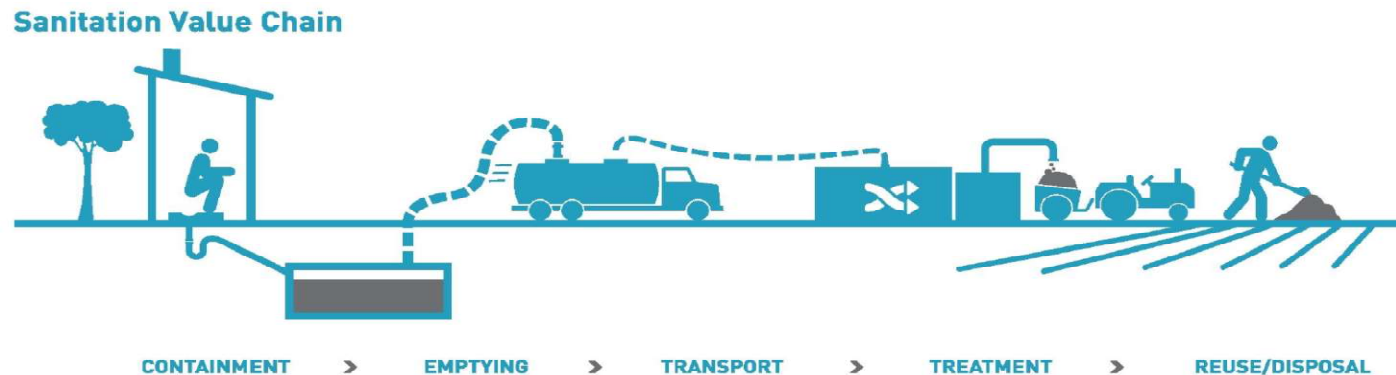
Hands must be washed: after using the toilet; after disposing of faeces; after changing baby's nappies and disposing of their faeces; before preparing food; before eating; before feeding children; immediately after handling raw food; after contact with contaminated surfaces, e.g. rubbish bins, cleaning cloths; after handling pets and domestic animals;



Source: <https://www.cdc.gov/vhf/ebola/pdf/chlorine-solution-liquid-mild.pdf>

General Information: Sanitation

- A sick person sheds disease-causing organisms in their faecal matter
- Sanitation is important as it provides a barrier between you and your urine + poop
- This physical barrier prevents people and faecal matter coming into contact
- What does the sanitation barrier look like?



Confinement is critical, with good hygiene

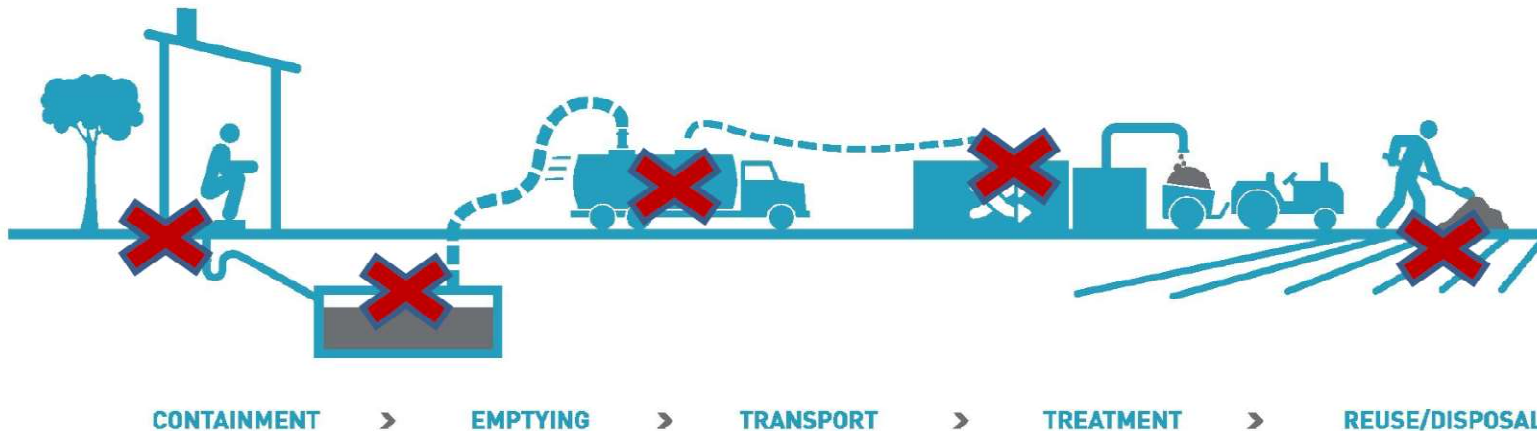
- Issues with challenges in dense settlements
- Issues with challenges in informal settlements
- *Issues with drainage*
- *Issues with technology choices and speed*
- *Water*



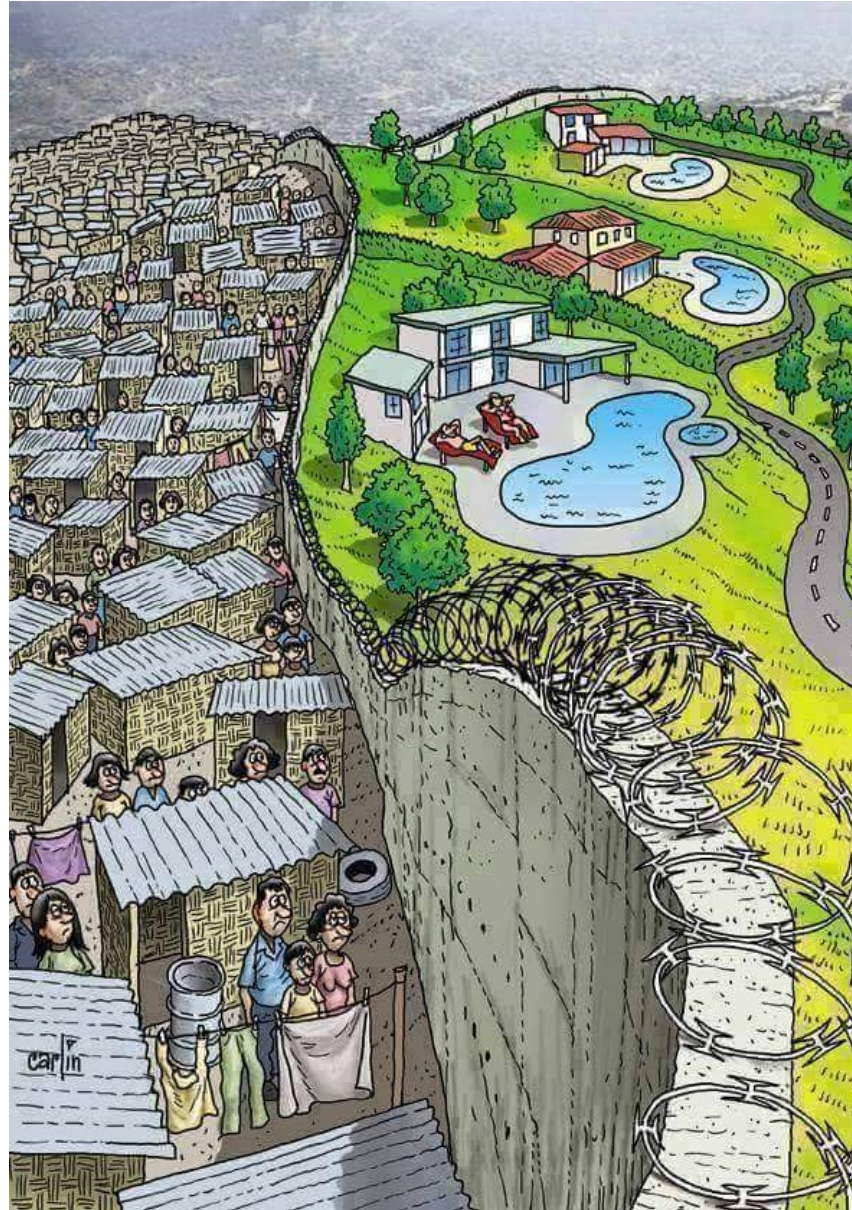
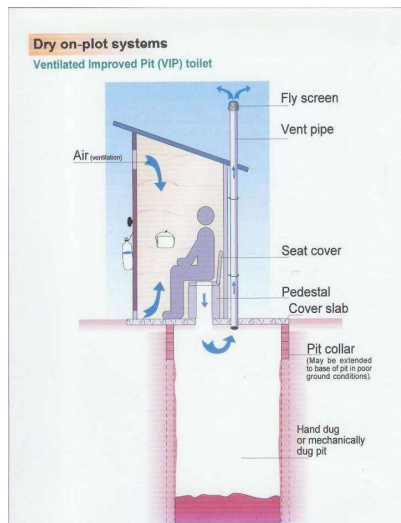
Disease Transmission Points

If there is weakness in any part of sanitation supply chain, then there is a risk of disease transmission

Sanitation Value Chain



Hole Standard



Gold Standard



COVID lesson – accelerate NSS

Fix an important market failure by delivering services and product that meet customers needs and aspiration, compatible with 21st century technologies as well as the new emergency challenges such as COVID and others.



Source: Bill & Melinda Gates

THANK YOU

