

# INNOVATION GATEWAY

Challenge Selection  
Round 2, 2018

**Innovator Briefs - Reduction and reuse of waste**



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# Innovation Category

## Theme: Reduction and reuse of waste

### Challenges:

- Sustainable materials for building and furniture
- Reducing plastic waste

# Reduction and reuse of waste

## Sustainable materials for building and furniture

### The challenge

The Innovation Gateway Partners wish to improve the sustainability of the materials they use in traditional build, modular build and furniture construction projects.

They want to avoid the use of virgin and unsustainable materials, and the use of materials that are difficult to recycle, or whose manufacture and use is unfriendly to the environment.

### The solutions we are seeking

The Innovation Gateway partners are looking for innovative and more sustainable materials for use in traditional build, modular build, and furniture projects. All materials that can be used in retail, commercial office and domestic environments are of interest.

Examples of materials where more sustainable alternatives are sought include:

- Chipboard, MDF.
- Plasterboard.
- Laminates.
- Cement, plaster, sand and aggregate.
- Ceiling tiles, rafts, acoustic rafts and baffles.
- Vinyl flooring and vinyl graphics.
- Materials for office furniture construction counters, desks and pedestals.

### Further information

Successful solutions will succeed in reducing waste to landfill, reducing environmental pollution, or reducing the unsustainable use of natural resources

The Partners are willing to consider early stage as well as more mature solutions.

### Selection criteria

- Improved environmental performance / more sustainable.
- Comparable lifecycle costs.
- Meets relevant building regulations.

# Reducing plastic waste

## The Challenge

The Innovation Gateway Partners are targeting increasingly sustainable and responsible modes of operation. As a part of this journey, they want to reduce the use of single-use plastics across their operations.

Plastics are currently employed across a multitude of products that are used in day-to-day commercial operations, and finding cost effective and high-performance alternatives to existing products is challenging.

## The solutions we are seeking

The Innovation Gateway Partners are interested in innovative solutions and approaches to reducing the use of single-use plastics in commercial offices and retail environments.

Many of the solutions are likely to be application specific, and some examples of these are:

- Plastic windows in envelopes.
- Coin bags for use in bank branches.
- Banks cards.
- Visitor cards, holders and lanyards.
- Pens.

An ideal solution would:

- Eliminate the need for single use plastics.

OR

- Increase engagement of key stakeholders in reducing plastic use.

Solutions should be able to fit into the building and waste infrastructure of our Partners' sites and be flexible to fit different layouts and locations.

## Further information

The Partners are interested in both early-stage innovations and more mature ideas for quicker roll out.

## Selection criteria

- Deliver a reduction in plastic use.
- Improved sustainability.
- Less waste to landfill.
- Comparable cost to existing plastic solutions.
- Futureproof against cost, legislation and reputational risk.
- Low upkeep and payback time.