



## Rural areas in Morocco

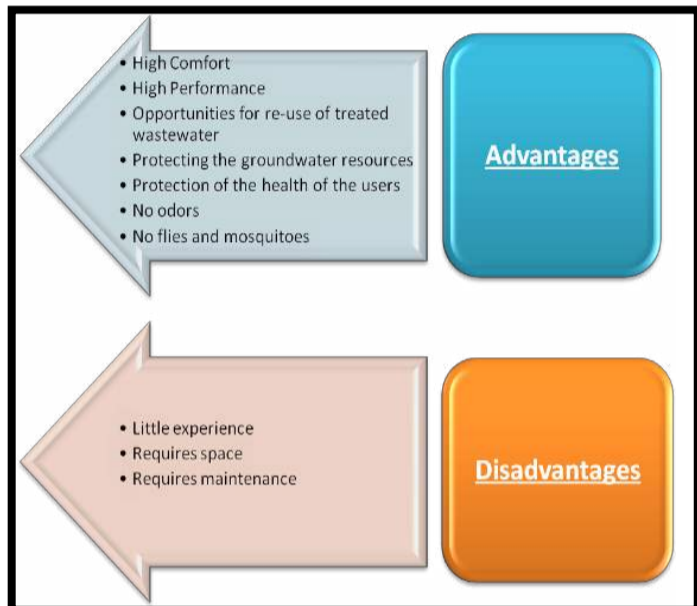
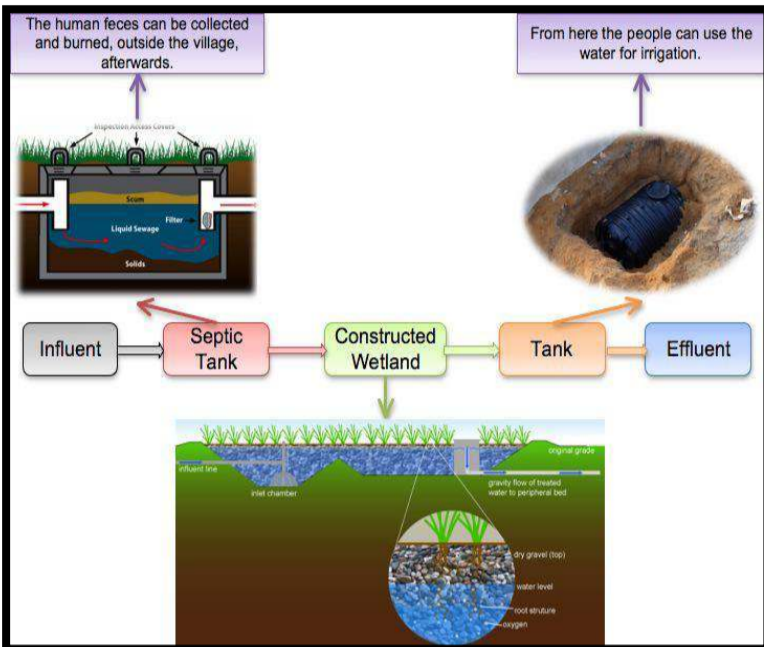
Morocco is a country in North Africa with approximately 32 million inhabitants. Because of the climate there is a lot of drought, so water is scarce. 42% of the population lives in rural areas.

## Problem definition

Due to the large surface of Morocco and the large distance between the villages in the rural area, the wastewater collection and treatment has become one of the most important problems. Construction of a sewerage system is too expensive because of the large distances and therefore not a realistic solution. However the purification of water is essential, especially in a country with a water scarcity and therefore in high need for a sustainable and an affordable solution.



## Sustainable solution



## Proposition

- The solution is capable to treat waste water which can be used for **irrigation** after the purification.
- To be sure that there is no water wasted due to the house connection to the water network, a **reward system** can be installed.
  - < 50 l/pp/pd, the user will get a reward.
  - > 50 l/pp/pd, the user will get a fine.
- The installation and maintenance costs will be funded by this reward system.
- One person has to be responsible for the maintenance of the system, the quality of the system and the reward system (the current guardian).

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