

Next Generation Reporting for Waste & Residue Supply Chain

Presented by :

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A little about myself

- Established the operations at age 17 - dropped out of school
- The venture was solely focused on waste and residues
- Aggressively growing our supply chain influencing and educating more and more producers in the region - food security
- Regular bulk volumes have enabled us to supply global biofuel players with feedstocks required - Scalability
- Deploying innovative solutions into the market we are poised to be the single most transparent supplier of waste and residue feedstocks globally - Out of the box

- Today at the age of 29 and twelve years later we are confident that with our steadfast focus of innovation in the area of waste and residues, we have revolutionised the industry and would want to call for more participation to push this agenda to the next level - future focussed

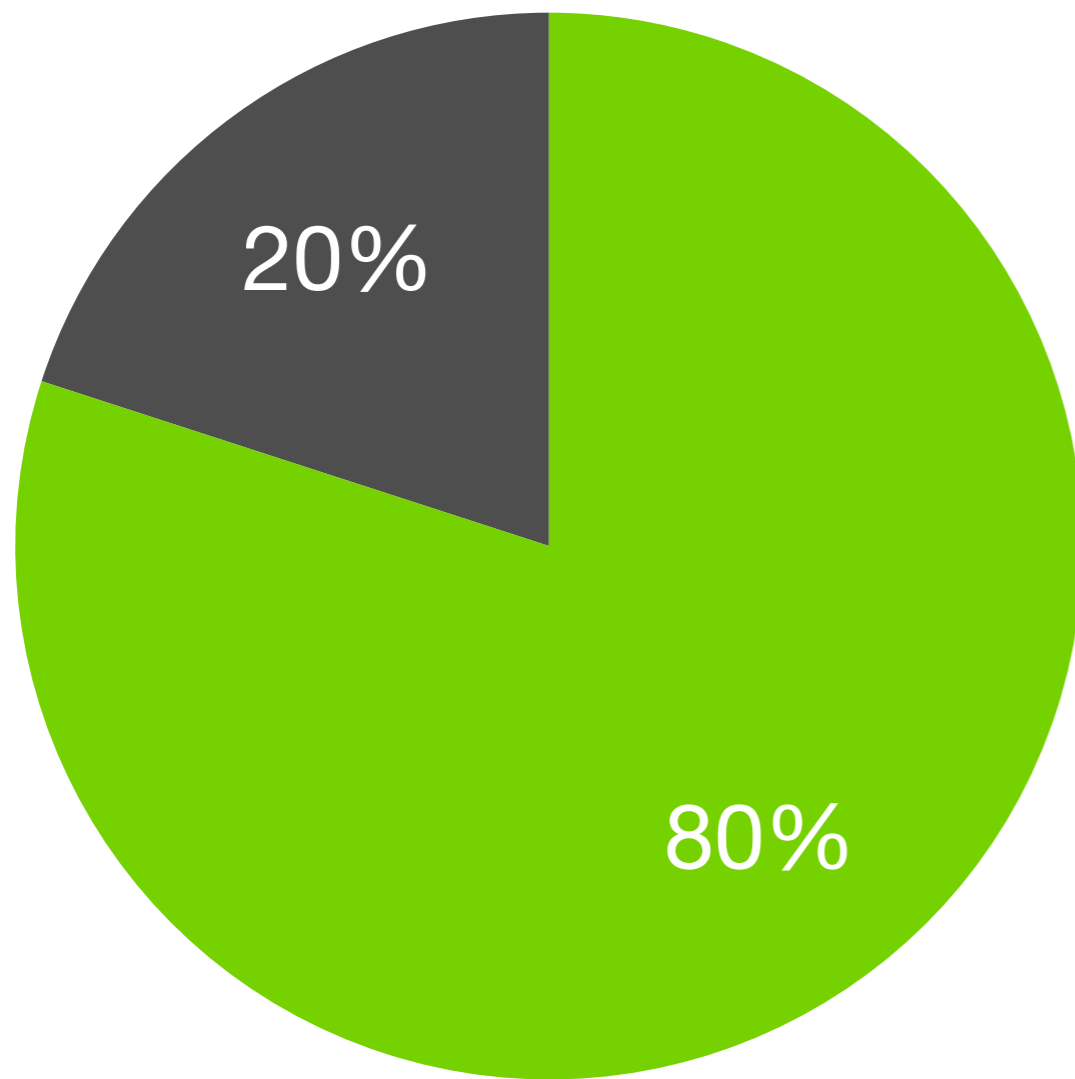


Our Vision

Constantly developing sustainable **fats, oils and grease solutions** for the purpose of **advance biofuel production** since year 2005

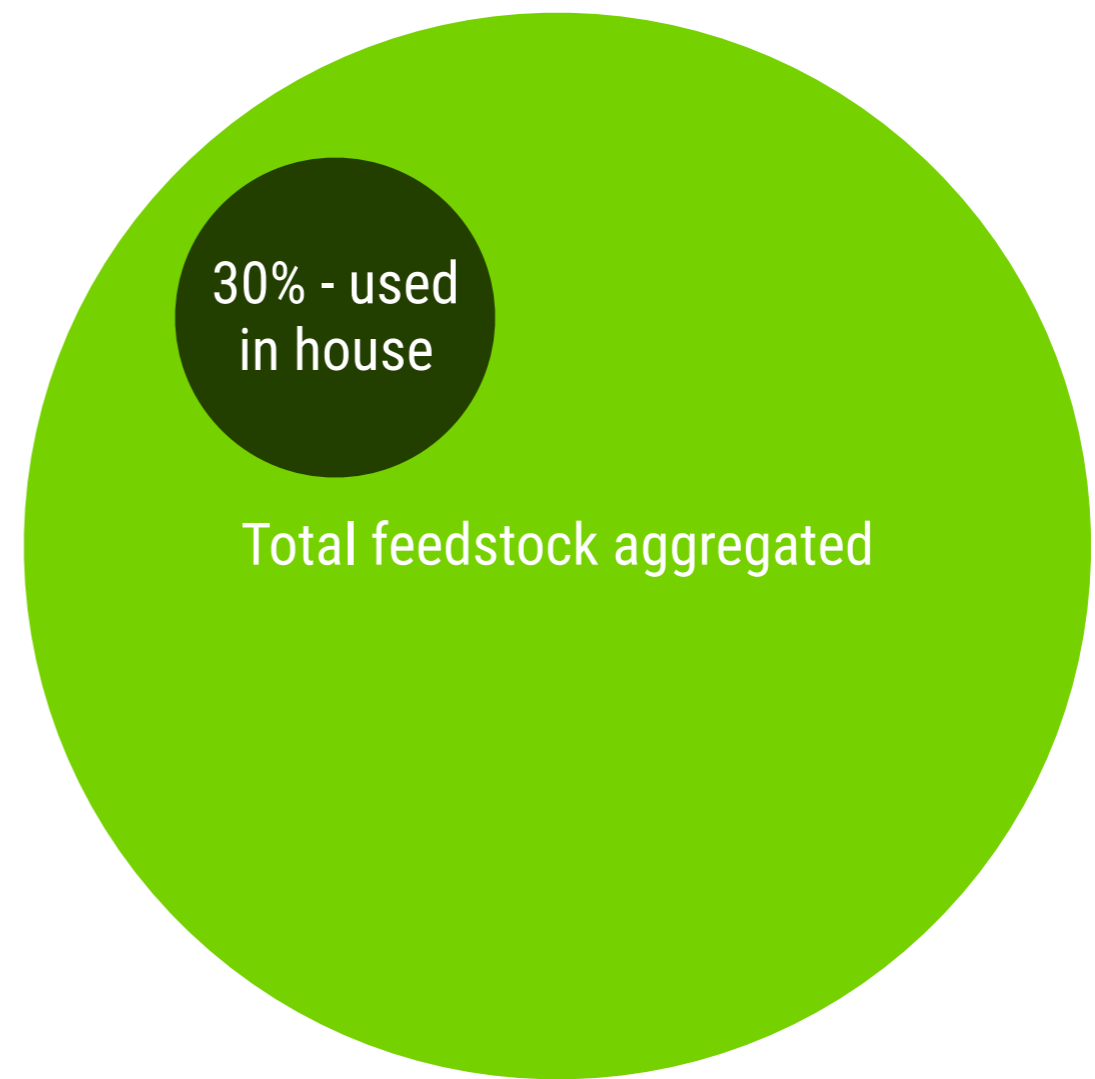


Our portfolio



● Waste

● Residue



A diversified portfolio of sustainable feedstocks



Used Cooking Oil



Animal tallow



Waste fish fat



Grease trap oil



Palm effluent sludge



Spent bleaching
earth oil



Spent coffee
grind oil



Technical fatty
acids



Empty palm fruit
bunch oil



Macro algae oil

Constantly innovating & searching for
more feedstock options

Our focus

Identify

robust, commercially viable and consistent supply chain of waste and residue products as a feedstock base

Understand

the feedstock stream enables us to advice true potential of each stream

Survey

by in house chefs on the food / products produce to determine the extent of virgin oil loss as well as providing a oil change / disposal SOP

Fix

an oil recovery yield and get buy in from the production site, to enable maximum generation of revenue from each production site

Implement

internally developed sensing technology into collection receptacles to provide live data for each collection tank across our supply chain

Benchmark

volumes, by way of on the ground data via vigorous and consistent audit at production sites of waste and residue material

Proper data collection coupled with innovative solutions have allowed us access to real time data monitoring

Creating

the peace of mind and integrity of the feedstocks

Fully transparent system

Integration

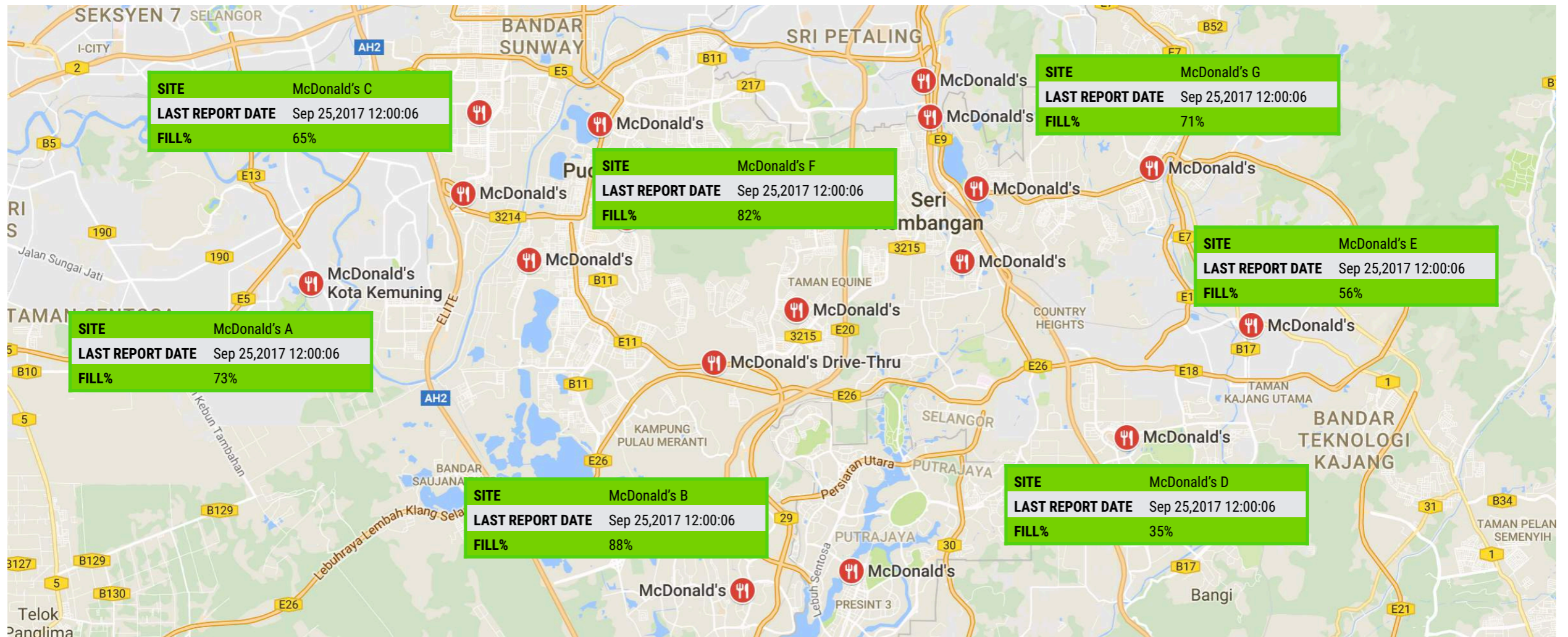
into POS System in each outlet to ensure zero pilferage or adulteration of feedstock collected

Live remote monitoring across all our unique outlets

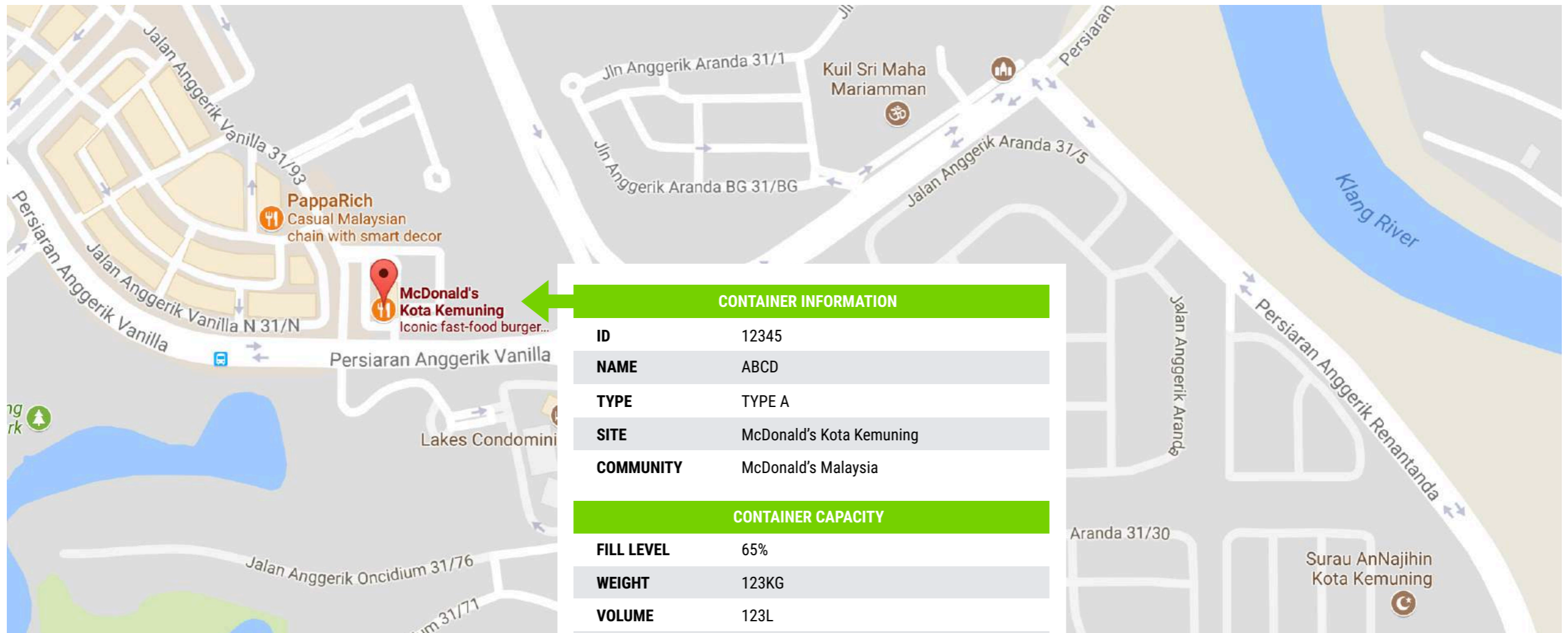


- Providing reliable data matched to internal production site SOP of waste oil disposal may it be factories or restaurants
- Improved logistical efficiency and service to individual production sites as we are sure that there will be timely collection with constant monitoring
- Accurate and actual GHG calculation as all location are geo tagged and detailed route analysis can be conducted

Control centre overview



Individual point information



McDonald's Kota Kemuning
Iconic fast-food burger...

CONTAINER INFORMATION

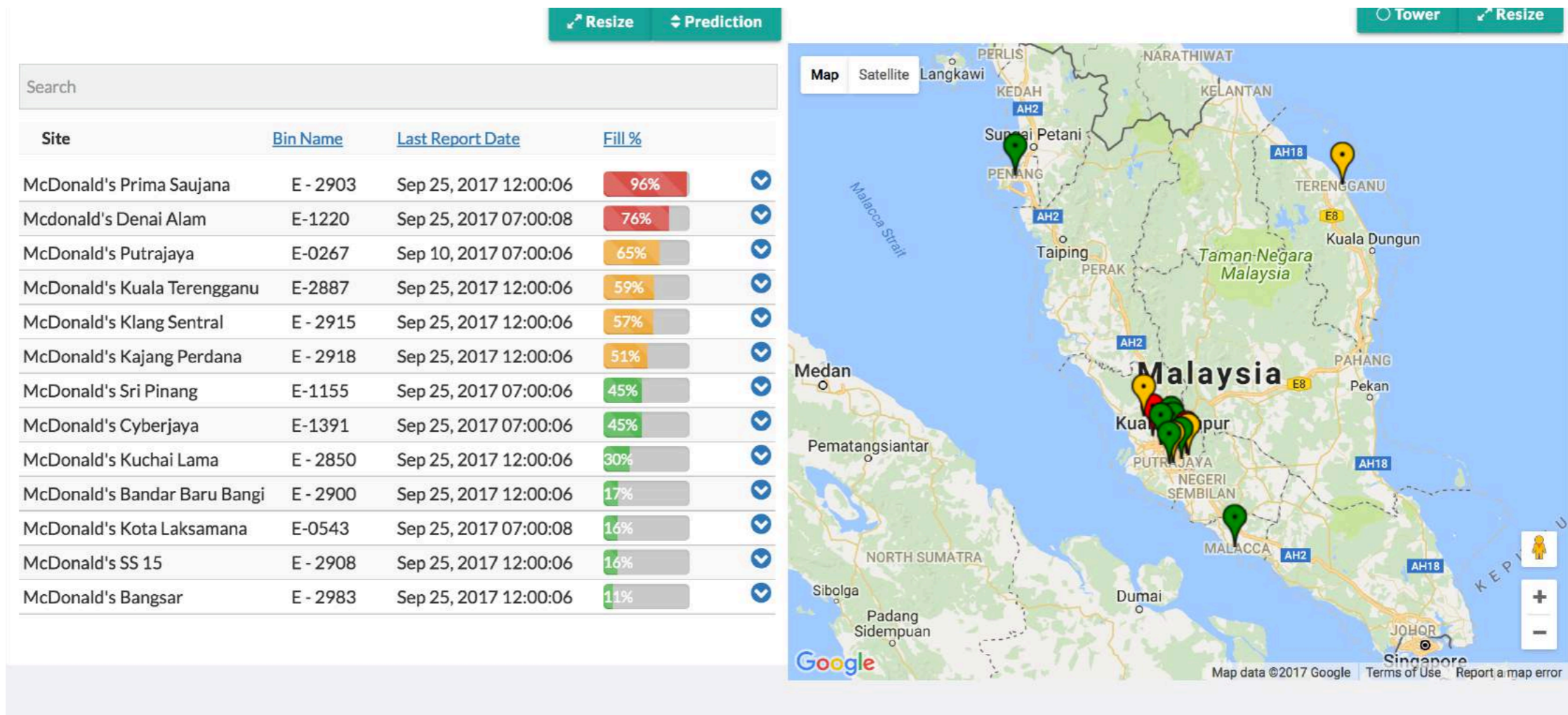
ID	12345
NAME	ABCD
TYPE	TYPE A
SITE	McDonald's Kota Kemuning
COMMUNITY	McDonald's Malaysia

CONTAINER CAPACITY

FILL LEVEL	65%
WEIGHT	123KG
VOLUME	123L

LATEST INFORMATION

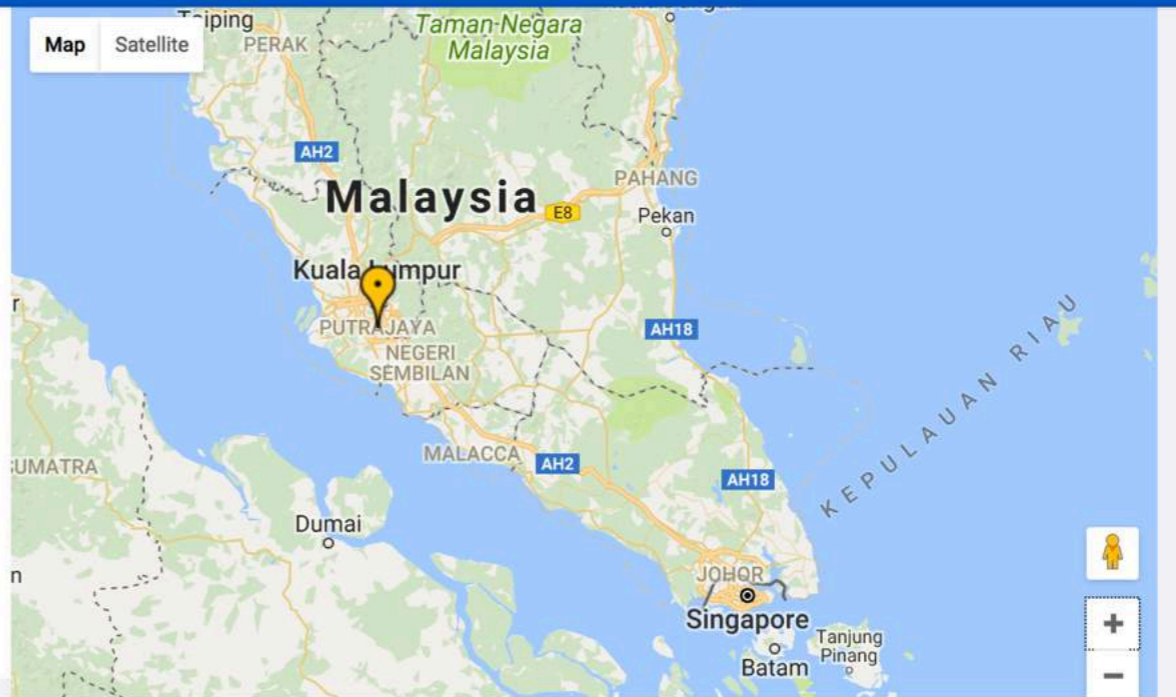
DISTANCE TO TARGET	65%
LAST SERVICE DATE	18 OCTOBER 2017



- A full view of all unique production sites, providing last serviced information as well as next forecasted service duration
- Each receptacle is customised to meet the capacity of once a month collection, ensuring better efficiency within the production sites
- All our systems are set up to be able to accommodate hot oil disposal, which enable production sites to do away with cooling the waste oil prior to disposal - this has reduced kitchen sizes across our supply chain

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Container Information			
Id	64130		
Name	E-0267		
Type	Envicor Tank (B)		
Site	McDonald's Putrajaya		
Community	McDonald's Malaysia		
Container Capacity			
Fill Level	65%		
Weight	658 kg	Current Weight	427.7 kg
Volume	776 L	Current Volume	504.4 L
Latest Information			
DistanceTo Target	55 cm		
Last Service Date			



- Each location will provide accurate data for each day coupled with extractable data that can be directly used for commercial billing purposes
- Current volume also can be accurately determined prior to collection vehicles deployment
- All receptacles are carried capacity and volume, with integrated equipment to ensure the best service. Including but not limited to an overflow switch to ensure there is not spillages

Our strategy in the waste and residue market

Create Green Oil Wells

1

2

Establish the Green Oil Wells in waste and residue production sites

Establish a commercial relationship with the waste and residue production sites, coupled with value additions to site by way of increased yield

3

4

Begin collection of reliable and robust daily data of waste and residue production

Benchmark the volume by type of production sites and establish a baseline

5

6

Scale the operations to as many different type of production sites as possible to establish more data

With live data reporting we will be able to project the waste and residue production to feed into biofuels producers supply chain

7

8

All the waste based biofuels producers will be able to log on and call on waste and residue feedstocks

Moving ahead all waste and residue feedstocks will have transparent and actual GHG reporting as the volumes and each point of origin will be visible

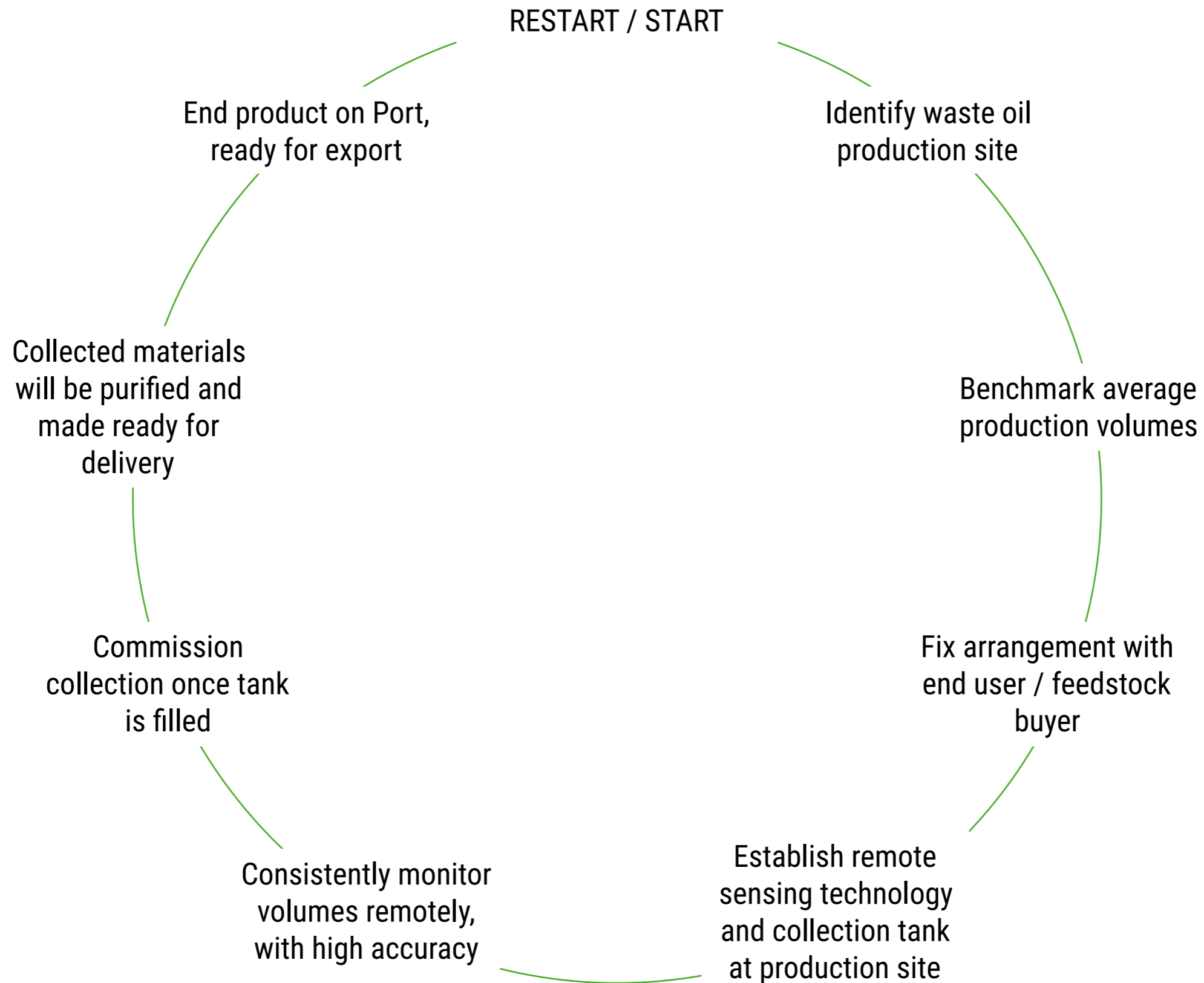
9

10

With zero possibility of pilferage and improved kitchen environment, a fixed and relatively reasonable price can be established

This system will enable for better clarity of the supply chain coupled with better profitability as the wells will be established in the production site by the end user - effectively closing the loop and significantly improving effectivity

How it works?





Interested?

Catch me for a live demo!

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CONCLUSION



With our innovation in big data and IOT integration, we believe that these new generation solutions will provide a much more robust and reliable method of sustainability reporting at an insignificant cost

Promoting sustainable waste and residue feedstock accumulation for the purpose of advance biofuel production must come with downstream innovation that engage multi stakeholders to ensure consistency of large feedstock volumes

Join us and lets build capacity...

Certified by :



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Awards received :



**EY Entrepreneur
Of The Year™**



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