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FROM WASTE TO COMPLIANCE AND PRODUCT
SMART DECENTRALIZED CIRCULARITY FOR CYPRUS,
TURNING ORGANIC WASTE INTO LOCAL VALUE
ONE MOBILE BIO-CONVERTER AT A TIME

Nicosia, 27 November 2025

JULIUS DE JONG
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COST SAVINGS
NEW REVENUE STREAMS
REDUCED LOGISTICS
AVOIDED EMISSIONS
OPERATIONAL RELIABILITY
COMPLIANCE

WITH US, YOU* WIN.

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THE PROBLEM

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~258,153

Tonnes of bio-waste is produced in Cyprus each year[1]

42% OF TOTAL WASTE VOLUME FOR CYPRUS IS ORGANIC

This results in 165,000 – 287,000 tonnes CO2e emissions per year[2]; the equivalent of the emission from 36,000-62,000 passenger cars.

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[1] Cyprus Press and Information Office (PIO)
[2] Climatiq.
[3] Based on data from Nicosia Developmental Agency, EOA and EOAL.

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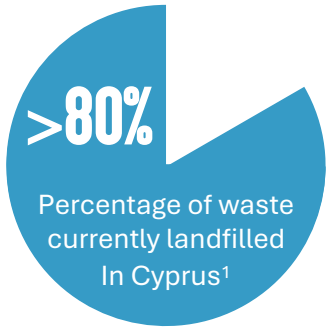

LARGE ORGANIC WASTE VOLUMES REMAIN UNTREATED

Moisture-rich organic waste often remains untreated because existing facilities lack capacity, with only ~2% of composting capacity in Cyprus[1].

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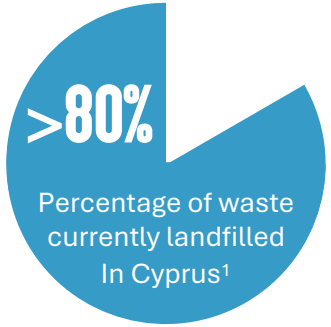

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HIGH TRANSPORTATION- AND DISPOSAL COSTS

Most of the organic waste volume is landfilled with a gate fee of €40/tonne[3]. From 2027, this amount will be doubled with EU landfilling penalties of €40/tonne bringing the total cost at €140/tonne.

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THE SOLUTION

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DECENTRALIZED AND SOFTWARE ENABLED AUTOMATED ORGANIC WASTE VALORIZATION,

CLOSE TO THE SOURCE.

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DECENTRALIZED AND SOFTWARE ENABLED AUTOMATED ORGANIC WASTE VALORIZATION,

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No unnecessary hauling of moisture rich organic waste over long distances, wasting fuel, time, and money.

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Significantly lower waste contamination levels result in greater final product value and increased recycling rates.

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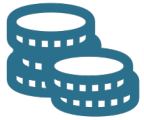

Standardized MBC production results in lower CAPEX cost/tonne and faster deployment than centralized treatment facilities.

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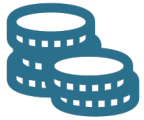

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Mobile MBC deployment increases waste treatment capacity and flexibility to address seasonal volume changes.

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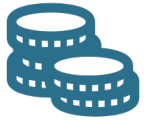

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Mobile MBC deployment increases waste treatment capacity and flexibility to address seasonal volume changes.

Faster processing with less transportation, handling and storage results in lower emissions and costs.

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HOW TECHNOLOGY EXPLAINED

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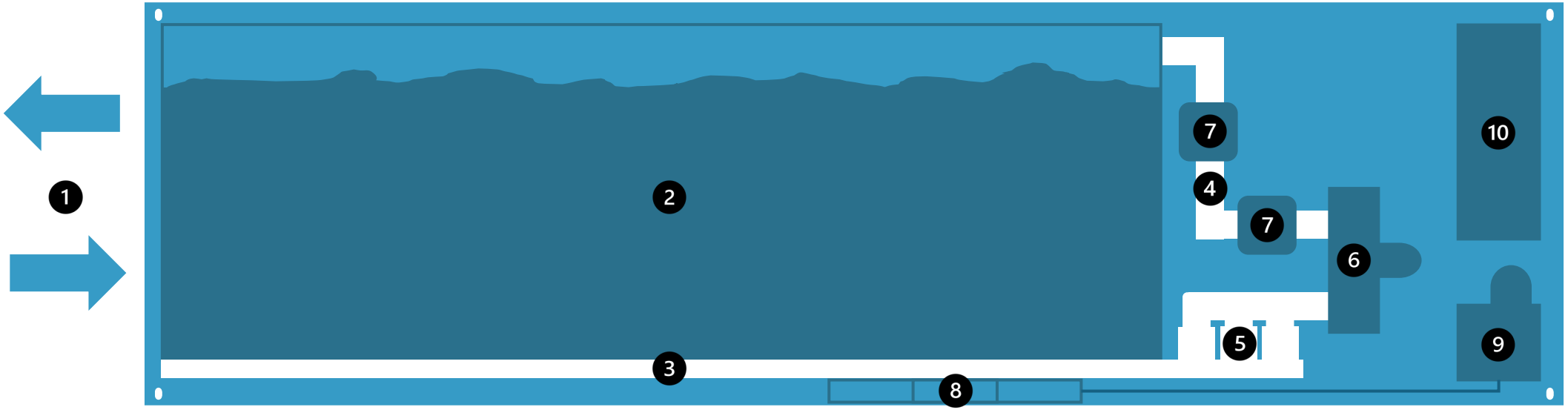
RELIABLE, AUTOMATED PROCESS

Software-driven automation minimizes manual intervention, with AI and machine learning advancements underway to further optimize system performance and future SaaS scaling.

ROBUST, PROVEN TECHNOLOGY (PATENT PENDING)

Reliable technology, engineered for maximum uptime, built on 40+ years of operational experience in organic waste management across Europe, North-America and Asia.



1. Rear loading/unloading with mini-loader and conveyor belt
2. Closed reactor space for controlled processing conditions
3. Dynamic aerated floor system for efficient loading/unloading
4. Ductwork with integrated sensor-technology
5. Dynamic pressure chambers ensure uniform airflow
6. Frequency-controlled high-pressure fan for optimal airflow
7. Heat exchangers enabling sustainable heat recovery
8. Hydraulic drive unit for dynamic aerated floor
9. Hydraulic pump powering floor drive unit
10. Advanced control cabinet for automation and monitoring

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MOBILE BIO-CONVERTER VISIT CYPRUS DELEGATION

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June 2025 visit to the Netherlands by the Cypriot delegation comprising Minister Maria Panayiotou and other representatives from of the Ministry of Agriculture, Rural Development and Environment, the Department of Agriculture, and the Agricultural Research Institute.

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MOBILE BIO-CONVERTER LAYOUT, LOADING & UNLOADING

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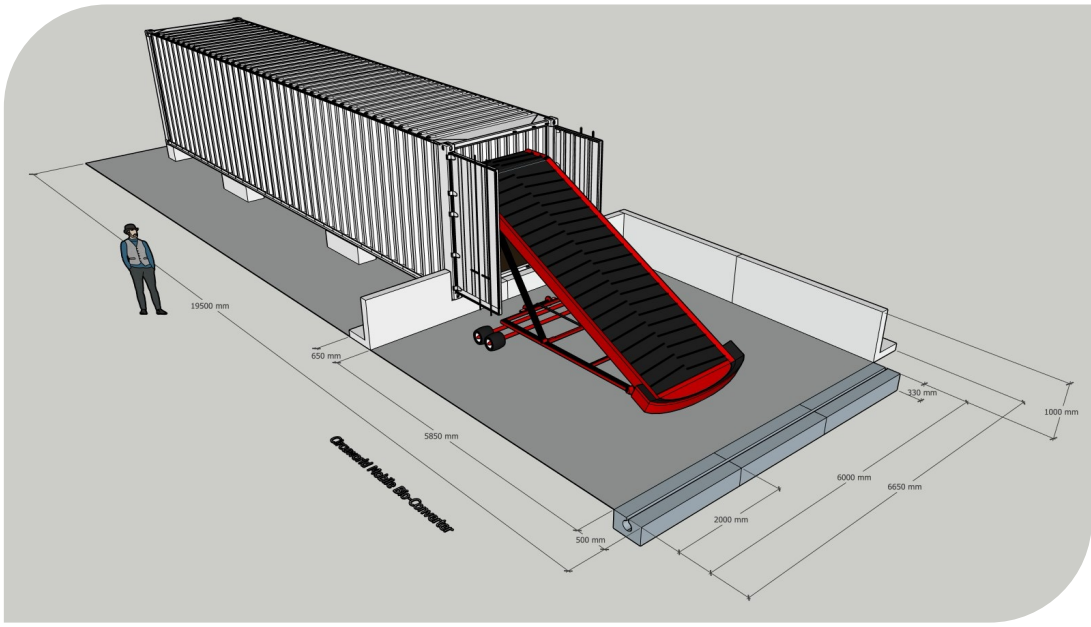
Loading process with chicken manure at demonstration site. Normally, a wider conveyor belt is used for a faster and uniform filling process.



Typical layout footprint which allows for compliant, swift, clean and organized processing.

SPACING SETUP

- 130 m2 (19.5 x 6.65 m)
- Push walls for quick and clean processing

ADDITIONAL REQUIREMENTS

- Maneuvering space: depending on truck size
- Input bulk storage: 40 m3
- Output bulk storage: depending on off-take frequency
- Mini-loader (typically ≤2m wide bucket)
- Cleaning protocol between loading and unloading
- 15 m2 additional space for bio-filter (when applicable)

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ABOUT CIRCUWORLD

ROBUST PROCESSES AND TECHNOLOGY

Based on 40+ years of experience in industrial organic waste treatment

OPERATIONAL EXCELLENCE

As former operators and owners of multiple large-scale organic waste facilities in international markets, we draw on direct experience to focus on up-time and cost efficiency

ORGANIC FERTILIZER PRODUCTION, SALES AND EXPORTS

Active in the production, sale and export of high-quality organic fertilizer products since 2017

MOBILE BIO-CONVERTER

Small-scale and decentralized valorization of a wide range of organic waste streams

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CIRCUWORLD AND ORGAWORLD REFERENCES

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Orgaworld
Asia

Dry Anaerobic Digestion
Lelystad, The Netherlands

Capacity: 55,000 tons/annum
Location Size: 1 ha
Project Duration: 1994-1996, operations ongoing (24/7)

In-vessel Composting
Drachten, The Netherlands

Capacity: 75,000 tons/annum
Location Size: 2 ha
Project Duration: 1998, operations ongoing

Tunnel Composting
Lelystad, The Netherlands

Capacity: 110,000 tons/annum
Location Size: 1,5 ha
Project Duration: 2000-2001, operations ongoing (24/7)

Tunnel Composting
London, Canada

Capacity: 150,000 tons/annum
Location Size: 5 ha
Project Duration: 2007-2009, operations ongoing (24/7)

Tunnel Composting
Ottawa, Canada

Capacity: 100,000 tons/annum
Location Size: 4.5 ha
Project Duration: 2008-2010, operations ongoing (24/7)

Wet Anaerobic Digestion
Amsterdam, The Netherlands

Capacity: 120,000 tons/annum
Location Size: 1,5 ha
Project Duration: 2009-2010, operations ongoing (24/7)

Wet Anaerobic Digestion
Cumbernauld, United Kingdom

Capacity: 70,000 tons/annum
Location Size: 2 ha
Project Duration: 2009-2011, operations ongoing

Dry Anaerobic Digestion
Surrey, Canada

Capacity: 115,000 tons/annum
Location Size: 1.5 ha
Project Duration: 2015-2016, operations ongoing (24/7)

Agile Bio-Converter Facility
Gemert, The Netherlands

Capacity: 36,000 tons/annum
Location Size: 0.4 ha
Project Duration: 2014-2015, operations ongoing (24/7)

Agile Bio-Converter Facility
Asten, The Netherlands

Capacity: 46,000 tons/annum
Location Size: 1.5 ha
Project Duration: 2016, operations ongoing (24/7)

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Agile Bio-Converter Facility
Arendonk, Belgium

Capacity: 25,000 tons/annum
Location Size: 0.3 ha
Project Duration: 2018, operations ongoing (24/7)

Agile Bio-Converter Facility
Stavanger, Norway

Capacity: 30,000 tons/annum
Location Size: 0.3 ha
Project Duration: 2019-2020, operations ongoing (24/7)

Agile Bio-Converter Facility
Apeldoorn, The Netherlands

Capacity: 70,000 tons/annum
Location Size: 1 ha
Project Duration: 2019-2020, operations ongoing (24/7)

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OUTPUTS HIGH-QUALITY ORGANIC FERTILIZER PRODUCTS

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UNIFORM AND HOMOGENEOUS PROCESS

The Mobile Bio-Converter process enables a year-round uniform production process which guarantees uniformity and homogeneity in the organic fertilizers produced.

ORGANICS MATTER®

The Organics Matter® products produced with the Mobile Bio-Converter are rich in organic matter, slow-release nutrients, micro-nutrients and trace elements supporting circular agriculture and sustainable soil health.

MARKETING AND SALES SUPPORT

When desired, Circuworld can contribute its expertise and experience with the marketing and sales of the organic fertilizers produced, possibly under the Organics Matter® brand also offering Control Union certified organic inputs.

CONTROL UNION
APPROVED INPUT: National Organic Program NOP

CONTROL UNION CERTIFIED
INPUT: Organic EU

ORGANICS MATTER®

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CONTACT

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Σας ευχαριστώ!

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