



PROJECT SUMMARY

Ref No.: MRIC/PCS-2204	Title: An innovative digital platform to enable the transformation of industry for a circular economy through synergy and materials data sharing
Local Company: La Decheteque	
Collaborating Institution: University of Mauritius	
Project Leader	
Mrs Stephanie Bouloc	La Decheteque
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TECHNICAL ABSTRACT	
<p>The transformation from a linear economy to a circular one hinges heavily on the creation of linkages and synergy between different actors of the industry, which allow materials and services to be utilised as a localised as possible, without the need to procure these materials/services from outside or to export materials due to lack of utilisation possibilities locally. However, what if those services and products were available locally, or if not currently available, could they be developed locally if the need for such materials and services exists? By answering these questions and getting the discussion around, the basis for a circular economy with optimum inland linkages is created, and therewith resilience to exterior influences and all the other benefits a circular economy brings along. The current operation of our economy is largely linear, evidenced by the negligible reuse, remanufacture, refurbishment or recycling of our resources, which means materials are not kept in the loop as long as possible. Based on the circular design principles developed by the Ellen McArthur Foundation, recycling should be the last resort to keeping materials in the technical cycle, as other more resource efficient possibilities such as maintenance, reuse and refurbishment should be considered first. The proposed project aims at developing a digital platform to enable linkages and synergy in the local industry to find existing and potential collaborations to improve our overall materiality index.</p>	
Key Words: Circular economy, circular design, materiality, digitalisation, synergy and linkages, RE USE/2ND HAND	