

# INNOVATION GATEWAY

Round 1 2018 Challenge Brief

**Improving waste management**



# Improving waste management

## Challenges:

- Separation of liquids out of a waste stream
- Improving the use of waste and recycling data to increase engagement

# Separation of liquids out of a waste stream

## The challenge

The Innovation Gateway Partners have already made significant reductions in the waste that goes to landfill from their operations. Waste recycling best works when the various waste streams are separated at source, kept free from contaminants and kept dry. In some instances though, it is hard to minimise contamination.

Partners are dealing with members of the public, who may not have English as a first language. Waste generated on airplanes for example has to be incinerated if it has been contaminated by food and cleaners have limited time and space to segregate this waste at source – often all waste is collected (and contaminated) in one bag. This can often include half-full plastic bottles. The presence of liquid increases the weight of waste matter going for incineration, and reduces the efficiency of the process.

## The solutions we are seeking

A cleaner-centric innovative technology or approach that improves waste separation at source (such as a belt or a pouch that can be worn to put food waste into).

Back-end solutions that reduce the likelihood of contamination (for example from leaking bottles, and half-eaten food).

Innovative products that can be retrofitted to compactors (pre incineration) that will squeeze water out of bottles and take liquid off as a side stream to be treated.

## Selection criteria

- Improves waste segregation at source
- Reduces contamination of recycling streams
- Improves user perception

# Improving the use of waste and recycling data to increase engagement

## The challenge

Some of the Innovation Gateway partners have a property portfolio which spans several councils. Historically, each local council had their own waste management system which made it difficult for the Partners to collect data. Recently a single waste provider has been appointed across several of these councils, giving the Partners unprecedented access to data (in csv format) on waste. However this data needs to be used effectively in order to increase employee and customer engagement and incentivise effective recycling.

## The solutions we are seeking

Innovative approaches to show data in a coherent and engaging way in order to incentivise people to recycle their waste appropriately. The data will need to be presented via the Partners' social media channels, or integrated into their company apps.

The Partners would be interested in organisations that offer reward schemes as an add-on to their data solution.

## Selection criteria

- Does not use email as a way of disseminating information