

Bio Tank[®]

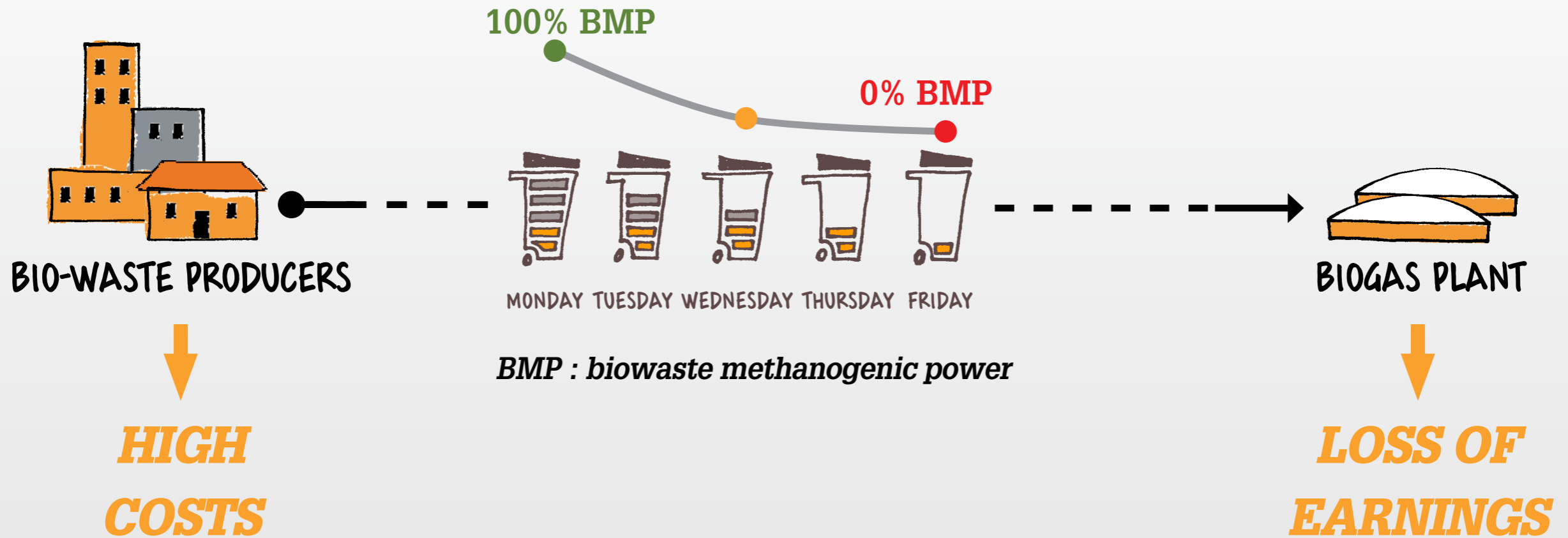
The missing link

Supported by



■ The problem with bio-waste

The *loss of methanogenic* power weakens the entire biowaste value chain.



■ **Bio Tank[®] : the missing link in the supply chain**

Fact:

Biowaste energy potential is under estimated as the supply chain is not equipped with any **specific storage hardware**.

As a consequence, **frequency of transports increases** to limit **nuisance** linked to the decomposition and **loss of methanogenic power**.



Our solution:

A **specific equipment** which:

- **Reduces transportation**
and
- **Eliminates nuisance**
while
- **Retaining methanogenic power**

■ Bio Tank® is a SOLUTION against nuisances

1 Bio Tank® eliminates nuisance (smells, juice, pest, insects)

➔ *reduce pollution and energy consumption*
(greenhouse gaz emissions, detergent, water, energy...)

WITHOUT BIO TANK®



WITH BIO TANK®

~~SMELLS~~

~~INSECTS~~

~~PEST~~

- **Bio Tank[®] is a SOLUTION to reduce road transport**

- 2 **Bio Tank[®] removes the urgency to collect waste**

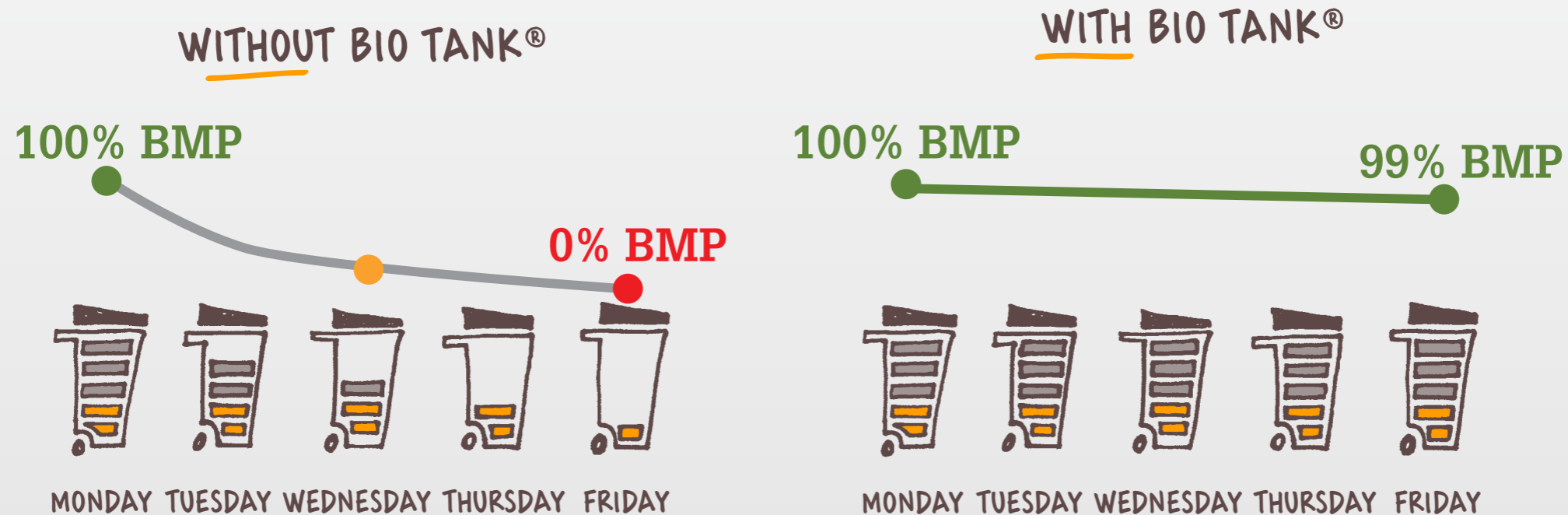
➡ *significantly reduces the number of transports
and associated costs (labor, equipment, CO₂, traffic...)*



- **Bio Tank[®] is a SOLUTION for methanisation**

- 3 Bio Tank[®] retains biowaste methanogenic power (BMP)

➡ *increases production of biomethane by 20 to 30 %*



- **Bio Tank®:**
 - maintains methanogenic power
 - facilitates the collection of bio-waste



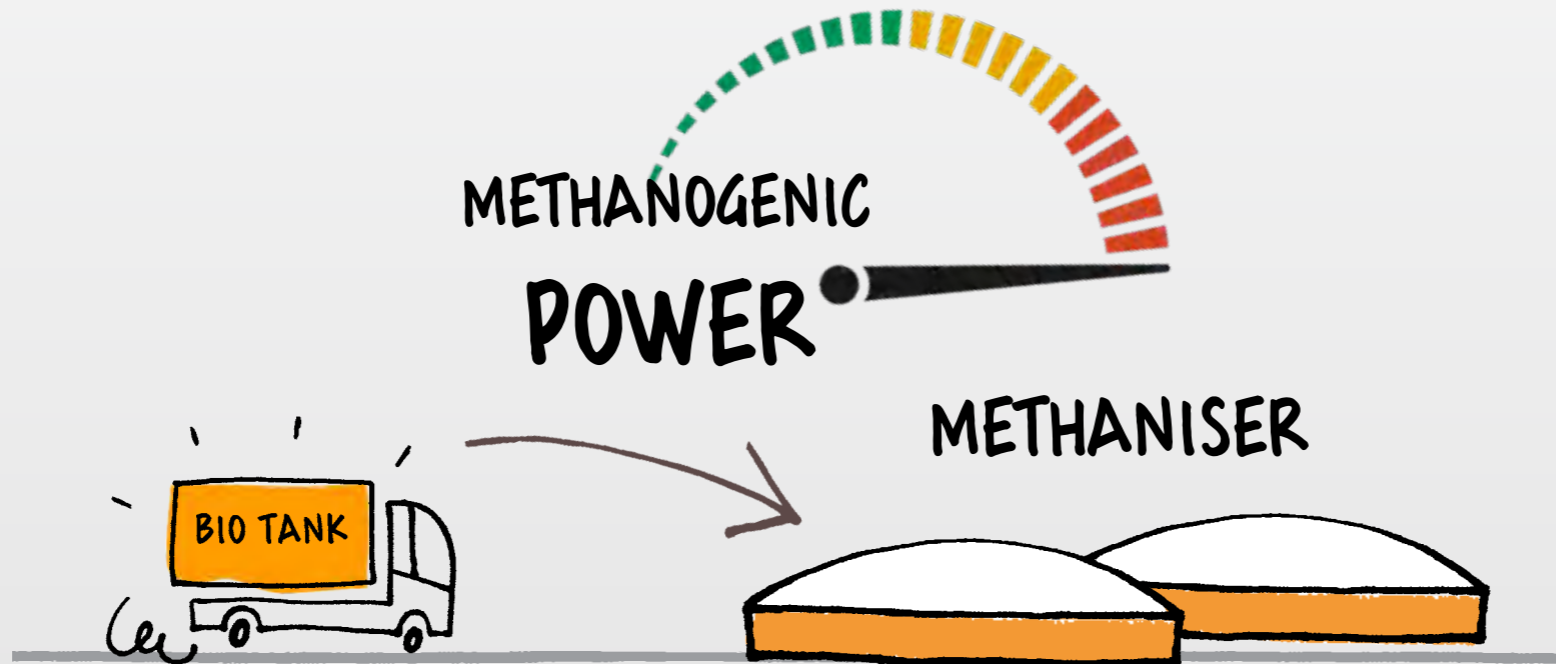
Bio Tank®

- **For PRODUCERS,**

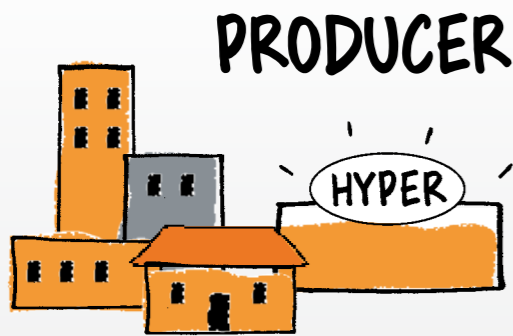
➔ **For more simplicity and economy, Bio Tank[®] offers an “As-A-Service” solution for collecting bio-waste.**

- Tonne-based price for the producer
- No investments needed : equipment provided by BioTank[®]
- Transport management : removal and emptying
- Recovery at the methanization unit in local short circuit
- Administrative management

- **For METHANISERS, Bio Tank®**
 - ➔ **is securing bio-waste supply**
 - ➔ **with regular frequency and quality**
 - ➔ **with methanogenic power**



■ Bio Tank[®] : added value for all parties



SIMPLICITY

and value in use:

- ✓ removes nuisance
- ✓ removes CapEx
- ✓ regulatory obligations
- ✓ environmental and societal expectations



OPTIMISATION

and environment:

- ✓ higher volume flows
- ✓ slower rotation

METHANISEUR

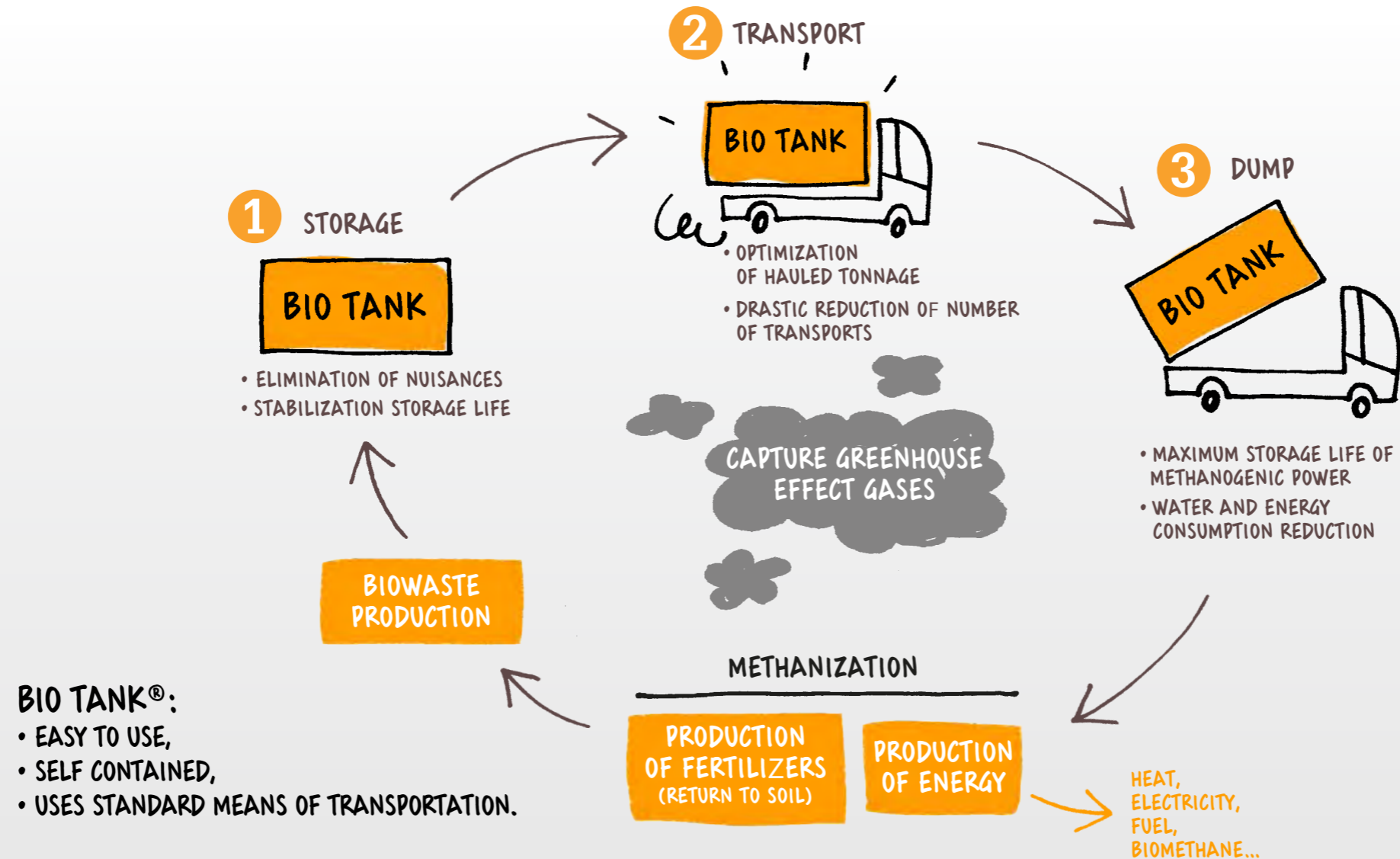


PRODUCTIVITY

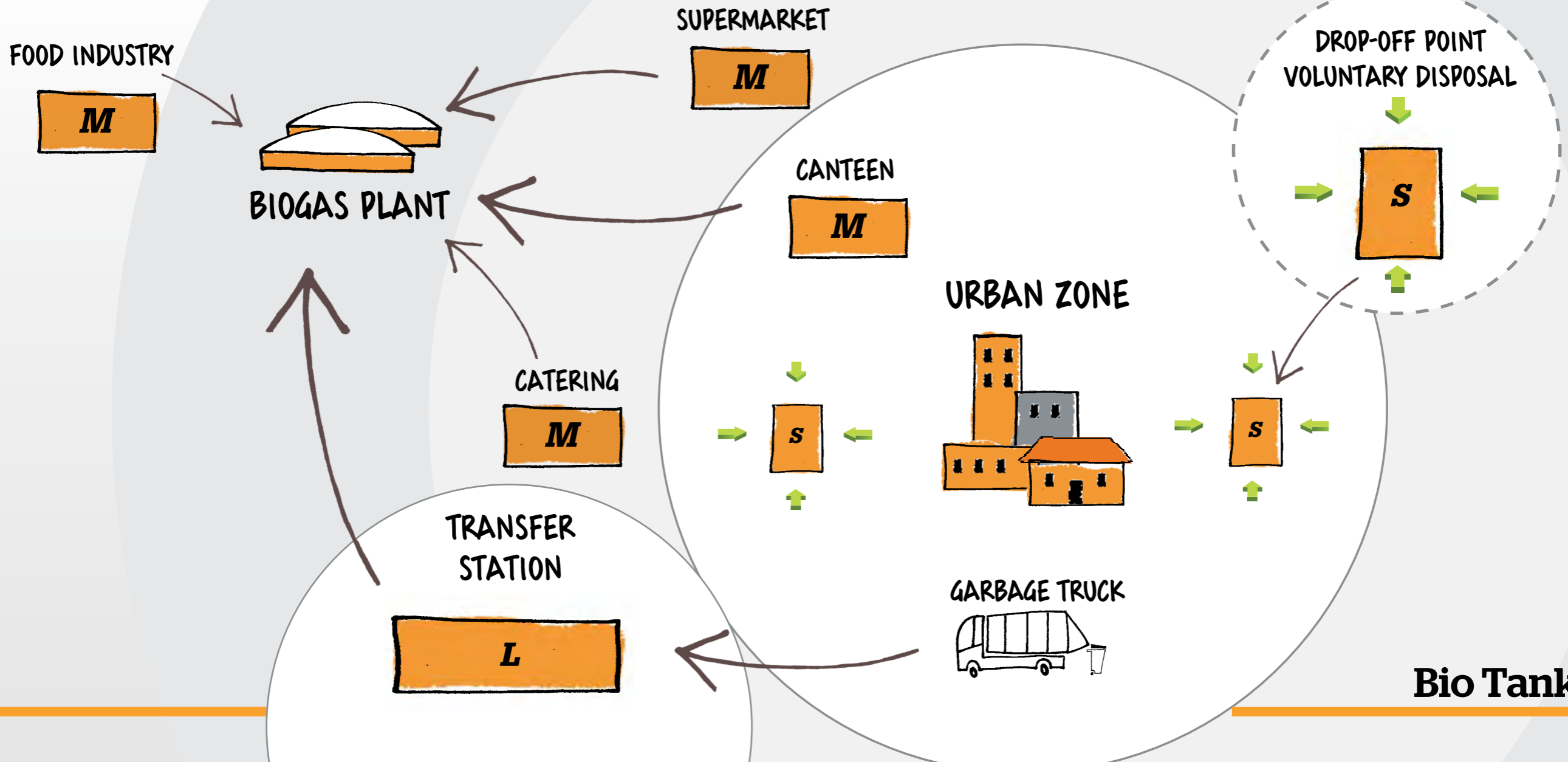
and economic value:

- ✓ secure supply
- ✓ regular frequency and quality
- ✓ higher methanogenic power
- ✓ more production

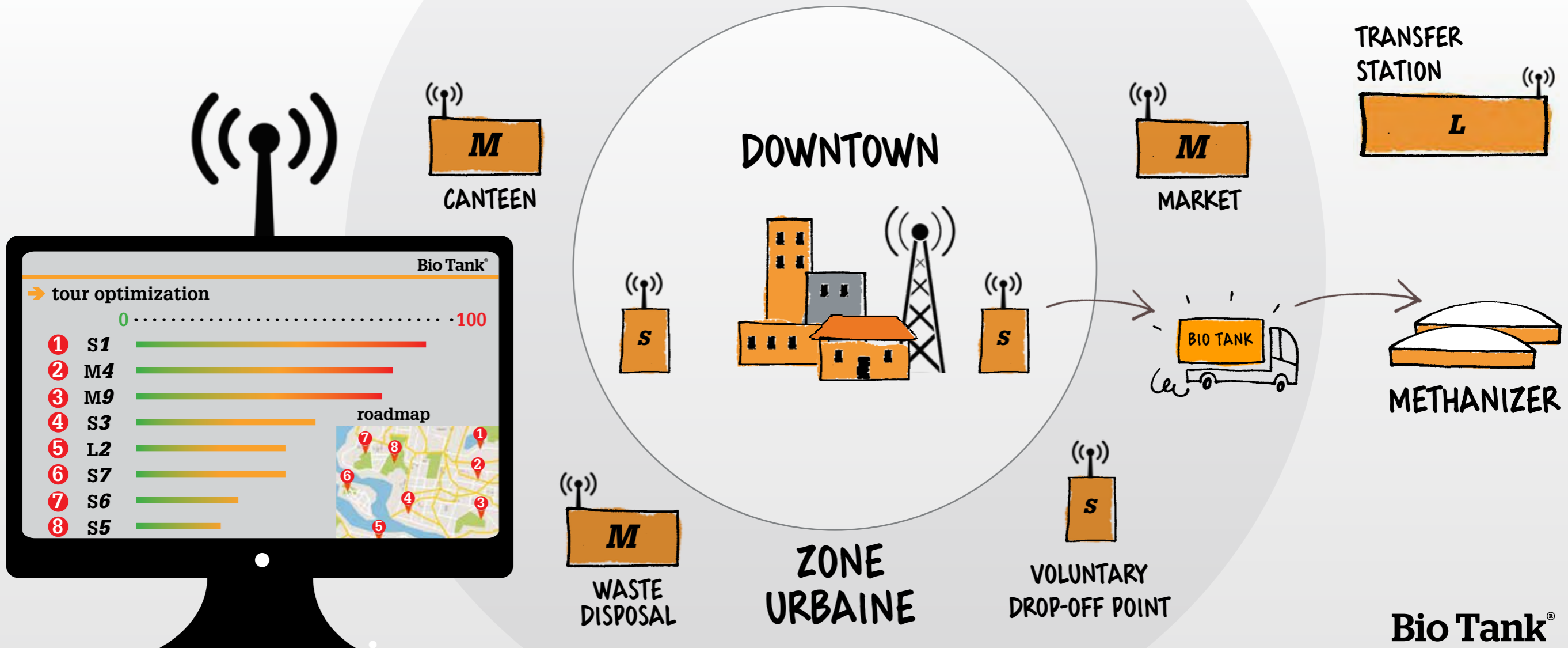
■ Bio Tank® = circular economy and energy transition



- **Bio Tank[®] optimizes collection and consolidates transportation**

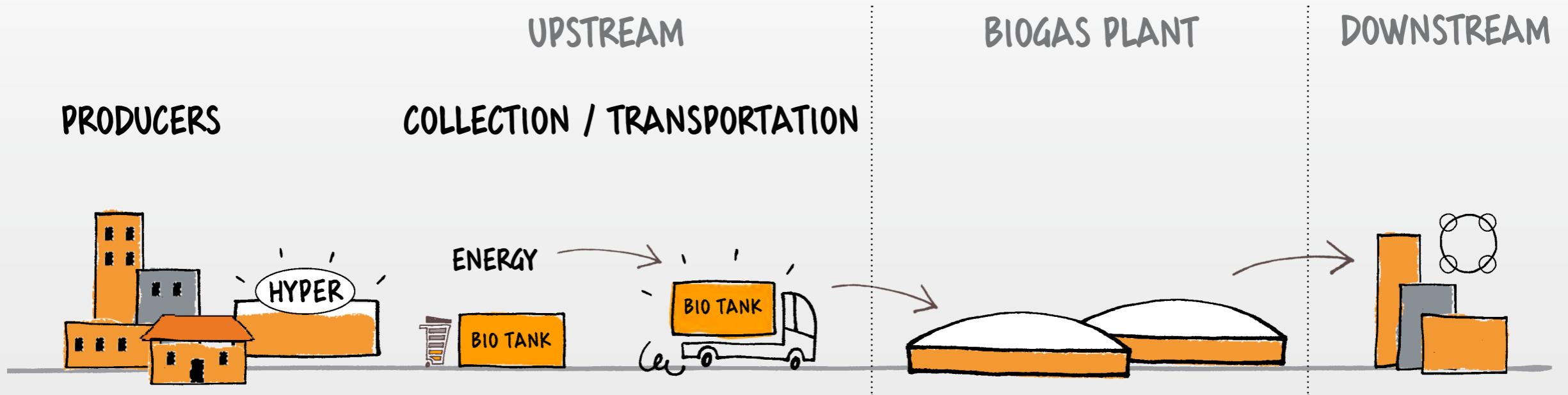


- **Bio Tank® integrates an information system: access control, operation, emptying, measurements...**



- **Bio Tank[®] stores biowaste energy**

Bio Tank[®] conserves biowaste energy upon their production until their use.



Bio Tank[®] is the missing link in the biowaste value chain.

■ Bio Tank®: one technology, custom tank sizes

S

Bio Tank® S

- *manual feed*
 - vertical housing
 - marketplaces / events
 - drop-off point
 - waste collection site



M

Bio Tank® M

- *tipping device for tank*
 - collective catering
 - catering
 - food industry
 - waste collection site



L

Bio Tank® L

- *fixed hopper wharf*
 - transfer station
 - collect logistic center (cities, regions,...)



Bio Tank®

- **Bio Tank[®]: 2 technologies for 2 distinct streams**

Bio Tank[®] PACK

*PACKAGED
or mixed bio-waste*



- ☒ domestic waste collection
- ☒ requires an unpack unit

Bio Tank[®] CLEAN

*UNWRAPPED BULK
bio-waste*



- ☒ ground and hydrolysed soup
- ☐ in situ hygienization

- **In short:**

- **Bio Tank® is an electrical, stand-alone and airtight equipment.**

- **It eliminates nuisance at the collection site.**

- **It is placed at the producer site and emptied only when full.**

- **It optimizes the upstream supply chain of biowaste.**

- **It maximizes the methanogenic power of the inputs.**

- **It allows to reorient biowaste to methanization.**

- **Bio Tank® is the reasonable solution for domestic waste collection.**

- **Public acceptability and return on investment**

Thank you for your attention.

Bio Tank[®]

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