

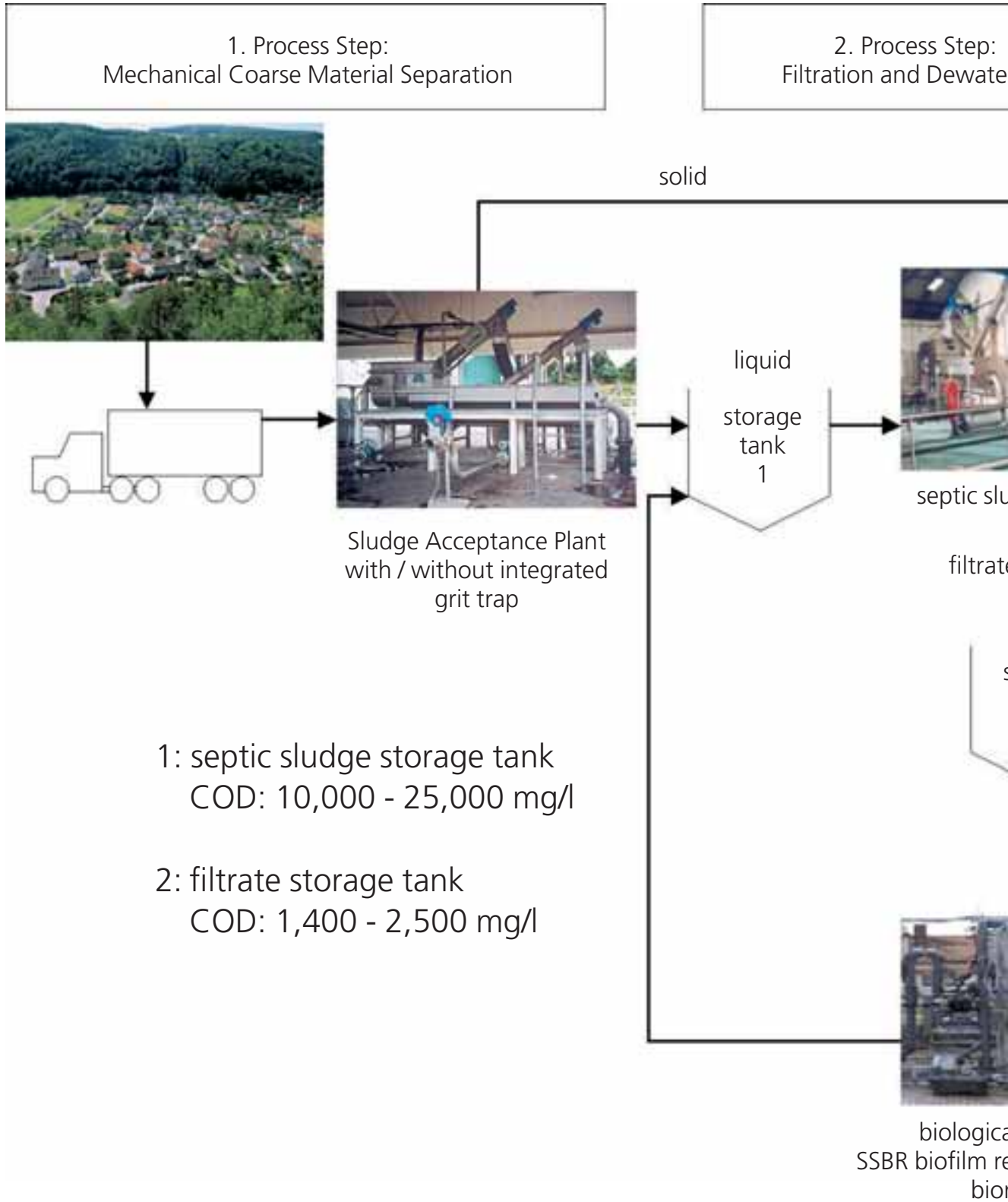
HUBER Septic Sludge Treatment HFSB

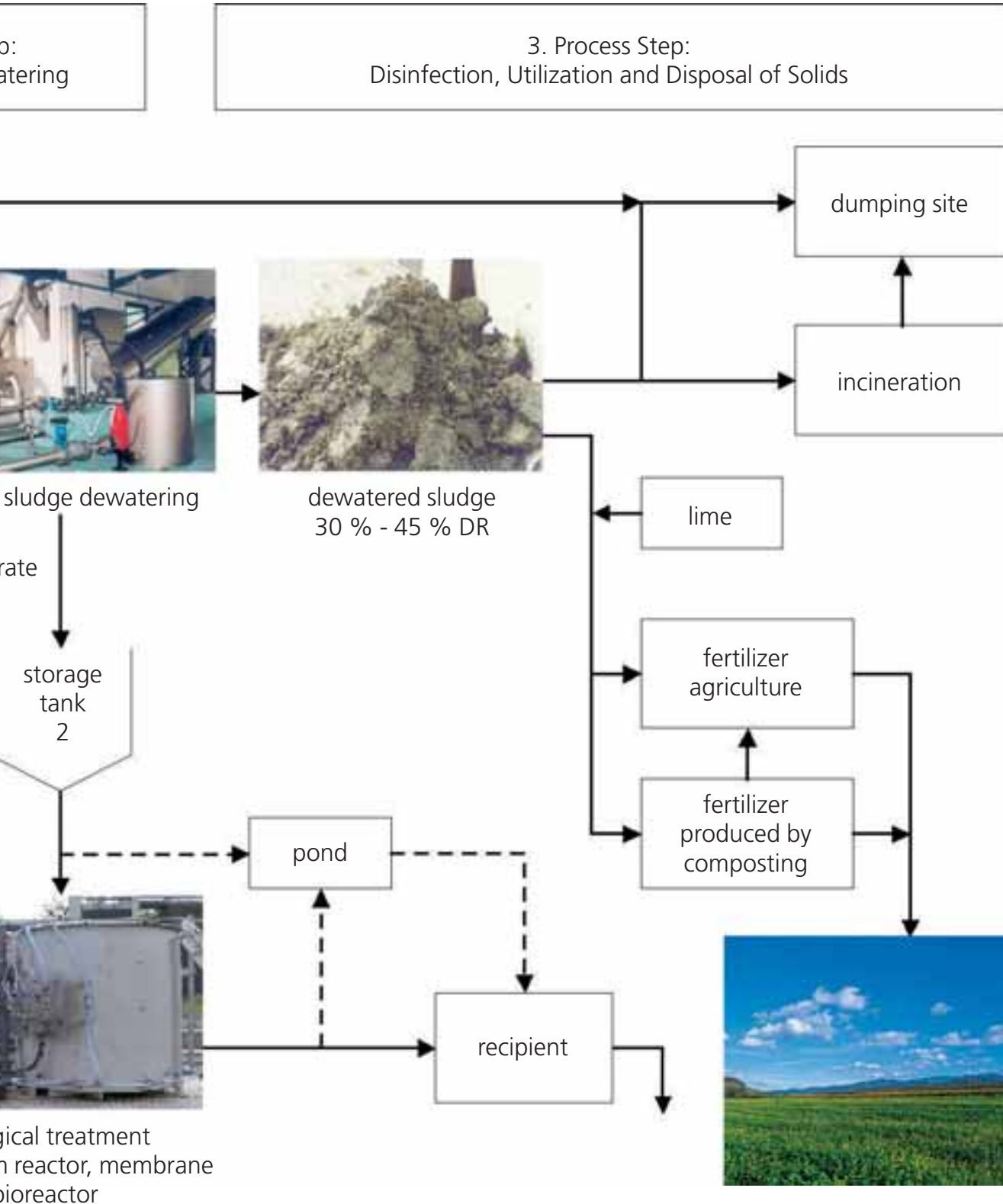


A Module for Decentralized Wastewater Treatment
Cost-Effective and Efficient Clarification of Faeces
Decentralized Wastewater and Septic Sludge Treatment
Decentralized Treatment of Faeces
Screening, Dewatering and Compaction of Septic Sludge



➤➤ Decentralized Wastewater and Septic Sludge Treatment Plant HFSB





The necessity of simplified mechanical septic sludge treatment

One of the most burning issues of environmental and health protection worldwide is collection and treatment of wastewater. It is absolutely necessary to supply the households with safe drinking water.

Investment costs for conventional wastewater discharge can be ten times as high as for wastewater treatment. As sanitary facilities are insufficient and no mixing of the different types of wastewater takes place, the faecal wastewater contains less wash water but significantly more faeces and kitchen waste so that disposal via wastewater channels would be impossible.

►► The solution

The HFSB Septic Sludge Treatment system and its possibilities

- Decentralized wastewater treatment
- Specific treatment of sludge from septic tanks

The septic sludge is regularly delivered to the wastewater treatment plant by tank vehicles. The HFSB system excels for its cost-effective and efficient clarification of big sludge amounts and comprises three independent treatment stages.

- 1. Stage:** Mechanical preliminary treatment: sludge screening
- 2. Stage:** Sludge filtration, dewatering and compaction
- 3. Stage:** Disinfection / conditioning of solid residues and biological treatment of the pre-clarified wastewater

The purpose of the septic sludge treatment system

- Complete mechanical septic sludge treatment
- Removal and conditioning of residues for advanced treatment

Treatment stage 1 and 2 of the HFSB system provide the possibility to better use existing wastewater treatment plants and design smaller new plants.

Process description of decentralized wastewater and septic sludge treatment

The wastewater from households has to be collected decentrally in septic tanks. Greywater can also be collected in the same tanks so that it no longer percolates with surface water. The tank overflow can be passed into the recipient by means of very simple open ditch systems, which effectively prevents discharge of a high BOD₅ and COD load into rivers, lakes and seas. The sludge from septic tanks requires intensive clarification.

While coarse material (screenings and grit) is mechanically separated from the septic sludge in the first treatment stage in a sludge acceptance plant, the sludge is continuously mechanically dewatered in the second stage to perform a complete mechanical preliminary wastewater treatment.

The third stage conditions the solid residues from the mechanical wastewater treatment stage to make it suitable for subsequent treatment. The liquid residues (filtrate and sludge liquor) receive a full biological treatment.

►► We offer for your benefit

- Only the liquid residues need a full biological treatment with the HFSB system, whereas with conventional systems the complete septic sludge amount has to be clarified biologically.
- The HFSB system is also operable without the biological treatment stage.

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Subject to technical modification

**HUBER Septic
Sludge Treatment
HFSB**