

URINE DIVERTING TOILETS

- demonstration sites

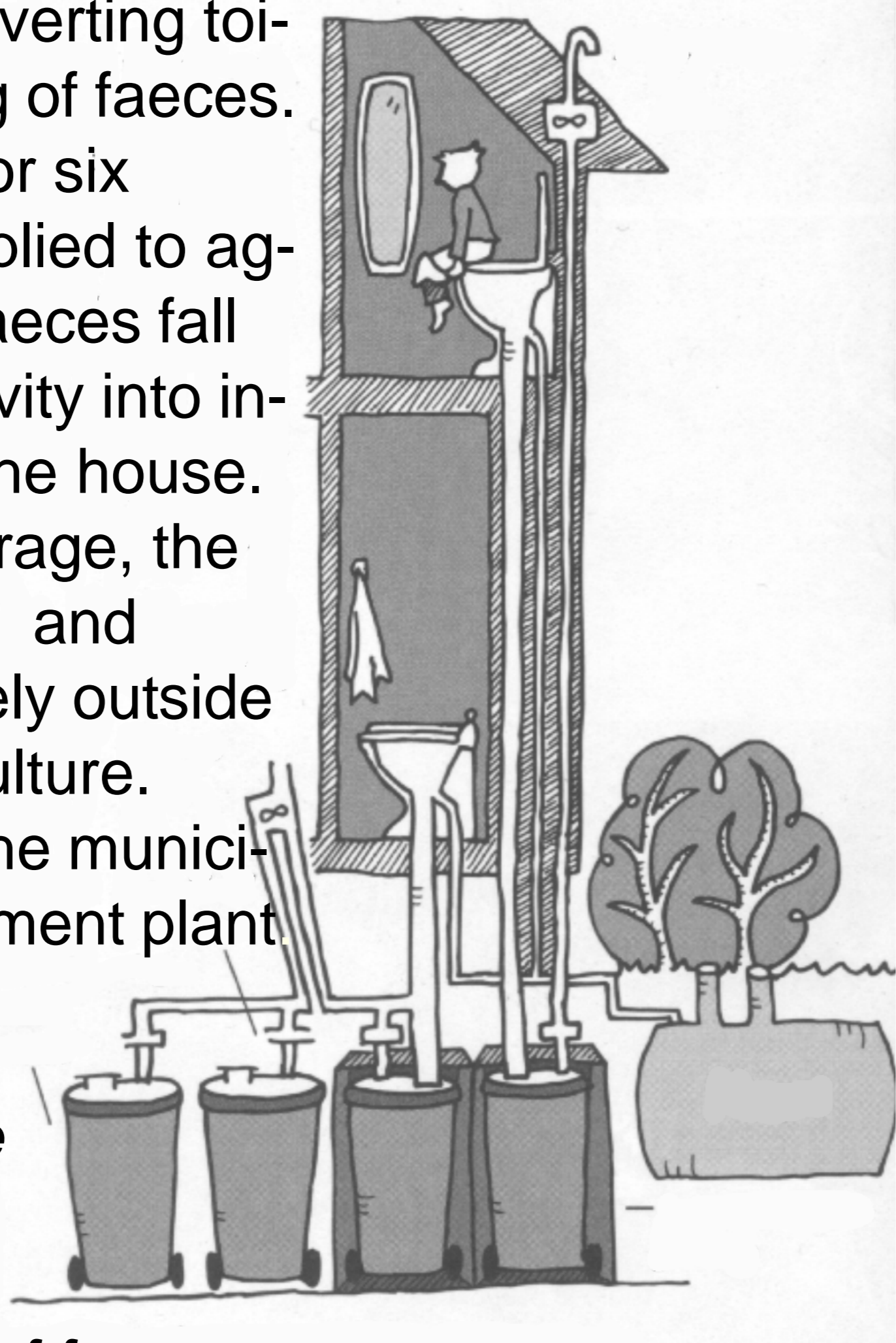
Urine-diverting toilets with dry handling of faeces are often a cost-efficient, hygienic and environmentally friendly alternative to water closets.

Dry urine-diverting toilets also facilitates the recovery of the valuable plant nutrients present in toilet waste. After storage, urine can be used as fertiliser. Faeces can be composted and used as soil conditioner.

This type of toilet has already been installed on many sites around the Baltic Sea. If the toilet system is managed correctly, users are generally satisfied with its function.

Gebers Housing Project, Stockholm, Sweden

A co-operative ecological housing project with 32 flats has installed urine diverting toilets with dry handling of faeces. The urine is stored for six months and then applied to agricultural land. The faeces fall straight down by gravity into individual bins under the house. After one year of storage, the faeces are taken out and composted collectively outside for later use in agriculture. Greywater is led to the municipal wastewater treatment plant.



A ventilation outlet leads air through the toilets. It takes away all odour and improves dehydration of faeces.



Faeces collection bin

Toilet at Gebers



Overall performance of the toilet system is satisfactory for the users. Occasional problems have been solved with good routines.

Urine collection tank

Upmali Biodynamic Farm and Health Centre, Renda, Latvia

At a biodynamical farm and health camp, three urine-diverting toilets with dry handling of faeces are installed. Since biodynamic farmers do not allow the use of human waste as fertiliser on crop for food production, the faeces are composted in a farm forest. The compost is used as fertiliser for trees and bushes. Urine is stored one year and then used to fertilise meadows.



Toilet at Upmali farm

The main benefits of this system is that there is no blackwater that can contaminate the river, which passes very close to the house. The toilets save a lot of water compared to ordinary water closets, which is very important for this farm that is supplied by its own well and often suffer water shortages during summer.

Fruit trees at Upmali farm

