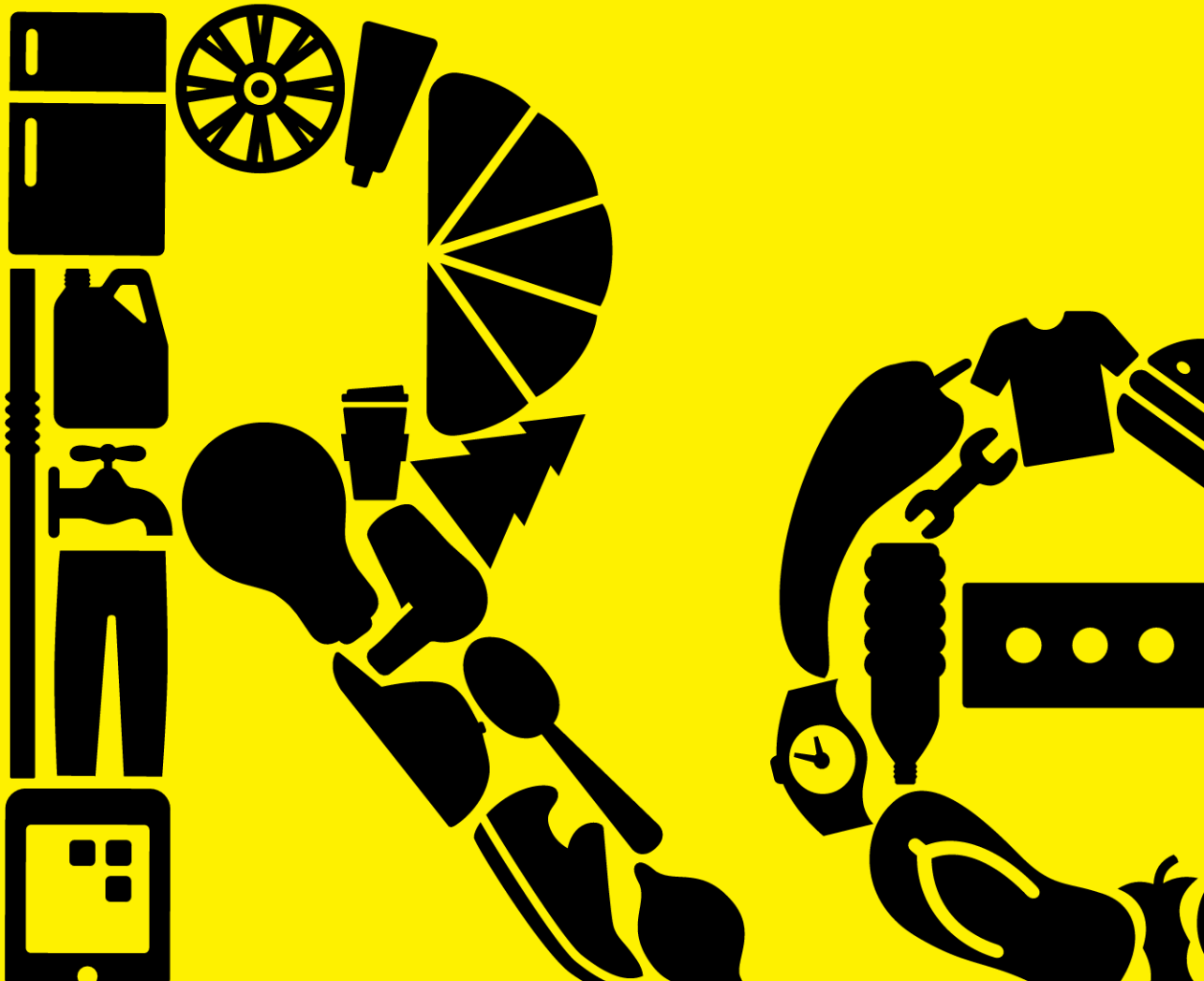
ReLondon

Built Environment Circular Economy Targets Project

Call for Projects



We are seeking partners to share building project material data to pilot and test potential circularity metrics

The goal of this project is to **define a circularity metric and target for use in planning policies and client briefs that sits alongside existing design metrics to further circularity outcomes in construction.** This work will inform upcoming recommendations for the next stage of the London Plan. This project has been funded by the Ramboll Foundation.

We have identified a shortlist of circularity metrics to trial (outlined slide 3) and are now looking to test and assess the metrics' performance on a number of UK-based building projects. To execute on this, we need real-life project material data from RIBA stage 2 from a wide range of typologies and building styles and are looking for partners who may be interested in sharing project details. The projects themselves can be at any stage post-planning approval.

The calculation of these metrics will be done by the ReLondon team via building data management tools like Madaster and Concular. The metrics results will be shared with an almost 30-strong panel of industry experts as well as a dozen local authority planning departments who will assess the metrics on their accuracy, clarity, and usability within the planning process. The purpose of the project is to test the efficacy of the metrics, not to judge or assess the validity of the projects' approaches.

How we will use building project material data

Circularity indicators will be calculated using building project material data. Material data does not need to be more granular than was submitted at planning. Projects taking part in this research can be at any stage of completion post planning approval.

We are looking to collect and share the following:

- Short description of project**
- Short description of key circular economy strategies implemented (if any)
- Metrics results calculated from project data. Most metrics will be calculated via the Madaster platform for consistency.

For more on the format of data input we are seeking please see slide 5 and Madaster's guide here.

(**Please note we can anonymise projects in specific cases where necessary)

The output of the metrics calculation will take the form of:

- Summary of projects and metrics results for review and analysis by stakeholders in presentation format.
- Inclusion in the summary of results for final report

The shortlist of metrics to test:

1. Circularity Index (Enfield, Net positive solutions)
2. CE Outcome Metric (LETI)
3. The Upfront CE Outcome Metric (LETI)
4. Circularity Performance Index (Concular)
5. Madaster CE indicator
6. ARUP MACE CE Indicator
7. The MPG
8. Circular Signature (Upcyclea)
9. Reused, recycled % by mass included
10. Whole Life Carbon assessment

How the metrics testing will feed into the wider project

The testing of the shortlist of circularity metrics is one of four workstreams in this project.

1
Identifying and testing circularity metrics on real-life projects

2
Evaluating current CE best practice through analysis of recently submitted CES and industry interviews

3
Recommending a best in practice metric and target

4
Disseminate finding in London and beyond

	6 Jun	7 Jul	8 Aug	9 Sept	10 Oct
Metrics testing – calculating metrics scores	■	■	■	■	
Metrics testing – testing usability with LAs				■	
Advisory Group meeting – reviewing and assessing metrics testing outcomes					■

‘Metrics Testers’ – those supporting the testing of potential circularity metrics by offering their project data and time – will be credited in all project outputs and are invited to attend upcoming advisory group meetings assessing the outcomes of the metrics testing.

Input needed from and opportunity for participants

If you are interested in participating, we ask that you are able to support with the following on one or more projects:

- One main contact to support metrics testing on project and communication of results (approx. 1-2 days over course of project depending on involvement)

Data adhering to following specifications:

- Format: IFC BIM files or excel
- Detail: generic material OR product descriptions, classification codes, geometric data
- Scope: Substructure, superstructure/frame, skin/shell at a minimum

- Clearance to share a short case study about the building project(s) within the context of the metric's testing work including an image and description of project and design approach (** Please note we can anonymise projects in specific cases where necessary)

Participation in this project will highlight partners' dedication to and leadership in the circularity space. Partners will be credited in all reporting and invited to speak at industry roundtables about the metric selection and target setting.

For more information, please reach out to Tessa Devreese at:

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