

### **REQUIREMENTS (PER TOILET)**



#### Space

Kompotoi Classic: 1.3 m<sup>2</sup> Composting: off-site Composting and urine treatment off-site (1.3 m<sup>2</sup>/cabin)



### Energy use

Kompotoi cabins do not need energy nor water. Solar light and wood shavings for "flushing"



### Cost

OPEX around 200 CHF/month/toilet cabin rent. Includes off-site treatment for feces and urine



### **Operations & Maintenance**

Toilet cabin emptied and cleaned after around 400 uses

## TARGET OUTPUT IMPACT PROJECT



### Compost

Up to 240 m³ compost/year with all toilets. Can be used in CH with cantonal permit



### Urine based fertilizer

Up to 30 m³ urine fertilizer/year with all toilets. Holds fertilizer-permit



Feces & urine collection by Kompotoi AG Graphic: Delia Gregori

p.e. = Population Equivalent CAPEX = Capital Expenses OPEX = Operating Expenses



by Vuna GmbH

# Urine treatment Fece

Feces treatment by Kunz Baumschulen AG

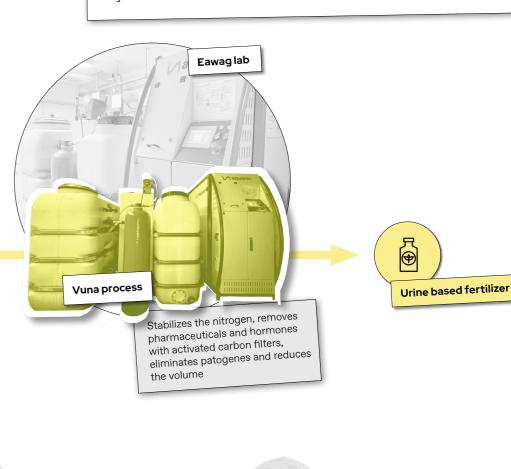


Since 202

Compost from mobile rental toilets for construction sites, public spaces and events.

The VaLoo Impact Project on composting demonstrates that heat-composting of dry toilet content enables hygienic and safe reuse of nutrients and organic matter. The project optimised the process, defined quality assurance and clarified the legal status of separately collected toilet contents to compost. As a project result, cantonal and federal authorithies defined process steps providing a clear legal stand.

In 2024, Kompotoi collected 350 m³ human output and 300,000 l urine . Urine can be turined into liquid fertilizer by the Vuna Process. Dry toilet contents are composted by Kunz Baumschule.





Composting

Urine tank

Urine

Waterless urinal

Must be emptied after

approx. 400 uses

Composting takes 8-12 weeks. During the hygienisation, regular turning provides the microorganisms with oxygen and allows them to multiply, generating heat which eliminates pathogens. In the maturing phase, the nutrients are stabilized

Dry toilet content consists

of urine, feces, toilet paper

and wood shavings

850 mobile toilets in CH

WITHIN

KUMPUTY

KUMPUTY

Dry toilet

**Human output** 

Fecal barrel

Rental toilets for construction sites, public toilets, events, etc.



The compost is safe for reuse and adds nutrients and organic matter to the soil