

MiZA Webinar

19th of April - 2 pm CET

Introducing food waste separate collection in MBT plants - On the ground with Domantas Tracevičius

Domantas Tracevičius



The Speaker



Domantas Tracevičius
Head of the environmental NGO "Ziedine
ekonomika"



Domantas Tracevičius

„MBT + separate food waste collection“

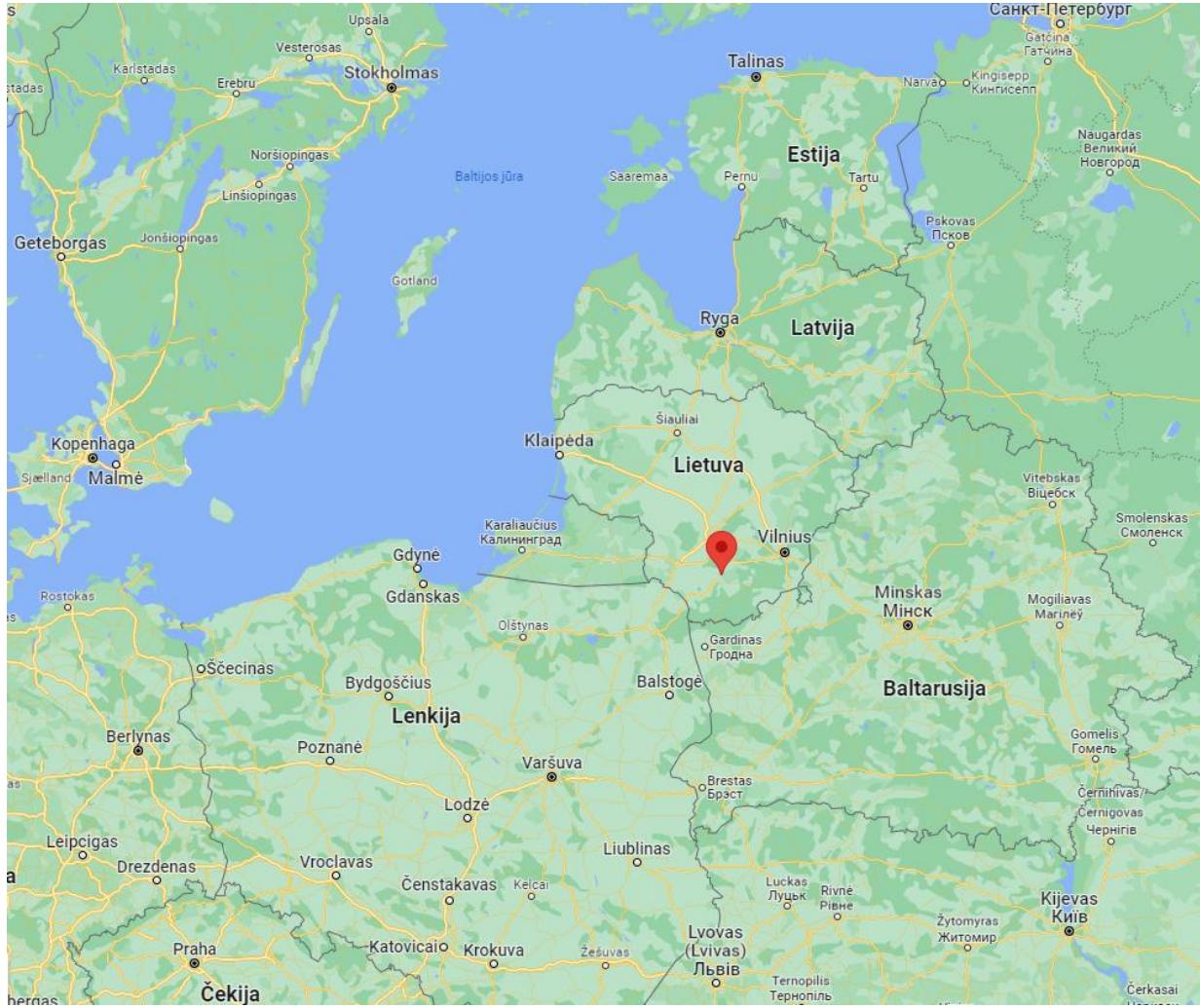
2022-04-19

Optimising MBTs: before and after



Alytus MTB
Plant

Alytus, Lithuania



Alytus MBT



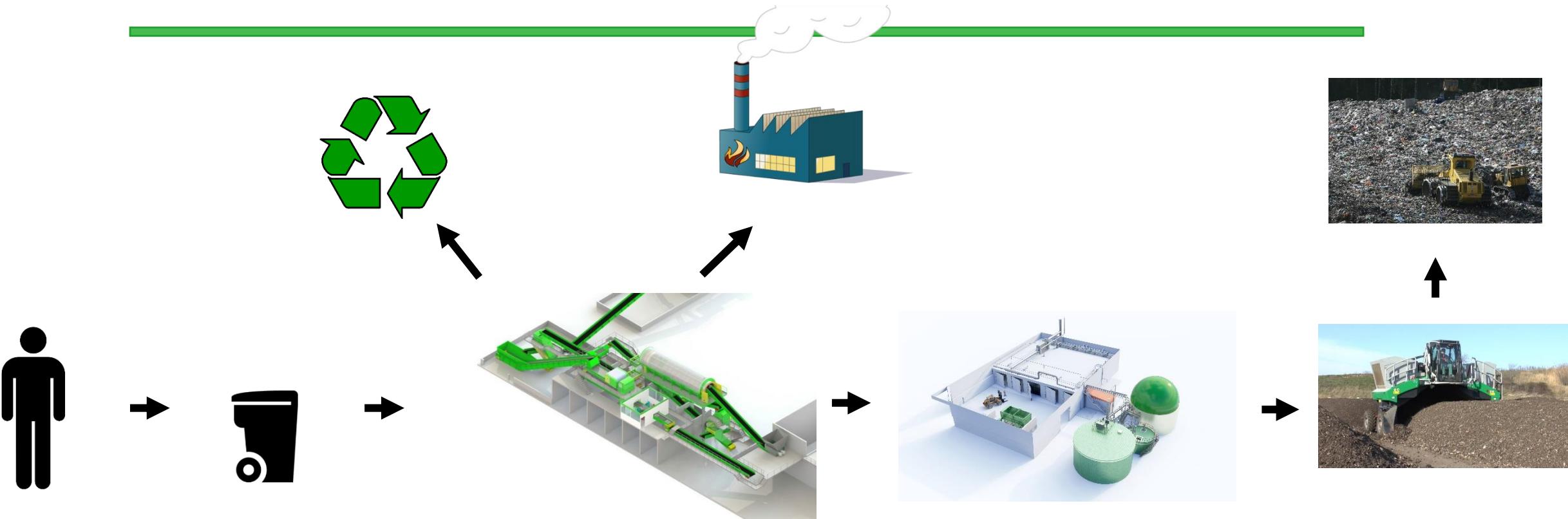
Alytus MBT





How is it possible to transform MBTs to treat separately collected food waste?

Bad way to do it

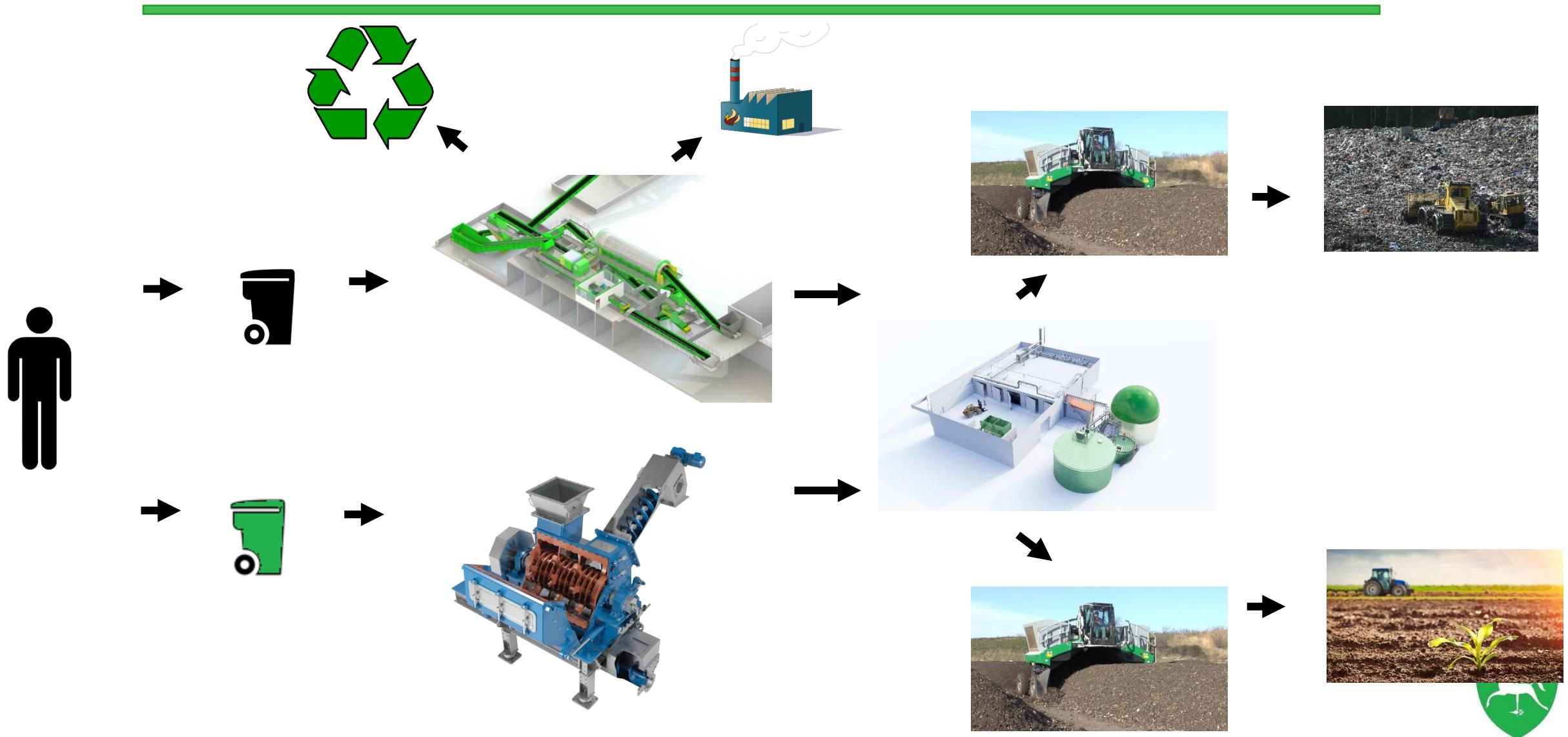


Organics matter

- Cleaner residual waste (better and more recyclables)
- Better sorting (better more recyclables)
- Composting (carbon neutral) or anaerobic digestion (carbon negative)
- Replacement for mineral fertilizer
- Carbon sequestration



Better way to do it



Containers



Incentives



Abfallgefäß	120-Liter-Tonne	240-Liter-Tonne
Restabfalltonne im Leerungssystem	81,80 EUR / Jahr inkl. 4 Leerungen Jede weitere Leerung: 6,70 EUR	196,54 EUR / Jahr inkl. 10 Leerungen Jede weitere Leerung: 13,41 EUR
Restabfalltonne im Verwiegesystem nur in Losheim	69,82 EUR / Jahr inkl. 38 kg Restabfall Jedes weitere Kilo: 0,39 EUR	154,48 EUR / Jahr inkl. 236 kg Restabfall Jedes weitere Kilo: 0,39 EUR
Biotonne	14-tägliche Leerung 58,00 EUR / Jahr	



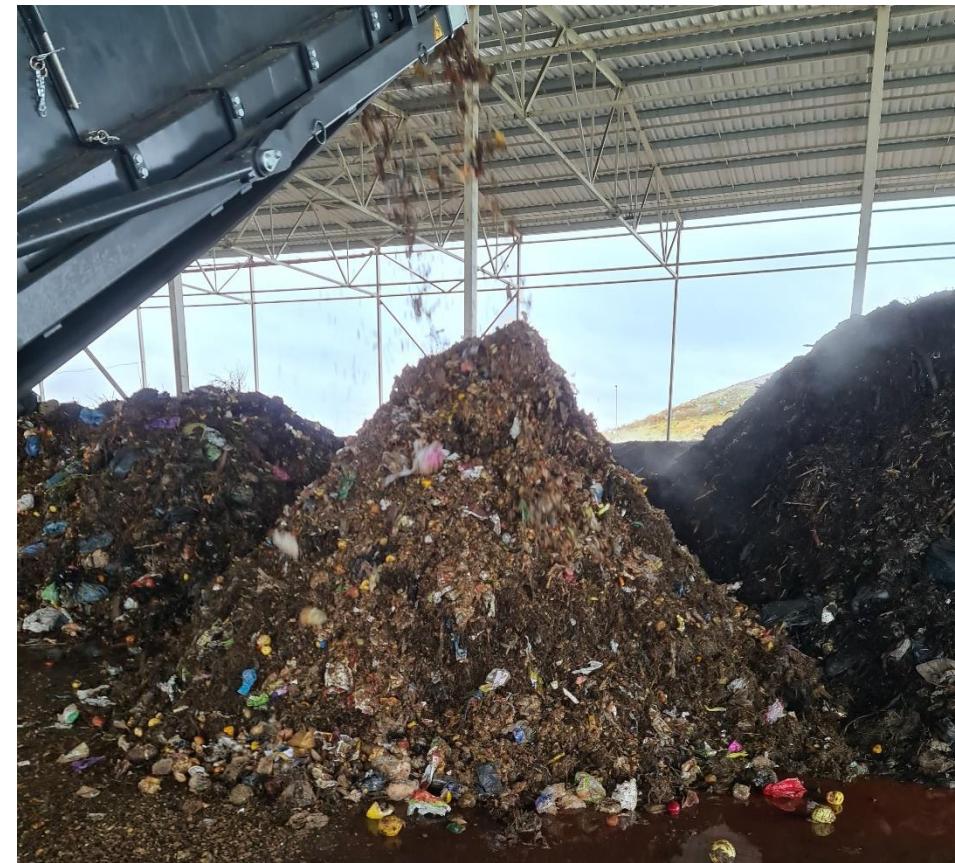
Policy:mandatory/non-mandatory + quality control



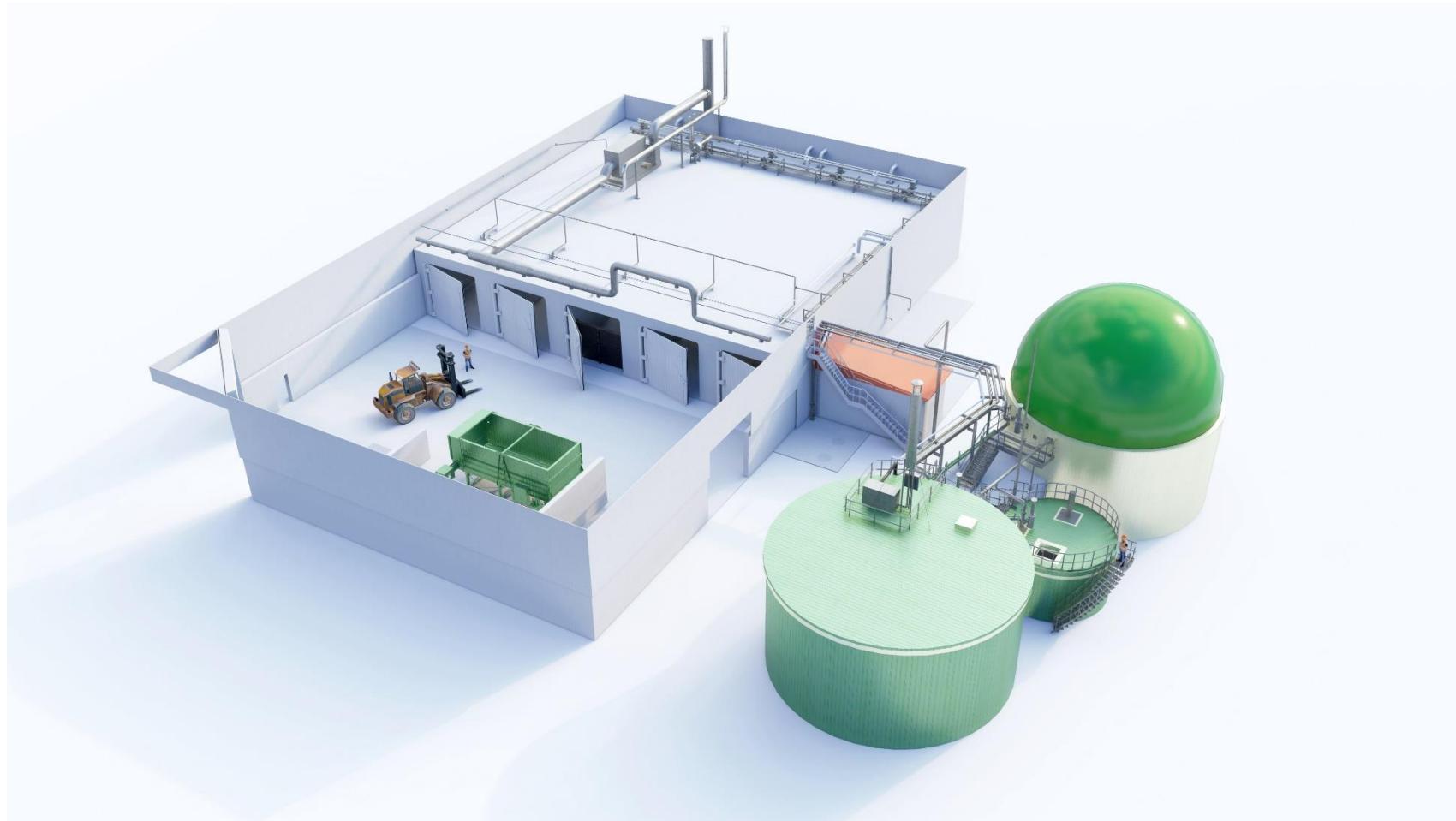
Trucks



Shredder



AD



Post AD composting



Sieving I



Sieving II



Agricultural use





A small green plant with several thin stems and green leaves is growing out of a stack of various coins (silver, gold, and bronze) on a light-colored surface. To the left, the open pages of a book are visible.

**What are the costs,
benefits and
challenges of this
transformation?**

Total investments

Shredder: 540 000 €

Sieve I: 240 000 €

Sieve II: 190 000 €

Total: 970 000 €



Residual waste vs food waste

Waste	2018	2019
Residual	37 000 t	31 000 t
Food	-	4 500 t



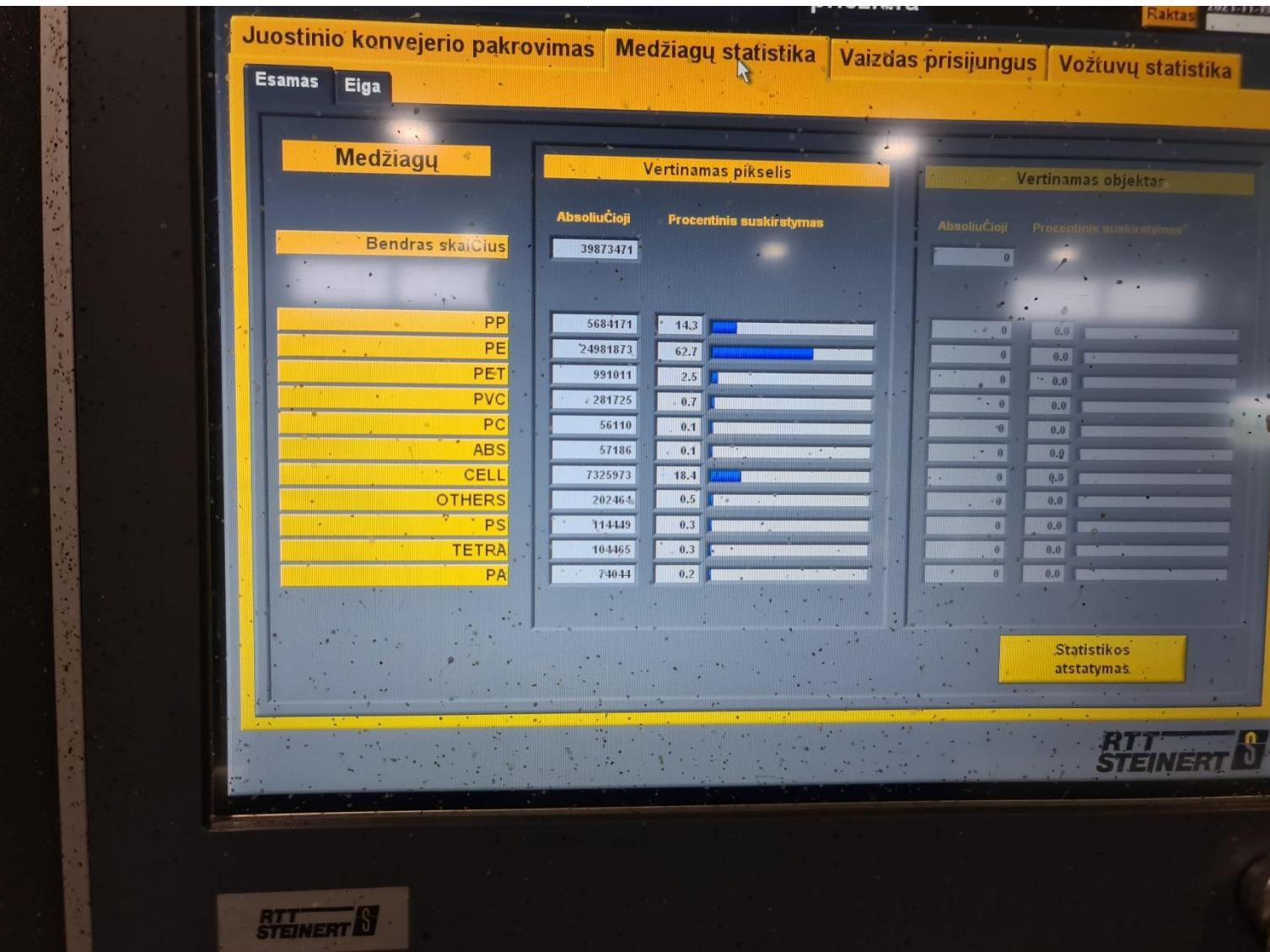
How can the residual treatment be further optimised once the organics fraction is reduced through separate collection?



Mechanical part



Future improvements



ABPR: temperatures





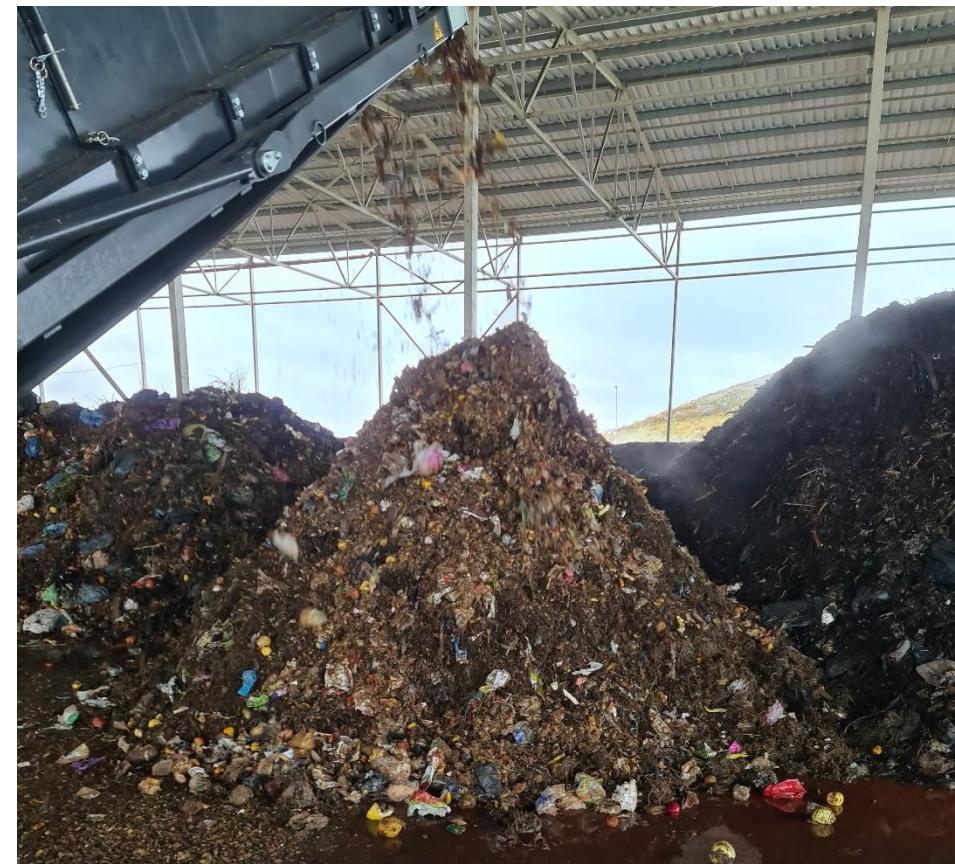
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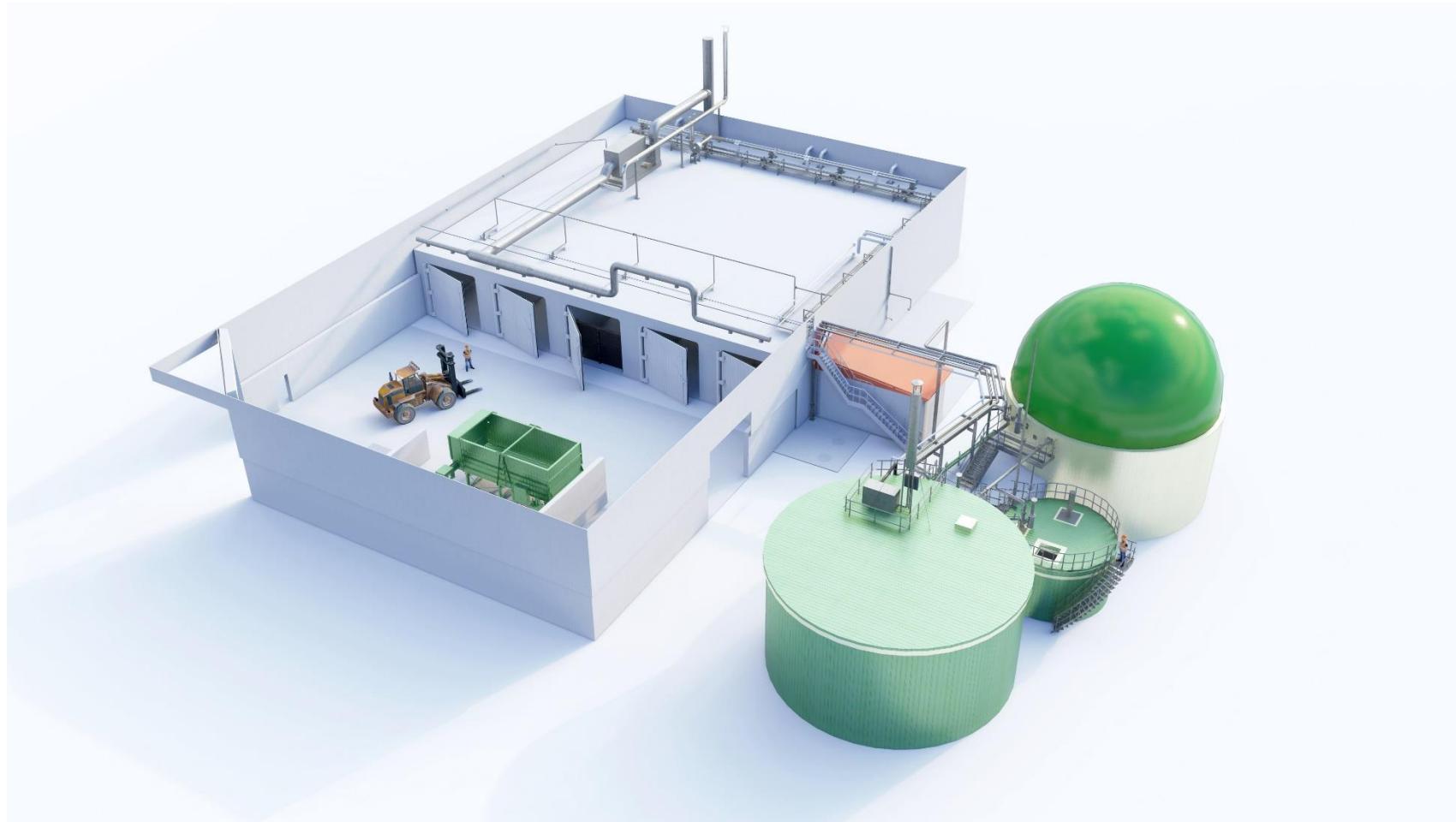
Questions!?

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Shredder



AD



Post AD composting



Sieving I



Sieving II





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Questions!?

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